# CITATION REPORT List of articles citing

Investigation of multiplet splitting of Fe 2p XPS spectra and bonding in iron compounds

DOI: 10.1002/sia.1984 Surface and Interface Analysis, 2004, 36, 1564-1574.

Source: https://exaly.com/paper-pdf/37077799/citation-report.pdf

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

| #    | Paper  | IF    | Citations |
|------|--|-------|-----------|
| 2265 | Specific Detection of Proteins Using Exceptionally Responsive Magnetic Particles.  |       |           |
| 2264 | Magneto-Fluorescent YolkShell Nanoparticles.   |       |           |
| 2263 |  |       |           |
| 2262 | Efficient Formation of Light-Absorbing Polymeric Nanoparticles from the Reaction of Soluble Fe(III) with C4 and C6 Dicarboxylic Acids.   |       |           |
| 2261 | Formation and Transport of Cr(III)-NOM-Fe Colloids upon Reaction of Cr(VI) with NOM-Fe(II) Colloids at AnoxicOxic Interfaces.  |       |           |
| 2260 | Aerosol-Assisted Fine-Tuning of Optoelectrical Properties of SWCNT Films.  |       |           |
| 2259 |  |       |           |
| 2258 | Operando Studies of Antiperovskite Lithium Battery Cathode Material (Li2Fe)SO.   |       |           |
| 2257 | Overcoming the Limiting Step of Fe2O3 Reduction via in Situ Sulfide Modification.  |       |           |
| 2256 | Reduction and Simultaneous Removal of 99Tc and Cr by Fe(OH)2(s) Mineral Transformation.  |       |           |
| 2255 | Mechanistic Insights and Kinetics of CO Oxidation over Pristine and Noble Metal Modified Fe2O3<br>Using Diffuse Reflectance Infrared Fourier Transform Spectroscopy.               |       |           |
| 2254 | Iron nanoparticles: the core-shell structure and unique properties for Ni(II) sequestration. <b>2006</b> , 22, 463   | 8-42  | 362       |
| 2253 | Analytical and Characterization Studies of Organic and Inorganic Species in Brown Coal. <b>2006</b> , 20, 1556-  | -1564 | 43        |
| 2252 | Synthesis, Structural Features, and Reactivity of FellIn Mixed Oxides Prepared by Microemulsion. <b>2006</b> , 18, 2364-2375   |       | 73        |
| 2251 | Surface nature of nanoparticle gold/iron oxide aerogel catalysts. <b>2006</b> , 352, 35-43   |       | 43        |
| 2250 | Nondestructive in-depth composition profile of oxy-hydroxide nanolayers on iron surfaces from ARXPS measurement. <i>Surface and Interface Analysis</i> , <b>2006</b> , 38, 964-974 | 1.5   | 45        |
| 2249 | XPS and ToF-SIMS characterization of a Finemet surface: effect of cooling. <i>Surface and Interface Analysis</i> , <b>2006</b> , 38, 1164-1172                                     | 1.5   | 5         |

#### (2007-2006)

| 2248 | SiO2 diffusion barriers. <b>2006</b> , 2, 902-9  | 34   |
|------|--|------|
| 2247 | Magnetic, electronic and structural properties of ZnxFe3⊠O4. <b>2006</b> , 153, 65-70  | 66   |
| 2246 | Poly(3,4-ethylenedioxythiophene)-Prussian Blue hybrid material: Evidence of direct chemical interaction between PB and pEDOT. <b>2006</b> , 8, 107-112   | 36   |
| 2245 | On the quantitative XPS analysis of Fe2O3 and Fe1⊠O oxides. <b>2006</b> , 154, 38-40   | 35   |
| 2244 | MCM-41 silica modified with copper and iron oxides as catalysts for methanol decomposition. <b>2006</b> , 246, 118-127   | 30   |
| 2243 | Cerium effect on the phase structure, phase stability and redox properties of Ce-doped strontium ferrates. <b>2006</b> , 179, 3406-3419  | 48   |
| 2242 | New interpretations of XPS spectra of nickel metal and oxides. <b>2006</b> , 600, 1771-1779  | 1300 |
| 2241 | Cathodic electrosynthesis of iron oxide films for electrochemical supercapacitors. <b>2006</b> , 36, 1399-1405   | 93   |
| 2240 | Molecular Structure of the Interphase Formed by Plasma-Polymerized Acetylene Films and Steel Substrates. <b>2007</b> , 83, 267-287   | 5    |
| 2239 | Liquid crystal surface alignments by using ion beam sputtered magnetic thin films. <b>2007</b> , 91, 074102  | 11   |
| 2238 | X-ray Photoelectron Spectroscopy Surface Quantification of Sulfided CoMoP Catalysts [Relation Between Activity and Promoted Sites [Part I: Influence of the Co/Mo Ratio. <b>2007</b> , 62, 79-89 | 86   |
| 2237 | Sequestration of Metal Cations with Zerovalent Iron NanoparticlesA Study with High Resolution X-ray Photoelectron Spectroscopy (HR-XPS). <b>2007</b> , 111, 6939-6946                            | 455  |
| 2236 | Vertically oriented Ti-Fe-O nanotube array films: toward a useful material architecture for solar spectrum water photoelectrolysis. <b>2007</b> , 7, 2356-64                                     | 355  |
| 2235 | Adsorption of sulfur dioxide on hematite and goethite particle surfaces. <b>2007</b> , 9, 5542-54  | 247  |
| 2234 | Effects of Surface Coordination on the Temperature-Programmed Desorption of Oxalate from Goethite. <b>2007</b> , 111, 17072-17081  | 10   |
| 2233 | Effect of substrate cleaning solution pH on the corrosion performance of silane-coated cold-rolled steel. <b>2007</b> , 21, 935-960  | 15   |
| 2232 | Reduction of an Fe2O3(0001) Film Using Atomic Hydrogen. <b>2007</b> , 111, 2198-2204   | 34   |
| 2231 | Core-shell nanocrystalline structures in oxidized iron thin films prepared by sputtering at very low temperatures. <b>2007</b> , 101, 113914   | 12   |

2230 A Study for Improving the Resistance to Fretting Corrosion of SCr 420 Gear Steel. 2007,

| 2229 | Visible light photoreduction of Cr(VI) in aqueous solution using iron-containing zeolite tubes. <b>2007</b> , 100, 340-349  | 16  |
|------|---|-----|
| 2228 | Investigation of pyrite oxidation by hexavalent chromium: solution species and surface chemistry. <b>2007</b> , 316, 531-40   | 59  |
| 2227 | Preparation and Characterization of W-Type Hexaferrite Doped with La3+. <b>2007</b> , 25, 590-595   | 31  |
| 2226 | Iron oxide nanoparticles within the pore system of mesoporous SBA-15 in different acidity: the synthesis and characterization. <b>2007</b> , 43, 47-51  | 17  |
| 2225 | Next-nearest neighbour contributions to P 2p3/2 X-ray photoelectron binding energy shifts of mixed transition-metal phosphides M1M2xP with the MnP-type structure. <b>2007</b> , 180, 2702-2712             | 42  |
| 2224 | Oxidation and deprotonation of synthetic FeIIEeIII (oxy)hydroxycarbonate Green Rust: An X-ray photoelectron study. <b>2008</b> , 181, 81-89   | 48  |
| 2223 | Ligand field effects on the multiplet structure of the U4f XPS of UO2. <b>2008</b> , 602, 1114-1121   | 29  |
| 2222 | XPS study of Fe(II)?Fe(III) (oxy)hydroxycarbonate green rust compounds. <i>Surface and Interface Analysis</i> , <b>2008</b> , 40, 323-328   | 104 |
| 2221 | Strong p-type doping of individual carbon nanotubes by Prussian blue functionalization. <b>2008</b> , 4, 1671-5   | 28  |
| 2220 | An efficient electron transfer at the Fe0/iron oxide interface for the photoassisted degradation of pollutants with H2O2. <b>2008</b> , 82, 151-156   | 28  |
| 2219 | A study of the 42CrMo4 steel surface by quantitative XPS electron spectroscopy. <b>2008</b> , 254, 4738-4743  | 13  |
| 2218 | Nanoparticles of iron and vanadium oxides supported on iron substituted LDHs: Synthesis, textural characterization and their catalytic behavior in ethylbenzene dehydrogenation. <b>2008</b> , 115, 541-547 | 22  |
| 2217 | X-Ray photoelectron spectra of iron trimethylacetate complexes. <b>2008</b> , 53, 1614-1620   | 3   |
| 2216 | Structure-related lower surface resistivity and faster doping of poly(thiophene-3-acetic acid-co-3-hexylthiophene) compared with poly(thiophene-3-acetic acid). <b>2008</b> , 112, 223-225                  | 15  |
| 2215 | Comparative studies of ferric green rust and ferrihydrite coated sand: Role of synthesis routes. <b>2008</b> , 10, 1342-1351  | 11  |
| 2214 | Electrodeposition of ⊞e2O3 Doped with Mo or Cr as Photoanodes for Photocatalytic Water Splitting. <b>2008</b> , 112, 15900-15907  | 378 |
| 2213 | Reversible UV-light-induced ultrahydrophobic-to-ultrahydrophilic transition in an alpha-Fe2O3 nanoflakes film. <b>2008</b> , 24, 10569-71   | 87  |

| 2212         | On the protonation of oxo- and hydroxo-groups of the goethite (⊞eOOH) surface: A FTIR spectroscopic investigation of surface Oℍ stretching vibrations. <b>2008</b> , 72, 3338-3357    | 64  |
|--------------|---|-----|
| 2211         | Metal-organic coordination interactions in Fe-terephthalic acid networks on Cu(100). 2008, 130, 2108-13   | 130 |
| <b>221</b> 0 | Visible light-active nano-sized Fe-doped TiO2 photocatalysts and their characterization. 2008,  |     |
| 2209         | Hard X-ray Photoemission Spectroscopy Combined with Magnetic Circular Dichroism: Application to Fe3-xZnxO4Spinel Oxide Thin Films. <b>2008</b> , 1, 077003                            | 27  |
| 2208         | Growth and Characterization of Iron Nanoparticle Catalysts for Nanomaterial Synthesis. 2008,  |     |
| 2207         | XPS and ToF-SIMS characterization of a Finemet surface: effect of heating. <i>Surface and Interface Analysis</i> , <b>2009</b> , 41, 231-237  | 15  |
| 2206         | X-ray photoelectron spectroscopic chemical state quantification of mixed nickel metal, oxide and hydroxide systems. <i>Surface and Interface Analysis</i> , <b>2009</b> , 41, 324-332 | 989 |
| 2205         | Effect of sodium dithionite on the surface composition of iron-containing aquifer sediment. <i>Surface and Interface Analysis</i> , <b>2009</b> , 41, 941-950                         | 5   |
| 2204         | LaFeyNi1DO3 supported nickel catalysts used for steam reforming of ethanol. 2009, 34, 4735-4746   | 80  |
| 2203         | Epitaxial growth of ZnO films on thin FeO(111) layers. <b>2009</b> , 311, 3918-3923   | 11  |
| 2202         | NiFe-oxide electrocatalysts for the oxygen evolution reaction on Ti doped hematite photoelectrodes. <b>2009</b> , 11, 1150-1153   | 62  |
| <b>22</b> 01 | Phenol methylation over nanoparticulate CoFe2O4 inverse spinel catalysts: The effect of morphology on catalytic performance. <b>2009</b> , 366, 184-192                               | 90  |
| <b>22</b> 00 | Characterization of the citrate precursor, used for synthesis of nanosized Mg-Zn ferrites. <b>2009</b> , 7, 415-422   | 8   |
| 2199         | Effect of Hydrogen Sulfide on Chemical Looping Combustion of Coal-Derived Synthesis Gas over Bentonite-Supported Metal Dxide Oxygen Carriers. <b>2009</b> , 48, 8418-8430             | 53  |
| 2198         | Origin of activation of Lattice Oxygen and Synergistic Interaction in Bimetal-Ionic Ce0.89Fe0.1Pd0.01O2ICatalyst. <b>2009</b> , 21, 4880-4891   | 84  |
| 2197         | Reactivity of Fe0 Atoms, Clusters, and Nanoparticles with CCl4 Multilayers on FeO(111). <b>2009</b> , 113, 1818-1829  | 18  |
| 2196         | Oxidation Conversion of Carbon-Encapsulated Metal Nanoparticles to Hollow Nanoparticles. <b>2009</b> , 21, 3730-3737  | 36  |
| 2195         | XPS study of duplex stainless steel oxidized by oxygen atoms. <b>2009</b> , 51, 827-832   | 57  |

| 2194 | Synthesis and characterization of kaolinite-supported zero-valent iron nanoparticles and their application for the removal of aqueous Cu2+ and Co2+ ions. <b>2009</b> , 43, 172-181                     | 264 |
|------|---|-----|
| 2193 | Spectroelectrochemistry at ultrahigh vacuum: in situ monitoring of electrochemically generated species by X-ray photoelectron spectroscopy. <b>2009</b> , 5817-9  | 58  |
| 2192 | Self-Organized Anodic TiO2 Nanotube Arrays Functionalized by Iron Oxide Nanoparticles. <b>2009</b> , 21, 662-672  | 126 |
| 2191 | Characterization and Oxidation of Fe Nanoparticles Deposited onto Highly Oriented Pyrolytic Graphite, Using X-ray Photoelectron Spectroscopy. <b>2009</b> , 113, 6418-6425                              | 34  |
| 2190 | Interaction between uranium(VI) and siderite (FeCO3) surfaces in carbonate solutions. 2009, 97,   | 21  |
| 2189 | Nanostructured #e2O3 Electrodes for Solar Driven Water Splitting: Effect of Doping Agents on Preparation and Performance. <b>2009</b> , 113, 4768-4778  | 140 |
| 2188 | Preparation of NiFeB Nanoalloy Catalysts and Their Applications in Liquid-Phase Hydrogenation of p-Chloronitrobenzene. <b>2009</b> , 48, 6248-6255  | 17  |
| 2187 | Nanostructured Fe2O3 Thin Films for Photoelectrochemical Hydrogen Generation. <b>2009</b> , 21, 3763-3772   | 292 |
| 2186 | Influence of foreign Fe ions on wet chemical synthesis of Pt nanoparticle thin films at ambient temperature: in situversus direct addition. <b>2009</b> , 19, 6810                                      | 7   |
| 2185 | Catalyst Composition, Morphology and Reaction Pathway in the Growth of Buper-LonglCarbon Nanotubes. <b>2010</b> , 2, 1069-1073  | 32  |
| 2184 | An X-ray photoelectron and absorption spectroscopic investigation of the electronic structure of cubanite, CuFe2S3. <b>2010</b> , 37, 389-405   | 18  |
| 2183 | Crystal chemistry, surface morphology and X-ray photoelectron spectroscopy of Fe-rich osumilite from Mt. Arci, Sardinia (Italy). <b>2010</b> , 37, 561-569  | 7   |
| 2182 | Combined use of X-ray photoelectron and M\(\bar{\text{B}}\)sbauer spectroscopic techniques in the analytical characterization of iron oxidation state in amphibole asbestos. <b>2010</b> , 396, 2889-98 | 40  |
| 2181 | Effect of Fe3O4 on morphology of Fe8nO2 hyperbranched heterostructures. <b>2010</b> , 493, 121-125  | 8   |
| 2180 | Degradation characteristics of humic acid over iron oxides/Fe 0 core-shell nanoparticles with UVA/H2O2. <b>2010</b> , 173, 474-9  | 47  |
| 2179 | Plasma electrolytic ceramic-like aluminum oxide coatings on iron. <b>2010</b> , 40, 365-374   | 36  |
| 2178 | The effects of vacuum annealing on the structure and surface chemistry of iron nanoparticles. <b>2010</b> , 12, 1765-1775   | 49  |
| 2177 | The effects of vacuum annealing on the structure and surface chemistry of iron:nickel alloy nanoparticles. <b>2010</b> , 12, 2081-2092  | 27  |

## (2010-2010)

| 2176 | Solgel synthesis and characterization of mesoporous ironlitanium mixed oxide for catalytic application. <b>2010</b> , 123, 427-433   | 18   |
|------|--|------|
| 2175 | Single-Crystalline Dodecahedral and Octodecahedral Pe2O3 Particles Synthesized by a Fluoride Anion Assisted Hydrothermal Method. <b>2010</b> , 20, 3987-3996                 | 164  |
| 2174 | IronBalciumBydroxyapatite catalysts: Iron speciation and comparative performances in butan-2-ol conversion and propane oxidative dehydrogenation. <b>2010</b> , 388, 113-123 | 46   |
| 2173 | S-doped Fe2O3 as a highly active heterogeneous Fenton-like catalyst towards the degradation of acid orange 7 and phenol. <b>2010</b> , 96, 162-168                           | 230  |
| 2172 | An XPS study for mechanisms of arsenate adsorption onto a magnetite-doped activated carbon fiber. <b>2010</b> , 343, 232-8   | 122  |
| 2171 | A two-dimensional magnetic hybrid material based on intercalation of a cationic Prussian blue analog in montmorillonite nanoclay. <b>2010</b> , 348, 393-401                 | 9    |
| 2170 | Low-temperature fabrication of superconducting FeSe thin films by pulsed laser deposition. <b>2010</b> , 519, 1540-1545  | 32   |
| 2169 | Analysis of XPS results of AISI 316L SS electropolished and magnetoelectropolished at varying conditions. <b>2010</b> , 204, 2583-2592                                       | 41   |
| 2168 | Experimental estimation of friction force in lubricated cutting of steel. <b>2010</b> , 269, 557-564   | 11   |
| 2167 | Some features of acetylene hydrogenation on Au-iron oxide catalyst. <b>2010</b> , 380, 133-141   | 25   |
| 2166 | Self-assembled monolayers of flufenaminate anions on mild steel surface formed in aqueous solution. <b>2010</b> , 257, 1166-1174   | 8    |
| 2165 | Resolving surface chemical states in XPS analysis of first row transition metals, oxides and hydroxides: Sc, Ti, V, Cu and Zn. <b>2010</b> , 257, 887-898                    | 2216 |
| 2164 | Effects of Eadiation versus H2O2 on carbon steel corrosion. <b>2010</b> , 55, 2767-2776  | 50   |
| 2163 | Corrosion behavior under accelerated SO2 corrosion tests of thin iron nitride films prepared by DIBS. <i>Surface and Interface Analysis</i> , <b>2010</b> , 42, 616-620      | 4    |
| 2162 | Improved Room-Temperature Ferromagnetism in Self-Assembled Disk-Like Superstructures of Fe-Doped PbTiO3 Nanocrystals. <b>2010</b> , 93, 3610-3613                            | 7    |
| 2161 | Modeling of iron oxide deposition by reactive ion beam sputtering. <b>2010</b> , 107, 054908   | 3    |
| 2160 | SemiconductorBalf metal transition at the Fe3O4(001) surface upon hydrogen adsorption. <b>2010</b> , 82,   | 77   |
| 2159 | Photoanodic properties of pulsed-laser-deposited Fe2O3electrode. <b>2010</b> , 43, 325101  | 28   |

| 2158 | Synthesis of Nanostructured Mesoporous Ordered Silica Supported Fe2O3 Nanoparticles for Water Purification. <b>2010</b> , 31-45   | 1   |
|------|---|-----|
| 2157 | Effects of electric potential treatment of a chromium hexacyanoferrate modified biosensor based on PQQ-dependent glucose dehydrogenase. <b>2010</b> , 10, 6347-60                     | 8   |
| 2156 | Effect of Reduced Particle Size on the Magnetic Properties of Chemically Synthesized BiFeO3<br>Nanocrystals. <b>2010</b> , 114, 2108-2115   | 169 |
| 2155 | Synthesis and characterization of sintering-resistant silica-encapsulated Fe3O4 magnetic nanoparticles active for oxidation and chemical looping combustion. <b>2010</b> , 21, 225708 | 45  |
| 2154 | Photoelectron spectroscopy of ionic liquid-based interfaces. <b>2010</b> , 110, 5158-90   | 234 |
| 2153 | An investigation of Fe-doped ZnO thin films grown by magnetron sputtering. <b>2010</b> , T141, 014004   | 6   |
| 2152 | Confirmation of X-ray Photoelectron Spectroscopy Peak Attributions of Nanoparticulate Iron Oxides, Using Symmetric Peak Component Line Shapes. <b>2010</b> , 114, 10711-10718         | 115 |
| 2151 | Iron/iron oxide nanoparticles: a versatile support for catalytic metals and their application in Suzuki-Miyaura cross-coupling reactions. <b>2010</b> , 46, 2411-3                    | 84  |
| 2150 | Electrical conductivity and oxygen sensing behavior of SrSn1⊠FexO3Ūx = 0Ū.2). <b>2010</b> , 506, 285-292  | 19  |
| 2149 | Photoelectron spectroscopy study of the inhibition of mild steel corrosion by molybdate and nitrite anions. <b>2010</b> , 52, 422-428   | 39  |
| 2148 | Ex situ XANES, XPS and Raman studies of poly(3,4-ethylenedioxythiophene) modified by iron hexacyanoferrate. <b>2010</b> , 160, 1234-1240  | 49  |
| 2147 | One-Pot Aqueous Synthesis of Fe and Ag Core/Shell Nanoparticles. <b>2010</b> , 22, 6291-6296  | 59  |
| 2146 | Structural and magnetic properties of (Al, Fe)-codoped SiC. <b>2010</b> , 43, 415002  | 12  |
| 2145 | The wear properties and adhesion strength of the diamond-like carbon film coated on SUS, Ti and Ni-Ti with plasma pre-treatment. <b>2010</b> , 20, 21-35                              | 3   |
| 2144 | Study of the valence state and electronic structure in $Sr(2)FeMO(6)$ (M = W, Mo, Re and Sb) double perovskites. <b>2010</b> , 12, 13616-25   | 34  |
| 2143 | Simultaneous in situ generation of hydrogen peroxide and Fenton reaction over Pd-Fe catalysts. <b>2010</b> , 12, 14673-6  | 27  |
| 2142 | Organic phase synthesis of monodisperse iron oxide nanocrystals using iron chloride as precursor. <b>2010</b> , 2, 1027-32  | 83  |
| 2141 | Effects of dopant ion and Mn valence state in the La1NAxMnO3 (A=Sr,Ba) colossal magnetoresistance films. <b>2010</b> , 28, 1-5  | 5   |

## (2011-2010)

| 2140 | Patterned growth of ultra long carbon nanotubes. Properties and systematic investigation into their growth process. <b>2010</b> , 20, 1717  | 24  |
|------|---|-----|
| 2139 | One-pot synthesis and characterization of well defined coreBhell structure of FePt@CdSe nanoparticles. <b>2011</b> , 1, 100   | 23  |
| 2138 | Functionalized, biocompatible coating for superparamagnetic nanoparticles by controlled polymerization of a thioglycosidic monomer. <b>2011</b> , 12, 681-91                                  | 56  |
| 2137 | Surface Effects on Morin Transition, Exchange Bias, and Enchanced Spin Reorientation in Chemically Synthesized DyFeO3 Nanoparticles. <b>2011</b> , 115, 2954-2960                             | 34  |
| 2136 | Electronic structure of epitaxial Fe-doped SrTiO3 thin films. <b>2011</b> , 84, 489-500   | 12  |
| 2135 | Interfacial Interactions of Iron(II) Tetrapyrrole Complexes on Au(111). <b>2011</b> , 115, 17028-17035  | 37  |
| 2134 | Rapid catalytic microwave method to damage Microcystis aeruginosa with FeCl3-loaded active carbon. <b>2011</b> , 45, 4521-6   | 27  |
| 2133 | Surface Chemistry and Thermal Stability of Fe Nanoparticles Annealed under Ultrahigh-Vacuum Conditions. <b>2011</b> , 115, 12972-12980  | 5   |
| 2132 | Pd2+/Pd0 redox cycling in hexagonal YMn(0.5)Fe(0.5)O3: implications for catalysis by PGM-substituted complex oxides. <b>2011</b> , 50, 8073-84  | 13  |
| 2131 | Compositional tuning of the strain-induced structural phase transition and of ferromagnetism in Bi1⊠BaxFeO3□ <b>2011</b> , 26, 1326-1331  | 16  |
| 2130 | The surface trans effect: influence of axial ligands on the surface chemical bonds of adsorbed metalloporphyrins. <b>2011</b> , 133, 6206-22  | 178 |
| 2129 | Top-down synthesis of multifunctional iron oxide nanoparticles for macrophage labelling and manipulation. <b>2011</b> , 21, 3803  | 67  |
| 2128 | Polyacrylonitrile/ferrous chloride composite porous nanofibers and their strong Cr-removal performance. <b>2011</b> , 21, 991-997   | 98  |
| 2127 | Fabrication, growth mechanism, and characterization of Fe(2)O(3) nanorods. <b>2011</b> , 3, 317-23  | 159 |
| 2126 | Magnetic field control of fluorescent polymer nanorods. <b>2011</b> , 22, 455704  | 5   |
| 2125 | Enhancing Photoresponse of Nanoparticulate ⊞e2O3 Electrodes by Surface Composition Tuning. <b>2011</b> , 115, 3497-3506   | 129 |
| 2124 | Adsorption of fatty acids on iron (hydr)oxides from aqueous solutions. <b>2011</b> , 27, 10007-18   | 63  |
| 2123 | Study on Formation Mechanism by Monitoring the Morphology and Structure Evolution of Nearly Monodispersed Fe3O4 Submicroparticles with Controlled Particle Sizes. <b>2011</b> , 50, 9009-9018 | 116 |

| 2122 | Evolution of steel surface composition with heating in vacuum and in air. 2011, 257, 10005-10017   | 7   |
|------|--|-----|
| 2121 | 304L stainless steel oxidation in carbon dioxide: An XPS study. <b>2011</b> , 509, 3246-3251   | 11  |
| 2120 | Magnetite and zero-valent iron nanoparticles for the remediation of uranium contaminated environmental water. <b>2011</b> , 45, 2931-42  | 206 |
| 2119 | Fabrication of iron-cerium mixed oxide: an efficient photocatalyst for dye degradation. <b>2011</b> , 2,   | 15  |
| 2118 | Binding Energy of Carbon Implanted into Hematite and in situ Observation of Reaction Behavior during Heating Up Experiment. <b>2011</b> , 51, 1204-1212  | 3   |
| 2117 | Utilization of electrochemical impedance spectroscopy for monitoring pyrite oxidation in the presence and absence of Acidithiobacillus ferrooxidans. <b>2011</b> , 24, 833-838   | 25  |
| 2116 | Effect of nanosize on catalytic properties of ferric (hydr)oxides in water: Mechanistic insights. <b>2011</b> , 282, 25-34   | 27  |
| 2115 | Solvothermal synthesis of Fe <b>®</b> codoped TiO2 nanoparticles for visible-light photocatalytic removal of emerging organic contaminants in water. <b>2011</b> , 409-410, 257-266  | 48  |
| 2114 | Ligand dynamics controlled reverse spin cross over in bis pyrazolyl pyridine based Fe(II) complex cation with metallodithiolato anions with an example of a ferromagnetic 2:1 cocrystal of mixed Ni(III)/Ni(II) oxidation states. <b>2011</b> , 374, 586-600 | 5   |
| 2113 | X-ray photoelectron and M\(\text{B}\)sbauer spectroscopy studies of bimetallic 57Fe-Pd nanocomposites prepared by metal-vapor synthesis. <b>2011</b> , 85, 636-645   | 7   |
| 2112 | Potential application of sludge produced from coal mine drainage treatment for removing Zn(II) in an aqueous phase. <b>2011</b> , 33 Suppl 1, 103-12   | 43  |
| 2111 | Poly(amidehydroxyurethane) template magnetite nanoparticles electrosynthesis: I. Electrochemical aspects and identification. <b>2011</b> , 13, 2509-2523   | 6   |
| 2110 | Enhanced reactivity of nanoscale iron particles through a vacuum annealing process. <b>2011</b> , 13, 4591-4601  | 5   |
| 2109 | Evolution of an iron passive film in a borate buffer solution (pH 8.4). <b>2011</b> , 15, 1927-1934  | 18  |
| 2108 | Arsenopyrite and pyrite bioleaching: evidence from XPS, XRD and ICP techniques. <b>2011</b> , 401, 2237-48   | 47  |
| 2107 | Development of conversion coating on mild steel prior to sol gel nanostructured Al2O3 coating for enhancement of corrosion resistance. <b>2011</b> , 205, 4960-4967  | 74  |
| 2106 | Arsenic removal from aqueous solutions by mixed magnetite haghemite nanoparticles. 2011, 64, 411-423   | 104 |
| 2105 | Composition and morphology control of Fex(PO4)y(OH)z-nH2O microcrystals. <b>2011</b> , 46, 711-717   | 3   |

| Resolving surface chemical states in XPS analysis of first row transition metals, oxides and hydroxides: Cr, Mn, Fe, Co and Ni. <b>2011</b> , 257, 2717-2730   | 4214          |
|--|---------------|
| XPS depth profiling study on the passive oxide film of carbon steel in saturated calcium hydroxide solution and the effect of chloride on the film properties. <b>2011</b> , 257, 4669-4677            | 220           |
| Effects of tin doping on physicochemical and electrochemical performances of LiFe1\( \text{LIS}\) SnxPO4/C (0\( \text{LIO}\) 0.07) composite cathode materials. <b>2011</b> , 56, 7385-7391            | 35            |
| Heterogeneous and homogeneous Fenton processes using activated carbon for the removal of the herbicide amitrole from water. <b>2011</b> , 101, 425-430   | e<br>54       |
| 2100 Sorption of nickel and cobalt ions onto cobalt and nickel ferrites. <b>2011</b> , 360, 695-700  | 9             |
| Structural, morphological, luminescent and electronic properties of sprayed aluminium incorporated iron oxide thin films. <b>2011</b> , 205, 3567-3577   | 27            |
| 2098 Evaluation of 18 Year-Service Lifetime of NR-SBR Lining. <b>2011</b> , 291-294, 2914-2917   |               |
| Laser induced structural modification in Fe-Na-B glass samples investigated by advanced XPS technique. <b>2011</b> , 5, 434  | 1             |
| 2096 Effect of Aqueous Environment on Monolayer of Tetrairon(III) Single Molecule Magnet. <b>2012</b> , 159,   | H772-H776     |
| Surface Analysis of Inhibitor Film Formed by 4-Amino-N-(1,3-thiazol-2-yl) Benzene Sulfonamide on Carbon Steel Surface in Acidic Media. <b>2012</b> , 45, 55-64   | 19            |
| Magnetization enhancement and cation valences in nonstoichiometric (Mn,Fe)3-D4 nanoparticles. <b>2012</b> , 111, 074309  | 11            |
| Multiferroic properties of Aurivillius phase Bi6Fe2\(\mathbb{L}\)CoxTi3O18 thin films prepared by a chemical solution deposition route. <b>2012</b> , 101, 122402                                      | 70            |
| Plasma stabilisation of metallic nanoparticles on silicon for the growth of carbon nanotubes. <b>2012</b> 112, 034303  | 13            |
| Phase evolution of magnetite nanocrystals on oxide supports via template-free bismuth ferrite precursor approach. <b>2012</b> , 112, 104321  | 6             |
| Structure determination of chitosan-stabilized Pt and Pd based bimetallic nanoparticles by X-ray photoelectron spectroscopy and transmission electron microscopy. <b>2012</b> , 137, 493-498           | 6             |
| Study of the corrosion products formed on carbon steel surface in hydrochloric acid solution. <b>2012</b> 110, 145-152   | <b>2</b> , 18 |
| A facile method for synthesis of Keggin-type cesium salt of iron substituted lacunary phosphotungstate supported on MCM-41 and study of its extraordinary catalytic activity. <b>2012</b> , 198, 52-58 | 18            |
| Kinetic study of cis-dichloroethylene (cis-DCE) and vinyl chloride (VC) dechlorination using green rusts formed under varying conditions. <b>2012</b> , 46, 6339-50                                    | 23            |

| 2086 | The role of the Auger parameter in XPS studies of nickel metal, halides and oxides. <b>2012</b> , 14, 2434-42  | 201 |
|------|--|-----|
| 2085 | Facile synthetic fabrication of iron oxide particles and novel hydrogen superoxide supercapacitors. <b>2012</b> , 2, 6672  | 65  |
| 2084 | Magnetite modified graphene nanosheets with improved rate performance and cyclic stability for Li ion battery anodes. <b>2012</b> , 2, 4397  | 18  |
| 2083 | Maghemite functionalization for antitumor drug vehiculization. <b>2012</b> , 9, 2017-28  | 10  |
| 2082 | Effect of water chemistry and aging on iron-mica interaction forces: implications for iron particle transport. <b>2012</b> , 28, 10453-63  | 13  |
| 2081 | Conversion Reaction of FeF2 Thin Films upon Exposure to Atomic Lithium. <b>2012</b> , 116, 10498-10503   | 20  |
| 2080 | Low-temperature carbonization and more effective degradation of carbohydrates induced by ferric trichloride. <b>2012</b> , 116, 7635-43  | 12  |
| 2079 | Electro-Fenton oxidation of pesticides with a novel Fe3O4@Fe2O3/activated carbon aerogel cathode: High activity, wide pH range and catalytic mechanism. <b>2012</b> , 125, 120-127                       | 209 |
| 2078 | Fabrication and surface photovoltage study of hematite microparticles with hollow spindle-shaped structure. <b>2012</b> , 258, 7099-7104   | 12  |
| 2077 | XPS study on the correlation of magnetic properties and site occupancy of Al doped SrFe12O19. <b>2012</b> , 532, 114-120   | 25  |
| 2076 | Angle-resolved XPS study of carbon steel passivity and chloride-induced depassivation in simulated concrete pore solution. <b>2012</b> , 58, 159-167   | 108 |
| 2075 | Enhancement of stability of Prussian blue thin films by electrochemical insertion of Ni2+ ions: A stable electrocatalytic sensing of H2O2 in mild alkaline media. <b>2012</b> , 78, 452-458              | 14  |
| 2074 | U(VI) removal kinetics in presence of synthetic magnetite nanoparticles. <b>2012</b> , 96, 154-173   | 43  |
| 2073 | Preparation of glycopolymer-coated magnetite nanoparticles for hyperthermia treatment. <b>2012</b> , 50, 5087-5096   | 29  |
| 2072 | Reduction of U(VI) incorporated in the structure of hematite. <b>2012</b> , 46, 9428-36  | 64  |
| 2071 | Preparation of carbon-sensitized and Fe <b>E</b> r codoped TiO2 with response surface methodology for bisphenol A photocatalytic degradation under visible-light irradiation. <b>2012</b> , 126, 121-133 | 68  |
| 2070 | Dramatic enhancement of catalytic activity over transition metal substituted hematite. <b>2012</b> , 18, 1612-1619   | 10  |
| 2069 | Effect of iron oxide loading on the phase transformation and physicochemical properties of nanosized mesoporous ZrO2. <b>2012</b> , 47, 3463-3472  | 34  |

#### (2013-2012)

| 2068 | lithium-ion battery applications. <b>2012</b> , 5, 6559  | 404 |
|------|--|-----|
| 2067 | The effect of A-site substitution of Ce and La on the magnetic and electronic properties of Sr(Ti0.6Fe0.4)O(3-) films. <b>2012</b> , 51, 13245-53                  | 14  |
| 2066 | Synthesis, self-assembly, and high performance in gas sensing of X-shaped iron oxide crystals. <b>2012</b> , 4, 5698-703   | 43  |
| 2065 | Fabrication and characterization of Bismuth-Cerium composite iron garnet epitaxial films for magneto optical applications. <b>2012</b> , 112, 083525               | 6   |
| 2064 | Synthesis of multifunctional nanostructured zinc-iron mixed oxide photocatalyst by a simple solution-combustion technique. <b>2012</b> , 4, 707-13                 | 74  |
| 2063 | 3D Network Magnetophotonic Crystals Fabricated on Morpho Butterfly Wing Templates. <b>2012</b> , 22, 2072-2080   | 81  |
| 2062 | X-ray photoelectron spectroscopy of ferrocenyl- and ferrocenium-based ionic liquids. <b>2012</b> , 13, 1917-26   | 34  |
| 2061 | Iron nanoparticles catalyzing the asymmetric transfer hydrogenation of ketones. <b>2012</b> , 134, 5893-9  | 197 |
| 2060 | Fe2O3 xerogel used as the anode material for lithium ion batteries with excellent electrochemical performance. <b>2012</b> , 48, 7410-2                            | 42  |
| 2059 | Au/FeOx catalysts of different degree of iron oxide reduction. <b>2012</b> , 187, 20-29  | 18  |
| 2058 | Magnetically controlled bioelectrocatalytic system based on ferrocene-tagged magnetic nanoparticles by thiol-ene reaction. <b>2012</b> , 69, 167-173               | 19  |
| 2057 | Solution-based synthesis and characterization of Cu2FeSnS4 nanocrystals. <b>2012</b> , 133, 688-691  | 42  |
| 2056 | Effect of particle size on iron nanoparticle oxidation state. <b>2012</b> , 520, 2036-2040   | 3   |
| 2055 | Ultrasound-assisted synthesis and visible-light-driven photocatalytic activity of Fe-incorporated TiO2 nanotube array photocatalysts. <b>2012</b> , 199-200, 410-7 | 105 |
| 2054 | Dualistic distribution coefficients of elements in the system mineral-hydrothermal solution. II. Gold in magnetite. <b>2012</b> , 50, 227-245                      | 11  |
| 2053 | The improvement of the high-rate charge/discharge performances of LiFePO4 cathode material by Sn doping. <b>2012</b> , 16, 1-8                                     | 24  |
| 2052 | Weak affinity for CO of platinum group metal nanoparticles supported on partially reduced iron oxides. <b>2013</b> , 15, 1   | 12  |
| 2051 | Manganese hexacyanoferrate/MnO2 composite nanostructures as a cathode material for supercapacitors. <b>2013</b> , 1, 2621  | 78  |

| 2050 | Investigation of the photodegradation properties of iron oxide doped mesoporous SBA-15 silica. <b>2013</b> , 20, 1009-1015  | 4   |
|------|---|-----|
| 2049 | The improved thermal oxidative stability of silicone rubber by using iron oxide and carbon nanotubes as thermal resistant additives. <b>2013</b> , 76, 52-60  | 34  |
| 2048 | Gold nanostar @ iron oxide coreBhell nanostructures: synthesis, characterization, and demonstrated surface-enhanced Raman scattering properties. <b>2013</b> , 15, 1  | 23  |
| 2047 | Efficient Methane Conversion to Hydrogen by the Force-Activated Oxides on Iron Particle Surfaces. <b>2013</b> , 117, 16104-16118  | 17  |
| 2046 | Acidity and basicity of halometallate-based ionic liquids from X-ray photoelectron spectroscopy. <b>2013</b> , 3, 9436  | 38  |
| 2045 | Fabrication and characterization of iron and fluorine co-doped BST thin films for microwave applications. <b>2013</b> , 48, 3586-3596   | 7   |
| 2044 | Water oxidation catalysis: electrocatalytic response to metal stoichiometry in amorphous metal oxide films containing iron, cobalt, and nickel. <b>2013</b> , 135, 11580-6  | 706 |
| 2043 | Nano islet formation of formyl- and carboxyferrocene, -ruthenocene, -osmocene and cobaltocenium on amine-functionalized silicon wafers highlighted by crystallographic, AFM and XPS studies. <b>2013</b> , 745-746, 393-403 | 15  |
| 2042 | Fabrication of ⊞e2O3 nanorod/RGO composite: a novel hybrid photocatalyst for phenol degradation. <b>2013</b> , 5, 9101-10   | 262 |
| 2041 | Surface functionalization of nanostructured Fe2O3 polymorphs: from design to light-activated applications. <b>2013</b> , 5, 7130-8  | 40  |
| 2040 | In Situ Redox Microfluidic Synthesis of CoreBhell Nanoparticles and Their Long-Term Stability. <b>2013</b> , 117, 17274-17284   | 28  |
| 2039 | Potential and Limitations of Natural Chabazite for Selective Catalytic Reduction of NOx with NH3. <b>2013</b> , 85, 632-641   | 7   |
| 2038 | Deposition of gold from chloride solutions on microporous iron-carbon sorbents. <b>2013</b> , 86, 534-538   | 3   |
| 2037 | Treatment of Organic Compounds by Activated Persulfate Using Nanoscale Zerovalent Iron. <b>2013</b> , 52, 13564-13571   | 137 |
| 2036 | Gold/W\(\text{\textstyle}\) the electron-transfer phenomenon. <b>2013</b> , 14, 3278-83   | 5   |
| 2035 | Formation of Iron Oxyfluoride Phase on the Surface of Nano-Fe3O4 Conversion Compound for Electrochemical Energy Storage. <b>2013</b> , 4, 3798-3805   | 26  |
| 2034 | Fabrication and Characterization of Anodic Films onto the Type-304 Stainless Steel in Glycerol Electrolyte. <b>2013</b> , 117, 20730-20737  | 21  |
| 2033 | Stability improvement of Au/FellaAl2O3 catalyst via incorporating with a FexOy layer in CO oxidation process. <b>2013</b> , 138-139, 104-112  | 18  |

| 2032 | Tantalum oxide nanocoatings prepared by atomic layer and filtered cathodic arc deposition for corrosion protection of steel: Comparative surface and electrochemical analysis. <b>2013</b> , 90, 232-245          | 71  |
|------|---|-----|
| 2031 | Synthesis of Dimethyl Ether from CO2 and H2 Using a CuBedr/HZSM-5 Catalyst System. 2013, 52, 16648-1665.  | 561 |
| 2030 | A new insight on the core-shell structure of zerovalent iron nanoparticles and its application for Pb(II) sequestration. <b>2013</b> , 263 Pt 2, 685-93   | 112 |
| 2029 | Conductive, monodisperse polyaniline nanofibers of controlled length using well-defined cylindrical block copolymer micelles as templates. <b>2013</b> , 19, 13030-9  | 25  |
| 2028 | Rare-earth transition-metal indium sulphides RE3FeInS7 (RE=La <b>P</b> r), RE3CoInS7 (RE=La, Ce), and La3NiInS7. <b>2013</b> , 208, 78-85   | 22  |
| 2027 | Kinetics of cadmium(II) uptake by mixed maghemite-magnetite nanoparticles. 2013, 129, 642-51  | 41  |
| 2026 | Three-Dimensional Graphene Nano-Networks with High Quality and Mass Production Capability via Precursor-Assisted Chemical Vapor Deposition. <b>2013</b> , 3,  | 115 |
| 2025 | A photoelectron spectroscopy study of lava stones. <b>2013</b> , 5, 3458-3462   | 7   |
| 2024 | X-ray photoelectron spectroscopy of fast-frozen hematite colloids in aqueous solutions. 5. Halide ion (F-, Cl-, Br-, I-) adsorption. <b>2013</b> , 29, 2623-30  | 31  |
| 2023 | Desorption of Ambient Gas Molecules and Phase Transformation of #e2O3 Nanostructures during Ultrahigh Vacuum Annealing. <b>2013</b> , 117, 1509-1517  | 8   |
| 2022 | Thermal analysis of corrosion products formed on carbon steel in ammonium chloride solution. <b>2013</b> , 111, 1149-1154   | 12  |
| 2021 | Gas Phase Initial Oxidation of Incoloy 800 Surfaces. <b>2013</b> , 79, 179-200  | 7   |
| 2020 | The passive film characterization and anodic polarization behavior of 11% Cr ferritic/martensitic and 15% Cr oxide dispersion strengthened steels in different electrolytic solutions. <b>2013</b> , 274, 345-355 | 28  |
| 2019 | Fluoride adsorption on an FeAlCe trimetal hydrous oxide: Characterization of adsorption sites and adsorbed fluorine complex species. <b>2013</b> , 223, 364-370   | 86  |
| 2018 | Adsorption of n-octanohydroxamate collector on iron oxides. <b>2013</b> , 121, 70-89  | 26  |
| 2017 | Nano-crystalline Fe2O3 thin films for ppm level detection of H2S. <b>2013</b> , 181, 471-478  | 94  |
| 2016 | Olivine as tar removal catalyst in biomass gasification: Catalyst dynamics under model conditions. <b>2013</b> , 130-131, 168-177   | 49  |
| 2015 | Hybrid materials achieved by polypeptide grafted magnetite nanoparticles through a dopamine biomimetic surface anchored initiator. <b>2013</b> , 4, 558-567   | 47  |

| 2014 | Effective enhancement of electrochemical properties for LiFePO4/C cathode materials by Na and Ti co-doping. <b>2013</b> , 89, 479-487  | 73  |
|------|--|-----|
| 2013 | Superoxide mediated production of hydroxyl radicals by magnetite nanoparticles: demonstration in the degradation of 2-chlorobiphenyl. <b>2013</b> , 250-251, 68-75   | 98  |
| 2012 | Fabrication of S, N co-doped Fe2O3 nanostructures: effect of doping, OH radical formation, surface area, [110] plane and particle size on the photocatalytic activity. <b>2013</b> , 3, 7912                                 | 57  |
| 2011 | Chromium(VI) removal by maghemite nanoparticles. <b>2013</b> , 222, 527-533  | 178 |
| 2010 | Influence of the iron precursor in the preparation of heterogeneous Fe/activated carbon Fenton-like catalysts. <b>2013</b> , 458, 39-47  | 38  |
| 2009 | In situ ultrasound-assisted synthesis of Fe3O4 nanoparticles with simultaneous ion co-precipitation for multielemental analysis of natural waters by total reflection X-ray fluorescence spectrometry. <b>2013</b> , 28, 923 | 21  |
| 2008 | Cadmium (Cd(2+)) removal by nano zerovalent iron: surface analysis, effects of solution chemistry and surface complexation modeling. <b>2013</b> , 20, 6210-21   | 128 |
| 2007 | Electrically conductive magnetic nanowires using an electrochemical DNA-templating route. <b>2013</b> , 5, 5349-59   | 26  |
| 2006 | Ionic liquid-assisted solvothermal synthesis of oriented self-assembled Fe3O4 nanoparticles into monodisperse nanoflakes. <b>2013</b> , 15, 3284   | 15  |
| 2005 | Detection of Fe2+ valence states in Fe doped SrTiO3 epitaxial thin films grown by pulsed laser deposition. <b>2013</b> , 15, 8311-7  | 29  |
| 2004 | Controlled Synthesis of Amine-Capped Fe2O3 Nanoparticles by a One-Step Process. <b>2013</b> , 52, 7713-7717  | 14  |
| 2003 | Fabrication, characterization, and photocatalytic property of Fe2O3/graphene oxide composite. <b>2013</b> , 15, 1  | 19  |
| 2002 | Rapid magnetic removal of aqueous heavy metals and their relevant mechanisms using nanoscale zero valent iron (nZVI) particles. <b>2013</b> , 47, 4050-8   | 156 |
| 2001 | Chemical vapor deposition of mesoporous graphene nanoballs for supercapacitor. <b>2013</b> , 7, 6047-55  | 268 |
| 2000 | Probing the surface phase diagram of Fe3O4(001) towards the Fe-rich limit: Evidence for progressive reduction of the surface. <b>2013</b> , 87,  | 61  |
| 1999 | Rationally Designed Hierarchical TiO2@Fe2O3 Hollow Nanostructures for Improved Lithium Ion Storage. <b>2013</b> , 3, 737-743   | 274 |
| 1998 | Chitosan fiber-supported zero-valent iron nanoparticles as a novel sorbent for sequestration of inorganic arsenic. <b>2013</b> , 3, 7828   | 98  |
| 1997 | Efficient removal of sulfur hexafluoride (SF6) through reacting with recycled electroplating sludge. <b>2013</b> , 47, 6493-9  | 29  |

| 1996 | Conversion Reaction of CoO Polycrystalline Thin Films Exposed to Atomic Lithium. <b>2013</b> , 117, 14518-14525  | 18 |
|------|--|----|
| 1995 | One-pot synthesis of iron oxide nanoparticles with functional silane shells: a versatile general precursor for conjugations and biomedical applications. <b>2013</b> , 29, 10850-8                           | 35 |
| 1994 | Effective Functionalization of Disordered Oxide Lattices on Iron Particle Surfaces Using Mechanochemical Reactions. <b>2013</b> , 117, 9908-9919   | 12 |
| 1993 | Au-Ni and Au-Fe heterometallic systems: an X-ray photoelectron spectroscopy study. <b>2013</b> , 62, 2559-2566   | 4  |
| 1992 | Grafting of functionalized [Fe(III)(salten)] complexes to Au(111) surfaces via thiolate groups: surface spectroscopic characterization and comparison of different linker designs. <b>2013</b> , 29, 8534-43 | 12 |
| 1991 | XPS measurements of LDX 2101 duplex steel surface after magnetoelectropolishing. <b>2013</b> , 104, 1223-1232  | 20 |
| 1990 | De Gruyter. <b>2013</b> , 12,  | 1  |
| 1989 | Initial stages of FeO growth on Ru(0001). <b>2013</b> , 25, 484001   | 11 |
| 1988 | Kinetics Study of Photocatalytic Activity of Flame-Made Unloaded and Fe-Loaded CeO2Nanoparticles. <b>2013</b> , 2013, 1-9  | 21 |
| 1987 | Ultrasmall manganese ferrite nanoparticles as positive contrast agent for magnetic resonance imaging. <b>2013</b> , 2, 958-64  | 72 |
| 1986 | Magnetism modulation of Fe/ZnO heterostructure by interface oxidation. 2013, 103, 212405   | 17 |
| 1985 | Magnetic and photocatalytic properties of n- and p-type ZnFe2O4 particles synthesized using ultrasonic spray pyrolysis. <b>2013</b> , 121, 26-30   | 10 |
| 1984 | Modified cassava starches as potential corrosion inhibitors for sustainable development. <b>2013</b> , 16, 1209-1219   | 18 |
| 1983 | The Effect of Vacuum Annealing of Magnetite and Zero-Valent Iron Nanoparticles on the Removal of Aqueous Uranium. <b>2013</b> , 2013, 1-11   | 14 |
| 1982 | Reduction of ferrihydrite with adsorbed and coprecipitated organic matter: microbial reduction by <i>Geobacter bremensis</i> vs. abiotic reduction by Na-dithionite. <b>2014</b> , 11, 4953-4966             | 66 |
| 1981 | The removal of uranium onto carbon-supported nanoscale zero-valent iron particles. <b>2014</b> , 16, 2813  | 32 |
| 1980 | NiCoFe spinel-type oxide nanosheet arrays derived from layered double hydroxides as structured catalysts. <b>2014</b> , 4, 57804-57809   | 14 |
| 1979 | Modulation of transport properties of RuO2with 3d transition metals. <b>2014</b> , 1, 045034   | 7  |

| 1978 | Single-crystalline dodecahedral 宇e2O3 particles with nanometer size: synthesis and characterization. <b>2014</b> , 16, 1  | 3   |
|------|---|-----|
| 1977 | Photocatalytic activity of non-stoichiometric ZnFe2O4under visible light irradiation. <b>2014</b> , 89, 044011  | 25  |
| 1976 | Metallic Impurities in Graphene Screen-Printed Electrodes Can Influence Their Electrochemical Properties. <b>2014</b> , 26, 2429-2433                               | 17  |
| 1975 | MORPHOLOGICAL AND COMPOSITIONAL STUDY AT THE SI/Fe INTERFACE OF (Fe/Si) MULTILAYER. <b>2014</b> , 04, 1440002   | 5   |
| 1974 | Sharp chemical interface in epitaxial Fe3O4 thin films. <b>2014</b> , 105, 241603   | 4   |
| 1973 | Photocatalytic and magnetic behaviors of BiFeO3 thin films deposited on different substrates. <b>2014</b> , 116, 174307   | 22  |
| 1972 | Wide-Range Structural and Chemical Stability of the Magnetic Oxide NiFe2O4 Grown by O2-Assisted Pulsed Laser Deposition. <b>2014</b> , 50, 1-4                      | 7   |
| 1971 | Engineered Electronic States of Transition Metal Doped TiO2 Nanocrystals for Low Overpotential Oxygen Evolution Reaction. <b>2014</b> , 118, 29499-29506            | 92  |
| 1970 | The investigation of interface properties of FeCo/Bepp2 heterostructures. <b>2014</b> , 321, 50-54  | 9   |
| 1969 | Crystal Chemistry and Surface Configurations of Two Iron-Bearing Trioctahedral Mica-1M Polytypes. <b>2014</b> , 62, 243-252   | 3   |
| 1968 | Magnetic and Photocatalytic Behaviors of Ba-Doped BiFeO3 Nanofibers. <b>2014</b> , 11, 676-680  | 10  |
| 1967 | Enhanced interfacial polarization relaxation effect on microwave absorption properties of submicron-sized hollow Fe3O4hemispheres. <b>2014</b> , 47, 275001         | 33  |
| 1966 | The effect of XPS background removing method on the appraisal of Ti and Fe: The case of phlogopites and brookite. <b>2014</b> , 99, 139-148                         | 5   |
| 1965 | Growth of ultra-thin FeO(100) films on Ag(100): A combined XPS, LEED and CEMS study. <b>2014</b> , 349, 235-239   | 14  |
| 1964 | A novel magnetic Fe@Au core-shell nanoparticles anchored graphene oxide recyclable nanocatalyst for the reduction of nitrophenol compounds. <b>2014</b> , 48, 210-7 | 510 |
| 1963 | Development of amperometric L-tyrosine sensor based on Fe-doped hydroxyapatite nanoparticles. <b>2014</b> , 35, 85-91   | 49  |
| 1962 | Facile fabrication of mesoporous Fe2O3/SnO2 nanoheterostructure for photocatalytic degradation of malachite green. <b>2014</b> , 224, 171-179                       | 42  |
| 1961 | Ions removal by iron nanoparticles: a study on solidWater interface with zeta potential. <b>2014</b> , 444, 1-8   | 28  |

| 1960 | Enhanced visible-light-response photocatalytic degradation of methylene blue on Fe-loaded BiVO4 photocatalyst. <b>2014</b> , 597, 129-135                                      | 82   |
|------|--|------|
| 1959 | Highly productive iron molybdate mixed oxides and their relevant catalytic properties for direct synthesis of 1,1-dimethoxymethane from methanol. <b>2014</b> , 145, 126-135   | 48   |
| 1958 | Study of the growth process of magnetic nanoparticles obtained via the non-aqueous solgel method. <b>2014</b> , 49, 4705-4714  | 21   |
| 1957 | Iron dicarbonyl complexes featuring bipyridine-based PNN pincer ligands with short interpyridine C-C bond lengths: innocent or non-innocent ligand?. <b>2014</b> , 20, 4403-13 | 49   |
| 1956 | Electrochemical studies on graphene oxide-supported metallic and bimetallic nanoparticles for fuel cell applications. <b>2014</b> , 191, 172-176                               | 63   |
| 1955 | Fe/S doped granular activated carbon as a highly active heterogeneous persulfate catalyst toward the degradation of Orange G and diethyl phthalate. <b>2014</b> , 418, 330-7   | 71   |
| 1954 | Sorption of Gold by Naked and Thiol-Capped Magnetite Nanoparticles: An XPS Approach. <b>2014</b> , 118, 2776-2791  | 56   |
| 1953 | The effect of catalyst modification on the conversion of glycerol to allyl alcohol. <b>2014</b> , 152-153, 117-128   | 6    |
| 1952 | Three-dimensional magnetic graphene oxide foam/Fe3O4 nanocomposite as an efficient absorbent for Cr(VI) removal. <b>2014</b> , 49, 4236-4245                                   | 132  |
| 1951 | Glycerol valorization by etherification to polyglycerols by using metal oxides derived from MgFe hydrotalcites. <b>2014</b> , 470, 199-207                                     | 55   |
| 1950 | The influence of the preparation procedures on the catalytic activity of Fe-BEA zeolites in SCR of NO with ammonia and N2O decomposition. <b>2014</b> , 235, 210-225           | 43   |
| 1949 | Enhanced thermal conductivity in polymer composites with aligned graphene nanosheets. <b>2014</b> , 49, 5256-526   | 4122 |
| 1948 | Dopant spin states and magnetism of Sn1⊠FexO2 nanoparticles. <b>2014</b> , 115, 17B534   | 12   |
| 1947 | Characteristics of iron-loaded TiO2-supported montmorillonite catalysts: ENaphthol degradation under UV-A irradiation. <b>2014</b> , 89, 1155-1167                             | 12   |
| 1946 | Corrosion inhibitor binding in an acidic medium: Interaction of 2-mercaptobenizmidazole with carbon-steel in hydrochloric acid. <b>2014</b> , 85, 109-114                      | 52   |
| 1945 | A facile route to modify ferrous phosphate and its use as an iron-containing resource for LiFePO4 via a polyol process. <b>2014</b> , 6, 9449-57                               | 17   |
| 1944 | Corrosion Behavior of Surface Modified NdFeB Permanent Magnet in Dilute Chloride Environments. <b>2014</b> , 123, 23-32  | 13   |
| 1943 | Fe2O3/TiO2 photocatalyst of hierarchical structure for H2 production from water under visible light irradiation. <b>2014</b> , 190, 10-16                                      | 43   |

| 1942 | Effects of washing solution and drying condition on reactivity of nano-scale zero valent irons (nZVIs) synthesized by borohydride reduction. <b>2014</b> , 97, 146-52   | 38  |
|------|---|-----|
| 1941 | WO3-Fe2O3 composite photoelectrodes with low onset potential for solar water oxidation. <b>2014</b> , 16, 1327-32   | 33  |
| 1940 | Functionalization of magnetic nanoparticles with high-binding capacity for affinity separation of therapeutic proteins. <b>2014</b> , 16, 1   | 12  |
| 1939 | Efficient visible-light responsive TiO2 nanoparticles incorporated magnetic carbon photocatalysts. <b>2014</b> , 240, 91-98   | 31  |
| 1938 | Photo-induced oxidation of Sb(III) on goethite. <b>2014</b> , 95, 295-300   | 48  |
| 1937 | XRD, XPS, SEM/EDX and broadband impedance spectroscopy study of pyrophosphate (LiFeP2O7 and Li0.9Fe0.9Ti0.1P2O7) ceramics. <b>2014</b> , 87, 438-451  | 10  |
| 1936 | Catalytic activity of Fe@Ag nanoparticle involved calcium alginate beads for the reduction of nitrophenols. <b>2014</b> , 190, 133-138  | 90  |
| 1935 | Investigation of atomic layer deposition of magnesium oxide on a CoFeB layer for three-dimensional magnetic tunneling junctions. <b>2014</b> , 588, 716-719   | 9   |
| 1934 | Cr(III)-containing Fe3O4/mercaptopropanoic acid-poly(2-hydroxyethyl acrylate) nanocomposite: a highly active magnetic catalyst in solvent-free aerobic oxidation of alcohols. <b>2014</b> , 43, 3618-25                                     | 6   |
| 1933 | Tantalum and aluminum co-doped iron oxide as a robust photocatalyst for water oxidation. <b>2014</b> , 147, 733-740   | 75  |
| 1932 | Role of oxygen vacancy and Fe-O-Fe bond angle in compositional, magnetic, and dielectric relaxation on Eu-substituted BiFeO(3) nanoparticles. <b>2014</b> , 43, 5731-8  | 125 |
| 1931 | Synthesis and Reactive Properties of Iron OxideDoated Nanoaluminum. <b>2014</b> , 32, 95-105  | 9   |
| 1930 | Hierarchical TiO2-B nanowire@Fe2O3 nanothorn core-branch arrays as superior electrodes for lithium-ion microbatteries. <b>2014</b> , 7, 1797-1808   | 90  |
| 1929 | Nanocrystals of Zn(Fe)O-based diluted magnetic semi-conductor as potential luminescent and magnetic bimodal bioimaging probes. <b>2014</b> , 4, 58145-58150   | 3   |
| 1928 | Effect of the synthesis temperature of porous carbon-metal oxide composites on the gold particle morphology. <b>2014</b> , 88, 1762-1766  |     |
| 1927 | In situ generated FeF 3 in homogeneous iron matrix toward high-performance cathode material for sodium-ion batteries. <b>2014</b> , 10, 295-304   | 90  |
| 1926 | Determination of Fe oxidation states in the B-site ordered perovskite-type Ba2Ca0.67Fe0.33NbO6th the surface (nano-scale) and bulk by variable temperature XPS and TGA and their impact on electrochemical catalysis. <b>2014</b> , 2, 8736 | 13  |
| 1925 | Surface decoration of WO3 architectures with Fe2O3 nanoparticles for visible-light-driven photocatalysis. <b>2014</b> , 16, 3289  | 63  |

| 1924 | High pressure synthesis, structure, and multiferroic properties of two perovskite compounds Y2FeMnO6 and Y2CrMnO6. <b>2014</b> , 43, 1691-8   | 35  |
|------|---|-----|
| 1923 | Ordered Hierarchically Micro- and Mesoporous Fellx-Embedded Graphitic Architectures as Efficient Electrocatalysts for Oxygen Reduction Reaction. <b>2014</b> , 4, 1793-1800   | 197 |
| 1922 | An investigation of reaction parameters on geochemical storage of non-pure CO 2 streams in iron oxide-bearing formations. <b>2014</b> , 128, 402-411  | 2   |
| 1921 | Synthesis of nanostructured chitinBematite composites under extreme biomimetic conditions. <b>2014</b> , 4, 61743-61752   | 49  |
| 1920 | Strong dependence of surface plasmon resonance and surface enhanced Raman scattering on the composition of Au-Fe nanoalloys. <b>2014</b> , 6, 1423-33   | 79  |
| 1919 | Crystal chemistry and surface configurations of two polylithionite-1M crystals. <b>2014</b> , 99, 2049-2059   | 4   |
| 1918 | Boron-doped carbon-iron nanocomposites as efficient oxygen reduction electrocatalysts derived from carbon dioxide. <b>2014</b> , 50, 6349-52  | 36  |
| 1917 | Effect of iron loading on the photocatalytic performance of Bi2WO6 photocatalyst. <b>2014</b> , 76, 362-375   | 29  |
| 1916 | Distinguishing homogeneous from nanoparticle asymmetric iron catalysis. <b>2014</b> , 4, 3426-3438  | 59  |
| 1915 | Surface treatment with Al3+on a Ti-doped Fe2O3 nanorod array photoanode for efficient photoelectrochemical water splitting. <b>2014</b> , 2, 13705  | 78  |
| 1914 | Light alkane oxidation using catalysts prepared by chemical vapour impregnation: tuning alcohol selectivity through catalyst pre-treatment. <b>2014</b> , 5, 3603-3616  | 39  |
| 1913 | Synthesis of partially graphitic nanoflake-like carbon/Fe3O4 magnetic composites from chitosan as high-performance electrode materials in supercapacitors. <b>2014</b> , 4, 39625-39633   | 17  |
| 1912 | Effect of heat treatment in air on surface composition of iron-phosphate based soft magnetic composite components. <b>2014</b> , 189, 90-99   | 21  |
| 1911 | Surface modification of Fe 2 O 3 nanoparticles with 3-aminopropyltrimethoxysilane (APTMS): An attempt to investigate surface treatment on surface chemistry and mechanical properties of polyurethane/Fe 2 O 3 nanocomposites. <b>2014</b> , 320, 60-72 | 69  |
| 1910 | Effective Composite Preparation between Graphite and Iron Particles by the Interfacial Mediation of Force-Activated Oxygen Atoms. <b>2014</b> , 53, 16736-16753   | 5   |
| 1909 | A FeClEgraphite sandwich composite with Cl doping in graphite layers: a new anode material for high-performance Li-ion batteries. <b>2014</b> , 6, 14174-9  | 30  |
| 1908 | Controlled electrochemical synthesis of new rare earth metal lutetium hexacyanoferrate on reduced graphene oxide and its application as a salicylic acid sensor. <b>2014</b> , 2, 7515-7523   | 10  |
| 1907 | Probing the effect of aqueous impurities on the leaching of chalcopyrite under controlled conditions. <b>2014</b> , 149, 195-209  | 15  |

| 1906                         | Catalytic efficiency of iron oxides in decomposition of H2O2 for simultaneous NOX and SO2 removal: Effect of calcination temperature. <b>2014</b> , 393, 222-231   | 49                   |
|------------------------------|--|----------------------|
| 1905                         | Synthesis of BiFeo 3 nanoparticles for the visible-light induced photocatalytic property. <b>2014</b> , 59, 6-12   | 91                   |
| 1904                         | Chemical synthesis of Fe3O4graphene oxide nanohybrids as building blocks for magnetic and conductive membranes. <b>2014</b> , 189, 13-20   | 27                   |
| 1903                         | Supercapacitor performance of vertically aligned multiwall carbon nanotubes produced by aerosol-assisted CCVD method. <b>2014</b> , 139, 165-172   | 37                   |
| 1902                         | Ionothermal synthesis of cobalt iron layered double hydroxides (LDHs) with expanded interlayer spacing as advanced electrochemical materials. <b>2014</b> , 2, 17066-17076   | 71                   |
| 1901                         | Removal of trace mercury(II) from aqueous solution by in situ formed Mn-Fe (hydr)oxides. <b>2014</b> , 280, 71-8   | 64                   |
| 1900                         | Yolk-shell Fe(0)@SiO2 nanoparticles as nanoreactors for fenton-like catalytic reaction. <b>2014</b> , 6, 13167-73  | 80                   |
| 1899                         | Oxidation of Magnetite(100) to Hematite Observed by in Situ Spectroscopy and Microscopy. <b>2014</b> , 118, 19768-19777  | 34                   |
| 1898                         | Synthesis and characterization of titania nanorods from ilmenite for photocatalytic annihilation of E. coli. <b>2014</b> , 140, 69-78  | 10                   |
| 1897                         | Large Verdet constant in the Th implanted command to 2.0.2 films 2014, E71, 45 FO  |                      |
| 1097                         | Large Verdet constant in the Tb implanted gamma-Fe 2 O 3 films. <b>2014</b> , 571, 45-50   | 2                    |
| 1896                         | Iron pyrite thin film counter electrodes for dye-sensitized solar cells: high efficiency for iodine and cobalt redox electrolyte cells. <b>2014</b> , 8, 10597-605   | 127                  |
| 1896                         | Iron pyrite thin film counter electrodes for dye-sensitized solar cells: high efficiency for iodine and  |                      |
| 1896                         | Iron pyrite thin film counter electrodes for dye-sensitized solar cells: high efficiency for iodine and cobalt redox electrolyte cells. <b>2014</b> , 8, 10597-605   | 127                  |
| 1896<br>1895                 | Iron pyrite thin film counter electrodes for dye-sensitized solar cells: high efficiency for iodine and cobalt redox electrolyte cells. <b>2014</b> , 8, 10597-605  Solgel processing and electrochemical characterization of monoclinic Li3FeF6. <b>2014</b> , 71, 50-59  Study on growth mechanisms and electronic structures of polar NiO(111) ultrathin films using iron   | 127                  |
| 1896<br>1895<br>1894         | Iron pyrite thin film counter electrodes for dye-sensitized solar cells: high efficiency for iodine and cobalt redox electrolyte cells. <b>2014</b> , 8, 10597-605  Solgel processing and electrochemical characterization of monoclinic Li3FeF6. <b>2014</b> , 71, 50-59  Study on growth mechanisms and electronic structures of polar NiO(111) ultrathin films using iron oxide buffer layers. <b>2014</b> , 598, 224-229  Selective synthesis of single-walled carbon nanotubes on FeMgO catalyst by chemical vapor  | 127<br>12<br>6       |
| 1896<br>1895<br>1894<br>1893 | Iron pyrite thin film counter electrodes for dye-sensitized solar cells: high efficiency for iodine and cobalt redox electrolyte cells. 2014, 8, 10597-605  Solgel processing and electrochemical characterization of monoclinic Li3FeF6. 2014, 71, 50-59  Study on growth mechanisms and electronic structures of polar NiO(111) ultrathin films using iron oxide buffer layers. 2014, 598, 224-229  Selective synthesis of single-walled carbon nanotubes on FeMgO catalyst by chemical vapor deposition of methane. 2014, 41, 84-93  Preparation and characterization of magnetic-core titanium dioxide: Implications for photocatalytic  | 127<br>12<br>6       |
| 1896<br>1895<br>1894<br>1893 | Iron pyrite thin film counter electrodes for dye-sensitized solar cells: high efficiency for iodine and cobalt redox electrolyte cells. 2014, 8, 10597-605  Soligel processing and electrochemical characterization of monoclinic Li3FeF6. 2014, 71, 50-59  Study on growth mechanisms and electronic structures of polar NiO(111) ultrathin films using iron oxide buffer layers. 2014, 598, 224-229  Selective synthesis of single-walled carbon nanotubes on FeMgO catalyst by chemical vapor deposition of methane. 2014, 41, 84-93  Preparation and characterization of magnetic-core titanium dioxide: Implications for photocatalytic removal of ibuprofen. 2014, 390, 178-186  Designed synthesis of TiO2-modified iron oxides on/among carbon nanotubes as a superior | 127<br>12<br>6<br>16 |

#### (2015-2014)

| 1888 | Effects of Transition Metal Substitution on the Thermoelectric Properties of Metallic (BiS)1.2(TiS2)2 Misfit Layer Sulfide. <b>2014</b> , 43, 1870-1874        | 16  |
|------|--|-----|
| 1887 | Effect of high energy milling on the synthesis temperature, magnetic and electrical properties of barium hexagonal ferrite. <b>2014</b> , 358-359, 82-86       | 38  |
| 1886 | Synthesis and Characterization of Magnetite/Polyvinyl Alcohol CoreBhell Composite Nanoparticles. <b>2014</b> , 97, 3208-3215                                   | 21  |
| 1885 | One-step green synthesis of arginine-capped iron oxide/reduced graphene oxide nanocomposite and its use for acid dye removal. <b>2014</b> , 4, 29357-29364     | 31  |
| 1884 | Synthesis, structural, morphological, compositional and electrical transport properties of polyaniline/Fe2O3 hybrid nanocomposites. <b>2014</b> , 195, 350-358 | 23  |
| 1883 | Zircon mineral solids concentrated from Athabasca oil sands froth treatment tailings: Surface chemistry and flotation properties. <b>2014</b> , 65, 79-87      | 7   |
| 1882 | Magnetically Decorated Multi-Walled Carbon Nanotubes as Dual MRI and SPECT Contrast Agents. <b>2014</b> , 24, 1880-1894  | 62  |
| 1881 | Promotion Effects of Nitrogen Doping into Carbon Nanotubes on Supported Iron Fischer Tropsch Catalysts for Lower Olefins. <b>2014</b> , 4, 613-621             | 178 |
| 1880 | The influence of nitrogen concentration on microstructure and ultra-low friction behaviour of Feßl thin films. <b>2014</b> , 74, 62-71                         | 14  |
| 1879 | Scanning photoelectron microscopy studies of freshly fractured chalcopyrite exposed to O2 and H2O. <b>2014</b> , 133, 372-386                                  | 28  |
| 1878 | Catalytic oxidation of 1,2-dichlorobenzene over Ca-doped FeOx hollow microspheres. <b>2014</b> , 147, 666-676  | 69  |
| 1877 | Photoemission study of metallic iron nanoparticles surface aging in biological fluids. Influence on biomolecules adsorption. <b>2014</b> , 307, 272-279        | 4   |
| 1876 | Liquid-phase catalytic hydroxylation of phenol using metal crosslinked alginate catalysts with hydrogen peroxide as an oxidant. <b>2014</b> , 391, 66-73       | 16  |
| 1875 | Mechanism study of morphological evolution of Cu2FeSnSe4 nanoparticles synthesized with solvothermal method. <b>2014</b> , 604, 15-21                          | 10  |
| 1874 | General Introduction. <b>2014</b> , 24-31  |     |
| 1873 | Room Temperature Hydrogen Physisorption on Exposed Metals in A Highly Cross-Linked Organo-Iron Complex. <b>2014</b> , 1, 1400107                               | 9   |
| 1872 | The MIL-88A-Derived Fe3O4-Carbon Hierarchical Nanocomposites for Electrochemical Sensing. <b>2015</b> , 5, 14341   | 64  |
| 1871 | Silicate Covering Layer on Pyrite Surface in the Presence of Silicon–Catechol Complex for Acid Mine Drainage Prevention. <b>2015</b> , 56, 1733-1741           | 16  |

| 1870 | Synthesis of Mesoporous Fe?N/C Materials with High Catalytic Performance in the Oxygen Reduction Reaction. <b>2015</b> , 7, 2937-2944   | 18  |
|------|---|-----|
| 1869 | Selective Formation of Hgg Iron Carbide with g-C3N4 as a Sacrificial Support for Highly Active Fischer Tropsch Synthesis. <b>2015</b> , 7, 3488-3494  | 36  |
| 1868 | A Flexible Electrode Based on Iron Phosphide Nanotubes for Overall Water Splitting. <b>2015</b> , 21, 18062-7   | 198 |
| 1867 | Oxidized Mild Steel S235: An Efficient Anode for Electrocatalytically Initiated Water Splitting. <b>2015</b> , 8, 3099-110  | 42  |
| 1866 | Introduction of a Fe3O4 Core Enhances the Photocatalytic Activity of MIL-100(Fe) with Tunable Shell Thickness in the Presence of H2O2. <b>2015</b> , 7, 4148-4155                                 | 71  |
| 1865 | X-ray photoelectron spectra of some Ni mono- and polynuclear complexes. <b>2015</b> , 170, 218-228  | 1   |
| 1864 | Near-infrared-driven decomposition of metal precursors yields amorphous electrocatalytic films. <b>2015</b> , 1, e1400215   | 38  |
| 1863 | Gold deposition on magnetic porous composites synthesized from modified wood sawdust at different temperatures. <b>2015</b> , 49, 869-878   | 1   |
| 1862 | Porous AgEe2O3 nanocomposite catalysts for the oxidation of carbon monoxide. <b>2015</b> , 505, 431-440   | 31  |
| 1861 | On the dodecahedral site substituted Lu3Fe5O12 ceramics for room temperature magneto-dielectric applications. <b>2015</b> , 155, 8-10   | 5   |
| 1860 | Novel solgel based selective coatings: From coil absorber coating to high power coating. <b>2015</b> , 140, 232-248   | 11  |
| 1859 | Versatility of electrospinning in the fabrication of fibrous mat and mesh nanostructures of bismuth ferrite (BiFeO3) and their magnetic and photocatalytic activities. <b>2015</b> , 17, 17745-54 | 55  |
| 1858 | Stainless steel made to rust: a robust water-splitting catalyst with benchmark characteristics. <b>2015</b> , 8, 2685-2697  | 140 |
| 1857 | Spinel type CoFe oxide porous nanosheets as magnetic adsorbents with fast removal ability and facile separation. <b>2015</b> , 454, 134-43  | 25  |
| 1856 | Catalytic Oxidation of Propene over Pd Catalysts Supported on CeO2, TiO2, Al2O3 and M/Al2O3 Oxides (M = Ce, Ti, Fe, Mn). <b>2015</b> , 5, 671-689   | 50  |
| 1855 | Biogenic nano-magnetite and nano-zero valent iron treatment of alkaline Cr(VI) leachate and chromite ore processing residue. <b>2015</b> , 54, 27-42  | 60  |
| 1854 | Influence of Al substitution on magnetism and adsorption properties of hematite. 2015, 228, 82-89   | 8   |
| 1853 | Smart MoS2/Fe3O4 Nanotheranostic for Magnetically Targeted Photothermal Therapy Guided by Magnetic Resonance/Photoacoustic Imaging. <b>2015</b> , 5, 931-45                                       | 196 |

| 1852 | Iron 1s X-ray photoemission of Fe2O3. <b>2015</b> , 203, 8-13  | 16  |
|------|--|-----|
| 1851 | Hierarchical heteroaggregation of binary metal-organic gels with tunable porosity and mixed valence metal sites for removal of dyes in water. <b>2015</b> , 5, 10556                 | 67  |
| 1850 | Nanoring Arrays on Fe Coated Substrate: Formation and Guidance for the Growth of Hierarchical CNTs. <b>2015</b> , 31, 13327-33   |     |
| 1849 | Enhancing the magnetic anisotropy of maghemite nanoparticles via the surface coordination of molecular complexes. <b>2015</b> , 6, 10139   | 29  |
| 1848 | Development of ionic-sensor based on sono-chemically prepared low-dimensional Fe2O3 nanoparticles onto flat-gold electrodes by an electrochemical approach. <b>2015</b> , 4, 109-117 | 18  |
| 1847 | Dissolution and oriented aggregation: transformation from lepidorocite to goethite by the catalysis of aqueous Fe(II). <b>2015</b> , 5, 106396-106399                                | 9   |
| 1846 | Synthesis and characterization of #Fe2O3 Micro-/Nanorods-modified glassy carbon electrode for electrochemical sensing of nitrobenzene. <b>2015</b> , 41, 5568-5573                   | 29  |
| 1845 | Morphology of the asymmetric ironBilicon interfaces. <b>2015</b> , 627, 136-145  | 5   |
| 1844 | High-intensity ultrasonication as a way to prepare graphene/amorphous iron oxyhydroxide hybrid electrode with high capacity in lithium battery. <b>2015</b> , 24, 238-46             | 12  |
| 1843 | Formation, morphology and composition of F🏿 and Cl 🖧 tabilized iron Ebxyhydroxides. 2015, 170, 1-9   | 9   |
| 1842 | Application of Fe3O4/graphene oxide composite for the separation of Cs(I) and Sr(II) from aqueous solution. <b>2015</b> , 303, 807-813   | 30  |
| 1841 | Effective treatment of alkaline Cr(VI) contaminated leachate using a novel Pd-bionanocatalyst: Impact of electron donor and aqueous geochemistry. <b>2015</b> , 170-171, 162-172     | 31  |
| 1840 | SILAR-Deposited Hematite Films for Photoelectrochemical Water Splitting: Effects of Sn, Ti, Thickness, and Nanostructuring. <b>2015</b> , 119, 4454-4465                             | 31  |
| 1839 | Efficient degradation of high concentration azo-dye wastewater by heterogeneous Fenton process with iron-based metal-organic framework. <b>2015</b> , 400, 81-89                     | 240 |
| 1838 | The preparation of Fe/wood-based activated carbon catalyst for phenol hydroxylation from Fe2+ and Fe3+ precursors. <b>2015</b> , 5, 2486-2495  | 12  |
| 1837 | Self-standing non-noble metal (NiHe) oxide nanotube array anode catalysts with synergistic reactivity for high-performance water oxidation. <b>2015</b> , 3, 7179-7186               | 81  |
| 1836 | Reduction of Cu-Promoted Fe Model Catalysts Studied by In Situ Indirect Nanoplasmonic Sensing and X-ray Photoelectron Spectroscopy. <b>2015</b> , 119, 4085-4094                     | 16  |
| 1835 | Growth of Ultrathin Iron Oxide Films on Ag(100). <b>2015</b> , 119, 2572-2582  | 28  |

| 1834 | A Facile Solvothermal Synthesis of Octahedral Fe3 O4 Nanoparticles. <b>2015</b> , 11, 2649-53  | 41  |
|------|--|-----|
| 1833 | Influence of iron state and acidity of zeolites on the catalytic activity of FeHBEA, FeHZSM-5 and FeHMOR in SCR of NO with NH 3 and N 2 O decomposition. <b>2015</b> , 203, 73-85  | 77  |
| 1832 | Activation of Ultrathin Films of Hematite for Photoelectrochemical Water Splitting via H2 Treatment. <b>2015</b> , 8, 1557-67  | 41  |
| 1831 | A simple route to CoFe2O4 nanoparticles with shape and size control and their tunable peroxidase-like activity. <b>2015</b> , 5, 10632-10640   | 49  |
| 1830 | Structural and magnetic properties of tetragonal perovskite BaFe1⊠BixO3□ <b>2015</b> , 5, 12866-12871  | 8   |
| 1829 | Iron oxide nanorods as high-performance magnetic resonance imaging contrast agents. <b>2015</b> , 7, 9174-84   | 158 |
| 1828 | Fast and simple preparation of iron-based thin films as highly efficient water-oxidation catalysts in neutral aqueous solution. <b>2015</b> , 54, 4870-5   | 233 |
| 1827 | Controlling hydrazine reduction to deposit iron oxides on oxidized activated carbon for supercapacitor application. <b>2015</b> , 86, 292-299  | 28  |
| 1826 | Observation of direct magneto-dielectric behaviour in Lu3Fe5O12-labove room-temperature. <b>2015</b> , 17, 17688-98  | 11  |
| 1825 | Evolution of iron nanoparticles by controlling oxidation states for carbon nanotubes growth. <b>2015</b> , 162, 509-517  | 1   |
| 1824 | Fabrication of CeO2/Fe2O3 composite nanospindles for enhanced visible light driven photocatalysts and supercapacitor electrodes. <b>2015</b> , 3, 15248-15258  | 148 |
| 1823 | Nanocrystalline gallium ferrite: A novel material for sensing very low concentration of alcohol vapour. <b>2015</b> , 41, 10110-10115  | 8   |
| 1822 | Electronic-State Changes of Ferrocene-Terminated Self-Assembled Monolayers Induced by Molecularly Thin Ionic Liquid Layers: A Combined Atomic Force Microscopy, X-ray Photoelectron Spectroscopy, and Ultraviolet Photoelectron Spectroscopy Study. <b>2015</b> , 119, 18467-18480 | 13  |
| 1821 | Fe@Ag nanoparticles decorated reduced graphene oxide as ultrahigh capacity anode material for lithium-ion battery. <b>2015</b> , 21, 3185-3192   | 59  |
| 1820 | Synthesis of Pt/BiFeO3 heterostructured photocatalysts for highly efficient visible-light photocatalytic performances. <b>2015</b> , 143, 386-396  | 98  |
| 1819 | Photoassisted hetero-Fenton degradation mechanism of Acid Blue 74 by a Fe2O3 catalyst. <b>2015</b> , 5, 66231-66238  | 17  |
| 1818 | Hydrothermal synthesis of Fe 2 O 3 /polypyrrole/graphene oxide composites as highly efficient electrocatalysts for oxygen reduction reaction in alkaline electrolyte. <b>2015</b> , 178, 179-189   | 48  |
| 1817 | Peculiarities of heating-induced transformations in Fe(III) Ebxyhydroxides. <b>2015</b> , 173, 55-62   | 2   |

#### (2015-2015)

| 1816 | Facile synthesis of Fe-incorporated CuO nanoarrays with enhanced electrochemical performance for lithium ion full batteries. <b>2015</b> , 649, 899-905                                       | 12   |
|------|---|------|
| 1815 | Control of the nanostructure in percolative multiferroic composites on the dielectric loss and magnetism threshold. <b>2015</b> , 3, 9076-9088  | 15   |
| 1814 | XPS Study of Surface Layer Formed on AISI 316L after High-Current Density Electropolishing. <b>2015</b> , 227, 155-158  | 6    |
| 1813 | Cation exchange mediated elimination of the Fe-antisites in the hydrothermal synthesis of LiFePO4. <b>2015</b> , 16, 256-267  | 40   |
| 1812 | Searching for suitable catalysts for a passive direct methanol fuel cell cathode. <b>2015</b> , 40, 14632-14639   | 6    |
| 1811 | Effects of pH Value, Reaction Time, and Filling Pressure on the Hydrothermal Synthesis of ZnFe2O4 Nanoparticles. <b>2015</b> , 51, 1-4  | 4    |
| 1810 | Friction and wear reductions under slip-rolling contact through chemically reactive tribofilm generation during pre-conditioning of steel alloys. <b>2015</b> , 338-339, 133-143              | 7    |
| 1809 | Photoelectrochemical cell studies of Fe(2+) doped ZnSe nanorods using the potentiostatic mode of electrodeposition. <b>2015</b> , 458, 136-46   | 35   |
| 1808 | Bioaccessibility of micron-sized powder particles of molybdenum metal, iron metal, molybdenum oxides and ferromolybdenumImportance of surface oxides. <b>2015</b> , 72, 447-57                | 14   |
| 1807 | Tuning the composition and magnetostructure of dysprosium iron garnets by Co-substitution: An XRD, FT-IR, XPS and VSM study. <b>2015</b> , 351, 1016-1024                                     | 69   |
| 1806 | Promotion of Nb2O5 on the wustite-based iron catalyst for ammonia synthesis. <b>2015</b> , 353, 17-23   | 18   |
| 1805 | Photoelectrochemical properties and photodegradation of organic pollutants using hematite hybrids modified by gold nanoparticles and graphitic carbon nitride. <b>2015</b> , 176-177, 654-666 | 103  |
| 1804 | Reversible Li-Intercalation through Oxygen Reactivity in Li-Rich Li-Fe-Te Oxide Materials. <b>2015</b> , 162, A1341-A1  | 3561 |
| 1803 | Fluorine-doped porous carbon-decorated Fe3O4-FeF2 composite versus LiNi0.5Mn1.5O4 towards a full battery with robust capability. <b>2015</b> , 169, 291-299                                   | 30   |
| 1802 | The influence of calcium, sodium and bicarbonate on the uptake of uranium onto nanoscale zero-valent iron particles. <b>2015</b> , 277, 252-259   | 23   |
| 1801 | Au nanoparticles supported on magnetically separable Fe2O3graphene oxide hybrid nanosheets for the catalytic reduction of 4-nitrophenol. <b>2015</b> , 5, 7554-7558                           | 22   |
| 1800 | The stability of Co3O4, Fe2O3, Au/Co3O4 and Au/Fe2O3 catalysts in the catalytic combustion of lean methane mixtures in the presence of water. <b>2015</b> , 258, 276-283                      | 29   |
| 1799 | Hierarchically-organized, well-dispersed hydroxyapatite-coated magnetic carbon with combined organics and inorganics removal properties. <b>2015</b> , 275, 152-159                           | 16   |

| 1798 | Phase control of iron oxides grown in nano-scale structures on FTO and Si(100): Hematite, maghemite and magnetite. <b>2015</b> , 117, 85-90  | 7   |
|------|--|-----|
| 1797 | Investigation of SEI Layer Formation in Conversion Iron Fluoride Cathodes by Combined STEM/EELS and XPS. <b>2015</b> , 119, 9762-9773  | 75  |
| 1796 | Ammonia sensing properties of polyaniline/⊞e2O3 hybrid nanocomposites. <b>2015</b> , 204, 1-9  | 40  |
| 1795 | The mechanism for degrading Orange II based on adsorption and reduction by ion-based nanoparticles synthesized by grape leaf extract. <b>2015</b> , 296, 37-45                               | 53  |
| 1794 | Hydrotalcite type materials as catalyst precursors for the Catalytic Steam Cracking of toluene. <b>2015</b> , 154, 71-79   | 18  |
| 1793 | Atomic oxygen exposure behaviors of CVD-grown carbon nanotube film and its polymer composite film. <b>2015</b> , 71, 116-125   | 18  |
| 1792 | Scalable synthesis of bi-functional high-performance carbon nanotube sponge catalysts and electrodes with optimum CNE coordination for oxygen reduction reaction. <b>2015</b> , 8, 1799-1807 | 122 |
| 1791 | The solid state conversion reaction of epitaxial FeF2(110) thin films with lithium studied by angle-resolved X-ray photoelectron spectroscopy. <b>2015</b> , 17, 15218-25                    | 12  |
| 1790 | Synthesis and characterization of magnetite/silver/antibiotic nanocomposites for targeted antimicrobial therapy. <b>2015</b> , 55, 343-59  | 29  |
| 1789 | Solgel synthesis of copper(II) and titanium(IV) ions co-doped barium ferrite submicrometer crystals and their microwave absorption performance. <b>2015</b> , 26, 5310-5317                  | 5   |
| 1788 | The stability and surface termination of hexagonal LuFeO3. <b>2015</b> , 27, 175004  | 8   |
| 1787 | Surface Oxidation of Stainless Steel: Oxygen Evolution Electrocatalysts with High Catalytic Activity. <b>2015</b> , 5, 2671-2680   | 114 |
| 1786 | Phase diagram of a three-dimensional antiferromagnet with random magnetic anisotropy. <b>2015</b> , 114, 097201  | 3   |
| 1785 | Insight into bio-metal interface formation in vacuo: interplay of S-layer protein with copper and iron. <b>2015</b> , 5, 8710  | 14  |
| 1784 | Fast and Simple Preparation of Iron-Based Thin Films as Highly Efficient Water-Oxidation Catalysts in Neutral Aqueous Solution. <b>2015</b> , 127, 4952-4957                                 | 45  |
| 1783 | Up-Scaled Microspherical Aggregates of LiFe0.4V0.4PO4/C Nanocomposites as Cathode Materials for High-Rate Li-Ion Batteries. <b>2015</b> , 3, 496-502   | 5   |
| 1782 | XPS and FTIR spectroscopic study on microwave treated high phosphorus iron ore. <b>2015</b> , 345, 127-140   | 97  |
| 1781 | Extremely high-rate capacity and stable cycling of a highly ordered nanostructured carbon <b>E</b> eF2 battery cathode. <b>2015</b> , 3, 22377-22384   | 30  |

#### (2015-2015)

| 1780 | The effect of A-site and B-site substitution on BaFeO3EAn investigation as a cathode material for intermediate-temperature solid oxide fuel cells. <b>2015</b> , 297, 511-518        | 77  |
|------|--|-----|
| 1779 | High capacity hydrogen storage at room temperature via physisorption in a coordinatively unsaturated iron complex. <b>2015</b> , 40, 16330-16337                                     | 9   |
| 1778 | Shape-control by microwave-assisted hydrothermal method for the synthesis of magnetite nanoparticles using organic additives. <b>2015</b> , 17, 1                                    | 28  |
| 1777 | In vitro toxicity evaluation of ultra-small MFe2O4 (M = Fe, Mn, Co) nanoparticles using A549 cells. <b>2015</b> , 5, 68454-68460   | 8   |
| 1776 | Effect of transition metal salts on the initiated chemical vapor deposition of polymer thin films. <b>2015</b> , 33, 031504  | 9   |
| 1775 | Photoinduced reduction of surface states in Fe:ZnO. <b>2015</b> , 142, 204703  | 3   |
| 1774 | Studies of properties of Fe2+ doped ZnSe nano-needles for photoelectrochemical cell application. <b>2015</b> , 26, 8904-8914   | 19  |
| 1773 | Highly Photocatalytically Active Iron(III) Titanium Oxide Thin films via Aerosol-Assisted CVD. <b>2015</b> , 21, 21-25   | 7   |
| 1772 | XPS depth profiling analysis of passive surface layers formed on austenitic AISI 304L and AISI 316L SS after high-current-density electropolishing. <b>2015</b> , 276, 516-520       | 39  |
| 1771 | Electrochemical and passivation behavior investigation of ferritic stainless steel in simulated concrete pore media. <b>2015</b> , 5, 171-8  | 11  |
| 1770 | Processes of Removing Zinc from Water using Zero-Valent Iron. <b>2015</b> , 226, 360   | 17  |
| 1769 | 1,10-phenanthroline metal complex covalently bonding to poly- (pyrrole-3-carboxylic acid)-coated carbon: An efficient electrocatalyst for oxygen reduction. <b>2015</b> , 180, 86-95 | 22  |
| 1768 | Multi-functional biomimetic graphene induced transformation of Fe3O4 to Fe2O3 at room temperature. <b>2015</b> , 5, 89488-89497  | 11  |
| 1767 | Preparation of amino-Fe(III) functionalized mesoporous silica for synergistic adsorption of tetracycline and copper. <b>2015</b> , 138, 625-32                                       | 114 |
| 1766 | The effect of O 2 content on the corrosion behaviour of X65 and 5Cr in water-containing supercritical CO 2 environments. <b>2015</b> , 356, 499-511                                  | 50  |
| 1765 | Enhanced rate performance of LiFePO 4 /C by co-doping titanium and vanadium. <b>2015</b> , 48, 104-111   | 12  |
| 1764 | Studies of properties of Fe3+ doped ZnSe nanoparticles and hollow spheres for photoelectrochemical cell application. <b>2015</b> , 653, 22-31  | 17  |
| 1763 | Effect of support on acetic acid decomposition over palladium catalysts. <b>2015</b> , 331, 63-75  | 20  |

| 1762 | Highly active sustainable ferrocenated iron oxide nanocatalysts for the decolorization of methylene blue. <b>2015</b> , 5, 31324-31328   | 9  |
|------|--|----|
| 1761 | Formation mechanism of a series of trigonal antiprismatic jarosite-type compounds. <b>2015</b> , 429, 49-55  | 10 |
| 1760 | Activity of Au/Fe2O3IIiO2 catalyst for preferential CO oxidation. <b>2015</b> , 40, 13443-13455  | 28 |
| 1759 | Magnetic memory in nanocrystalline ⊞e2O3 embedded in reduced graphene oxide. <b>2015</b> , 5, 81260-81265  | 13 |
| 1758 | Structural-controlled chemical synthesis of nanosized amorphous Fe particles and their improved performances. <b>2015</b> , 651, 551-556   | 18 |
| 1757 | Switchable Alkene Epoxidation/Oxidative Cleavage with H2O2/NaHCO3: Efficient Heterogeneous Catalysis Derived from Biosourced Eco-Mn. <b>2015</b> , 3, 2704-2715  | 45 |
| 1756 | Laser generation of iron-doped silver nanotruffles with magnetic and plasmonic properties. <b>2015</b> , 8, 4007-4023  | 49 |
| 1755 | Synthesis and characterization of a CaFe2O4 catalyst for oleic acid esterification. <b>2015</b> , 5, 100362-100368   | 19 |
| 1754 | Self-organized single crystal mixed magnetite/cobalt ferrite films grown by infrared pulsed-laser deposition. <b>2015</b> , 359, 480-485   | 9  |
| 1753 | Facile synthesis of porous Fe2TiO5 microparticulates serving as anode material with enhanced electrochemical performances. <b>2015</b> , 5, 103767-103775  | 26 |
| 1752 | FeDINanocrystalline Microspheres with Hybrid Behavior of Battery-Supercapacitor for Superior Lithium Storage. <b>2015</b> , 7, 26284-90  | 48 |
| 1751 | Structure and catalytic activities of ferrous centers confined on the interface between carbon nanotubes and humic acid. <b>2015</b> , 7, 2651-8   | 5  |
| 1750 | Magnetically separable reactive sorbent based on the CeO2/Fe2O3 composite and its utilization for rapid degradation of the organophosphate pesticide parathion methyl and certain nerve agents. <b>2015</b> , 262, 747-755 | 38 |
| 1749 | Magnetically Separable Microporous Fe <b>P</b> orphyrin Networks for Catalytic Carbene Insertion into Nℍ Bonds. <b>2015</b> , 5, 350-355   | 62 |
| 1748 | Exploring structural and magnetic properties of nanocrystalline iron oxide synthesized by autocombustion method. <b>2015</b> , 77, 181-195   | 20 |
| 1747 | Reductive immobilization of uranium by PAAMEeS/Fe3O4 magnetic composites. <b>2015</b> , 1, 169-176   | 33 |
| 1746 | Spectroscopic characterization of iron ores formed in different geological environments using FTIR, XPS, MBsbauer spectroscopy and thermoanalyses. <b>2015</b> , 136 Pt C, 1816-26   | 67 |
| 1745 | A facile electrochemical approach for the deposition of ironthanganese phosphate composite coatings on aluminium. <b>2015</b> , 5, 988-1008  | 15 |

## (2016-2015)

| 1744 | Magnetic properties of Co $1$ Zn x Fe 2 O 4 spinel ferrite nanoparticles synthesized by starch-assisted sol $\overline{g}$ el autocombustion method and its ball milling. <b>2015</b> , 378, 190-199  | 94  |
|------|---|-----|
| 1743 | FeN supported on graphitic carbon nano-networks grown from cobalt as oxygen reduction catalysts for low-temperature fuel cells. <b>2015</b> , 166-167, 75-83  | 62  |
| 1742 | Pitting Corrosion Behaviour of Boron Added Modified 9CraMo Steel: Combined Effects of Alkali and Chloride Ions. <b>2015</b> , 68, 129-141   | 4   |
| 1741 | Study of the structural phase transformation of iron oxide nanoparticles from an Fe2+ ion source by precipitation under various synthesis parameters and temperatures. <b>2015</b> , 149-150, 473-479 | 29  |
| 1740 | Development of iron modified MCM-41 as promising nano-composites with specific magnetic behavior. <b>2015</b> , 203, 106-115  | 42  |
| 1739 | Synthesis of p-type and n-type nickel ferrites and associated electrical properties. <b>2015</b> , 456, 232-236   | 27  |
| 1738 | Photocatalytic degradation of methyl orange by CeO2 and Fe-doped CeO2 films under visible light irradiation. <b>2014</b> , 4, 5757  | 254 |
| 1737 | Activity and stability of Au/CeO2He2O3 catalysts for the hydrogen production via oxidative steam reforming of methanol. <b>2015</b> , 22, 41-52   | 39  |
| 1736 | Nanoscale zero-valent iron particles for the remediation of plutonium and uranium contaminated solutions. <b>2015</b> , 262, 319-325  | 56  |
| 1735 | Granulation and ferric oxides loading enable biochar derived from cotton stalk to remove phosphate from water. <b>2015</b> , 178, 119-125   | 123 |
| 1734 | Surface Crystal Chemistry of Phyllosilicates Using X-Ray Photoelectron Spectroscopy: A Review. <b>2016</b> , 64, 537-551  | 25  |
| 1733 | Microwave synthesis of high-quality and uniform 4 nm ZnFeO nanocrystals for application in energy storage and nanomagnetics. <b>2016</b> , 7, 1350-1360   | 23  |
| 1732 | The Inhibition Effect of Sodium Glutarate towards Carbon Steel Corrosion in Neutral Aqueous Solutions. <b>2016</b> , 2016, 1-12   | 3   |
| 1731 | Properties of Manganese(III) Ferrocenyl-Diketonato Complexes Revealed by Charge Transfer and Multiplet Splitting in the Mn 2p and Fe 2p X-Ray Photoelectron Envelopes. <b>2016</b> , 21,              | 20  |
| 1730 | Spectroscopic Studies on Organic Matter from Triassic Reptile Bones, Upper Silesia, Poland. <b>2016</b> , 11, e0151143  | 20  |
| 1729 | Effect of Dissolved Oxygen and Immersion Time on the Corrosion Behaviour of Mild Steel in Bicarbonate/Chloride Solution. <b>2016</b> , 9,   | 7   |
| 1728 | FT-IR, XPS, and DFT Study of Adsorption Mechanism of Sodium Acetohydroxamate onto Goethite or Hematite. <b>2016</b> , 29, 308-318   | 6   |
| 1727 | Graphitic Mesoporous Carbon Loaded with Iron-Nickel Hydroxide for Superior Oxygen Evolution<br>Reactivity. <b>2016</b> , 9, 1835-42   | 26  |

| 1726 | Probing surface valence, magnetic property, and oxide ion diffusion pathway in B-site ordered perovskite-type Ba2Ca0.67M0.33NbO6[[M Mn, Fe, Co). <b>2016</b> , 290, 90-97                              | 7  |
|------|--|----|
| 1725 | Using Neutron Reflectometry to Discern the Structure of Fibrinogen Adsorption at the Stainless Steel/Aqueous Interface. <b>2016</b> , 120, 5405-16   | 5  |
| 1724 | Controlled Synthesis of Recyclable, Porous FMO/C@TiO Core-Shell Nanofibers with High Adsorption and Photocatalysis Properties for the Efficient Treatment of Dye Wastewater. <b>2016</b> , 81, 282-291 | 10 |
| 1723 | Photocatalytic activity of the binary composite CeO2/SiO2 for degradation of dye. <b>2016</b> , 387, 214-220   | 60 |
| 1722 | AC magnetic field regulated in-vivo switch of Hf-substituted magnetite (Hf Fe3D4, 0.01 Tk TD.8) nanoparticles. <b>2016</b> , 688, 219-227  | 13 |
| 1721 | The goldilocks electrolyte: examining the performance of iron/nickel oxide thin films as catalysts for electrochemical water splitting in various aqueous NaOH solutions. <b>2016</b> , 4, 11397-11407 | 39 |
| 1720 | Quantitative two-dimensional strain mapping of small coreBhell FePt@Fe3O4nanoparticles. <b>2016</b> , 18, 033016   | 4  |
| 1719 | Visible-light photocatalytic performances of TiO2 nanobelts decorated with iron oxide nanocrystals. <b>2016</b> , 6, 114843-114851   | 9  |
| 1718 | Optimization of the Process Parameters for the Synthesis of LiFe1MJMgxTiyPO4/C Cathode Material Using Response Surface Methodology. <b>2016</b> , 11, 1650122  | 5  |
| 1717 | Reductive Cyclization of Levulinic Acid to Evalerolactone over Non-Noble Bimetallic Nanocomposite. <b>2016</b> , 55, 13032-13039   | 22 |
| 1716 | The effect of oxygen implantation on the corrosion and electrochemical properties of iron. <b>2016</b> , 52, 1121-1127   | 2  |
| 1715 | Protection of low-carbon steel from corrosion in hydrochloric acid by 4-substituted 1,2,4-triazole. <b>2016</b> , 52, 1147-1152  |    |
| 1714 | Ft- Ir, XPS and Density Functional Theory Study of Adsorption Mechanism of Sodium Formate onto Goethite or Hematite. <b>2016</b> , 29-35   |    |
| 1713 | Optimisation of aqueous synthesis of iron oxide nanoparticles for biomedical applications. <b>2016</b> , 18, 1   | 13 |
| 1712 | Investigation and Manipulation of Different Analog Behaviors of Memristor as Electronic Synapse for Neuromorphic Applications. <b>2016</b> , 6, 22970  | 56 |
| 1711 | Iron oxide grown by low-temperature atomic layer deposition. <b>2016</b> , 33, 3516-3522   | 21 |
| 1710 | Electrochemical control of the phase transition of ultrathin FeRh films. 2016, 108, 202404   | 25 |
| 1709 | One-step synthesis of nitrogen-iron coordinated carbon nanotube catalysts for oxygen reduction reaction. <b>2016</b> , 313, 128-133  | 14 |

## (2016-2016)

| 1708 | Role of oxygen vacancies in deciding the high temperature magnetic properties of Ba and Sm substituted BiFeO3 ceramics. <b>2016</b> , 677, 252-257                         | 7   |
|------|--|-----|
| 1707 | In Situ Packaging FeFx into Sack-like Carbon Nanoreactors: A Smart Way To Make Soluble Fluorides<br>Applicable to Aqueous Batteries. <b>2016</b> , 8, 3874-82              | 18  |
| 1706 | Fe doping Pd/AC sorbent efficiently improving the Hg0 removal from the coal-derived fuel gas. <b>2016</b> , 182, 64-72   | 39  |
| 1705 | Tailoring the multiferroic behavior in BiFeO3 nanostructures by Pb doping. <b>2016</b> , 6, 57727-57738  | 38  |
| 1704 | Combined effect of gamma-radiation and pH on corrosion of Nitre alloy inconel 600. <b>2016</b> , 109, 1-12   | 7   |
| 1703 | Dysprosium doping induced shape and magnetic anisotropy of Fe3NDyxO4 (x=0.010.1) nanoparticles. <b>2016</b> , 414, 111-115   | 12  |
| 1702 | The role of nanoscale zerovalent iron particles in the biosorption and biodegradation of BDE-47 by Pseudomonas stutzeri under aerobic conditions. <b>2016</b> , 112, 51-58 | 10  |
| 1701 | Role of different plasma gases on the surface chemistry and wettability of RF plasma treated stainless steel. <b>2016</b> , 129, 63-73                                     | 20  |
| 1700 | Surface analysis of transition metal oxalates: Damage aspects. <b>2016</b> , 209, 66-77  | 27  |
| 1699 | Sulfidation behavior of ZnFe2O4 roasted with pyrite: Sulfur inducing and sulfur-oxygen interface exchange mechanism. <b>2016</b> , 371, 67-73                              | 32  |
| 1698 | Synthesis and electrochemical performance of TiBe co-doped LiMnPO4/C as cathode material for lithium-ion batteries. <b>2016</b> , 42, 11348-11354                          | 36  |
| 1697 | An investigation of the corrosion of polycrystalline iron by XPS, TMS and CEMS. <b>2016</b> , 491, 37-45   | 34  |
| 1696 | Photooxidation of benzyl alcohols and photodegradation of cationic dyes by Fe3O4@sulfur/reduced graphene oxide as catalyst. <b>2016</b> , 6, 41156-41164                   | 14  |
| 1695 | Brfisted acid ionic liquid: Electrochemical passivation behavior to mild steel. <b>2016</b> , 220, 63-70   | 8   |
| 1694 | Enhanced Dechlorination of 1,2-Dichloroethane by Coupled Nano Iron-Dithionite Treatment. <b>2016</b> , 50, 5243-51   | 63  |
| 1693 | Surface-induced spin state locking of the [Fe(H2B(pz)2)2(bipy)] spin crossover complex. <b>2016</b> , 28, 206002   | 42  |
| 1692 | A high-temperature flexible supercapacitor based on pseudocapacitive behavior of FeOOH in an ionic liquid electrolyte. <b>2016</b> , 4, 8316-8327                          | 105 |
| 1691 | Poly(glycidyl methacrylate)-functionalized magnetic nanoparticles as platforms for linking functionalities, bioentities and organocatalysts. <b>2016</b> , 6, 43330-43338  | 5   |

| 1690 | Synthesis of novel corelinell Fe0@Fe3O4 as heterogeneous activator of persulfate for oxidation of dibutyl phthalate under neutral conditions. <b>2016</b> , 301, 315-324     | 45  |
|------|--|-----|
| 1689 | Overcoming the Limiting Step of Fe2O3 Reduction via in Situ Sulfide Modification. <b>2016</b> , 8, 10334-42  | 23  |
| 1688 | Effect of Ga-substitution for Fe sites of delafossite CuFe1 $\square$ Ga x O2 (x = 0.0, 0.1, 0.3, 0.5) on thermal conductivity. <b>2016</b> , 27, 6438-6444                  | 8   |
| 1687 | Particle irradiation and electron work function: Fe single crystal bombarded with Ar+ ions. <b>2016</b> , 124, 38-40   | 4   |
| 1686 | Iron oxide surfaces. <b>2016</b> , 71, 272-365   | 329 |
| 1685 | Effect of Molybdate on the Passivation of Carbon Steel in Alkaline Solutions under Open-Circuit Conditions. <b>2016</b> , 163, C649-C658                                     | 21  |
| 1684 | Evolution of the insulation matrix and influences on the magnetic performance of Fe soft magnetic composites during annealing. <b>2016</b> , 685, 231-236                    | 48  |
| 1683 | Removal of multi-dye wastewater by the novel integrated adsorption and Fenton oxidation process in a fluidized bed reactor. <b>2016</b> , 23, 20893-20903                    | 13  |
| 1682 | The Role of Iron-Bearing Minerals in NO2 to HONO Conversion on Soil Surfaces. <b>2016</b> , 50, 8649-60  | 30  |
| 1681 | Direct catalytic decomposition of nitrous oxide gas over rhodium supported on lanthanum silicate. <b>2016</b> , 87, 53-56  | 6   |
| 1680 | Magnetic fluidsIstability improved by oleic acid bilayer-coated structure via one-pot synthesis. <b>2016</b> , 70,   | 8   |
| 1679 | XPS Fe 2p peaks from iron tris(⊞iketonates): Electronic effect of the ⊞iketonato ligand. <b>2016</b> , 119, 142-150  | 30  |
| 1678 | One-Pot Microwave-Assisted Synthesis of Reduced Graphene Oxide/Iron Oxide Nanocomposite Catalyst for the Oxygen Reduction Reaction. <b>2016</b> , 1, 3640-3646               | 17  |
| 1677 | Magnetic carboxylated cellulose nanocrystals as adsorbent for the removal of Pb(II) from aqueous solution. <b>2016</b> , 93, 547-556   | 73  |
| 1676 | The role of Fe dopants in phase stability and electric switching properties of Fe-doped VO2. <b>2016</b> , 42, 18764-18770   | 26  |
| 1675 | Nitrogen Doped Carbon with Metal as Electrocatalysts for the Oxygen Reduction Reaction. <b>2016</b> , 163, F1373-F1379   | 11  |
| 1674 | Characterization and adsorptive properties of cross-linked poly (1-vinylimidazole)-iron (III) complex synthesized in supercritical carbon dioxide. <b>2016</b> , 16, 403-410 | 4   |
| 1673 | Planar-Processed Polymer Transistors. <b>2016</b> , 28, 8531-8537  | 51  |

## (2016-2016)

| 1672 | Quantitative analysis of Fe and Co in Co-substituted magnetite using XPS: The application of non-linear least squares fitting (NLLSF). <b>2016</b> , 389, 438-446           | 53  |
|------|---|-----|
| 1671 | A novel control strategy for N2O formation by adjusting Eh in nitrite/Fe(IIII) carbonate green rust system. <b>2016</b> , 304, 579-586                                      | 3   |
| 1670 | Acidity-activity correlation over bimetallic iron-based ZSM-5 catalysts during selective catalytic reduction of NO by NH3. <b>2016</b> , 423, 423-432                       | 22  |
| 1669 | An iron-based micropore-enriched silica catalyst: in situ confining of Fe2O3 in the mesopores and its improved catalytic properties. <b>2016</b> , 6, 76064-76074           | 12  |
| 1668 | Assembling pore-rich FeP nanorods on the CNT backbone as an advanced electrocatalyst for oxygen evolution. <b>2016</b> , 4, 13005-13010                                     | 67  |
| 1667 | Highly Ordered Mesoporous Fe3O4@Carbon Embedded Composite: High Catalytic Activity, Wide pH Range and Stability for Heterogeneous Electro-Fenton. <b>2016</b> , 28, 169-176 | 19  |
| 1666 | A Facile Method for the Direct Introduction of FeOx in Mesoporous AMS Through A Templating Route (S[MN]+I]] and Its Catalytic Application. <b>2016</b> , 1, 1305-1313       | 3   |
| 1665 | Fine Tuning the Composition and Nanostructure of Fe-Based CoreBhell Nanocatalyst for Efficient CO2 Hydrogenation. <b>2016</b> , 2, 989-996                                  | 13  |
| 1664 | Understanding the Oxidation Behavior of Fe/Ni/Cr and Fe/Cr/Ni Core/Alloy Nanoparticles. <b>2016</b> , 120, 22035-22044  | 15  |
| 1663 | Highly efficient V-Mo-Fe-O catalysts for selective oxidation of toluene to benzaldehyde. <b>2016</b> , 86, 72-76  | 19  |
| 1662 | Kinetics and mechanisms of amorphous FeS induced Cr(VI) reduction. <b>2016</b> , 320, 216-225   | 63  |
| 1661 | Improved performance in Ag2S/P3HT hybrid solar cells with a solution processed SnO2 electron transport layer. <b>2016</b> , 6, 77701-77708                                  | 15  |
| 1660 | Tailoring the properties of magnetite nanoparticles clusters by coating with double inorganic layers. <b>2016</b> , 390, 1-6  | 9   |
| 1659 | Multishell structured magnetic nanocomposites carrying a copolymer of pyrrolethiophene for highly selective Au(III) recovery. <b>2016</b> , 4, 19060-19069                  | 25  |
| 1658 | Nitrogen Doping in Oxygen-Deficient CaFeO: A Strategy for Efficient Oxygen Reduction Oxide Catalysts. <b>2016</b> , 8, 34387-34395  | 37  |
| 1657 | Structural and CO2 capture analyses of the Li1+xFeO2 (0 lk lD.3) system: effect of different physicochemical conditions. <b>2016</b> , 6, 112040-112049                     | 21  |
| 1656 | Hydrogen production based on a photoactivated nanowire-forest. <b>2016</b> , 4, 14988-14995   | 5   |
| 1655 | Hyperporous Carbons from Hypercrosslinked Polymers. <b>2016</b> , 28, 9804-9810   | 163 |

| 1654 | Fe2O3/CdS co-sensitized titania nanotube for hydrogen generation from photocatalytic splitting water. <b>2016</b> , 41, 17818-17825  | 14 |
|------|--|----|
| 1653 | A Gibeon meteorite yields a high-performance water oxidation electrocatalyst. <b>2016</b> , 9, 3448-3455   | 26 |
| 1652 | Effect of TiO2 morphology on the benzyl alcohol oxidation activity of Fe2O3IIiO2 nanomaterials. <b>2016</b> , 6, 71076-71091   | 13 |
| 1651 | Fe-pyridinedicarboxylate based coordination polymer nanorods as a heterogeneous Fenton catalyst for pollutant degradation. <b>2016</b> , 6, 68227-68230  | 6  |
| 1650 | Graphene Oxide-Based Sensor for Ultrasensitive Visual Detection of Fluoride. <b>2016</b> , 3, 1600217  | 23 |
| 1649 | Electro-Oxidation of Ni42 Steel: A Highly Active Bifunctional Electrocatalyst. <b>2016</b> , 26, 6402-6417   | 67 |
| 1648 | Synthesis of aligned La3+-substituted Sr-ferrites via molten salt assisted sintering and their magnetic properties. <b>2016</b> , 42, 15511-15516  | 22 |
| 1647 | Cellulose nanofiber backboned Prussian blue nanoparticles as powerful adsorbents for the selective elimination of radioactive cesium. <b>2016</b> , 6, 37009                                   | 77 |
| 1646 | Carbon incorporation effects and reaction mechanism of FeOCl cathode materials for chloride ion batteries. <b>2016</b> , 6, 19448  | 31 |
| 1645 | Transparent ferromagnetic and semiconducting behavior in Fe-Dy-Tb based amorphous oxide films. <b>2016</b> , 6, 27869  | 6  |
| 1644 | Ce-Doped zero-valent iron nanoparticles as a Fenton-like catalyst for degradation of sulfamethazine. <b>2016</b> , 6, 103523-103531  | 22 |
| 1643 | Tribochemical Behavior of Phosphate Compounds at an Elevated Temperature. <b>2016</b> , 120, 25742-25751   | 26 |
| 1642 | Iron Complex Facilitated Copper Redox Cycling for Nitric Oxide Generation as Nontoxic Nitrifying Biofilm Inhibitor. <b>2016</b> , 8, 30502-30510   | 14 |
| 1641 | Novel synthesis of an iron oxalate capped iron oxide nanomaterial: a unique soil conditioner and slow release eco-friendly source of iron sustenance in plants. <b>2016</b> , 6, 103012-103025 | 26 |
| 1640 | Design of ⊞e2O3 nanorods functionalized tubular NiO nanostructure for discriminating toluene molecules. <b>2016</b> , 6, 26432   | 34 |
| 1639 | High Efficient Photo-Fenton Catalyst of ⊞e2O3/MoS2 Hierarchical Nanoheterostructures: Reutilization for Supercapacitors. <b>2016</b> , 6, 31591  | 55 |
| 1638 | A three-dimensional interlayer composed of graphene and porous carbon for Long-life, High capacity Lithium-Iron Fluoride Battery. <b>2016</b> , 220, 75-82                                     | 10 |
| 1637 | Effect of Molybdenum on the Corrosion of Low Alloy Steels in Synthetic Seawater. <b>2016</b> , 57, 2116-2121   | 3  |

## (2016-2016)

| 1636 | Pathway of FeEDTA transformation and its impact on performance of NOx removal in a chemical absorption-biological reduction integrated process. <b>2016</b> , 6, 18876                                     | 15 |
|------|--|----|
| 1635 | Dielectric and ferroelectric characteristics of Ba4Pr2Fe2Nb8O30 tungsten bronze ceramics. <b>2016</b> , 181, 47-53   | 14 |
| 1634 | Microwave-dried ⊞e2O3 as a highly efficient catalyst for ortho-methylation of phenol with methanol. <b>2016</b> , 182, 373-381   | 34 |
| 1633 | Dopant-Induced Diffusion Processes at Metal®xide Interfaces Studied for Iron- and Chromium-Doped MgO/Mo(001) Model Systems. <b>2016</b> , 120, 13604-13609   | 13 |
| 1632 | Colour changes by laser irradiation of reddish building limestones. <b>2016</b> , 384, 525-529   | 3  |
| 1631 | XPS and EELS characterization of Mn2SiO4, MnSiO3 and MnAl2O4. <b>2016</b> , 379, 242-248   | 46 |
| 1630 | Aluminium substituted lanthanum based perovskite type oxides, non-stoichiometry and performance in methane partial oxidation by framework oxygen. <b>2016</b> , 523, 171-181                               | 9  |
| 1629 | Tribo-chemical behavior of eutectoid steel during rolling contact friction. <b>2016</b> , 388, 40-48   | 19 |
| 1628 | Triboemission of gases from iron and construction steel: The effect of surface conditions. <b>2016</b> , 97, 360-370   | 3  |
| 1627 | The continuous conversion of ethanol and water mixtures into hydrogen over FexOy/MoO3 catalytic system&PS and MBsbauer studies. <b>2016</b> , 423, 92-104  | 19 |
| 1626 | Synthesis of a novel poly-thiolated magnetic nano-platform for heavy metal adsorption. Role of thiol and carboxyl functions. <b>2016</b> , 386, 160-177  | 25 |
| 1625 | Insights into Ferrocene-Mediated Nitric Oxide Sensing Œlucidation of Mechanism and Isolation of Intermediate. <b>2016</b> , 210, 321-327   | 7  |
| 1624 | Study of distinctions in the synergistic effects between carbon nanotubes and different metal oxide nanoparticles on enhancing thermal oxidative stability of silicone rubber. <b>2016</b> , 51, 7130-7144 | 11 |
| 1623 | FeF3@Thin Nickel Ammine Nitrate Matrix: Smart Configurations and Applications as Superior Cathodes for Li-Ion Batteries. <b>2016</b> , 8, 16240-7  | 24 |
| 1622 | The Shortening of MWNT-SPION Hybrids by Steam Treatment Improves Their Magnetic Resonance Imaging Properties In Vitro and In Vivo. <b>2016</b> , 12, 2893-905  | 17 |
| 1621 | On the structural stability and oxygen permeation behavior of inorganic SrCo0.8Fe0.2O3E membranes. <b>2016</b> , 22, 2471-2485   | 7  |
| 1620 | Long-Range Tunneling Processes across Ferritin-Based Junctions. <b>2016</b> , 28, 1824-30  | 63 |
| 1619 | Au-NP-Decorated Crystalline FeOCl Nanosheet: Facile Synthesis by Laser Ablation in Liquid and its Exclusive Gas Sensing Response to HCl at Room Temperature. <b>2016</b> , 3, 1500801                      | 30 |

| 1618 | A Nickel-Based Integrated Electrode from an Autologous Growth Strategy for Highly Efficient Water Oxidation. <b>2016</b> , 6, 1502489   | 123 |
|------|---|-----|
| 1617 | One-Pot Synthesis of Mesoporous Anatase-TiO2(B) Mixed-Phase Nanowires Decorated with Sulfur and Fe2O3 Nanoparticles for Visible-Light Photochemical Oxidation. <b>2016</b> , 8, 426-433                       | 7   |
| 1616 | Cation distribution in Ni-substituted Mn0.5Zn0.5Fe2O4 nanoparticles: A Raman, M\(\textit{B}\)sbauer, X-ray diffraction and electron spectroscopy study. <b>2016</b> , 206, 69-78                              | 43  |
| 1615 | Temperature Dependence of Electrocatalytic and Photocatalytic Oxygen Evolution Reaction Rates Using NiFe Oxide. <b>2016</b> , 6, 1713-1722  | 106 |
| 1614 | Enhancement in growth rate and productivity of spinach grown in hydroponics with iron oxide nanoparticles. <b>2016</b> , 6, 15451-15459   | 70  |
| 1613 | Magnetic Activated Carbon Derived from Biomass Waste by Concurrent Synthesis: Efficient Adsorbent for Toxic Dyes. <b>2016</b> , 4, 1058-1068  | 183 |
| 1612 | Visible light assisted Fenton-like degradation of Orange II on Ni 3 Fe/Fe 3 O 4 magnetic catalyst prepared from spent FeNi layered double hydroxide. <b>2016</b> , 415, 9-16                                  | 31  |
| 1611 | Hydrogenation of CO2 to dimethyl ether on La-, Ce-modified Cu-Fe/HZSM-5 catalysts. <b>2016</b> , 75, 78-82  | 40  |
| 1610 | FeP and FeP2 nanowires for efficient electrocatalytic hydrogen evolution reaction. <b>2016</b> , 52, 2819-22  | 208 |
| 1609 | Effect of aqueous Fe(II) on Sb(V) sorption on soil and goethite. <b>2016</b> , 147, 44-51   | 38  |
| 1608 | Rapid Mobilization of Noncrystalline U(IV) Coupled with FeS Oxidation. <b>2016</b> , 50, 1403-11  | 26  |
| 1607 | Microwave-Assisted Synthesis of Magnetic Carboxymethyl Cellulose-Embedded Ag <b>E</b> e3O4<br>Nanocatalysts for Selective Carbonyl Hydrogenation. <b>2016</b> , 4, 965-973                                    | 60  |
| 1606 | Production of hollow and porous Fe2O3 from industrial mill scale and its potential for large-scale electrochemical energy storage applications. <b>2016</b> , 4, 2597-2604                                    | 61  |
| 1605 | Constructing a novel ternary Fe(III)/graphene/g-C 3 N 4 composite photocatalyst with enhanced visible-light driven photocatalytic activity via interfacial charge transfer effect. <b>2016</b> , 183, 231-241 | 241 |
| 1604 | Structural Formation and Improved Performances of Chemically Synthesized Composition-Controlled Micron-Sized Fe100⊠ Co x Particles. <b>2016</b> , 29, 417-422   | 4   |
| 1603 | Green synthesis of 宇e2O3 nanoparticles for arsenic(V) remediation with a novel aspect for sludge management. <b>2016</b> , 4, 639-650   | 65  |
| 1602 | Electric and Magnetic Properties of ALD-Grown BiFeO3 Films. <b>2016</b> , 120, 7313-7322  | 25  |
| 1601 | Magnetic nanoparticles grafted with amino-riched dendrimer as magnetic flocculant for efficient harvesting of oleaginous microalgae. <b>2016</b> , 297, 304-314   | 76  |

## (2016-2016)

| 1600 | Pt-Doped NiFeDISpinel as a Highly Efficient Catalyst for HISelective Catalytic Reduction of NO at Room Temperature. <b>2016</b> , 18, 195-202   | 24 |
|------|---|----|
| 1599 | Functionalizable and electrically conductive thin films formed by oxidative chemical vapor deposition (oCVD) from mixtures of 3-thiopheneethanol (3TE) and ethylene dioxythiophene (EDOT). <b>2016</b> , 4, 3403-3414 | 19 |
| 1598 | Hydrazine drastically promoted Fenton oxidation of bisphenol A catalysed by a FeIII© o Prussian blue analogue. <b>2016</b> , 77, 32-36  | 22 |
| 1597 | Coal based magnetic activated carbon as a high performance adsorbent for methylene blue. <b>2016</b> , 23, 877-884  | 17 |
| 1596 | Electrospinning Synthesis of Ni°, Fe° Codoped Ultrafine-ZnFe2O4/C Nanofibers and Their Properties for Lithium Ion Storage. <b>2016</b> , 194, 357-366   | 31 |
| 1595 | Cr(VI) reduction and immobilization by novel carbonaceous modified magnetic Fe3O4/halloysite nanohybrid. <b>2016</b> , 309, 151-6   | 93 |
| 1594 | Total oxidation of VOCs on mesoporous iron oxide catalysts: Soft chemistry route versus hard template method. <b>2016</b> , 290, 273-281  | 92 |
| 1593 | Preparing a highly dispersed catalyst supported on mesoporous microspheres via the self-assembly of amphiphilic ligands for the recovery of ultrahigh concentration wastewater. <b>2016</b> , 4, 6304-6312            | 9  |
| 1592 | Comparison of X-ray photoelectron spectroscopy multiplet splitting of Cr 2p peaks from chromium tris(Ediketonates) with chemical effects. <b>2016</b> , 206, 46-51  | 10 |
| 1591 | Synthesis-Dependent Surface Defects and Morphology of Hematite Nanoparticles and Their Effect on Cytotoxicity in Vitro. <b>2016</b> , 8, 5867-76  | 35 |
| 1590 | Unconventional properties of nanometric FeO(111) films on Ru(0001): stoichiometry and surface structure. <b>2016</b> , 4, 1850-1859   | 17 |
| 1589 | Control of gradient activation energy on the formation and properties of multiferroic composite thin films. <b>2016</b> , 4, 2028-2039  | 4  |
| 1588 | The Influence of Final-State Effects on XPS Spectra from First-Row Transition-Metals. <b>2016</b> , 217-262   | O  |
| 1587 | Electrochemical performance as cathode of lithium iron silicate, borate and phosphate glasses with different Fe2+ fractions. <b>2016</b> , 436, 51-57   | 8  |
| 1586 | Active Protective Coatings. <b>2016</b> ,   | 17 |
| 1585 | Physico-Chemical Characterisation of Protective Coatings and Self Healing Processes. <b>2016</b> , 241-298  |    |
| 1584 | Recent developments in hybrid iron oxideBoble metal nanocatalysts for organic reactions. <b>2016</b> , 278, 209-226   | 11 |
| 1583 | Evolution of surface properties of ornamental granitoids exposed to high temperatures. <b>2016</b> , 104, 263-275   | 39 |

| 1582                                 | Water oxidation electrocatalysis with iron oxide nanoparticles prepared via laser ablation. <b>2016</b> , 25, 246-250   | 20                   |
|--------------------------------------|---|----------------------|
| 1581                                 | In situ Oxidation and Self-Assembly Synthesis of Dumbbell-like Fe2O3/Ag/AgX (X = Cl, Br, I) Heterostructures with Enhanced Photocatalytic Properties. <b>2016</b> , 4, 1521-1530  | 41                   |
| 1580                                 | Multiferroicity in SmFeO3 synthesized by hydrothermal method. <b>2016</b> , 665, 152-157  | 42                   |
| 1579                                 | Fabrication self-recovery bulge textures on TiNi shape memory alloy and its tribological properties in lubricated sliding. <b>2016</b> , 96, 11-22  | 13                   |
| 1578                                 | Structural and Catalytic Effects of Iron- and Scandium-Doping on a Strontium Cobalt Oxide Electrocatalyst for Water Oxidation. <b>2016</b> , 6, 1122-1133   | 29                   |
| 1577                                 | Synthesis, characterization and catalytic properties of La(Ni,Fe)O3NiO nanocomposites. 2016, 78, 1-10   | 20                   |
| 1576                                 | Electrochemically formed 3D hierarchical thin films of cobalthanganese (CoMn) hexacyanoferrate hybrids for electrochemical applications. <b>2016</b> , 305, 249-258   | 43                   |
| 1575                                 | Enhancing Electrochemical Performances of TiO2 Porous Microspheres through Hybridizing with FeTiO3 and Nanocarbon. <b>2016</b> , 190, 556-565   | 42                   |
| 1574                                 | Carbon-supported Pt-free catalysts with high specificity and activity toward the oxygen reduction reaction in acidic medium. <b>2016</b> , 184, 12-19   | 48                   |
|                                      |   |                      |
| 1573                                 | The effect of iron re-deposition on the corrosion of impurity-containing magnesium. <b>2016</b> , 18, 1279-91   | 106                  |
| 1573<br>1572                         | The effect of iron re-deposition on the corrosion of impurity-containing magnesium. <b>2016</b> , 18, 1279-91  Scalable production of graphene with tunable and stable doping by electrochemical intercalation and exfoliation. <b>2016</b> , 18, 339-43  | 106                  |
|                                      | Scalable production of graphene with tunable and stable doping by electrochemical intercalation   |                      |
| 1572                                 | Scalable production of graphene with tunable and stable doping by electrochemical intercalation and exfoliation. <b>2016</b> , 18, 339-43  Towards an improved process for hydrogen production: the chemical-loop reforming of ethanol.   | 12                   |
| 1572<br>1571                         | Scalable production of graphene with tunable and stable doping by electrochemical intercalation and exfoliation. <b>2016</b> , 18, 339-43  Towards an improved process for hydrogen production: the chemical-loop reforming of ethanol. <b>2016</b> , 18, 1038-1050  Facile fabrication of magnetic cucurbit[6]uril/graphene oxide composite and application for  | 12                   |
| 1572<br>1571<br>1570                 | Scalable production of graphene with tunable and stable doping by electrochemical intercalation and exfoliation. 2016, 18, 339-43  Towards an improved process for hydrogen production: the chemical-loop reforming of ethanol. 2016, 18, 1038-1050  Facile fabrication of magnetic cucurbit[6]uril/graphene oxide composite and application for uranium removal. 2016, 286, 311-319  Repercussion of the carbon matrix for the activity and stability of Fe/N/C electrocatalysts for the   | 12<br>27<br>78       |
| 1572<br>1571<br>1570                 | Scalable production of graphene with tunable and stable doping by electrochemical intercalation and exfoliation. 2016, 18, 339-43  Towards an improved process for hydrogen production: the chemical-loop reforming of ethanol. 2016, 18, 1038-1050  Facile fabrication of magnetic cucurbit[6]uril/graphene oxide composite and application for uranium removal. 2016, 286, 311-319  Repercussion of the carbon matrix for the activity and stability of Fe/N/C electrocatalysts for the oxygen reduction reaction. 2016, 183, 185-196  Hydrogel template-assisted synthesis of nanometric Fe 2 O 3 supported on exfoliated clay. 2016,  | 12<br>27<br>78<br>53 |
| 1572<br>1571<br>1570<br>1569<br>1568 | Scalable production of graphene with tunable and stable doping by electrochemical intercalation and exfoliation. 2016, 18, 339-43  Towards an improved process for hydrogen production: the chemical-loop reforming of ethanol. 2016, 18, 1038-1050  Facile fabrication of magnetic cucurbit[6]uril/graphene oxide composite and application for uranium removal. 2016, 286, 311-319  Repercussion of the carbon matrix for the activity and stability of Fe/N/C electrocatalysts for the oxygen reduction reaction. 2016, 183, 185-196  Hydrogel template-assisted synthesis of nanometric Fe 2 O 3 supported on exfoliated clay. 2016, 221, 212-219  Synthesis of functionalized carbon nanotubes by floating catalytic chemical vapor deposition | 12<br>27<br>78<br>53 |

| 1564 | Provenancing of VIVII century terra sigillata coming from Matera burial area by X-ray photoelectron spectroscopy. <b>2016</b> , 17, 194-197  | 2   |
|------|--|-----|
| 1563 | On the optimization of activated carbon-supported iron catalysts in catalytic wet peroxide oxidation process. <b>2016</b> , 181, 249-259   | 46  |
| 1562 | Corrosion of carbon steel in the [P 14666 ][Br] ionic liquid: The effects of Fadiation and cover gas. <b>2016</b> , 102, 1-15  | 11  |
| 1561 | Adsorptive removal of arsenate from aqueous solutions by biochar supported zero-valent iron nanocomposite: Batch and continuous flow tests. <b>2017</b> , 322, 172-181                             | 210 |
| 1560 | Evaluation of Tribological Properties of Sulfur- and Phosphorous-Free Quinolinium Salts and Their Correlation with Quantum Chemical Parameters. <b>2017</b> , 60, 349-361                          | 2   |
| 1559 | Homogeneous and heterogeneous photo-Fenton degradation of antibiotics using an innovative static mixer photoreactor. <b>2017</b> , 310, 342-351  | 74  |
| 1558 | Initial Stage Oxidation and Surface Morphology of Modified 9CrllMo Steel at High Temperatures in Air. <b>2017</b> , 70, 1477-1489  | 3   |
| 1557 | Effect of oxygen vacancies on the microstructure and multiferroic behavior of Bi4.25La0.75Fe0.5Co0.5Ti3O15 ceramics. <b>2017</b> , 43, 5189-5194   | 3   |
| 1556 | Temperature-induced deactivation mechanism of ZnFe2O4 for oxidative dehydrogenation of 1-butene. <b>2017</b> , 2, 215-225  | 5   |
| 1555 | A Thin NiFe Hydroxide Film Formed by Stepwise Electrodeposition Strategy with Significantly Improved Catalytic Water Oxidation Efficiency. <b>2017</b> , 7, 1602547                                | 154 |
| 1554 | Layered structure of the near-surface region of oxidized chalcopyrite (CuFeS): hard X-ray photoelectron spectroscopy, X-ray absorption spectroscopy and DFT+U studies. <b>2017</b> , 19, 2749-2759 | 13  |
| 1553 | An X-ray photoelectron spectroscopy study of the electrochemical behaviour of iron molybdate thin films in lithium and sodium cells. <b>2017</b> , 342, 796-807                                    | 16  |
| 1552 | High efficient solar hydrogen generation by modulation of Co-Ni sulfide (220) surface structure and adjusting adsorption hydrogen energy. <b>2017</b> , 206, 353-363                               | 39  |
| 1551 | Formation and Characterization of Model Iron Sulfide Scales with Disulfides and Thiols on Steel Pipeline Materials by an Aerosol-Assisted Chemical Vapor Method. <b>2017</b> , 31, 2496-2500       |     |
| 1550 | Mechanistic Insights and Kinetics of CO Oxidation over Pristine and Noble Metal Modified Fe2O3 Using Diffuse Reflectance Infrared Fourier Transform Spectroscopy. <b>2017</b> , 56, 2008-2024      | 15  |
| 1549 | Influence of temperature on the electrochemical and passivation behavior of 2507 super duplex stainless steel in simulated desulfurized flue gas condensates. <b>2017</b> , 118, 31-48             | 144 |
| 1548 | X-Ray Photoelectron Spectroscopic Characterization of Iron Oxide Nanoparticles. <b>2017</b> , 405, 337-343   | 94  |
| 1547 | Preparation of an Anodized Shot-Peened Layer on Steel and Its Controllable Wettability. <b>2017</b> , 70, 2175-2183  | 2   |
|      |  |     |

| 1546 | Li0.995Nb0.005Mn0.85Fe0.15PO4/C as a high-performance cathode material for lithium-ion batteries. <b>2017</b> , 21, 1499-1507   | 5  |
|------|---|----|
| 1545 | Ferrocenated nanocatalysts derived from the decomposition of ferrocenium in basic solution and their aerobic activities for the rapid decolorization of methylene blue and the facile oxidation of phenylboronic acid. <b>2017</b> , 7, 5759-5763 | 16 |
| 1544 | Highly photocatalytic activity of novel Fe-MIL-88B/GO nanocomposite in the degradation of reactive dye from aqueous solution. <b>2017</b> , 4, 035038   | 33 |
| 1543 | Kinetics, Chemistry, and Morphology of Syngas Photoinitiated Chemical Vapor Deposition. <b>2017</b> , 33, 1780-1791   | 11 |
| 1542 | Different approaches for preparing a novel thiol-functionalized graphene oxide/Fe-Mn and its application for aqueous methylmercury removal. <b>2017</b> , 319, 229-239  | 85 |
| 1541 | KFeCuTe: a new compound to study the removal of interstitial Fe in layered tellurides. <b>2017</b> , 46, 3649-3654  | 11 |
| 1540 | Excellent mechanical properties of metastable c-WN fabricated at high pressure and high temperature. <b>2017</b> , 66, 63-67  | 14 |
| 1539 | Graphene nanobubbles on TiO for in-operando electron spectroscopy of liquid-phase chemistry. <b>2017</b> , 9, 4456-4466   | 25 |
| 1538 | The effect of common groundwater anions on the aqueous corrosion of zero-valent iron nanoparticles and associated removal of aqueous copper and zinc. <b>2017</b> , 5, 1166-1173  | 29 |
| 1537 | Iron(III) Chloride-Mediated Regio- and Stereoselective Chlorosulfonylation of Alkynes and Alkenes with Sodium Sulfinates. <b>2017</b> , 359, 841-847  | 39 |
| 1536 | Enhanced Photoelectrochemical Performance of Hydrogen Treated Hematite Thin Films Decorated with a Thin Akaganlte (FeOOH) Layer. <b>2017</b> , 2, 1413-1420   | 5  |
| 1535 | Stoichiometric water splitting using a p-type Fe2O3 based photocathode with the aid of a multi-heterojunction. <b>2017</b> , 5, 6483-6493   | 27 |
| 1534 | Superparamagnetic iron oxide nanoparticles dispersed in Pluronic F127 hydrogel: potential uses in topical applications. <b>2017</b> , 7, 14496-14503  | 58 |
| 1533 | Low Temperature CO oxidation over Iron Oxide Nanoparticles Decorating Internal Structures of a Mesoporous Alumina. <b>2017</b> , 7, 40497   | 31 |
| 1532 | A fundamental study on carbon composites of FeF3 0.33H2O as open-framework cathode materials for calcium-ion batteries. <b>2017</b> ,   | 6  |
| 1531 | Mechanism study on the sulfidation of ZnO with sulfur and iron oxide at high temperature. <b>2017</b> , 7, 42536  | 21 |
| 1530 | Synthesis of Magnetic Nanoparticles by Ultrashort Pulsed Laser Ablation of Iron in Different Liquids. <b>2017</b> , 18, 1155-1164   | 45 |
| 1529 | Performance of Fe-Ba/ZSM-5 catalysts in NO´+´O2 adsorption and NO´+´CO reduction. <b>2017</b> , 42, 7077-7088   | 19 |

| 1528 | HoFe 3 magnetic nanopowders fabricated by high energy ball milling. <b>2017</b> , 126, 42-56  | 5   |
|------|---|-----|
| 1527 | Bandgap-engineered quaternary M x Bi 2½ Ti 2 O 7 (M: Fe, Mn) semiconductor nanoparticles: Solution combustion synthesis, characterization, and photocatalysis. <b>2017</b> , 208, 148-160           | 24  |
| 1526 | Preparation and Characterization of Nanoscale Zero-Valent Iron-Loaded Porous Sepiolite for Decolorizing Methylene Blue in Aqueous Solutions. <b>2017</b> , 69, 699-703                              | 6   |
| 1525 | Investigation of the calcination temperature effect on the interaction between Au nanoparticles and the catalytic support Fe2O3 for the low temperature CO oxidation. <b>2017</b> , 75, 18-28       | 8   |
| 1524 | Cationically Substituted BiFeOCl Nanosheets as Li Ion Battery Anodes. <b>2017</b> , 9, 14187-14196  | 20  |
| 1523 | Cobalt-doped pyrochlore-structured iron fluoride as a highly stable cathode material for lithium-ion batteries. <b>2017</b> , 238, 49-55  | 28  |
| 1522 | 1-Butyl-1-methylpyrrolidinium chloride as an effective corrosion inhibitor for stainless steel current collectors in magnesium chloride complex electrolytes. <b>2017</b> , 355, 90-97              | 24  |
| 1521 | Enhanced Photocatalytic Removal of Uranium(VI) from Aqueous Solution by Magnetic TiO/FeO and Its Graphene Composite. <b>2017</b> , 51, 5666-5674  | 211 |
| 1520 | Single-crystal X-ray diffraction, EMPA, FTIR and X-ray photoelectron spectroscopy study of narsarsukite from Murun Massif, Russia. <b>2017</b> , 81, 339-354  | 2   |
| 1519 | Three-Dimensional Carbon@Fe2O3@SnO2 Hierarchical Inverse Opals Arrays as Lilbn Battery Anode with Improved Cycling Life and Rate Capability. <b>2017</b> , 2, 3223-3230                             | 4   |
| 1518 | An effective strategy to improve dynamic and cyclic stability of HQC/TiO 2 photocatalyst by introducing carbon quantum dots or iron ion via metal-complex. <b>2017</b> , 210, 504-512               | 10  |
| 1517 | Suppressing the electronfiole recombination rate in hematite photoanode with a rapid cooling treatment. <b>2017</b> , 350, 48-55  | 26  |
| 1516 | Advanced analysis of copper X-ray photoelectron spectra. Surface and Interface Analysis, 2017, 49, 1325-1334  | 561 |
| 1515 | Materials Chemistry of Iron Phosphosulfide Nanoparticles: Synthesis, Solid State Chemistry, Surface Structure, and Electrocatalysis for the Hydrogen Evolution Reaction. <b>2017</b> , 7, 4026-4032 | 73  |
| 1514 | Iron Oxide Photoelectrode with Multidimensional Architecture for Highly Efficient Photoelectrochemical Water Splitting. <b>2017</b> , 129, 6683-6688  | 15  |
| 1513 | Three-dimensional hierarchical metal oxideBarbon electrode materials for highly efficient microbial electrosynthesis. <b>2017</b> , 1, 1171-1176  | 42  |
| 1512 | Mechanical, structural and dissolution properties of heat treated thin-film phosphate based glasses. <b>2017</b> , 416, 605-617   | 13  |
| 1511 | XPS study on the mechanism of starch-hematite surface chemical complexation. <b>2017</b> , 110, 96-103  | 88  |

| 1510 | Iron Oxide Photoelectrode with Multidimensional Architecture for Highly Efficient Photoelectrochemical Water Splitting. <b>2017</b> , 56, 6583-6588  | 53  |
|------|--|-----|
| 1509 | Annealing temperature dependent catalytic water oxidation activity of iron oxyhydroxide thin films. <b>2017</b> , 26, 757-761  | 28  |
| 1508 | Ultrahigh hardness of carbon steel surface realized by novel solid carburizing with rapid diffusion of carbon nanostructures. <b>2017</b> , 33, 1210-1218  | 10  |
| 1507 | An acrolein production route from ethanol and methanol mixtures over FeMo-based catalysts. <b>2017</b> , 19, 2666-2674   | 10  |
| 1506 | In situ formation of highly active Ni <b>E</b> e based oxygen-evolving electrocatalysts via simple reactive dip-coating. <b>2017</b> , 5, 11009-11015  | 54  |
| 1505 | A new approach for enhancement of the corrosion protection properties and interfacial adhesion bonds between the epoxy coating and steel substrate through surface treatment by covalently modified amino functionalized graphene oxide film. <b>2017</b> , 123, 55-75 | 159 |
| 1504 | Hydrogen effects on microstructural evolution and passive film characteristics of a duplex stainless steel. <b>2017</b> , 79, 28-32  | 42  |
| 1503 | Magnetic nanoparticles coated with cyclodextrins and citrate for irinotecan delivery. <b>2017</b> , 163, 1-9   | 36  |
| 1502 | Confined Metastable 2-Line Ferrihydrite for Affordable Point-of-Use Arsenic-Free Drinking Water. <b>2017</b> , 29, 1604260   | 39  |
| 1501 | Effect of crystal morphology on magnetic structure of nano-magnetites. <b>2017</b> , 250, 92-98  | 5   |
| 1500 | Layered Fe-Substituted LiNiO2 Electrocatalysts for High-Efficiency Oxygen Evolution Reaction. <b>2017</b> , 2, 1654-1660   | 31  |
| 1499 | Corrosion inhibition of mild steel in simulated seawater solution by a green eco-friendly mixture of glucomannan (GL) and bisquaternary ammonium salt (BQAS). <b>2017</b> , 125, 139-151   | 74  |
| 1498 | Doping induced modifications in the electronic structure and magnetism of ZnO films: Valence band and conduction band studies. <b>2017</b> , 423, 100-110  | 12  |
| 1497 | Structural and electronic features of triphenylstibine-functionalized Fischer carbene complexes of molybdenum(0). <b>2017</b> , 133, 307-318   | 10  |
| 1496 | Evaluating Charge Carrier Transport and Surface States in CuFeO2 Photocathodes. <b>2017</b> , 29, 4952-4962  | 106 |
| 1495 | Nonlinear dielectric effect of Fe2O3-doped PMSBZT piezoelectric ceramics for high-power applications. <b>2017</b> , 43, 10866-10872  | 11  |
| 1494 | Spinel-structured FeCo 2 O 4 mesoporous nanosheets as efficient electrode for supercapacitor applications. <b>2017</b> , 251, 26-33  | 73  |
| 1493 | Enhancement of ferromagnetism in BaFeO3-KTa0.47Nb0.53O3 multilayers compared to pseudo-cubic BaFeO3 thin film grown by pulsed laser deposition. <b>2017</b> , 214, 1600707   | 1   |

| 1492 | Magnetite Nanoparticles Bonded Carbon Quantum Dots Magnetically Confined onto Screen Printed Carbon Electrodes and their Performance as Electrochemical Sensor for NADH. <b>2017</b> , 29, 1968-1975 | 21  |
|------|--|-----|
| 1491 | Magnetite nanoparticles conjugated with lignin: A physicochemical and magnetic study. <b>2017</b> , 422, 94-103  | 18  |
| 1490 | Deoxyribonucleic acid as an inhibitor for chloride-induced corrosion of reinforcing steel in simulated concrete pore solutions. <b>2017</b> , 150, 238-247   | 49  |
| 1489 | Improved cycle capability of Titanium-doped Fe2O3 anode material for Li-ion batteries. <b>2017</b> , 722, 414-419  | 19  |
| 1488 | Synthesis and characterization of spherical-like bulk Fe3⊠CoxN (x = 0.0, 0.25, 1.95). <b>2017</b> , 197, 94-99   | 2   |
| 1487 | Degradation of 1,4-dioxane by biochar supported nano magnetite particles activating persulfate. <b>2017</b> , 184, 609-617   | 137 |
| 1486 | Peptide binding to metal oxide nanoparticles. <b>2017</b> , 204, 233-250   | 26  |
| 1485 | Significance of the electron-density of molecular fragments on the properties of manganese(III) Ediketonato complexes: an XPS and DFT study. <b>2017</b> , 7, 27718-27728                            | 26  |
| 1484 | Capacitance and voltage matching between MnO2 nanoflake cathode and Fe2O3 nanoparticle anode for high-performance asymmetric micro-supercapacitors. <b>2017</b> , 10, 2471-2481                      | 75  |
| 1483 | Effect of supports over Pd/Fe2O3 on CO oxidation at low temperature. <b>2017</b> , 160, 152-157  | 18  |
| 1482 | Decomposition of methylbenzene over Fe0/ZSM-5 under microwave irradiation. <b>2017</b> , 96, 63-68   | 6   |
| 1481 | Microwave magnetic properties of spinel ferrite films deposited by one-step electrochemical method. <b>2017</b> , 410, 99-104  | 4   |
| 1480 | Adsorptive performance of nanosized zero-valent iron for V(V) removal from aqueous solutions. <b>2017</b> , 92, 1891-1898  | 20  |
| 1479 | A facile one-pot synthesis of FeOx/carbon/graphene composites as superior anode materials for lithium-ion batteries. <b>2017</b> , 235, 88-97  | 16  |
| 1478 | A novel Cu+-doped Li[Fe0.9Cu0.1Li0.1]PO4/C cathode material with enhanced electrochemical properties. <b>2017</b> , 7, 16984-16990   | 5   |
| 1477 | Fabrication and growth mechanism of iron oxide insulation matrix for Fe soft magnetic composites with high permeability and low core loss. <b>2017</b> , 710, 138-143                                | 23  |
| 1476 | Characterization of Au/PbTi0.5Fe0.5O3/Si structure for possible multiferroic based non-volatile memory applications. <b>2017</b> , 121, 114105   | 1   |
| 1475 | Morphology-dependent electrocatalytic performance of Fe 2 (MoO 4) 3 for electro-oxidation of methanol in alkaline medium. <b>2017</b> , 3, 135-143   | 7   |

| 1474 | ZnOBe3O4Au Hybrid Composites for Thioanisole Oxidation Under Visible Light: Experimental and Theoretical Studies. <b>2017</b> , 28, 1897-1922  | 6   |
|------|--|-----|
| 1473 | Controlling structural and magnetic properties of IONPs by aqueous synthesis for improved hyperthermia. <b>2017</b> , 7, 13159-13170   | 17  |
| 1472 | Synthesis, characterization, and cytotoxicity evaluation of high-magnetization multifunctional nanoclusters. <b>2017</b> , 19, 1   | 5   |
| 1471 | Synthesis and characterization of ferrocene containing block copolymers. <b>2017</b> , 55, 495-503   | 14  |
| 1470 | In situ incorporation of well-dispersed Cu <b>f</b> le oxides in the mesochannels of AMS and their utilization as catalysts towards the Fenton-like degradation of methylene blue. <b>2017</b> , 52, 1432-1445 | 18  |
| 1469 | Heterogeneous selenite reduction by zero valent iron steel wool. <b>2017</b> , 75, 908-915   | 3   |
| 1468 | Synthesis of iron oxide nanorods via chemical scavenging and phase transformations of intermediates at ambient conditions. <b>2017</b> , 19, 1   | 3   |
| 1467 | Oxidation of magnetite nanoparticles: impact on surface and crystal properties. <b>2017</b> , 19, 246-255  | 101 |
| 1466 | Improving the performance of porous nickel foam for water oxidation using hydrothermally prepared Ni and Fe metal oxides. <b>2017</b> , 1, 207-216   | 28  |
| 1465 | Synthesis of Vesicle-Like MgFe2O4/Graphene 3D Network Anode Material with Enhanced Lithium Storage Performance. <b>2017</b> , 5, 563-570   | 41  |
| 1464 | The effect of thermal annealing on Fe/TiO 2 coatings deposited with the help of RF PECVD method. Part I. Chemical and phase composition. <b>2017</b> , 43, 3993-4004   | 6   |
| 1463 | Environment-Friendly Approach to Fabricate Iron Nanochains as a Superb Adsorbent and Recycled as a Fine Photo-Fenton Catalyst. <b>2017</b> , 147, 592-601  | 4   |
| 1462 | Electro-oxidation of a cobalt based steel in LiOH: a non-noble metal based electro-catalyst suitable for durable water-splitting in an acidic milieu. <b>2017</b> , 9, 17829-17838                             | 16  |
| 1461 | Humic Acid <b>E</b> e(Hydr)oxide Composites Supported on Montmorillonite: Synthesis, Characterization, and Atrazine Adsorption. <b>2017</b> , 62, 3793-3801  | 11  |
| 1460 | Interconnected CoFeO-Polypyrrole Nanotubes as Anode Materials for High Performance Sodium Ion Batteries. <b>2017</b> , 9, 36927-36935  | 37  |
| 1459 | Synthesis and Characterization of Two-Dimensional Transition Metal Dichalcogenide Magnetic MoS@FeO Nanoparticles for Adsorption of Cr(VI)/Cr(III). <b>2017</b> , 2, 6187-6200                                  | 74  |
| 1458 | Boron removal from hydraulic fracturing wastewater by aluminum and iron coagulation: Mechanisms and limitations. <b>2017</b> , 126, 481-487  | 54  |
| 1457 | Fe-based metal organic framework/graphene oxide composite as an efficient catalyst for Fenton-like degradation of methyl orange. <b>2017</b> , 7, 50829-50837  | 55  |

| 1456 | Performance and mechanism of ferric tannate in nitrogen removal from wastewater. <b>2017</b> , 82, 012036  | 1  |
|------|--|----|
| 1455 | Fatty acid decarboxylation reaction kinetics and pathway of co-conversion with amino acid on supported iron oxide catalysts. <b>2017</b> , 7, 47279-47287  | 9  |
| 1454 | Oxygen electrode reactions of doped BiFeO3 materials for low and elevated temperature fuel cell applications. <b>2017</b> , 7, 47643-47653   | 12 |
| 1453 | Magnetic anomalies in Fe-doped NiO nanoparticle. <b>2017</b> , 4, 096103   | 9  |
| 1452 | Coating Pd/Al 2 O 3 catalysts with FeO x enhances both activity and selectivity in 1,3-butadiene hydrogenation. <b>2017</b> , 38, 1581-1587  | 14 |
| 1451 | X-ray Absorption Spectroscopic Studies of the Penetrability of Hollow Iron Oxide Nanoparticles by Galvanic Exchange Reactions. <b>2017</b> , 121, 19735-19742  | 2  |
| 1450 | Effect of Particulate Matter Mineral Composition on Environmentally Persistent Free Radical (EPFR) Formation. <b>2017</b> , 51, 10396-10402  | 34 |
| 1449 | Significant promotion effect of Fe3O4 on the mass catalytic activity of Pd nanocatalyst for the formic acid oxidation reaction. <b>2017</b> , 42, 30284-30290  | 5  |
| 1448 | Systematic Investigation of the Electronic Structure of Hematite Thin Films. <b>2017</b> , 4, 1700542  | 14 |
| 1447 | Fe and C doped TiO2 with different aggregate architecture: Synthesis, optical, spectral and photocatalytic properties, first-principle calculation. <b>2017</b> , 111, 473-486                                 | 5  |
| 1446 | A novel adsorbent based on magnetic Fe 3 O 4 contained polyvinyl alcohol/chitosan composite nanofibers for chromium (VI) removal. <b>2017</b> , 72, 94-102   | 21 |
| 1445 | Selective hydrogenation of cinnamaldehyde with PtFe /Al2O3@SBA-15 catalyst: Enhancement in activity and selectivity to unsaturated alcohol by Pt-FeO and Pt-Al2O3@SBA-15 interaction. <b>2017</b> , 354, 24-36 | 45 |
| 1444 | Kx(C2H8N2)yFe2ØS2: synthesis, phase structure and correlation between K+ intercalation and Fe depletion. <b>2017</b> , 7, 17539-17544  | 9  |
| 1443 | The Enhanced CO Tolerance of Platinum Supported on FeP Nanosheet for Superior Catalytic Activity Toward Methanol Oxidation. <b>2017</b> , 254, 36-43   | 31 |
| 1442 | Fabrication of a mesoporous BaSrCoFeO perovskite as a low-cost and efficient catalyst for oxygen reduction. <b>2017</b> , 46, 13903-13911  | 12 |
| 1441 | Enhanced catalytic activity of supported nanostructured Pd for the oxidation of organic molecules using Fe2O3 and Fe3O4 as co-electrocatalysts. <b>2017</b> , 42, 30301-30309                                  | 10 |
| 1440 | Effective adsorbent for arsenic removal: core/shell structural nano zero-valent iron/manganese oxide. <b>2017</b> , 24, 24235-24242  | 26 |
| 1439 | Facile synthesis of Fe2O3@graphite nanoparticle composite as the anode for Lithium ion batteries with high cyclic stability. <b>2017</b> , 253, 104-113  | 42 |

| 1438 | High-Vacuum Deposition of Biferrocene Thin Films on Room-Temperature Substrates. <b>2017</b> , 29, 8663-8669   | 4   |
|------|--|-----|
| 1437 | CoFe2O4 nanoplates synthesized by dealloying method as high performance Li-ion battery anodes. <b>2017</b> , 252, 295-305  | 50  |
| 1436 | 3D hierarchical nanostructures of iron oxides coatings prepared by pulsed laser deposition for photocatalytic water purification. <b>2017</b> , 219, 401-411   | 22  |
| 1435 | Discrete Iron(III) Oxide Nanoislands for Efficient and Photostable Perovskite Solar Cells. <b>2017</b> , 27, 1702090   | 71  |
| 1434 | From a Molecular 2Fe-2Se Precursor to a Highly Efficient Iron Diselenide Electrocatalyst for Overall Water Splitting. <b>2017</b> , 129, 10642-10646   | 23  |
| 1433 | From a Molecular 2Fe-2Se Precursor to a Highly Efficient Iron Diselenide Electrocatalyst for Overall Water Splitting. <b>2017</b> , 56, 10506-10510  | 117 |
| 1432 | Enhancement of the acetone sensing capabilities to ppb detection level by Fe-doped three-dimensional SnO2 hierarchical microstructures fabricated via a hydrothermal method. <b>2017</b> , 52, 11554-11568 | 10  |
| 1431 | Efficient Formation of Light-Absorbing Polymeric Nanoparticles from the Reaction of Soluble Fe(III) with C4 and C6 Dicarboxylic Acids. <b>2017</b> , 51, 9700-9708   | 17  |
| 1430 | Facile synthesis of bicontinuous Ni3Fe alloy for efficient electrocatalytic oxygen evolution reaction. <b>2017</b> , 726, 875-884  | 34  |
| 1429 | A strontium-doped Li2FeSiO4/C cathode with enhanced performance for the lithium-ion battery. <b>2017</b> , 21, 3659-3673   | 10  |
| 1428 | Enhanced Photoelectrochemical Water Oxidation Performance of Fe2O3 Nanorods Array by S Doping. <b>2017</b> , 5, 7502-7506  | 91  |
| 1427 | The sorptive and reductive capacities of biochar supported nanoscaled zero-valent iron (nZVI) in relation to its crystallite size. <b>2017</b> , 186, 495-500  | 40  |
| 1426 | Soft Chemical Fabrication of Iron-Based Thin Film Electrocatalyst for Water Oxidation under Neutral pH and Structure-Activity Tuning by Cerium Incorporation. <b>2017</b> , 33, 8372-8382                  | 4   |
| 1425 | Hard templating ultrathin polycrystalline hematite nanosheets: effect of nano-dimension on CO to CO conversion via the reverse water-gas shift reaction. <b>2017</b> , 9, 12984-12995                      | 29  |
| 1424 | Self-Assembly Synthesis of Large-Pore Fe/N-Codoped Ordered Mesoporous Carbon for Supercapacitor Electrode Materials. <b>2017</b> , 164, A2328-A2334  | 13  |
| 1423 | Three-dimensional printed cellular stainless steel as a high-activity catalytic electrode for oxygen evolution. <b>2017</b> , 5, 18176-18182   | 45  |
| 1422 | Nanostructured 3D porous hybrid network of N-doped carbon, graphene and Si nanoparticles as an anode material for Li-ion batteries. <b>2017</b> , 41, 10555-10560  | 13  |
| 1421 | A two-dimensional Fe-doped SnS magnetic semiconductor. <b>2017</b> , 8, 1958   | 214 |

| 1420 | Investigation of SO2 tolerance of Ce-modified activated semi-coke based catalysts for the NO + CO reaction. <b>2017</b> , 7, 53631-53642  |   | 2  |
|------|---|---|----|
| 1419 | The disentangling of hysteretic spin transition, polymorphism and metastability in bistable thin films formed by sublimation of bis(scorpionate) Fe(II) molecules. <b>2017</b> , 5, 11067-11075     |   | 34 |
| 1418 | From surface science research to high-impact knowhows Exemplars of Surface Science Western.  Surface and Interface Analysis, 2017, 49, 1292-1297  | 5 | 0  |
| 1417 | Preparation and characterization of nano-sized FeTaO 4/graphite for lithium-ion batteries. <b>2017</b> , 313, 45-51   |   | 4  |
| 1416 | Corrosion Behavior of Aqua-Blasted and Laser-Engraved Type 316L Stainless Steel. <b>2017</b> , 26, 6167-6181  |   | 6  |
| 1415 | The Factors Determining Charge Rate of Magnetite Electrode and the Functional Mechanism of Sulfide on the Reaction. <b>2017</b> , 258, 143-152  |   | 1  |
| 1414 | Molecule-confined FeOx nanocrystals mounted on carbon as stable anode material for high energy density nickel-iron batteries. <b>2017</b> , 42, 166-172   |   | 35 |
| 1413 | Increasing Gas Bubble Escape Rate for Water Splitting with Nonwoven Stainless Steel Fabrics. <b>2017</b> , 9, 40281-40289   |   | 31 |
| 1412 | A facile and highly efficient short-time homogenization hydrothermal approach for the smart production of high-quality Fe2O3 for rechargeable lithium batteries. <b>2017</b> , 5, 16712-16721       |   | 40 |
| 1411 | Efficient solar light-driven degradation of Congo red with novel Cu-loaded FeO@TiO nanoparticles. <b>2017</b> , 24, 19546-19560   |   | 20 |
| 1410 | Preparation of hematite with an ultrathin iron titanate layer via an in situ reaction and its stable, long-lived, and excellent photoelectrochemical performance. <b>2017</b> , 218, 690-699        |   | 13 |
| 1409 | High Tolerance to Iron Contamination in Lead Halide Perovskite Solar Cells. <b>2017</b> , 11, 7101-7109   |   | 64 |
| 1408 | Degradation of 3,4-dichlorobenzotrifluoride by the Fenton-like process using zirconia-coated magnetite magnetic nanoparticles as an effective heterogeneous catalyst. <b>2017</b> , 24, 18575-18584 |   | 6  |
| 1407 | A Discovery of Strong Metal-Support Bonding in Nanoengineered Au-FeO Dumbbell-like Nanoparticles by in Situ Transmission Electron Microscopy. <b>2017</b> , 17, 4576-4582                           |   | 18 |
| 1406 | Dynamics of ferrihydrite-bound organic carbon during microbial Fe reduction. <b>2017</b> , 212, 221-233   |   | 63 |
| 1405 | Inhibition of Bicarbonate-Chloride Corrosion and Passivation of Carbon Steel under Open-Circuit Conditions by Molybdate. <b>2017</b> , 164, C505-C515   |   | 6  |
| 1404 | Acetic Acid Ketonization over FeO/SiO for Pyrolysis Bio-Oil Upgrading. <b>2017</b> , 9, 1648-1654   |   | 35 |
| 1403 | Iron(III) Oxide Nanoparticles as Catalysts for the Formation of Linear Glycine Peptides. <b>2017</b> , 2017, 198-21   | 1 | 14 |

| 1402 | Effect of carbon diffusion on friction and wear properties of diamond-like carbon in boundary base oil lubrication. <b>2017</b> , 113, 389-398   | 18  |
|------|--|-----|
| 1401 | Synergistic Effect of Cobalt and Iron in Layered Double Hydroxide Catalysts for the Oxygen Evolution Reaction. <b>2017</b> , 10, 156-165   | 91  |
| 1400 | The electrochemical performance of Cu 3 [Fe(CN) 6 ] 2 as a cathode material for sodium-ion batteries. <b>2017</b> , 86, 194-200  | 23  |
| 1399 | Anisotropic Self-Assembly of Organic-Inorganic Hybrid Microtoroids. <b>2017</b> , 139, 10232-10238   | 16  |
| 1398 | Treatment of blast furnace sludge (BFS) using a microwave heating technique. <b>2017</b> , 44, 619-629   | 9   |
| 1397 | Formation and Evolution of Oxide/Oxyhydroxide Corrosion Products on Low-Alloy Steel During Exposure to Near-Neutral pH Solutions Containing Oxygen and Nitrate. <b>2017</b> , 73, 221-237  |     |
| 1396 | Structural, optical and room temperature ferromagnetic properties of Sn1\(\mathbb{B}\)FexO2 thin films using flash evaporation technique. <b>2017</b> , 28, 2976-2983                      | 6   |
| 1395 | Simple Aqueous Preparation of High Activity and Stability NiFe Hydrous Oxide Catalysts for Water Oxidation. <b>2017</b> , 5, 1106-1112   | 21  |
| 1394 | Magnetically separable maghemite/montmorillonite composite as an efficient heterogeneous Fenton-like catalyst for phenol degradation. <b>2017</b> , 24, 1926-1937                          | 27  |
| 1393 | Stabilization of arsenic sludge with mechanochemically modified zero valent iron. <b>2017</b> , 168, 1142-1151   | 74  |
| 1392 | Composition assessment of ferric oxide by accurate peak fitting of the Fe 2p photoemission spectrum. <i>Surface and Interface Analysis</i> , <b>2017</b> , 49, 253-260                     | 31  |
| 1391 | Comparative study of different carbon-supported FeO-Pt catalysts for oxygen reduction reaction. <b>2017</b> , 24, 25682-25692  | 5   |
| 1390 | Investigation on Fe-Co binary metal oxides supported on activated semi-coke for NO reduction by CO. <b>2017</b> , 201, 636-651   | 139 |
| 1389 | Modulating the phases of iron carbide nanoparticles: from a perspective of interfering with the carbon penetration of Fe@FeO by selectively adsorbed halide ions. <b>2017</b> , 8, 473-481 | 80  |
| 1388 | CO2 hydrogenation to lower olefins on a high surface area K-promoted bulk Fe-catalyst. <b>2017</b> , 200, 530-542  | 170 |
| 1387 | Degradation of sulfamethazine antibiotics using Fe3O4Mn3O4 nanocomposite as a Fenton-like catalyst. <b>2017</b> , 92, 874-883  | 41  |
| 1386 | Preparation of ZnFe2O4 nanoparticles by mechanical alloying and annealing for sensitizing C-modified TiO2 and acquirement of efficient photocatalyst. <b>2017</b> , 43, 1495-1512          | 3   |
| 1385 | The effect of aqueous corrosion on the structure and reactivity of zero-valent iron nanoparticles. <b>2017</b> , 308, 568-577  | 38  |

| 1384 | Improvement of CO 2 uptake of activated carbons by treatment with mineral acids. <b>2017</b> , 309, 159-171  | 40 |
|------|--|----|
| 1383 | Clarification of high wear resistance mechanism of ta-CNx coating under poly alpha-olefin (PAO) lubrication. <b>2017</b> , 105, 193-200  | 23 |
| 1382 | Tuning the surface chemistry of lubricant-derived phosphate thermal films: The effect of boron. <b>2017</b> , 396, 1251-1263   | 8  |
| 1381 | Surface Electrochemical Modification of a Nickel Substrate to Prepare a NiFe-based Electrode for Water Oxidation. <b>2017</b> , 10, 394-400  | 58 |
| 1380 | Determination of the Mode of Occurrence of V, Fe, and Mn in Slags and Charge of Vanadium Production by X-Ray Spectroscopy. <b>2017</b> , 53, 1399-1404   | 2  |
| 1379 | Properties of Zirconium Oxide and Cobalt Ferrite Layered Nanocomposite. <b>2017</b> , 6, P886-P892   | 2  |
| 1378 | Electron Conduction of Nd0.6Sr0.4FeO3IThin Film with Oxygen Vacancies Prepared by RF Magnetron Sputtering. <b>2017</b> , 86, 074704  | 1  |
| 1377 | The electrochemistry of iron oxide thin films nanostructured by high ion flux plasma exposure. <b>2017</b> , 258, 709-717  | 13 |
| 1376 | Synthesis and characterization of aniline-dimer-based electroactive benzoxazine and its polymer. <b>2017</b> , 7, 55796-55806  | 12 |
| 1375 | Effect of synthesis conditions on the structure and properties of new SiC x N y M z materials for spintronics. <b>2017</b> , 58, 1493-1502   | 2  |
| 1374 | Mechanochemical synthesis of highly dispersed iron oxide from metallic powders in manufacture of catalysts. <b>2017</b> , 90, 1068-1074  |    |
| 1373 | Tuning Properties of Iron Oxide Nanoparticles in Aqueous Synthesis without Ligands to Improve MRI Relaxivity and SAR. <b>2017</b> , 7,   | 21 |
| 1372 | Pure and Fe-Doped Mesoporous Titania Catalyse the Oxidation of Acid Orange 7 by H2O2 under Different Illumination Conditions: Fe Doping Improves Photocatalytic Activity under Simulated Solar Light. <b>2017</b> , 7, 213 | 21 |
| 1371 | Electrochemical analysis on the potential decay behavior of Fe-20Cr stainless steels in sulfuric acid solution. <b>2018</b> , 266, 1-6   | 4  |
| 1370 | TiO nanotubes with different spacing, FeO decoration and their evaluation for Li-ion battery application. <b>2018</b> , 29, 195402   | 19 |
| 1369 | Feasibility of Electrostatic-Mediated Post -Functionalization to Induce Long Term Colloidal Stability and Stability After Freeze Drying of Amphoteric Nanoparticles. <b>2018</b> , 23, 14-20                               | 6  |
| 1368 | Kinetic and Mechanistic Evaluation of Inorganic Arsenic Species Adsorption onto Humic Acid Grafted Magnetite Nanoparticles. <b>2018</b> , 122, 13540-13547   | 37 |
| 1367 | Tunable Synthesis of Hierarchical Superparamagnetic Fe3O4 Nanospheres by a Surfactant-Free Solvothermal Method. <b>2018</b> , 31, 2959-2967  | 2  |

| 1366 | Ni and Co doped yolk-shell type Fe 2 O 3 hollow microspheres as anode materials for lithium-ion batteries. <b>2018</b> , 211, 452-461   | 14  |
|------|---|-----|
| 1365 | Core-shell microspheres for the ultrafast degradation of estrogen hormone at neutral pH 2018, 8, 5840-5847  | 11  |
| 1364 | FeZnS ternary solid solution as an efficient Fenton-like catalyst for ultrafast degradation of phenol. <b>2018</b> , 353, 393-400   | 40  |
| 1363 | Modification of Structural, Chemical and Process Properties of Rare Metal Minerals under Treatment by High-Voltage Nanosecond Pulses. <b>2018</b> , 53, 718-733                           | 5   |
| 1362 | Synthesis and electrochemical properties of NH 4 FePO 4 H 2 O as a novel anode material. <b>2018</b> , 225, 69-72   | 4   |
| 1361 | Structural, optical and magnetic properties of Fe-doped CeO2 samples probed using X-ray photoelectron spectroscopy. <b>2018</b> , 29, 10141-10153   | 28  |
| 1360 | Phosphine plasma activation of Fe2O3 for high energy asymmetric supercapacitors. <b>2018</b> , 49, 155-162  | 123 |
| 1359 | Yttrium-doped hematite photoanodes for solar water splitting: Photoelectrochemical and electronic properties. <b>2018</b> , 44, 13218-13225   | 11  |
| 1358 | Metal Organic Framework with Coordinatively Unsaturated Sites as Efficient Fenton-like Catalyst for Enhanced Degradation of Sulfamethazine. <b>2018</b> , 52, 5367-5377                   | 271 |
| 1357 | Fluoride doped FeO nanoparticles with increased MRI relaxivity. <b>2018</b> , 6, 3665-3673  | 3   |
| 1356 | Catalytic Conversion of Carbohydrates into 5-Ethoxymethylfurfural by a Magnetic Solid Acid Using EValerolactone as a Co-Solvent. <b>2018</b> , 6, 1951-1958                               | 19  |
| 1355 | Effective cancer immunotherapy in mice by polyIC-imiquimod complexes and engineered magnetic nanoparticles. <b>2018</b> , 170, 95-115   | 56  |
| 1354 | Corrosive effects of smoke with different concentrations from PVC on 304 stainless steel and 6061 aluminium alloy. <b>2018</b> , 53, 141-152  | 1   |
| 1353 | Study on the effects of cations and anions on the removal of perfluorooctane sulphonate by nanofiltration membrane. <b>2018</b> , 202, 385-396  | 11  |
| 1352 | Three-Dimensional Macroporous Alginate Scaffolds Embedded with Akaganeite Nanorods for the Filter-Based High-Speed Preparation of Arsenic-Free Drinking Water. <b>2018</b> , 1, 1940-1948 | 13  |
| 1351 | Iron and cobalt hydroxides: Describing the oxygen evolution reaction activity trend with the amount of electrocatalyst. <b>2018</b> , 274, 224-232  | 2   |
| 1350 | Study of Cr(VI) adsorption onto magnetite nanoparticles using synchrotron-based X-ray absorption spectroscopy. <b>2018</b> , 45, 907-913  | 3   |
| 1349 | Facile hydrothermal synthesis of FeO@cellulose aerogel nanocomposite and its application in Fenton-like degradation of Rhodamine B. <b>2018</b> , 189, 371-378                            | 77  |

## (2018-2018)

| 1348 | Zero-valent iron nanoparticles supported by functionalized waste rock wool for efficient removal of hexavalent chromium. <b>2018</b> , 339, 85-96  | 45  |
|------|--|-----|
| 1347 | Oxalate enhanced degradation of Orange II in heterogeneous UV-Fenton system catalyzed by FeO@FeO composite. <b>2018</b> , 199, 147-153   | 24  |
| 1346 | A two-step synthesis of nanosheet-covered fibers based on ⊞eO/NiO composites towards enhanced acetone sensing. <b>2018</b> , 8, 1705   | 41  |
| 1345 | Template-Free Synthesis of Hollow Iron Phosphide <b>P</b> hosphate Composite Nanotubes for Use as Active and Stable Oxygen Evolution Electrocatalysts. <b>2018</b> , 1, 617-624                            | 47  |
| 1344 | Highly Active Trimetallic NiFeCr Layered Double Hydroxide Electrocatalysts for Oxygen Evolution Reaction. <b>2018</b> , 8, 1703189   | 342 |
| 1343 | Critical role and modification of surface states in hematite films for enhancing oxygen evolution activity. <b>2018</b> , 33, 455-466  | 32  |
| 1342 | Influence of a thin aluminum hydroxide coating layer on the suspension stability and reductive reactivity of nanoscale zero-valent iron. <b>2018</b> , 226, 554-564  | 32  |
| 1341 | Eco-friendly preparation of a magnetic catalyst for glucose oxidation combining the properties of nanometal particles and specific enzyme. <b>2018</b> , 149, 1179-1188                                    | 7   |
| 1340 | Physicochemical properties of air discharge-generated manganese oxide nanoparticles: Comparison to welding fumes. <b>2018</b> , 2018, 696-707  | 10  |
| 1339 | Electrochemical detection of influenza virus H9N2 based on both immunomagnetic extraction and gold catalysis using an immobilization-free screen printed carbon microelectrode. <b>2018</b> , 107, 170-177 | 50  |
| 1338 | Inhibition effect and mechanism of sodium oleate on passivation and pitting corrosion of steel in simulated concrete pore solution. <b>2018</b> , 167, 197-204   | 17  |
| 1337 | High and stable catalytic activity of Ag/Fe2O3 catalysts derived from MOFs for CO oxidation. <b>2018</b> , 447, 80-89  | 128 |
| 1336 | Synthesis and electrochemical properties of electroactive aniline-dimer-based benzoxazines for advanced corrosion-resistant coatings. <b>2018</b> , 53, 7344-7356  | 16  |
| 1335 | FeOOH and amorphous NiMn hydroxide on carbon nanofoam paper electrodes for hybrid supercapacitors. <b>2018</b> , 6, 2612-2624  | 47  |
| 1334 | Bifunctional Oxygen Reduction/Oxygen Evolution Activity of Mixed Fe/Co Oxide Nanoparticles with Variable Fe/Co Ratios Supported on Multiwalled Carbon Nanotubes. <b>2018</b> , 11, 1204-1214               | 36  |
| 1333 | Synergistic Hematite-Fullerene Electron-Extracting Layers for Improved Efficiency and Stability in Perovskite Solar Cells. <b>2018</b> , 5, 726-731  | 66  |
| 1332 | IronDeria spinel (FeCe2O4) catalyst for dry reforming of propane to inhibit carbon formation. <b>2018</b> , 61, 142-151  | 15  |
| 1331 | Starbon/High-Amylose Corn Starch-Supported N-Heterocyclic Carbene-Iron(III) Catalyst for Conversion of Fructose into 5-Hydroxymethylfurfural. <b>2018</b> , 11, 716-725                                    | 18  |

| 1330 | Z-Scheme in a Co3(PO4)2/Fe2O3 photocatalysis system for overall water splitting under visible light. <b>2018</b> , 8, 840-846  | 33 |
|------|--|----|
| 1329 | Iron molybdate thin films prepared by sputtering and their electrochemical behavior in Li batteries. <b>2018</b> , 735, 1454-1462  | 6  |
| 1328 | Background electrolytes and pH effects on selenate adsorption using iron-impregnated granular activated carbon and surface binding mechanisms. <b>2018</b> , 195, 166-174                      | 14 |
| 1327 | d,l-lysine functionalized FeO nanoparticles for detection of cancer cells. <b>2018</b> , 163, 236-245  | 27 |
| 1326 | Oxygen reduction electrocatalysis on transition metal-nitrogen modified tungsten carbide nanomaterials. <b>2018</b> , 810, 222-231   | 16 |
| 1325 | Enhanced heterogeneous Fenton-like degradation of methylene blue by reduced CuFeO <b>2018</b> , 8, 1071-1077   | 70 |
| 1324 | SrTaO2N Nanowire Photoanode Modified with a Ferrihydrite Hole-Storage Layer for Photoelectrochemical Water Oxidation. <b>2018</b> , 1, 869-876   | 19 |
| 1323 | The transformation and migration of selenium in soil under different Eh conditions. <b>2018</b> , 18, 2935-2947  | 10 |
| 1322 | Acidic Peptizing Agent Effect on Anatase-Rutile Ratio and Photocatalytic Performance of TiO2<br>Nanoparticles. <b>2018</b> , 13, 48  | 28 |
| 1321 | Construction of p-n heterojunction film of CuO/FeO for efficiently photoelectrocatalytic degradation of oxytetracycline. <b>2018</b> , 526, 470-479  | 57 |
| 1320 | The chemical identity, state and structure of catalytically active centers during the electrochemical CO reduction on porous Fe-nitrogen-carbon (Fe-N-C) materials. <b>2018</b> , 9, 5064-5073 | 82 |
| 1319 | Pure phase BiFeO3 thin films sputtered over Si: A new route towards high magnetization. <b>2018</b> , 460, 83-88   | 9  |
| 1318 | One-pot low-temperature green synthesis of magnetic graphene nanocomposite for the selective reduction of nitrobenzene. <b>2018</b> , 262, 287-293   | 3  |
| 1317 | Friction and wear behavior of TiN films against ceramic and steel balls. <b>2018</b> , 124, 61-69  | 38 |
| 1316 | Ru/FeOx catalyst performance design: Highly dispersed Ru species for selective carbon dioxide hydrogenation. <b>2018</b> , 39, 157-166   | 7  |
| 1315 | Nanoaggregates of iron poly-oxo-clusters obtained by laser ablation in aqueous solution of phosphonates. <b>2018</b> , 522, 208-216  | 12 |
| 1314 | Improved performance of Mn ion substituted Ceria nanospheres for water gas shift reaction: Influence of preparation conditions. <b>2018</b> , 103, 309-318                                     | 3  |
| 1313 | Rapid Synthesis and Correlative Measurements of Electrocatalytic Nickel/Iron Oxide Nanoparticles. <b>2018</b> , 8, 4584  | 11 |

| 1312 | Tinidazole degradation assisted by solar radiation and iron-doped silica xerogels. <b>2018</b> , 344, 21-33  | 26 |
|------|--|----|
| 1311 | Single BiFeO3 and mixed BiFeO3/Fe2O3/Bi2Fe4O9 ferromagnetic photocatalysts for solar light driven water oxidation and dye pollutants degradation. <b>2018</b> , 63, 437-448  | 26 |
| 1310 | Synergistic effect of iron diselenide decorated multi-walled carbon nanotubes for enhanced heterogeneous electron transfer and electrochemical hydrogen evolution. <b>2018</b> , 270, 138-146  | 12 |
| 1309 | Steel-based electrocatalysts for efficient and durable oxygen evolution in acidic media. <b>2018</b> , 8, 2104-2116  | 21 |
| 1308 | In vitro cytotoxicity of iron oxide nanoparticles: effects of chitosan and polyvinyl alcohol as stabilizing agents. <b>2018</b> , 5, 035051  | 9  |
| 1307 | Synthesis of light olefins and alkanes on supported iron oxide catalysts. <b>2018</b> , 299, 47-59   | 9  |
| 1306 | Synthesis, characterization and physicochemical studies of new chelating resin 1, 8-(3, 6-dithiaoctyl)-4-polyvinylbenzenesulphonate (dpvbs) and its metallopolymer Cu(II), Ni(II), Co(II) and Fe(III) complexes. <b>2018</b> , 1154, 100-113 | 7  |
| 1305 | Design and fabrication of N-doped graphene decorated LiFePO4@C composite as a potential cathode for electrochemical energy storage. <b>2018</b> , 44, 464-470  | 12 |
| 1304 | Surface modification of iron oxides by ion bombardment ©comparing depth profiling by HAXPES and Ar ion sputtering. <b>2018</b> , 224, 23-26  | 18 |
| 1303 | Combinatorial screening of photoanode materials - Uniform platform for compositional arrays and macroscopic electrodes. <b>2018</b> , 259, 204-212   | 8  |
| 1302 | Comparative Studies of Mesoporous Fe2O3/Al2O3 and Fe2O3/SiO2 Fabricated by Temperature-Regulated Chemical Vapour Deposition as Catalysts for Acetaldehyde Oxidation. <b>2018</b> , 148, 454-464  | 9  |
| 1301 | Effects of rare earth doping on multi-core iron oxide nanoparticles properties. <b>2018</b> , 428, 492-499   | 17 |
| 1300 | Development of sludge-derived mesoporous material with loaded nano CaO2 and doped Fe for re-utilization of dewatered waste-activated sludge as dewatering aids. <b>2018</b> , 335, 161-168   | 15 |
| 1299 | In-situ Raman and X-ray photoelectron spectroscopic studies on the pitting corrosion of modified 9Cr-1Mo steel in neutral chloride solution. <b>2018</b> , 428, 1106-1118  | 29 |
| 1298 | Amorphous NiFeB nanoparticles realizing highly active and stable oxygen evolving reaction for water splitting. <b>2018</b> , 11, 1664-1675   | 94 |
| 1297 | Graphene oxide-decorated Fe2(MoO4)3 microflowers as a promising anode for lithium and sodium storage. <b>2018</b> , 11, 1285-1293  | 18 |
| 1296 | One-step and acid free synthesis of Fe 2 O 3 /SBA-15 for enhanced arsenic removal. <b>2018</b> , 258, 26-32  | 25 |
| 1295 | Iron-substituted cubic silsesquioxane pillared clays: Synthesis, characterization and acid catalytic activity. <b>2018</b> , 510, 395-406  | 10 |

| 1294 | Superior lithium adsorption and required magnetic separation behavior of iron-doped lithium ion-sieves. <b>2018</b> , 332, 160-168   | 47 |
|------|--|----|
| 1293 | Significant improvement in visible light photocatalytic activity of Fe doped TiO2 using an acid treatment process. <b>2018</b> , 427, 791-799  | 75 |
| 1292 | Cascade synthesis of dihydrobenzofuran via Claisen rearrangement of allyl aryl ethers using FeCl 3 /MCM-41 catalyst. <b>2018</b> , 22, 396-404   | 3  |
| 1291 | An Fe(II) metalorganic framework as a visible responsive photo-Fenton catalyst for the degradation of organophosphates. <b>2018</b> , 42, 29-33  | 17 |
| 1290 | Effective reduction of p-nitrophenol by silver nanoparticle loaded on magnetic Fe3O4/ATO nano-composite. <b>2018</b> , 435, 599-608  | 27 |
| 1289 | The effect of Na2S additive in alkaline electrolyte on improved performances of Fe-based air batteries. <b>2018</b> , 259, 196-203   | 19 |
| 1288 | Influence of the Fe:Ni Ratio and Reaction Temperature on the Efficiency of (FexNi1☑)9S8 Electrocatalysts Applied in the Hydrogen Evolution Reaction. <b>2018</b> , 8, 987-996  | 90 |
| 1287 | Electrochemically synthesized 1D and 3D hybrid Fe3+ doped ZnSe dandelions for photoelectrochemical cell application. <b>2018</b> , 158, 53-63  | 11 |
| 1286 | Sodium-Rich Ferric Pyrophosphate Cathode for Stationary Room-Temperature Sodium-Ion Batteries. <b>2018</b> , 10, 502-508   | 30 |
| 1285 | Elucidation of the opto-electronic and photoelectrochemical properties of FeVO4 photoanodes for solar water oxidation. <b>2018</b> , 6, 548-555  | 38 |
| 1284 | Benchmarking the Oxygen Reduction Electroactivity of First-Row Transition-Metal Oxide Clusters on Carbon Nanotubes. <b>2018</b> , 5, 1862-1867   | 7  |
| 1283 | Hierarchically Structured Ni Nanotube Array-Based Integrated Electrodes for Water Splitting. <b>2018</b> , 6, 2069-2077  | 24 |
| 1282 | Electrochemical properties of uniquely structured Fe2O3 and FeSe2/graphitic-carbon microrods synthesized by applying a metal-organic framework. <b>2018</b> , 334, 2440-2449   | 46 |
| 1281 | Atomic-Scale Structure of the Hematite FeO(11 02) "R-Cut" Surface. <b>2018</b> , 122, 1657-1669  | 59 |
| 1280 | Comment on Designed oxygen carriers from macroporous LaFeO3 supported CeO2 for chemical-looping reforming of methane[lby Zheng et al. [Appl. Catal. B: Environ., 202 (2017) 5183. doi: 10.1016/j.apcatb.2016.08.024]. 2018, 224, 419-423 | 1  |
| 1279 | Calcium containing iron oxide as an efficient and robust catalyst in (photo-)electrocatalytic water oxidation at neutral pH. <b>2018</b> , 2, 271-279  | 13 |
| 1278 | Remarkably enhanced water splitting activity of nickel foam due to simple immersion in a ferric nitrate solution. <b>2018</b> , 11, 3959-3971  | 45 |
| 1277 | Passivity of stainless steel in sulphuric acid under chemical oxidation. <b>2018</b> , 53, 173-182   | 7  |

| 1276 | Nano-Flotillas MnFe2O4@Au Core-Shell Nanoparticles: An Efficient MRI Contrast Agent, Magneto-hyperthermal and Drug-Delivery Armada for Cancer. <b>2018</b> , 139-159             | 1  |
|------|--|----|
| 1275 | Fe $0.88$ Cr $0.12$ and Fe $0.85$ Cr $0.15$ alloys exposed to air at $870\mathrm{K}$ studied by TMS, CEMS and XPS. <b>2018</b> , 528, 27-36                                      | 5  |
| 1274 | Reforming sewage sludge pyrolysis volatile with Fe-embedded char: Minimization of liquid product yield. <b>2018</b> , 73, 464-475  | 31 |
| 1273 | Analytical Techniques for Probing Small-Scale Layers that Preserve Information on GasBolid Interactions. <b>2018</b> , 84, 103-175   | 11 |
| 1272 | Visible-Light Induced Photodegradation of Organic Contaminants in Water Using Fe3O4 Nanoparticles Modified Polypyrrole/Fly Ash Cenosphere Composite. <b>2018</b> , 92, 2853-2860 | 2  |
| 1271 | Self-assembled 3D flower-like Fe3O4/C architecture with superior lithium ion storage performance. <b>2018</b> , 6, 24940-24948   | 62 |
| 1270 | Formation of Nanocomposites on the Surface of Silicon Carbide Crystals under Impact of Iron Fluxes. <b>2018</b> , 63, 989-993  |    |
| 1269 | Electric-field control of magnetic properties for amorphous Fe2O3/LiTaO3 thin film. 2018, 6, 11608-11614   | 6  |
| 1268 | Roles of Microbial Activity and Anthraquinone-2,7-disulfonate as a Model of Humic Substances in Leaching of Iron from Hematite into Seawater. <b>2018</b> , 34, 1303-1308        | 5  |
| 1267 | 4. Analytical Techniques for Probing Small-Scale Layers that Preserve Information on GasBolid Interactions. <b>2018</b> , 103-176  |    |
| 1266 | Full-Spectrum Photocatalytic Activity of ZnO/CuO/ZnFe2O4 Nanocomposite as a PhotoFenton-Like Catalyst. <b>2018</b> , 8, 557  | 18 |
| 1265 | Novel multi walled carbon nanotube based nitrogen impregnated Co and Fe cathode catalysts for improved microbial fuel cell performance. <b>2018</b> , 43, 23027-23035            | 43 |
| 1264 | Biofunctionalized MnFeO@Au core-shell nanoparticles for pH-responsive drug delivery and hyperthermal agent for cancer therapy. <b>2018</b> , 46, S993-S1003                      | 11 |
| 1263 | Formation of polar phase in Fe-doped ZrO2 epitaxial thin films. <b>2018</b> , 113, 262903  | 7  |
| 1262 | Chemistry of black leaf films synthesised using rail steels and their influence on the low friction mechanism <b>2018</b> , 8, 32506-32521                                       | 7  |
| 1261 | Discerning the Redox-Dependent Electronic and Interfacial Structures in Electroactive Self-Assembled Monolayers. <b>2018</b> , 140, 13672-13679                                  | 24 |
| 1260 | Modifying the structure of red mud by simple treatments for high and stable performance in COx-free hydrogen production from ammonia. <b>2018</b> , 43, 20525-20537              | 5  |
| 1259 | Ferroelectric, magnetic, and optical properties of Aurivillius compound Bi5FeTi2.5Co0.5O15. <b>2018</b> , 4, 353-359   | 3  |

| 1258 | Magnetism in BiFe1⊠NixO3: studied through electron spin resonance spectroscopy. <b>2018</b> , 29, 20595-20602   | 1  |
|------|---|----|
| 1257 | Shape-Controlled Synthesis of Metal-Organic Frameworks with Adjustable Fenton-Like Catalytic Activity. <b>2018</b> , 10, 38051-38056  | 24 |
| 1256 | Trace Element Partitioning Dualism under Mineral <b>E</b> luid Interaction: Origin and Geochemical Significance. <b>2018</b> , 8, 282   | 15 |
| 1255 | Reduction of Cr(VI) with a relative high concentration using different kinds of zero-valent iron powders: Focusing on effect of carbon content and structure on reducibility. <b>2018</b> , 25, 2119-2130     | 4  |
| 1254 | Structural and magnetic properties of Ce3+-substituted Sr-ferrites synthesized by low-temperature calcination ceramic method. <b>2018</b> , 29, 20433-20438   | О  |
| 1253 | Limitation of Fermi level shifts by polaron defect states in hematite photoelectrodes. <b>2018</b> , 9, 4309  | 65 |
| 1252 | Effective Photocatalytic Activity of Mixed Ni/Fe-Base Metal-Organic Framework under a Compact Fluorescent Daylight Lamp. <b>2018</b> , 8, 487   | 39 |
| 1251 | On the Structure of Ultrathin FeO Films on Ag(111). <b>2018</b> , 8,  | 6  |
| 1250 | Substantial magnetoelectric coupling in nanocrystalline-Fe2TeO6 at room temperature. <b>2018</b> , 124, 164110  | 5  |
| 1249 | Investigation of iron reduction by green tea polyphenols. <b>2018</b> , 97, 263-269   | 17 |
| 1248 | Hierarchical coral-like FeNi(OH)x/Ni via mild corrosion of nickel as an integrated electrode for efficient overall water splitting. <b>2018</b> , 39, 1736-1745   | 26 |
| 1247 | A Magnetic Adsorbent for the Removal of Cationic Dyes from Wastewater. <b>2018</b> , 8,   | 21 |
| 1246 | Electrical resistivity modulation of thermoelectric iron based nanocomposites. <b>2018</b> , 157, 384-390   |    |
| 1245 | Secondary ion mass spectrometry (SIMS) with Bi3+ primary ions as a sensitive probe of surface structures of heterogeneous catalysts. <b>2018</b> , 433, 47-54   | 5  |
| 1244 | Surface crystallization tendency of Na2FeP2O7 glass. <b>2018</b> , 126, 563-567   | 7  |
| 1243 | Low-Temperature Assembly of Ultrathin Amorphous MnO Nanosheets over FeO Spindles for Enhanced Lithium Storage. <b>2018</b> , 10, 30470-30478  | 21 |
| 1242 | Magnetic ground state of the multiferroic hexagonal LuFeO3. <b>2018</b> , 97,   | 20 |
| 1241 | Surface functionalization of Fe3O4@SiO2 core-shell nanoparticles with vinylimidazole-rare earth complexes: Synthesis, physico-chemical properties and protein interaction effects. <b>2018</b> , 453, 457-463 | 9  |

| 1240 | Investigation of the High-Temperature Spin-Transition of a Mononuclear Iron(II) Complex Using X-ray Photoelectron Spectroscopy. <b>2018</b> , 57, 6503-6510  | 5   |
|------|--|-----|
| 1239 | One-Pot Solvothermal Preparation of Fe3O4DrushiolCraphene Hybrid Nanocomposites for Highly Improved Fenton Reactions. <b>2018</b> , 1, 2754-2762   | 19  |
| 1238 | Electric-field control of magnetic properties for Fe2O3/Al2O3 films. 2018, 51, 235002  | 5   |
| 1237 | Transition Metal Ion (Mn, Fe, Co, and Ni)-Doped Carbon Dots Synthesized via Microwave-Assisted Pyrolysis: A Potential Nanoprobe for Magneto-fluorescent Dual-Modality Bioimaging. <b>2018</b> , 4, 2582-2596 | 56  |
| 1236 | High thermochromic performance of Fe/Mg co-doped VO2 thin films for smart window applications. <b>2018</b> , 6, 6502-6509  | 41  |
| 1235 | Bifunctional electrocatalysts for oxygen reduction/evolution reactions derived from NiCoFe LDH materials. <b>2018</b> , 48, 947-957  | 8   |
| 1234 | Electrical property and temperature sensitivity of NiFe2 $\square$ Sb x O4 (x $\square$ 0.02) ceramics for negative temperature coefficient thermistors. <b>2018</b> , 29, 11637-11645                       | 8   |
| 1233 | Acrolein production from methanol and ethanol mixtures over La- and Ce-doped FeMo catalysts. <b>2018</b> , 237, 149-157  | 6   |
| 1232 | A general gelatin-assisted strategy to hierarchical porous transition metal oxides with excellent lithium-ion storage. <b>2018</b> , 279, 66-73  | 15  |
| 1231 | Promoting Oxygen Evolution Reactions through Introduction of Oxygen Vacancies to Benchmark NiFeDOH Catalysts. <b>2018</b> , 3, 1515-1520   | 157 |
| 1230 | Activated magnetic biochar by one-step synthesis: Enhanced adsorption and coadsorption for 17Eestradiol and copper. <b>2018</b> , 639, 1530-1542   | 92  |
| 1229 | Influence of the aging time on the microstructure and electrochemical behaviour of a 15-5PH ultra-high strength stainless steel. <b>2018</b> , 139, 185-196  | 38  |
| 1228 | Adsorption and performance of ammonium-based ionic liquids as corrosion inhibitors of steel. <b>2018</b> , 265, 151-163  | 76  |
| 1227 | Advanced oxidation of biorefractory organics in aqueous solution together with bioelectricity generation by microbial fuel cells with composite FO/GPEs. <b>2018</b> , 127, 012015                           | 2   |
| 1226 | Promotional effects of multiwalled carbon nanotubes on iron catalysts for Fischer-Tropsch to olefins. <b>2018</b> , 365, 71-85   | 41  |
| 1225 | High-performance iron (III) oxide electrocatalyst for water oxidation in strongly acidic media. <b>2018</b> , 365, 29-35   | 31  |
| 1224 | Fe incorporation into hydroxyapatite channels by Fe loading and post-annealing. 2018, 265, 411-416   | 2   |
| 1223 | Insights into the simultaneous removal of Cr and Pb by a novel sewage sludge-derived biochar immobilized nanoscale zero valent iron: Coexistence effect and mechanism. <b>2018</b> , 642, 505-515            | 93  |

| 1222         | Impedance analysis of film-forming amines for the corrosion protection of a carbon steel. <b>2018</b> , 283, 699-707  | 35  |
|--------------|---|-----|
| 1221         | Heterostructured Fe2O3@SnO2 coreBhell nanospindles for enhanced Room-temperature HCHO oxidation. <b>2018</b> , 457, 83-92   | 19  |
| 1220         | Surface characterization of microwave-treated chalcopyrite. <b>2018</b> , 555, 407-417  | 15  |
| 1219         | Iron Fluoride¶arbon Nanocomposite Nanofibers as Free-Standing Cathodes for High-Energy Lithium Batteries. <b>2018</b> , 28, 1801711   | 65  |
| 1218         | Mono-Atomic Fe Centers in Nitrogen/Carbon Monolayers for Liquid-Phase Selective Oxidation Reaction. <b>2018</b> , 10, 3539-3545   | 9   |
| 1217         | FeP nanorod arrays on carbon cloth: a high-performance anode for sodium-ion batteries. <b>2018</b> , 54, 9341-9344  | 76  |
| 1216         | In situ XPS study on atomic layer etching of Fe thin film using Cl2 and acetylacetone. <b>2018</b> , 36, 051401   | 10  |
| 1215         | Retention of U(VI) by the Formation of Fe Precipitates from Oxidation of Fe(II). <b>2018</b> , 2, 968-976   | 15  |
| 1214         | Zinc ferrum energy storage chemistries with high efficiency and long cycling life. <b>2018</b> , 6, 15821-15827   | 5   |
| 1213         | Activated carbon impregnated by zero-valent iron nanoparticles (AC/nZVI) optimized for simultaneous adsorption and reduction of aqueous hexavalent chromium: Material characterizations and kinetic studies. <b>2018</b> , 353, 781-795 | 120 |
| 1212         | Comprehensive Hg/Br reaction chemistry over Fe2O3 surface during coal combustion. <b>2018</b> , 196, 210-222  | 25  |
| 1211         | A novel anode for solid oxide fuel cells prepared from phase conversion of La0.3Sr0.7Fe0.7Cr0.3O3-perovskite under humid hydrogen. <b>2018</b> , 284, 303-313   | 11  |
| <b>121</b> 0 | Mechanism of heterogeneous activation of persulfate with FeOCl under visible light irradiation. <b>2018</b> , 33, 3549-3558   | 11  |
| 1209         | In-Situ Liquid Hydrogenation of m-Chloronitrobenzene over Fe-Modified Pt/Carbon Nanotubes Catalysts. <b>2018</b> , 8, 62  | 6   |
| 1208         | Proton Conduction in Grain-Boundary-Free Oxygen-Deficient BaFeO Thin Films. 2017, 11,   | 15  |
| 1207         | Degradation of Methylene Blue Dye in the Presence of Visible Light Using SiO@年e如日<br>Nanocomposites Deposited on SnSIFlowers. <b>2018</b> , 11,   | 79  |
| 1206         | Easy Synthesis and Characterization of Holmium-Doped SPIONs. <b>2018</b> , 8,   | 16  |
| 1205         | Electronic properties of ferrocenyl-terpyridine coordination complexes: An electrochemical and X-ray photoelectron spectroscopic approach. <b>2018</b> , 482, 514-521   | 13  |

| 1204 | Annealing effect of NiO/Co90Fe10 thin films: From bilayer to nanocomposite. 2018, 382, 2886-2893  | 4   |
|------|---|-----|
| 1203 | Functional polyaspartic acid derivatives as eco-friendly corrosion inhibitors for mild steel in 0.5 M HSO solution <b>2018</b> , 8, 24970-24981   | 22  |
| 1202 | Processing, dielectric and impedance spectroscopy of lead free BaTiO3-BiFeO3-CaSnO3. <b>2018</b> , 766, 25-32   | 32  |
| 1201 | Cobalt-iron (oxides) water oxidation catalysts: Tracking catalyst redox states and reaction dynamic mechanism. <b>2018</b> , 365, 227-237   | 16  |
| 1200 | Fast nitrate and fluoride adsorption and magnetic separation from water on ⊞eO and FeO dispersed on Douglas fir biochar. <b>2018</b> , 263, 258-265   | 135 |
| 1199 | Waste Carton-Derived Nanocomposites for Efficient Removal of Hexavalent Chromium. <b>2018</b> , 34, 5955-5963   | 20  |
| 1198 | Maghemite Nanoparticles with Enhanced Magnetic Properties: One-Pot Preparation and Ultrastable Dextran Shell. <b>2018</b> , 10, 20271-20280   | 12  |
| 1197 | Conversion of Iron Ore into an Active Catalyst for the Oxygen Evolution Reaction. <b>2018</b> , 2, 1800019  | 8   |
| 1196 | Catalyst Support Effect on the Activity and Durability of Magnetic Nanoparticles: toward Design of Advanced Electrocatalyst for Full Water Splitting. <b>2018</b> , 10, 31300-31311             | 45  |
| 1195 | A highly reactive precursor in the iron sulfide system. <b>2018</b> , 9, 3125   | 52  |
| 1194 | A Non-van der Waals Two-Dimensional Material from Natural Titanium Mineral Ore Ilmenite. <b>2018</b> , 30, 5923-5931  | 45  |
| 1193 | Iron impregnated biochars as heterogeneous Fenton catalyst for the degradation of acid red 1 dye. <b>2018</b> , 226, 320-328  | 62  |
| 1192 | Corrosion investigation of the 18Ni 300 grade maraging steel in aqueous chloride medium containing H2S and CO2. <b>2018</b> , 286, 339-349  | 20  |
| 1191 | Na0.97KFe(SO4)2: an iron-based sulfate cathode material with outstanding cyclability and power capability for Na-ion batteries. <b>2018</b> , 6, 17095-17100                                    | 13  |
| 1190 | Synergistic In-Layer Cobalt Doping and Interlayer Iron Intercalation into Layered MnO2 Produces an Efficient Water Oxidation Electrocatalyst. <b>2018</b> , 3, 2280-2285                        | 21  |
| 1189 | The self-assembly and metal adatom coordination of a linear bis-tetrazole ligand on Ag(111). <b>2018</b> , 54, 10072-10075  | 5   |
| 1188 | Corrigendum to Comparative investigations of stainless steel and molybdenum first mirrors cleaning using radio frequency plasma[Fusion Eng. Des. 112 (2016) 317B23]. <b>2018</b> , 130, 156-157 | О   |
| 1187 | Eco-Friendly Cavity-Containing Iron Oxides Prepared by Mild Routes as Very Efficient Catalysts for the Total Oxidation of VOCs. <b>2018</b> , 11,   | 13  |

| 1186 | Systematic study of electronic properties of Fe-doped TiO2 nanoparticles by X-ray photoemission spectroscopy. <b>2018</b> , 29, 17956-17966   | 13 |
|------|---|----|
| 1185 | Wetting of liquid lithium on fusion-relevant materials microtextured by femtosecond laser exposure. <b>2018</b> , 508, 237-248  | 11 |
| 1184 | Oxidation Resistance of Highly Porous Fe-Al Foams Prepared by Thermal Explosion. 2018, 49, 3683-3691  | 8  |
| 1183 | Modulating the Electrocatalytic Performance of Palladium with the Electronic Metal Support Interaction: A Case Study on Oxygen Evolution Reaction. <b>2018</b> , 8, 6617-6626                                   | 40 |
| 1182 | Adsorption capacities of poorly crystalline Fe minerals for antimonate and arsenate removal from water: adsorption properties and effects of environmental and chemical conditions. <b>2018</b> , 20, 2169-2179 | 4  |
| 1181 | Tuning the CoreBhell Structure of Au144@Fe2O3 for Optimal Catalytic Activity for CO Oxidation. <b>2018</b> , 148, 2315-2324   | 2  |
| 1180 | Species-Specific Uptake of Arsenic on Confined Metastable 2-Line Ferrihydrite: A Combined Raman-X-Ray Photoelectron Spectroscopy Investigation of the Adsorption Mechanism. <b>2018</b> , 6, 9990-10000         | 22 |
| 1179 | Electrochemically synthesized nanostructured iron carbide/carbon composite as a low-cost counter electrode for dye-sensitized solar cells. <b>2018</b> , 396, 213-219   | 16 |
| 1178 | A´surface-modified antiperovskite as´an electrocatalyst for water oxidation. <b>2018</b> , 9, 2326  | 59 |
| 1177 | Bottom-up self-assembly of nano-netting cluster microspheres as high-performance lithium storage materials. <b>2018</b> , 6, 13321-13330  | 14 |
| 1176 | Magnetic properties of superparamagnetic, nanocrystalline cobalt ferrite thin films deposited at low temperature. <b>2018</b> , 465, 590-597  | 10 |
| 1175 | Potassium Ferrate(VI) as a Highly Efficient and Environmentally Friendly Chemiluminescence Reagent in Acidic Solution. <b>2019</b> , 91, 12255-12259  | 6  |
| 1174 | Degradation Mechanism of Conversion-Type Iron Trifluoride: Toward Improvement of Cycle Performance. <b>2019</b> , 11, 30959-30967   | 14 |
| 1173 | Improved Catalytic Performance of Au/FeO-Like-Worm Catalyst for Low Temperature CO Oxidation. <b>2019</b> , 9,  | 9  |
| 1172 | Influence of Mg-deficiency on the functional properties of magnesium ferrite anode material. <b>2019</b> , 341, 115042  | 19 |
| 1171 | Ambient-temperature catalytic degradation of aromatic compounds on iron oxide nanorods supported on carbon nanofiber sheet. <b>2019</b> , 259, 118066   | 15 |
| 1170 | A molecular precursor route to quaternary chalcogenide CFTS (CuFeSnS) powders as potential solar absorber materials <b>2019</b> , 9, 24146-24153  | 12 |
| 1169 | Elastomer Reinforced with Innate Sulfur-Based Cross-Links as Ligands. <b>2019</b> , 8, 1091-1095  | 9  |

| 1168 | High temperature spin reorientation, magnetization reversal and magnetocaloric effect in 50% Mn substituted polycrystalline ErFeO3. <b>2019</b> , 279, 120910                                   | 9  |
|------|---|----|
| 1167 | DFT + U and Low-Temperature XPS Studies of Fe-Depleted Chalcopyrite (CuFeS2) Surfaces: A Focus on Polysulfide Species. <b>2019</b> , 123, 21031-21041   | 16 |
| 1166 | Aqueous Corrosion of Deformed Steel Under Simulated Diluted Bitumen. <b>2019</b> , 75, 1194-1206  | 1  |
| 1165 | Tunable nanosized spinel manganese ferrites synthesized by solution combustion method. <b>2019</b> , 496, 143571  | 15 |
| 1164 | Nano-engineering of high-performance PA6.6 nanocomposites by the integration of CVD-grown carbon fiber on graphene as a bicomponent reinforcement by melt-compounding. <b>2019</b> , 136, 48347 | 4  |
| 1163 | Reliable carbon dioxide photoreduction by a rational electron transfer cycle formed on a nanorod-shaped CdS/Fe2O3 heterojunction catalyst. <b>2019</b> , 495, 143567                            | 16 |
| 1162 | Atomic/Molecular Layer Deposited Iron-Azobenzene Framework Thin Films for Stimuli-Induced Gas Molecule Capture/Release. <b>2019</b> , 58, 13400-13404   | 19 |
| 1161 | High-performance supercapacitor electrode based on activated carbon fiber felt/iron oxides. <b>2019</b> , 21, 100553  | 15 |
| 1160 | Monodisperse Fe3O4 spheres: Large-scale controlled synthesis in the absence of surfactants and chemical kinetic process. <b>2019</b> , 62, 1488-1495  | 8  |
| 1159 | Nanostructured Fe-Ni Sulfide: A Multifunctional Material for Energy Generation and Storage. <b>2019</b> , 9, 597  | 12 |
| 1158 | The Characterization and SCR Performance of Mn-Containing & Ee2O3 Derived from the Decomposition of Siderite. <b>2019</b> , 9, 393  | 8  |
| 1157 | Characterization of Fe2O3 thin film on highly oriented pyrolytic graphite by AFM, Ellipsometry and XPS. <b>2019</b> , 493, 673-678  | 51 |
| 1156 | Efficient As(III) removal directly as basic iron arsenite by in-situ generated Fe(III) hydroxide from ferrous sulfate on the surface of CaCO3. <b>2019</b> , 493, 569-576                       | 14 |
| 1155 | MBsbauerite as Iron-Only Layered Oxyhydroxide Catalyst for WO Photoanodes. <b>2019</b> , 58, 9655-9662  | 7  |
| 1154 | SO2 removing from smelter off-gas by converting to elemental sulfur with application of CaS particles synthesized by solvothermal method. <b>2019</b> , 255, 115702                             | 8  |
| 1153 | The presence of ferrihydrite enhances greenhouse gas-methane emission in the environment. <b>2019</b> , 688, 462-469  | 6  |
| 1152 | Experimental and theoretical aspects of biochar-supported nanoscale zero-valent iron activating HO for ciprofloxacin removal from aqueous solution. <b>2019</b> , 380, 120848                   | 73 |
| 1151 | Investigation of Fe-Ni Mixed-Oxide Catalysts for the Reduction of NO by CO: Physicochemical Properties and Catalytic Performance. <b>2019</b> , 14, 2966-2978                                   | 10 |

| 1150 | Sulfur-Mediated Mechanochemical Synthesis of Spherical and Needle-Like Copper Sulfide Nanocrystals with Antibacterial Activity. <b>2019</b> , 7, 12897-12909  | 25 |
|------|---|----|
| 1149 | Mechanical, dielectric, thermal and antibacterial properties of reduced graphene oxide (rGO)-nanosized C3AH6 cement nanocomposites for smart cement-based materials. <b>2019</b> , 175, 107128  | 39 |
| 1148 | Meso-Structure Controlled Synthesis of Sodium Iron-Manganese Oxides Cathode for Low-Cost<br>Na-Ion Batteries. <b>2019</b> , 166, A2528-A2535  | 7  |
| 1147 | Femtosecond laser patterning based on the control of surface reflectance. <b>2019</b> , 494, 187-195  | 15 |
| 1146 | Room temperature electric field control of magnetic properties for the #e2O3/Fe3O4 composite structure. <b>2019</b> , 491, 165500   | 8  |
| 1145 | Highly Efficient and Stable Removal of Arsenic by Live Cell Fabricated Magnetic Nanoparticles. <b>2019</b> , 20,  | 5  |
| 1144 | Understanding the Lithium Storage Mechanism in CoreBhell Fe2O3@C Hollow Nanospheres Derived from MetalØrganic Frameworks: An In operando Synchrotron Radiation Diffraction and in operando X-ray Absorption Spectroscopy Study. <b>2019</b> , 31, 5633-5645 | 16 |
| 1143 | Hierarchical Structure: An effective Strategy to Enhance the Mechanical Performance and Fire Safety of Unsaturated Polyester Resin. <b>2019</b> , 11, 29436-29447   | 46 |
| 1142 | Atomic/Molecular Layer Deposited IronAzobenzene Framework Thin Films for Stimuli-Induced Gas Molecule Capture/Release. <b>2019</b> , 131, 13534-13538   | 9  |
| 1141 | Hard x-ray photoelectron spectroscopy study of copper formation by metal salt inclusion in a polymer film. <b>2019</b> , 52, 435301   | 7  |
| 1140 | Free-Radical Formation by the Peroxidase-Like Catalytic Activity of MFe2O4 (M = Fe, Ni, and Mn) Nanoparticles. <b>2019</b> , 123, 20617-20627   | 17 |
| 1139 | Mussel-Inspired Self-Healing Metallopolymers for Silicon Nanoparticle Anodes. <b>2019</b> , 13, 8364-8373   | 65 |
| 1138 | Simultaneous removal of phosphates and dyes by Al-doped iron oxide decorated MgAl layered double hydroxide nanoflakes. <b>2019</b> , 6, 2615-2625   | 16 |
| 1137 | Effect of Inhibitor on Adsorption Behavior and Mechanism of Micro-Zone Corrosion on Carbon Steel. <b>2019</b> , 12,   | 5  |
| 1136 | Cobalt iron phosphide nanoparticles embedded within a carbon matrix as highly efficient electrocatalysts for the oxygen evolution reaction. <b>2019</b> , 55, 9212-9215   | 17 |
| 1135 | Nanostructured spinel cobalt ferrites: Fe and Co chemical state, cation distribution and size effects by X-ray photoelectron spectroscopy. <b>2019</b> , 9, 19171-19179   | 52 |
| 1134 | Influences of Fe2O3 content on structure and magnetic performances of FeSiAl soft magnetic composites. <b>2019</b> , 6, 116106  | 0  |
| 1133 | Silica Removal Using Magnetic Iron-Aluminum Hybrid Nanomaterials: Measurements, Adsorption Mechanisms, and Implications for Silica Scaling in Reverse Osmosis. <b>2019</b> , 53, 13302-13311  | 11 |

| 1132          | Design of 2D Nanocrystalline Fe2Ni2N Coated onto Graphene Nanohybrid Sheets for Efficient Electrocatalytic Oxygen Evolution. <b>2019</b> , 2, 8502-8510                | 11              |
|---------------|--|-----------------|
| 1131          | Self-limited growth of an oxyhydroxide phase at the FeO(001) surface in liquid and ambient pressure water. <b>2019</b> , 151, 154702                                   | 11              |
| 1130          | Radioactive Uranium Preconcentration Self-Propelled Autonomous Microrobots Based on Metal-Organic Frameworks. <b>2019</b> , 13, 11477-11487                            | 50              |
| 1129          | Efficient Fe(III)/Fe(II) cycling triggered by MoO2 in Fenton reaction for the degradation of dye molecules and the reduction of Cr(VI). <b>2019</b> , 30, 2205-2210    | 70              |
| 1128          | Chemical Structure of Fe-Ni Nanoparticles for Efficient Oxygen Evolution Reaction Electrocatalysis. <b>2019</b> , 4, 17209-17222                                       | 16              |
| 1127          | Binder-Free Growth of Nickel-Doped Iron Sulfide on Nickel Foam via Electrochemical Deposition for Electrocatalytic Water Splitting. <b>2019</b> , 7, 18015-18026       | 36              |
| 1126          | Chinese spam filtering based on Stacked Denoising Autoencoders. <b>2019</b> , 1237, 032012   | 2               |
| 1125          | Part Attentioned Fine-Grained Categorization Using Context Sensitive Flow. <b>2019</b> , 1237, 032061  |                 |
| 1124          | Formation of V2Zr in MA-SPS process of VACrATi alloy when using ZrO2 vials. 2019, 6, 0865b6  |                 |
| 1123          | A Modified One-Cycle Control for Vienna Rectifiers with Functionality of Input Power Factor Regulation and Input Current Distortion Mitigation. <b>2019</b> , 12, 3375 | 8               |
| 1122          | Thermodynamic properties of 1,3-di (azido-acetoxy)-2-methyl-2-nitropropane. <b>2019</b> , 138, 3023-3029   |                 |
| 1121          | Gd-Enhanced Growth of Multi-Millimeter-Tall Forests of Single-Wall Carbon Nanotubes. <b>2019</b> , 13, 13208-132   | 16 <sub>7</sub> |
| 11 <b>2</b> 0 | Modulation of Inverse Spinel Fe O by Phosphorus Doping as an Industrially Promising Electrocatalyst for Hydrogen Evolution. <b>2019</b> , 31, e1905107                 | 114             |
| 1119          | Catalytic transfer hydrogenation of furfural to furfuryl alcohol over calcined MgFe hydrotalcites. <b>2019</b> , 183, 105351   | 18              |
| 1118          | Iron Trifluoride as a High Voltage Cathode Material for Thermal Batteries. <b>2019</b> , 166, A3599-A3605  | 10              |
| 1117          | The Synergistic Effect of Zinc Ferrite Nanoparticles Uniformly Deposited on Silver Nanowires for the Biofilm Inhibition of. <b>2019</b> , 9,                           | 10              |
| 1116          | Enabling Full Conversion Reaction with High Reversibility to Approach Theoretical Capacity for Sodium Storage. <b>2019</b> , 29, 1906680                               | 18              |
| 1115          | Synthesis of Magnetic Bimetallic Hydroxide Nanosheets for the Clean-Up of Oily Wastewater. <b>2019</b> , 6, 1900773  |                 |

| 1114 | NiFe Oxalate Nanomesh Array with Homogenous Doping of Fe for Electrocatalytic Water Oxidation. <b>2019</b> , 15, e1904579  | 24 |
|------|--|----|
| 1113 | Characterization of phosphate coating formed on pyrite surface to prevent oxidation. <b>2019</b> , 110, 104435   | 8  |
| 1112 | Impacts of weather on cycling and walking on twin trails in Seattle. <b>2019</b> , 77, 573-588   | 16 |
| 1111 | nCP:Fe-A Biomineral Magnetic Nanocontrast Agent for Tracking Implanted Stem Cells in Brain Using MRI <b>2019</b> , 2, 5390-5403  | 4  |
| 1110 | Can We Learn From Student Mistakes in a Formative, Reading Comprehension Assessment?. <b>2019</b> , 56, 815-835  | 3  |
| 1109 | Efficient decomposition of sulfamethoxazole in a novel neutral Fered-Fenton like/oxalate system based on effective heterogeneous-homogeneous iron cycle. <b>2019</b> , 30, 2231-2235             | 29 |
| 1108 | Synthesis of metal oxide nanowall structures using a carbon nanowall template. <b>2019</b> , 58, 090912  | 2  |
| 1107 | Comparison of Water Sampling between Environmental DNA Metabarcoding and Conventional Microscopic Identification: A Case Study in Gwangyang Bay, South Korea. <b>2019</b> , 9, 3272              | 8  |
| 1106 | The effect of prior cold rolling on the carbide dissolution, precipitation and dry wear behaviors of M50 bearing steel. <b>2019</b> , 132, 253-264   | 42 |
| 1105 | Vanadium Pentoxide Nanosheets in-Situ Spaced with Acetylene Black as Cathodes for High-Performance Zinc-Ion Batteries. <b>2019</b> , 11, 41297-41303   | 49 |
| 1104 | Electrochemical Reduction of CO2 on Nitrogen-Doped Carbon Catalysts With and Without Iron. <b>2019</b> , 6, 4626-4636  | 11 |
| 1103 | General Synthesis of Mixed Semiconducting Metal Oxide Hollow Spheres with Tunable Compositions for Low-Temperature Chemiresistive Sensing. <b>2019</b> , 11, 35060-35067                         | 23 |
| 1102 | Engineering Poly(Methyl Methacrylate)/Fe2O3 Hollow Nanospheres Composite Prepared in Microemulsion System As a Recyclable Adsorbent for Removal of Benzothiophene. <b>2019</b> , 58, 17850-17858 | 4  |
| 1101 | Efficient oil removal from wastewater based on polymer coated superhydrophobic tetrapodal magnetic nanocomposite adsorbent. <b>2019</b> , 17, 130-141  | 26 |
| 1100 | Rational design of ZnFe2O4/g-C3N4 nanocomposite for enhanced photo-Fenton reaction and supercapacitor performance. <b>2019</b> , 498, 143807   | 62 |
| 1099 | Effects of 2,2-Dithiodipyridine as a Leveler for Through-Holes Filling by Copper Electroplating. <b>2019</b> , 166, D660-D668  | 6  |
| 1098 | Fabrication of Fe and P Co-doped WO2 Nano-polygonal Pyramid as an Efficient Electrocatalyst for Hydrogen Evolution Reaction. <b>2019</b> , 48, 1232-1235   | 1  |
| 1097 | Amorphous Fe2O3 for photocatalytic hydrogen evolution. <b>2019</b> , 9, 5582-5592  | 25 |

| 1096 Redox- and EPR-Active Graphene Diiron Complex Nanocomposite. <b>2019</b> , 35, 12339-   | 12349 1                         |
|--|---------------------------------|
| 1095 Dyes Adsorption Behavior of FeO Nanoparticles Functionalized Polyoxometalate Hy   | ybrid. <b>2019</b> , 24, 5      |
| Precipitating Metal Nitrate Deposition of Amorphous Metal Oxyhydroxide Electrod<br>Ni, Fe, and Co for Electrocatalytic Water Oxidation. <b>2019</b> , 9, 9650-9662   | es Containing 25                |
| Hexacyano Ferrate (III) Reduction by Electron Transfer Induced by Plasmonic Catalys<br>Nanoparticles. <b>2019</b> , 12,  | sis on Gold                     |
| A manufacturing and annealing protocol to develop a cold-sprayed Fe-316L stainles biodegradable stenting material. <b>2019</b> , 99, 479-494   | s steel 8                       |
| Influence of different morphology of carbon nanostructures on the structural and o properties of decorated single crystalline hematite nanocubes for photoelectrochemapplications. <b>2019</b> , 498, 143845 |                                 |
| Characterization of Fe Aqueous Solutions with Liquid Jet X-ray Photoelectron Spect Chloride Depletion at the Liquid/Vapor Interface Due to Complexation with Fe. <b>201</b>                                  |                                 |
| 1089 Magnetic Properties of Proton Irradiated Fe2.7GeTe2 Bulk Crystals. <b>2019</b> , 4, 2185-2  | <b>190</b> o                    |
| Influence of the Cation on the Surface Electronic Band Structure and Magnetic Prop<br>Mn:ZnS and Mn:CdS Quantum Dot Thin Films. <b>2019</b> , 123, 24890-24898   | perties of 7                    |
| Oxidative Degradation of Trichloroethylene over Fe2O3-doped Mayenite: Chlorine Mitigation and Improved Catalytic Performance. <b>2019</b> , 9, 747   | Poisoning 7                     |
| Aluminium substituted Bype NaMn1-Al O2: A stable and enhanced electrochemical k sodium-ion battery cathode. <b>2019</b> , 438, 227025  | rinetic 14                      |
| Room Temperature Metallic Conductivity in a Metal-Organic Framework Induced by <b>2019</b> , 141, 16323-16330  | Oxidation. 49                   |
| Microwave-Assisted Synthesis of SPION-Reduced Graphene Oxide Hybrids for Magn<br>Imaging (MRI). <b>2019</b> , 9,   | netic Resonance                 |
| Characterization and assessment of the potential toxicity/pathogenicity of fibrous ${\bf 2019}$ , 178, 108723  | glaucophane. 14                 |
| Volcano Trend in Electrocatalytic CO2 Reduction Activity over Atomically Dispersed Nitrogen-Doped Carbon. <b>2019</b> , 9, 10426-10439   | Metal Sites on 96               |
| Effect of sulfate ions on corrosion of reinforced steel treated by DNA corrosion inhi simulated concrete pore solution. <b>2019</b> , 228, 116752  | ibitor in 11                    |
| 1080 Green Synthesis of Size-Tunable Iron Oxides and Iron Nanoparticles in a Salt Matrix.  | <b>2019</b> , 7, 17697-17705 10 |
| Modification of Tungsten Heavy Alloy by Selective Electrochemical Etching in Sodius Electrolyte. <b>2019</b> , 166, E496-E501  | m Carbonate                     |

| 1078 | Fabrication of Iron Oxide Nanoparticles via Submerged Photosynthesis and the Morphologies under Different Light Sources. <b>2019</b> , 59, 2352-2358   | 4  |
|------|--|----|
| 1077 | Surface Study of FeO Nanoparticles Functionalized With Biocompatible Adsorbed Molecules. <b>2019</b> , 7, 642  | 58 |
| 1076 | Oxidation and removal of As(III) from soil using novel magnetic nanocomposite derived from biomass waste. <b>2019</b> , 6, 478-488   | 32 |
| 1075 | Bio-inspired design: bulk iron-nickel sulfide allows for efficient solvent-dependent CO reduction. <b>2019</b> , 10, 1075-1081   | 43 |
| 1074 | Preparation of magnetically separable mesoporous activated carbons from brown coal with Fe3O4. <b>2019</b> , 29, 513-519   | 23 |
| 1073 | Water-in-salt⊡electrolyte enhanced high voltage aqueous supercapacitor with all-pseudocapacitive metal-oxide electrodes. <b>2019</b> , 414, 479-485  | 43 |
| 1072 | The effect of potassium modification on structural properties and catalytic activity of copper and iron containing SBA-16 catalysts for selective oxidation of ethanol. <b>2019</b> , 227, 21-28 | 9  |
| 1071 | Effect of organic anions on ionic liquids as corrosion inhibitors of steel in sulfuric acid solution. <b>2019</b> , 279, 267-278   | 46 |
| 1070 | Physical Structure and Electrochemical Response of Diamond-Graphite Nanoplatelets: From CVD Synthesis to Label-Free Biosensors. <b>2019</b> , 11, 8470-8482                                      | 10 |
| 1069 | Study of the effect of polyacrylic acid dispersant on magnetite deposits in steam generators conditions. <b>2019</b> , 226, 118-128  | 3  |
| 1068 | Podocarpus-like ?-Fe2O3/TiO2 composite with balsam pear texture for enhanced lithium storage. <b>2019</b> , 476, 959-965   | 17 |
| 1067 | Composites based on zirconia and transition metal oxides for osteosarcoma treatment. Design, structural, magnetic and mechanical evaluation. <b>2019</b> , 98, 1097-1113                         | 7  |
| 1066 | Synergistic effect and degradation mechanism on Fe-Ni/CNTs for removal of 2,4-dichlorophenol in aqueous solution. <b>2019</b> , 26, 8768-8778  | 13 |
| 1065 | Controlling the Valence State of Cu Dopant in Fe2O3 Anodes: Effects on Crystal Structure and the Conversion Reactions with Alkali Ions. <b>2019</b> , 31, 1268-1279                              | 17 |
| 1064 | Nanosized (Ni1⊠Znx)Fe2O4 for water oxidation. <b>2019</b> , 1, 686-695   | 5  |
| 1063 | Fe2P4O12Barbon composite as a highly stable electrode material for electrochemical capacitors. <b>2019</b> , 43, 399-406   | 7  |
| 1062 | Hard meso/macroporous iron oxide/iron silicate macrospheres obtained by the multi-templating technique. <b>2019</b> , 94, 2888-2898  | 1  |
| 1061 | Interaction of Co, Mn, and Fe Atoms with Calcite: An X-Ray Photoelectron Spectroscopy Study. <b>2019</b> , 57, 98-103  | Ο  |

| 1060 | Sulfide and arsenic compounds removal from liquid digestate by ferric coagulation and toxicity evaluation. <b>2019</b> , 91, 1613-1623   | 3  |
|------|--|----|
| 1059 | Pressureless all-solid-state sodium-ion battery consisting of sodium iron pyrophosphate glass-ceramic cathode and 🗗 alumina solid electrolyte composite. <b>2019</b> , 102, 6658-6667  | 16 |
| 1058 | Insights into aqueous reduction of Cr(VI) by Fe3O4@NOM MNPs under irradiation: The role of carbonyl structures. <b>2019</b> , 578, 123593  | 1  |
| 1057 | Green preparation of magnetic biochar for the effective accumulation of Pb(II): Performance and mechanism. <b>2019</b> , 375, 122011   | 58 |
| 1056 | Effect of humic acid on Se and Fe transformations in soil during waterlogged incubation. <b>2019</b> , 684, 476-485  | 8  |
| 1055 | Effect of Co Doping on the Superconducting Properties of Polycrystalline Fe1.01-xCoxTe0.52Se0.48. <b>2019</b> , 32, 3715-3727  | 1  |
| 1054 | Enhanced catalytic activity over MIL-100(Fe) with coordinatively unsaturated Fe2+/Fe3+ sites for selective oxidation of H2S to sulfur. <b>2019</b> , 374, 793-801  | 63 |
| 1053 | Formation of active zero-valent iron by simple co-grinding with CaCO3 to protect fresh active surface for efficient removal of hexavalent chromium. <b>2019</b> , 490, 81-88   | 14 |
| 1052 | Electrochemistry of Sputtered Hematite Photoanodes: A Comparison of Metallic DC versus Reactive RF Sputtering. <b>2019</b> , 4, 9262-9270  | 4  |
| 1051 | Electrochemical determination of l-vanillin using copper hexacyanoferrate film modified gold nanoparticle graphite-wax composite electrode. <b>2019</b> , 30, 9955-9963  | 4  |
| 1050 | Pulsed laser deposition of CoFe2O4/CoO hierarchical-type nanostructured heterojuction forming a Z-scheme for efficient spatial separation of photoinduced electron-hole pairs and highly active surface area. <b>2019</b> , 489, 584-594 | 12 |
| 1049 | Effects of adsorbed inorganic anions on the magnetic properties of calcination-prepared porous maghemite. <b>2019</b> , 46, 751-758  | 1  |
| 1048 | The interaction of copper-containing spinels CuFe2O4 and CuFeCrO4 with hydrogen. <b>2019</b> , 118, 110481   | 2  |
| 1047 | Controllable synthesis of 3D Fe3O4 micro-cubes as anode materials for lithium ion batteries. <b>2019</b> , 21, 5050-5058   | 4  |
| 1046 | Effect of the Solvent Ratio (Ethylene Glycol/Water) on the Preparation of an Iron Sulfide Electrocatalyst and Its Activity towards Overall Water Splitting. <b>2019</b> , 6, 3199-3208   | 9  |
| 1045 | Unique structured microspheres with multishells comprising graphitic carbon-coated Fe3O4 hollow nanopowders as anode materials for high-performance Li-ion batteries. <b>2019</b> , 7, 15766-15773                                       | 40 |
| 1044 | Mesoporous SiO Particles Combined with Fe Oxide Nanoparticles as a Regenerative Methylene Blue Adsorbent. <b>2019</b> , 4, 9745-9755   | 13 |
| 1043 | Crystal Growth through the Medium of Nonautonomous Phase: Implications for Element Partitioning in Ore Systems. <b>2019</b> , 64, 496-507  | 3  |

| 1042 | Anticorrosive Performance of L. Leaf Extract-Based Hybrid Coating on Steel. 2019, 4, 10176-10184   | 12 |
|------|--|----|
| 1041 | Study of vortex glass-liquid transition in superconducting Fe(Te, Se) thin films on LaAlO3 substrates. <b>2019</b> , 125, 193902   | 8  |
| 1040 | On the High Structural Heterogeneity of Fe-Impregnated Graphitic-Carbon Catalysts from Fe Nitrate Precursor. <b>2019</b> , 9, 303  | 13 |
| 1039 | Simple continuous flow synthesis of linoleic and palmitic acid-coated magnetite nanoparticles. <b>2019</b> , 17, 100344  | 6  |
| 1038 | Silica-coated magnetite nanoparticles functionalized with betaine and their use as an adsorbent for Mo(VI) and Re(VII) species from acidic aqueous solutions. <b>2019</b> , 78, 271-283  | 6  |
| 1037 | Application of thermally activated red mud in surface treatment of 5005 aluminum alloy. <b>2019</b> , 133, 276-288   | 1  |
| 1036 | Kinetics of carbon steel dissolution in ammonium chloride solution containing sodium thiosulfate. <b>2019</b> , 51, 497-510  | 3  |
| 1035 | Crystal phase induced band gap energy enhancing the photo-catalytic properties of ZnHe2O4/Au NPs: experimental and theoretical studies. <b>2019</b> , 9, 3066-3080   | 13 |
| 1034 | Enhanced catalytic degradation of amoxicillin with TiO-FeO composites a submerged magnetic separation membrane photocatalytic reactor (SMSMPR) <b>2019</b> , 9, 12538-12546  | 14 |
| 1033 | Sodium dodecyl sulfate mediated microwave synthesis of biocompatible superparamagnetic mesoporous hydroxyapatite nanoparticles using black Chlamys varia seashell as a calcium source for biomedical applications. <b>2019</b> , 45, 15143-15155 | 12 |
| 1032 | Ultra-low inter-particle eddy current loss of Fe3Si/Al2O3 soft magnetic composites evolved from FeSiAl/Fe3O4 core-shell particles. <b>2019</b> , 484, 218-224  | 30 |
| 1031 | Structure, Shift in Redox Potential and Li-Ion Diffusion Behavior in Favorite LiFeVPOF Solid-Solution Cathodes. <b>2019</b> , 24,  | 3  |
| 1030 | The core-shell structured Fe-based amorphous magnetic powder cores with excellent magnetic properties. <b>2019</b> , 30, 1504-1512   | 27 |
| 1029 | Cation ordering, valence states, and symmetry breaking in the crystal-chemically complex mineral chevkinite-(Ce): X-ray diffraction and photoelectron spectroscopy studies and mechanisms of Nb enrichment. <b>2019</b> , 104, 595-602           | 6  |
| 1028 | The synergistic effect of cation mixing in mesoporous BixFe1NVO4 heterojunction photoanodes for solar water splitting. <b>2019</b> , 7, 14816-14824  | 5  |
| 1027 | Charge Disproportionation Triggers Bipolar Doping in FeSbSn Se Ferromagnetic Semiconductors, Enabling a Temperature-Induced Lifshitz Transition. <b>2019</b> , 141, 9249-9261  | 2  |
| 1026 | Enhanced oxidative activity of zero-valent iron by citric acid complexation. <b>2019</b> , 373, 891-901  | 22 |
| 1025 | Rapid Fabrication of Ni/NiO@CoFe Layered Double Hydroxide Hierarchical Nanostructures by Femtosecond Laser Ablation and Electrodeposition for Efficient Overall Water Splitting. <b>2019</b> , 12, 2773-2779                                     | 22 |

| 1024 | Formation of active Fe(OH)3 in situ for enhancing arsenic removal from water by the oxidation of Fe(II) in air with the presence of CaCO3. <b>2019</b> , 227, 1-9   | 34 |
|------|---|----|
| 1023 | Computational and experimental investigation of dimethyldithiocarbamate for effective recovery of cobalt and nickel from the leach liquor of high manganese slag. <b>2019</b> , 223, 55-62                    | 4  |
| 1022 | Quantitative assessment of structural and compositional colors induced by femtosecond laser: A case study on 301LN stainless steel surface. <b>2019</b> , 484, 655-662  | 8  |
| 1021 | Enhanced degradation of atrazine by nanoscale LaFeCuO perovskite activated peroxymonosulfate: Performance and mechanism. <b>2019</b> , 673, 565-575   | 44 |
| 1020 | Inorganic and organic P retention by coprecipitation during ferrous iron oxidation. <b>2019</b> , 348, 168-180  | 12 |
| 1019 | Photocatalytic Properties of Hollow BiFeO3 Spheres. <b>2019</b> , 92, 113-121   | 1  |
| 1018 | Acid-treated Fe-doped TiO as a high performance photocatalyst used for degradation of phenol under visible light irradiation. <b>2019</b> , 83, 183-194   | 21 |
| 1017 | Fe/La/Zn nanocomposite with graphene oxide for photodegradation of phenylhydrazine. <b>2019</b> , 285, 362-374  | 11 |
| 1016 | Identification of Two-Dimensional FeO2 Termination of Bulk Hematite 中e2O3(0001) Surface. <b>2019</b> , 123, 14312-14318   | 3  |
| 1015 | Engineering Magnetic Transitions in Fe1\( \text{NS}\) SnxBi2Se4 n-Type Ferromagnetic Semiconductors through Chemical Manipulation of Spatial Separation between Magnetic Centers. <b>2019</b> , 31, 3507-3518 | 2  |
| 1014 | Investigation of chloride-induced depassivation of iron in alkaline media by reactive force field molecular dynamics. <b>2019</b> , 3,  | 26 |
| 1013 | Discriminative Detection of Glutathione in Cell Lysates Based on Oxidase-Like Activity of Magnetic Nanoporous Graphene. <b>2019</b> , 91, 5004-5010   | 45 |
| 1012 | Selective Reduction of Nitrate into Nitrogen Using Cu/Fe Bimetal Combined with Sodium Sulfite. <b>2019</b> , 58, 5175-5185  | 20 |
| 1011 | Adsorption and Oxidative Desorption of Acetaldehyde over Mesoporous Fe O H /AlO. <b>2019</b> , 4, 5382-5391   | 13 |
| 1010 | 3D printed self-adhesive PEGDAPAA hydrogels as modular components for soft actuators and microfluidics. <b>2019</b> , 10, 2015-2028   | 29 |
| 1009 | In-Depth Understanding of the Morphology Effect of FeO on Catalytic Ethane Destruction. <b>2019</b> , 11, 11369-11383   | 47 |
| 1008 | Development of conversion coatings on iron via corrosion in LiPF6 solution. <b>2019</b> , 304, 428-436  | 8  |
| 1007 | A novel shape-stabilization strategy for phase change thermal energy storage. <b>2019</b> , 7, 8194-8203  | 42 |

| 1006 | A trimetallic organometallic precursor for efficient water oxidation. <b>2019</b> , 9, 3734  | 6   |
|------|--|-----|
| 1005 | Morphology and Crystal-Plane Effects of Fe/W-CeO2 for Selective Catalytic Reduction of NO with NH3. <b>2019</b> , 9, 288   | 3   |
| 1004 | An acetone gas sensor based on nanosized Pt-loaded Fe2O3 nanocubes. <b>2019</b> , 290, 59-67   | 104 |
| 1003 | Reduction and transformation of nanomagnetite and nanomaghemite by a sulfate-reducing bacterium. <b>2019</b> , 256, 66-81  | 8   |
| 1002 | Exchange Bias Enhancement and Magnetic Proximity Effect in FeVO4-Fe3O4 Nanoparticles. <b>2019</b> , 48, 3297-3303  | 1   |
| 1001 | The Structure of Sulfidized Zero-Valent Iron by One-Pot Synthesis: Impact on Contaminant Selectivity and Long-Term Performance. <b>2019</b> , 53, 4389-4396                                  | 55  |
| 1000 | In Situ Synthesis of a Stable FeD@Cellulose Nanocomposite for Efficient Catalytic Degradation of Methylene Blue. <b>2019</b> , 9,  | 22  |
| 999  | Rapid quantitative spectroelectrochemical responses of hydrogel-based sensors for the in situ evaluation of corrosion inhibitors on steel. <b>2019</b> , 289, 175-181                        | 2   |
| 998  | Insight into Preparation of Fe-Doped NaV(PO)@C from Aspects of Particle Morphology Design, Crystal Structure Modulation, and Carbon Graphitization Regulation. <b>2019</b> , 11, 12421-12430 | 46  |
| 997  | Arsenic Pollution Control Technologies for Arsenic-Bearing Solid Wastes. <b>2019</b> , 121-195   | Ο   |
| 996  | Co-Fe/MIL-101(Cr) hybrid catalysts: Preparation and their electrocatalysis in oxygen reduction reaction. <b>2019</b> , 44, 11754-11764   | 11  |
| 995  | Ultra-long life rechargeable zinc-air battery based on high-performance trimetallic nitride and NCNT hybrid bifunctional electrocatalysts. <b>2019</b> , 61, 86-95                           | 82  |
| 994  | Iron minerals inhibit the growth of <i>Pseudomonas brassicacearum</i> J12 via a free-radical mechanism: implications for soil carbon storage. <b>2019</b> , 16, 1433-1445                    | 15  |
| 993  | Probing the multi-step crystallization dynamics of micelle templated nanoparticles: structural evolution of single crystalline FeO. <b>2019</b> , 11, 9076-9084                              | 17  |
| 992  | Improvement on Fluorine Migration from SF to SiF by an Efficient Mediator of FeO/CrO Composites. <b>2019</b> , 11, 16538-16545   | 2   |
| 991  | Metal-organic layer derived metal hydroxide nanosheets for highly efficient oxygen evolution. <b>2019</b> , 55, 5467-5470  | 28  |
| 990  | Task-specific ionic liquids as corrosion inhibitors on carbon steel in 0.5 M HCl solution: An experimental and theoretical study. <b>2019</b> , 153, 301-313                                 | 89  |
| 989  | Adsorption differences of sodium oleate on siderite and hematite. <b>2019</b> , 137, 10-18   | 21  |

| 988 | A pH-Sensitive Zwitterionic Iron Complex Probe with High Biocompatibility for Tumor-Specific Magnetic Resonance Imaging. <b>2019</b> , 25, 8353-8362  | 14 |
|-----|---|----|
| 987 | Failure analysis on synergistic effect of erosion and corrosion on failed fittings in specialty chemical plant. Part I: Elbows. <b>2019</b> , 70, 906-920   | 5  |
| 986 | The role of tungsten species in the transition of anodic nanopores to nanotubes formed on iron alloyed with tungsten. <b>2019</b> , 309, 274-282  | 2  |
| 985 | Cobalt-doped hematite thin films for electrocatalytic water oxidation in highly acidic media. <b>2019</b> , 55, 5017-5020   | 13 |
| 984 | Electronic and spin structure of O- and H-adsorbed Fe3O4(111) surfaces. <b>2019</b> , 99,   | 2  |
| 983 | A Tough Metal-Coordinated Elastomer: A Fatigue-Resistant, Notch-Insensitive Material with an Excellent Self-Healing Capacity. <b>2019</b> , 84, 432-440   | 11 |
| 982 | The Key Role of Nanocasting in Gold-based Fe2O3 Nanocasted Catalysts for Oxygen Activation at the Metal-support Interface. <b>2019</b> , 11, 1915-1927  | 5  |
| 981 | Towards understanding of heterogeneous Fenton reaction using carbon-Fe catalysts coupled to in-situ HO electro-generation as clean technology for wastewater treatment. <b>2019</b> , 224, 698-706      | 29 |
| 980 | Curie temperature enhancement in the double perovskite Sr2lla FeMoO6 system: An experimental study. <b>2019</b> , 556, 108-113  | 10 |
| 979 | Diverse impact of Fe2O3 with nano/micro-sized shapes on the catalytic fast pyrolysis of pinewood: Py-GC/MS study. <b>2019</b> , 139, 145-155  | 5  |
| 978 | Chemical Composition of Surface Species in Pyrolyzed Brown Coals and Their Evolution during the Steam Gasification Reaction. <b>2019</b> , 33, 1892-1900  | Ο  |
| 977 | Acid-redox bifunctional Fe/Al-AMS catalyst: Simultaneously oriented introducing Fe2O3 in the channels and Al in the framework of AMS and its enhanced catalytic performance. <b>2019</b> , 575, 159-169 | 10 |
| 976 | rGO/Fe-doped g-C3N4 visible-light driven photocatalyst with improved NO removal performance. <b>2019</b> , 375, 40-47   | 14 |
| 975 | A New Eco-friendly Anticorrosion Strategy for Ferrous Metals: Plasma Electrolytic Aluminating. <b>2019</b> , 7, 5524-5531   | 8  |
| 974 | Magnetically responsive hybrid nanoparticles for in vitro siRNA delivery to breast cancer cells. <b>2019</b> , 99, 1182-1190  | 21 |
| 973 | Spray-Flame-Synthesized LaCo1NFexO3 Perovskite Nanoparticles as Electrocatalysts for Water and Ethanol Oxidation. <b>2019</b> , 6, 4266-4274  | 21 |
| 972 | Synthesis of isopropyl levulinate from furfural: Insights on a cascade production perspective. <b>2019</b> , 575, 111-119   | 18 |
| 971 | Ultrafine Copper Nanopalm Tree-Like Framework Decorated with Iron Oxide for Li-Ion Battery Anodes with Exceptional Rate Capability and Cycling Stability. <b>2019</b> , 9, 1803764                      | 14 |

| 970 | Controllable Design of Polypyrrole-Iron Oxide Nanocoral Architectures for Supercapacitors with Ultrahigh Cycling Stability. <b>2019</b> , 2, 2161-2168   | 12 |
|-----|--|----|
| 969 | FeO nanoparticle decorated three-dimensional porous carbon/MoS composites as anodes for high performance lithium-ion batteries. <b>2019</b> , 11, 4837-4845  | 11 |
| 968 | Design and scale-up of a Cr-free Fe-Al-Cu catalyst for hydrogen production from waste-derived synthesis gas. <b>2019</b> , 249, 72-81  | 21 |
| 967 | Fractionation and identification of iron-phosphorus compounds in sewage sludge. <b>2019</b> , 223, 250-256   | 30 |
| 966 | Low-Temperature Selective Catalytic Reduction of NO with NH3 over Natural Iron Ore Catalyst. <b>2019</b> , 9, 956  | 7  |
| 965 | Bottom-Up Fabrication of a Metal-Supported OxoMetal Porphyrin. <b>2019</b> , 123, 31011-31025  | 6  |
| 964 | Dielectric and electromagnetic interference shielding properties of high entropy (Zn,Fe,Ni,Mg,Cd)FeO ferrite. <b>2019</b> , 9, 20078   | 51 |
| 963 | Sodium chromium hexacyanoferrate as a potential cathode material for aqueous sodium-ion batteries. <b>2019</b> , 55, 14633-14636   | 7  |
| 962 | Selective mild oxidation of methane to methanol or formic acid on FeMOR catalysts. 2019, 9, 6946-6956  | 14 |
| 961 | Effects of biological buffer solutions on the peroxidase-like catalytic activity of FeO nanoparticles. <b>2019</b> , 11, 18393-18406   | 14 |
| 960 | Highly enhanced photoactivity of BiFeO3/Bi2WO6 composite films under visible light irradiation. <b>2019</b> , 575, 411683  | 12 |
| 959 | Deciphering the Mechanisms of Bacterial Inactivation on HiPIMS Sputtered CuO-FeO-PET Surfaces: From Light Absorption to Catalytic Bacterial Death. <b>2019</b> , 11, 45319-45329                       | 6  |
| 958 | Overcharge Cycling Effect on the Surface Layers and Crystalline Structure of LiFePO4 Cathodes of Li-Ion Batteries. <b>2019</b> , 12, 4652  | 7  |
| 957 | Photo-Fenton Degradation of RB5 Dye in Aqueous Solution Using Fe Supported on Mexican Natural Zeolite. <b>2019</b> , 2019, 1-15  | 2  |
| 956 | Identifying the crystal and electronic structure evolution in tri-component transition metal oxide nanosheets for efficient electrocatalytic oxygen evolution. <b>2019</b> , 1, e12005                 | 10 |
| 955 | Enhancing the corrosion resistance of reinforcing steel under aggressive operational conditions using behentrimonium chloride. <b>2019</b> , 9, 18115  | 14 |
| 954 | Rational Design Combining Morphology and Charge-Dynamic for Hematite/Nickel-Iron Oxide Thin-Layer Photoanodes: Insights into the Role of the Absorber/Catalyst Junction. <b>2019</b> , 11, 48002-48012 | 3  |
| 953 | Spontaneous selective deposition of iron oxide nanoparticles on graphite as model catalysts. <b>2019</b> , 1, 4729-4744  | 5  |

| 952 | Synthesis, characterization, and evaluation of bioactivity of novel Fe(II) nano-complexes based on sucrose, glucose, and fructose. <b>2019</b> , 73, 321-329  | 5   |
|-----|---|-----|
| 951 | Semi-continuous production of iron oxide nanoparticles via membrane emulsification. <b>2019</b> , 463, 504-512  | 4   |
| 950 | Mechanisms for photo assisted Fenton of synthesized pyrrhotite at neutral pH. <b>2019</b> , 463, 863-871  | 20  |
| 949 | SILAR deposited iron phosphate as a bifunctional electrocatalyst for efficient water splitting. <b>2019</b> , 534, 350-356  | 27  |
| 948 | Microwave-assisted ionothermal synthesis of Fe-LEV molecular sieve with high iron content in low-dosage of eutectic mixture. <b>2019</b> , 275, 253-262   | 8   |
| 947 | Shape-dependent magnetoelectric coupling in nanoscale BiFeO3. <b>2019</b> , 772, 193-198  | 12  |
| 946 | XPS primary excitation spectra of Zn 2p, Fe 2p, and Ce 3d from ZnO, Fe2O3, and CeO2. <i>Surface and Interface Analysis</i> , <b>2019</b> , 51, 353-360  | 15  |
| 945 | Low-Crystalline Bimetallic Metal <b>©</b> rganic Framework Electrocatalysts with Rich Active Sites for Oxygen Evolution. <b>2019</b> , 4, 285-292   | 150 |
| 944 | Accelerated Ionic Motion in Amorphous Memristor Oxides for Nonvolatile Memories and Neuromorphic Computing. <b>2019</b> , 29, 1804782   | 29  |
| 943 | Through a hydrothermal phosphatization method synthesized NiCo and Fe-based electrodes for high-performance battery-supercapacitor hybrid device. <b>2019</b> , 475, 729-739                          | 12  |
| 942 | Transition metal oxide (Ni, Co, Fe)-tin oxide nanocomposite sensing electrodes for a mixed-potential based NO2 sensor. <b>2019</b> , 284, 534-544   | 26  |
| 941 | Mechanistic Insight into the Nature of Dopants in Graphene Derivatives Influencing Electromagnetic Interference Shielding Properties in Hybrid Polymer Nanocomposites. <b>2019</b> , 123, 2579-2590   | 34  |
| 940 | Synthesis of hollow spheres of BiFeO3 from nitrate solutions with tartaric acid: Morphology and magnetic properties. <b>2019</b> , 777, 586-592   | 13  |
| 939 | CoreBhell Charge Transfer in Plasmonic [email´protected] Nanoparticles on MgO Film. <b>2019</b> , 123, 8206-8211  | 2   |
| 938 | Synthesis, characterization and applications of pH controlled Fe2O3 nanoparticles for electrocatalytic hydrogen evolution reaction. <b>2019</b> , 6, 025516   | 2   |
| 937 | Operando HERFD-XANES/XES studies reveal differences in the activity of Fe-species in MFI and CHA structures for the standard selective catalytic reduction of NO with NH3. <b>2019</b> , 570, 283-291 | 19  |
| 936 | Corrosion of nanocrystalline nickel coatings electrodeposited from choline chloride:ethylene glycol deep eutectic solvent exposed in 0.05 M NaCl solution. <b>2019</b> , 470, 331-339                 | 21  |
| 935 | Photoelectrocatalytic Reduction of Carbon Dioxide to Methanol Using CuFe2O4 Modified with Graphene Oxide under Visible Light Irradiation. <b>2019</b> , 58, 563-572                                   | 33  |

| 934 | Assembly of Fe2O3 Rubik nanostructure with adsorptive property. <b>2019</b> , 6, 025011  | 1  |
|-----|--|----|
| 933 | Noncovalent bonding of 3d metal(II) phthalocyanines with single-walled carbon nanotubes: A combined DFT and XPS study. <b>2019</b> , 470, 622-630                                | 29 |
| 932 | The synthesis of heterogeneous Fenton-like catalyst using sewage sludge biochar and its application for ciprofloxacin degradation. <b>2019</b> , 654, 1284-1292                  | 60 |
| 931 | Promotion of surface acidity and surface species of doped Fe and SO42- over CeO2 catalytic for NH3-SCR reaction. <b>2019</b> , 463, 1-7  | 27 |
| 930 | High temperature corrosion of Fe-6 wt% Si steel in various atmospheres. <b>2019</b> , 70, 593-604  | 1  |
| 929 | MoFe-Codoped Ni3S2/Ni(OH)2 Nanosheets with Large Sample Size toward High-Performance Oxygen Evolution. <b>2019</b> , 7, 1801053  | 3  |
| 928 | Fading Mechanisms and Voltage Hysteresis in FeF -NiF Solid Solution Cathodes for Lithium and Lithium-Ion Batteries. <b>2019</b> , 15, e1804670                                   | 31 |
| 927 | Reduction and immobilization of hexavalent chromium in chromite ore processing residue using amorphous FeS. <b>2019</b> , 658, 315-323   | 35 |
| 926 | Solvothermal synthesis, characterization and magnetic properties of nearly superparamagnetic Zn-doped Fe3O4 nanoparticles. <b>2019</b> , 30, 3177-3185                           | 8  |
| 925 | Exceptional electrocatalytic oxygen evolution efficiency and stability from electrodeposited NiFe alloy on Ni foam. <b>2019</b> , 299, 567-574                                   | 40 |
| 924 | The Effect of the Superlattice on the Magnetic and Transport Properties of Epitaxial Magnetite Thin Films. <b>2019</b> , 55, 1-5   | 1  |
| 923 | Wet chemistry route for the decoration of carbon nanotubes with iron oxide nanoparticles for gas sensing. <b>2019</b> , 10, 105-118  | 6  |
| 922 | Fabrication and Characterization of Highly Porous FeAl-Based Intermetallics by Thermal Explosion Reaction. <b>2019</b> , 21, 1801110   | 4  |
| 921 | Catalytic Ozonation of NO with Low Concentration Ozone over Recycled SAPO-34 Supported Iron Oxide. <b>2019</b> , 58, 1525-1534   | 13 |
| 920 | The activity of mono- and bimetallic gold catalysts in the conversion of sub- and supercritical ethanol to butanol. <b>2019</b> , 369, 501-517                                   | 16 |
| 919 | LiF Splitting Catalyzed by Dual Metal Nanodomains for an Efficient Fluoride Conversion Cathode. <b>2019</b> , 13, 2490-2500  | 19 |
| 918 | Effect of Cu2+ and Fe3+ on the depression of molybdenite in flotation. <b>2019</b> , 130, 101-109  | 39 |
| 917 | Bi-functional iron embedded carbon nanostructures from collagen waste for photocatalysis and Li-ion battery applications: A waste to wealth approach. <b>2019</b> , 210, 190-199 | 12 |

| 916 | Evolution of magnetic properties in F-doped brownmillerite Ca2Fe2O5. <b>2019</b> , 6, 026103   | O   |
|-----|--|-----|
| 915 | An efficient tumor-inducible nanotheranostics for magnetic resonance imaging and enhanced photodynamic therapy. <b>2019</b> , 358, 969-979   | 33  |
| 914 | A 3D Porous MgFe2O4 Integrative Electrode as a Binder-Free Anode with High Rate Capability and Long Cycle Lifetime. <b>2019</b> , 6, 757-763   | 4   |
| 913 | Two step floating catalyst chemical vapor deposition including in situ fabrication of catalyst nanoparticles and carbon nanotube forest growth with low impurity level. <b>2019</b> , 144, 152-160                   | 13  |
| 912 | Corrosion inhibition effects of a novel ionic liquid with and without potassium iodide for carbon steel in 0.5 M HCl solution: An experimental study and theoretical calculation. <b>2019</b> , 275, 729-740         | 33  |
| 911 | Interfacial Scaffolding Preparation of Hierarchical PBA-Based Derivative Electrocatalysts for Efficient Water Splitting. <b>2019</b> , 9, 1802939  | 74  |
| 910 | Fiber-shaped asymmetric supercapacitor exploiting rGO/Fe2O3 aerogel and electrodeposited MnOx nanosheets on carbon fibers. <b>2019</b> , 144, 91-100   | 35  |
| 909 | A novel route to the formation of 3D nanoflower-like hierarchical iron oxide nanostructure. <b>2019</b> , 30, 095601   | 8   |
| 908 | Characterization methods of zerovalent iron for water treatment and remediation. 2019, 148, 70-85  | 60  |
| 907 | Investigation on the surface layer formed during electrochemical modification of pure iron. <b>2019</b> , 466, 466-471   | 10  |
| 906 | A comparative study of the removal of methylene blue by iron nanoparticles from water and water-ethanol solutions. <b>2019</b> , 273, 274-281  | 21  |
| 905 | Formation and redox reactivity of ferrihydrite-organic carbon-calcium co-precipitates. <b>2019</b> , 244, 86-98  | 21  |
| 904 | Synthesis of magnetic biochar composites for enhanced uranium(VI) adsorption. 2019, 651, 1020-1028   | 142 |
| 903 | Activated carbon surface chemistry: Changes upon impregnation with Al(III), Fe(III) and Zn(II)-metal oxide catalyst precursors from NO3[aqueous solutions. <b>2019</b> , 12, 3963-3976                               | 22  |
| 902 | Immobilized Ferrous Ion and Glucose Oxidase on Graphdiyne and Its Application on One-Step Glucose Detection. <b>2019</b> , 11, 2647-2654   | 56  |
| 901 | Transition metal oxides dispersed on Ti-MCM-41 hybrid core-shell catalysts for the photocatalytic degradation of Congo red colorant. <b>2020</b> , 349, 128-140  | 3   |
| 900 | Fe/Co/Ni mixed oxide nanoparticles supported on oxidized multi-walled carbon nanotubes as electrocatalysts for the oxygen reduction and the oxygen evolution reactions in alkaline media. <b>2020</b> , 357, 259-268 | 30  |
| 899 | Surface chemistry of BSCF material after Ar+ ion treatment and at elevated temperatures. <b>2020</b> , 175, 108340   | Ο   |

| 898 | Synthesis of Highly Effective ⊞e2O3 Catalyst for the Spin Conversion of Liquid Hydrogen. <b>2020</b> , 90, 399-409   | 1  |
|-----|--|----|
| 897 | Electronic metal-support interactions in Pt/FeOx nanospheres for CO oxidation. <b>2020</b> , 355, 539-546  | 11 |
| 896 | Microstrain analyses of Fe3O4NPs greenly synthesized using Gardenia jasminoides flower extract, during the photocatalytic removal of a commercial dye. <b>2020</b> , 10, 127-140 | 5  |
| 895 | Laser surface texturing of SS316L for enhanced adhesion of HUVECs. <b>2020</b> , 36, 1240-1249   | 8  |
| 894 | Rhodamine B Adsorptive Removal and Photocatalytic Degradation on MIL-53-Fe MOF/Magnetic Magnetite/Biochar Composites. <b>2020</b> , 30, 214-229                                  | 44 |
| 893 | Influence of surface dissolution on sodium oleate adsorption on ilmenite and its gangue minerals by ultrasonic treatment. <b>2020</b> , 500, 144038                              | 51 |
| 892 | Constructing a disorder/order structure for enhanced magnesium storage. <b>2020</b> , 382, 123049  | 8  |
| 891 | Subcritical and supercritical water in-situ gasification of metal (Ni/Ru/Fe) impregnated banana pseudo-stem for hydrogen rich fuel gas mixture. <b>2020</b> , 45, 18348-18362    | 14 |
| 890 | Quantitative investigation into the enhancing utilization efficiency of H2O2 catalyzed by FeOCl under visible light. <b>2020</b> , 386, 112072                                   | 15 |
| 889 | Curve fitting complex X-ray photoelectron spectra of graphite-supported copper nanoparticles using informed line shapes. <b>2020</b> , 505, 143841                               | 9  |
| 888 | A pH-sensitive coordination polymer network-based nanoplatform for magnetic resonance imaging-guided cancer chemo-photothermal synergistic therapy. <b>2020</b> , 23, 102071     | 14 |
| 887 | Cubic SiC Photoanode Coupling with Ni:FeOOH Oxygen-Evolution Cocatalyst for Sustainable Photoelectrochemical Water Oxidation. <b>2020</b> , 4, 1900364                           | 11 |
| 886 | A comparative analysis of real-time power optimization for organic Rankine cycle waste heat recovery systems. <b>2020</b> , 164, 114442  | 12 |
| 885 | TbFeO3 Ceramic: An Exciting Colossal Dielectric with Ferroelectric Properties. <b>2020</b> , 257, 1900236  | 8  |
| 884 | Facile synthesis of mesoporous anatase/rutile/hematite triple heterojunctions for superior heterogeneous photo-Fenton catalysis. <b>2020</b> , 263, 118335                       | 34 |
| 883 | The variation of microstructures, spectral characteristics and catalysis effects of Fe3+ and Zn2+ co-doped CeO2 solid solutions. <b>2020</b> , 38, 241-249                       | 3  |
| 882 | Self pH regulated iron(II) catalyst for radical free oxidation of benzyl alcohols. <b>2020</b> , 589, 117292   | 13 |
| 881 | Iron-copper bimetallic metal-organic frameworks for efficient Fenton-like degradation of sulfamethoxazole under mild conditions. <b>2020</b> , 241, 125002                       | 69 |

# (2020-2020)

| 880 | Elucidating Iron Speciation Tuned by Handling Metal Precursor for more Efficient Designing of Nanostructured Fenton Catalysts. <b>2020</b> , 150, 196-208  | 2  |
|-----|--|----|
| 879 | Nanostructured MgFe and CoCr layered double hydroxides for removal and sequestration of iodine anions. <b>2020</b> , 380, 122408   | 21 |
| 878 | Cobalt ferrite supported on carbon nitride matrix prepared using waste battery materials as a peroxymonosulfate activator for the degradation of levofloxacin hydrochloride. <b>2020</b> , 379, 122377 | 52 |
| 877 | Recycling of ultrafine NdFeB waste by the selective precipitation of rare earth and the electrodeposition of iron in hydrofluoric acid. <b>2020</b> , 230, 115870                                      | 18 |
| 876 | Utilizing red mud modified by simple treatments as a support to disperse ruthenium provides a high and stable performance for COx-free hydrogen production from ammonia. <b>2020</b> , 357, 425-435    | 9  |
| 875 | Insight into the influence of pyrolysis temperature on Fenton-like catalytic performance of magnetic biochar. <b>2020</b> , 380, 122518  | 42 |
| 874 | Microstructure, formation mechanism and magnetic properties of Fe1.82Si0.18@Al2O3 soft magnetic composites. <b>2020</b> , 493, 165744  | 17 |
| 873 | Effect of B-site substitution on structural, magnetic and optical properties of Ho2Ti2O7 pyrochlore oxide. <b>2020</b> , 138, 109267   | 2  |
| 872 | Evaluation of physico-chemical properties and biocompatibility of new surface functionalized Fe3O4 clusters of nanoparticles. <b>2020</b> , 501, 144267  | 8  |
| 871 | Preparation and characterization of hollow TiO2 nanospheres: The effect of Fe3+ doping on their microstructure and electronic structure. <b>2020</b> , 20, 178-185                                     | 7  |
| 870 | A Novel Despeckling Method for Medical Ultrasound Images Based on the Nonsubsampled Shearlet and Guided Filter. <b>2020</b> , 39, 1449-1470  | O  |
| 869 | Heme Cofactor-Resembling FeN Single Site Embedded Graphene as Nanozymes to Selectively Detect H2O2 with High Sensitivity. <b>2020</b> , 30, 1905410  | 99 |
| 868 | Ascorbic acid promoted magnetite Fenton degradation of alachlor: Mechanistic insights and kinetic modeling. <b>2020</b> , 267, 118383  | 52 |
| 867 | New interpretation and approach to curve fitting synchrotron X-ray photoelectron spectra of (Fe,Ni)9S8 fracture surfaces. <b>2020</b> , 504, 144458  | 5  |
| 866 | Preparation of magnetic, superhydrophobic/superoleophilic polyurethane sponge: Separation of oil/water mixture and demulsification. <b>2020</b> , 384, 123339  | 81 |
| 865 | Trimetallic Mn-Fe-Ni Oxide Nanoparticles Supported on Multi-Walled Carbon Nanotubes as High-Performance Bifunctional ORR/OER Electrocatalyst in Alkaline Media. <b>2020</b> , 30, 1905992              | 98 |
| 864 | Enhanced visible-light-assisted peroxymonosulfate activation on cobalt-doped mesoporous iron oxide for orange II degradation. <b>2020</b> , 263, 118332  | 33 |
| 863 | Fe-based soft magnetic composites with high permeability and low core loss by in situ coating ZnFe2O4 layer. <b>2020</b> , 55, 274-282   | 8  |

| 862 | Electrochemical and Microstructural Investigations of PtFe Nanocompounds Synthesized by Atmospheric-Pressure Plasma Jet. <b>2020</b> , 167, 056501  | 2   |
|-----|---|-----|
| 861 | Polysulfides anchoring and enhanced electrochemical kinetics of 3D flower-like FeS/carbon assembly materials for lithium-sulfur battery. <b>2020</b> , 508, 145286  | 22  |
| 860 | Facile aqueous synthesis of high performance Na2FeM(SO4)3 (M = Fe, Mn, Ni) alluaudites for low cost Na-ion batteries. <b>2020</b> , 8, 2728-2740  | 11  |
| 859 | Identifying protons trapped in hematite photoanodes through structure-property analysis. <b>2019</b> , 11, 1085-1096  | 5   |
| 858 | Rational design of 2D hierarchically laminated Fe3O4@nanoporous carbon@rGO nanocomposites with strong magnetic coupling for excellent electromagnetic absorption applications. <b>2020</b> , 8, 2123-2134 | 119 |
| 857 | Oxygen-sulfur Co-substitutional Fe@C nanocapsules for improving microwave absorption properties. <b>2020</b> , 65, 623-630  | 40  |
| 856 | Negative capacitance switching in size-modulated FeO nanoparticles with spontaneous non-stoichiometry: confronting its generalized origin in non-ferroelectric materials. <b>2020</b> , 12, 1528-1540     | 7   |
| 855 | Structural combination of polar hollow microspheres and hierarchical N-doped carbon nanotubes for high-performance Li-S batteries. <b>2020</b> , 12, 2142-2153  | 10  |
| 854 | Natural catalyst mediated ARGET and SARA ATRP of N-isopropylacrylamide and methyl acrylate. <b>2020</b> , 11, 687-694   | 9   |
| 853 | Hydroxylamine-assisted peroxymonosulfate activation using cobalt ferrite for sulfamethoxazole degradation. <b>2020</b> , 386, 123751  | 18  |
| 852 | Enhancement in photovoltaic properties of bismuth ferrite/zinc oxide heterostructure solar cell device with graphene/indium tin oxide hybrid electrodes. <b>2020</b> , 46, 9161-9169                      | 13  |
| 851 | Mechanisms for cadmium adsorption by magnetic biochar composites in an aqueous solution. <b>2020</b> , 246, 125701  | 82  |
| 850 | Investigations of FeCl3 adducted N-heterocyclic carbene complex as curing-delayed action catalyst for polyurethane polymerization. <b>2020</b> , 382, 77-85   | 3   |
| 849 | Study on novel Fe-based core-shell structured soft magnetic composites with remarkable magnetic enhancement by in-situ coating nano-ZnFe2O4 layer. <b>2020</b> , 500, 166321                              | 12  |
| 848 | Modification of polyethylenel surface properties by high fluence Fe implantation. 2020, 462, 143-153  | 1   |
| 847 | Single-step solid-state synthesis and characterization of Li4Ti5\(\mathbb{I}\)FexO12\(\mathbb{I}\) (0 \(\mathbb{R}\) \(\mathbb{D}\).1) as an anode for lithium-ion batteries. <b>2020</b> , 8, 2627-2636  | 15  |
| 846 | High-entropy alloy nanoparticles on aligned electronspun carbon nanofibers for supercapacitors. <b>2020</b> , 822, 153642   | 27  |
| 845 | Ultrafast construction of interfacial sites by wet chemical etching to enhance electrocatalytic oxygen evolution. <b>2020</b> , 69, 104367  | 31  |

# (2020-2020)

| 844 | Pyrolytic production of zerovalent iron nanoparticles supported on rice husk-derived biochar: simple, in situ synthesis and use for remediation of Cr(VI)-polluted soils. <b>2020</b> , 708, 134479       | 38 |
|-----|---|----|
| 843 | Regulating Voltage Window and Energy Density of Aqueous Asymmetric Supercapacitors by Pinecone-Like Hollow Fe2O3/MnO2 Nano-Heterostructure. <b>2020</b> , 7, 1901729                                      | 21 |
| 842 | Hierarchical trimetallic layered double hydroxide nanosheets derived from 2D metal-organic frameworks for enhanced oxygen evolution reaction. <b>2020</b> , 264, 118532                                   | 38 |
| 841 | Polyoxometalate intercalated NiFe layered double hydroxides for advanced water oxidation. <b>2020</b> , 45, 1802-1809   | 14 |
| 840 | Construction of Fe2O3@CuO Heterojunction Nanotubes for Enhanced Oxygen Evolution Reaction. <b>2020</b> , 3, 666-674   | 27 |
| 839 | Mn0.7Fe2.3O4 Nanoplatelets Embedded in BaTiO3 Perovskite Thin Films for Multifunctional Composite Barriers. <b>2020</b> , 3, 327-341  | 1  |
| 838 | Intrinsic piezoelectric characterization of BiFeO3 nanofibers and its implications for energy harvesting. <b>2020</b> , 509, 144760   | 15 |
| 837 | Low concentration of Fe(II) to enhance the precipitation of U(VI) under neutral oxygen-rich conditions. <b>2020</b> , 711, 134827   | 9  |
| 836 | Phosphate removal from industrial wastewater through in-situ Fe oxidation induced homogenous precipitation: Different oxidation approaches at wide-ranged pH. <b>2020</b> , 255, 109849                   | 11 |
| 835 | Photocatalytic reduction of Cr(VI) by iron tungstosilicate under visible light. <b>2020</b> , 562, 12-20  | 8  |
| 834 | Evolution of magnetism and electrical properties in the doped pyrochlore iridate Y2Ir2HexO7. <b>2020</b> , 498, 166214  | 1  |
| 833 | (Co,Fe)3O4 Decorated Nitrogen-Doped Carbon Nanotubes in Nano-Composite Gas Diffusion Layers as Highly Stable Bifunctional Catalysts for Rechargeable Zinc-Air Batteries. <b>2020</b> , 3, 174-184         | 12 |
| 832 | Iron-doping induced multiferroic in two-dimensional In2Se3. <b>2020</b> , 63, 421-428   | 16 |
| 831 | Aluminium doping in iron oxide nanoporous structures to tailor material properties for photocatalytic applications. <b>2020</b> , 50, 81-92   | 5  |
| 830 | Effect of iron doping on the hydrophobicity of titanium dioxide film: experiment and simulation. <b>2020</b> , 118, e1696477  |    |
| 829 | Porous Fe2O3-ZrO2 and NiO-ZrO2 nanocomposites for catalytic N2O decomposition. <b>2020</b> , 348, 166-176   | 7  |
| 828 | Proteic sol-gel synthesis, structure and battery-type behavior of Fe-based spinels (MFe2O4, M = Cu, Co, Ni). <b>2020</b> , 31, 604-613  | 14 |
| 827 | The protection mechanism offered by Heterophragma adenophyllum extract against Fe-C steel dissolution at low pH: Computational, statistical and electrochemical investigations. <b>2020</b> , 132, 107400 | 7  |

| 826 | Ammonia decomposition on a highly-dispersed carbon-embedded iron catalyst derived from Fe-BTC: Stable and high performance at relatively low temperatures. <b>2020</b> , 45, 28664-28681             | 12  |
|-----|--|-----|
| 825 | Role of morphology, composition, and structure on the optical response of nanostructured hematite thin films. <b>2020</b> , 110, 110496  | 1   |
| 824 | Resistive switching behavior in epitaxial brownmillerite SrFeO2.5/Nb:SrTiO3 heterojunction. <b>2020</b> , 117, 143503  | 6   |
| 823 | Al3+-doped 3d-transitional metal (Mn/Cu) ferrite impregnated rGO for PEC water-splitting/supercapacitor electrode with oxygen vacancies and surface intercalation aspects. <b>2020</b> , 202, 108431 | 14  |
| 822 | Fe-MOFs as signal probes coupling with DNA tetrahedral nanostructures for construction of ratiometric electrochemical aptasensor. <b>2020</b> , 1135, 123-131  | 10  |
| 821 | Inhibition effect and mechanism of polyacrylamide for steel corrosion in simulated concrete pore solution. <b>2020</b> , 259, 120425   | 11  |
| 820 | Selective flotation of rutile from almandine using sodium carboxymethyl cellulose (Na-CMC) as a depressant. <b>2020</b> , 157, 106544  | 5   |
| 819 | Investigations of TM (Ni, Co) doping on structural, optical and magnetic properties of CeO2 nanoparticles. <b>2020</b> , 181, 109717   | 6   |
| 818 | Sequential Catalytic, Magnetic Targeting Nanoplatform for Synergistic Photothermal and NIR-Enhanced Chemodynamic Therapy. <b>2020</b> , 32, 9868-9881  | 18  |
| 817 | Assessing magnetic and inductive thermal properties of various surfactants functionalised FeO nanoparticles for hyperthermia. <b>2020</b> , 10, 15045  | 37  |
| 816 | A pyridinic Fe-N macrocycle models the active sites in Fe/N-doped carbon electrocatalysts. <b>2020</b> , 11, 5283  | 107 |
| 815 | Single-Atom Catalysts across the Periodic Table. <b>2020</b> , 120, 11703-11809  | 237 |
| 814 | Resource utilization of secondary pyrolysis oil-based drilling cuttings ash for removing Cr (VI) contaminants: Adsorption properties, kinetics and mechanism. <b>2020</b> , 8, 104474                | 18  |
| 813 | Anion Etching for Accessing Rapid and Deep Self-Reconstruction of Precatalysts for Water Oxidation. <b>2020</b> , 3, 2124-2137   | 86  |
| 812 | Atomic scale structure and surface chemistry of Fe oxides/carbonates-based composites precipitated at various temperatures via urea-supported hydrothermal synthesis. <b>2020</b> , 106, 106331      | 3   |
| 811 | High Throughput Discovery of Effective Metal Doping in FeVO4 for Photoelectrochemical Water Splitting. <b>2020</b> , 4, 2000437  | 2   |
| 810 | Theoretical and experimental study of the anion carboxylate in quaternary-ammonium-derived ionic liquids for inhibiting the corrosion of API X60 steel in 1′M H2SO4. <b>2020</b> , 318, 114075       | 9   |
| 809 | Stable surface construction of the Ni-rich LiNi0.8Mn0.1Co0.1O2 cathode material for high performance lithium-ion batteries. <b>2020</b> , 8, 21649-21660   | 15  |

# (2020-2020)

| 808 | Electrocatalytic reduction of carbon dioxide on goldflopper bimetallic nanoparticles: Effects of surface composition on selectivity. <b>2020</b> , 356, 136756                              | 15 |
|-----|---|----|
| 807 | Singlet oxygen mediated the selective removal of oxytetracycline in C/FeC/Fe system as compared to chloramphenicol. <b>2020</b> , 143, 105899   | 11 |
| 806 | One-step recovery of REE oxalates in electro-leaching of spent NdFeB magnets. <b>2020</b> , 251, 117362   | 9  |
| 805 | Synthesis and Characterization of SrFeMn(O,F) Oxide (월 0 and 0.5) and Oxyfluoride Perovskite Films. <b>2020</b> , 59, 9990-9997   | 3  |
| 804 | Experimental and theoretical studies of azomethines derived from benzylamine as corrosion inhibitors of mild steel in 1 M HCl. <b>2020</b> , 1222, 128899                                   | 14 |
| 803 | Binding of Fe(II)-complex of phenanthroline appended glycoconjugate with DNA, plasmid and an agglutinin protein. <b>2020</b> , 44, 11727-11738  |    |
| 802 | Steam reforming of ethylene over nickel based spinel oxides. <b>2020</b> , 603, 117739  | 6  |
| 801 | Barium aluminate improved iron ore for the chemical looping combustion of syngas. <b>2020</b> , 272, 115236   | 20 |
| 800 | Effect of magnesia-to-phosphate ratio on the passivation of mild steel in magnesium potassium phosphate cement. <b>2020</b> , 174, 108848   | 7  |
| 799 | An efficient Egeria najas-derived biochar supported nZVI composite for Cr(VI) removal: Characterization and mechanism investigation based on visual MINTEQ model. <b>2020</b> , 189, 109912 | 29 |
| 798 | Site selective adsorption of the spin crossover complex Fe(phen)2(NCS) on Au(111). 2020, 32, 324003   | 7  |
| 797 | Behavior and mechanism of sodium sulfite depression of almandine from rutile in flotation system. <b>2020</b> , 374, 49-57  | 3  |
| 796 | The facile and additive-free synthesis of a cell-friendly iron(iii)-glutathione complex. 2020, 49, 10574-10579  | 1  |
| 795 | Adsorption of dichromate ions from aqueous solution onto magnetic graphene oxide modified by Etyclodextrin. <b>2020</b> , 27, 30778-30788   | 9  |
| 794 | 1-Vinyl-3-allyl Imidazolium Bromide as a New Corrosion Inhibitor for Carbon Steel in 1 M HCl Solution. <b>2020</b> , 5, 13511-13523   | 1  |
| 793 | Multi-Component Mesocrystalline Nanoparticles with Enhanced Photocatalytic Activity. <b>2020</b> , 16, e2004696   | 7  |
| 792 | Piezoelectric field-promoted heterogeneous sono-Fenton performance of MoS2/年e2O3 heterojunction structure. <b>2020</b> , 534, 147499  | 14 |
| 791 | Layer-by-Layer Epitaxy of Porphyrin[ligand Fe(II)-Fe(III) Nanoarchitectures for Advanced Metal[Drganic Framework Growth. <b>2020</b> , 3, 11752-11759                                       | 5  |

| 79° | Synthesis, structural, magnetic, textural, optical investigation and photocatalytic performance of undoped and doped cobaltite nanoparticles. <b>2020</b> , 73, 3431-3451  | 2           |
|-----|--|-------------|
| 789 | Fabrication of Fe-POMs as Visible-light-active Heterogeneous Photocatalyst. <b>2020</b> , 36, 1128-1135  | 1           |
| 788 | Construction of Synthetic Models for Nitrogenase-Relevant NifB Biogenesis Intermediates and Iron-Carbide-Sulfide Clusters. <b>2020</b> , 10, 1317  | 2           |
| 787 | Unmodified Maghemite from River Sand as a Selective Catalyst for Base-Free Transfer<br>Hydrogenation of Furfural, Levulinic Acid, and o-Vanillin: A Pathway for Sustainable Biomass<br>Conversions. <b>2020</b> , 8, 17069-17078 | 3           |
| 786 | Paramagnetic Conducting Metal Drganic Frameworks with Three-Dimensional Structure. <b>2020</b> , 132, 21059-21064  | 1           |
| 785 | Fe(III)-Oxidized Graphitic Carbon Nitride Nanosheets as a Sensitive Fluorescent Sensor for Detection and Imaging of Fluoride Ions. <b>2020</b> , 321, 128630   | 6           |
| 784 | Hexagonal Fe-based MIL-88B nanocrystals with NH2 functional groups accelerating oxytetracycline capture via hydrogen bonding. <b>2020</b> , 20, 100605   | 15          |
| 783 | Preparation and properties of the anodized film on Fe-Cr-Al alloy surface. <b>2020</b> , 67, 379-386   | O           |
| 782 | An Eco-Friendly Fluidizable FexOy/CaO-EAl2O3 Catalyst for Tar Cracking during Biomass Gasification. <b>2020</b> , 10, 806  | 5           |
| 781 | Interaction of ultra-thin CoTPP films on Fe(001) with oxygen: Interplay between chemistry, order, and magnetism. <b>2020</b> , 128, 035501   | O           |
| 780 | Desulfurization Process and Kinetics of Fe/Activated Carbon Removal of H2S at Low Temperature. <b>2020</b> , 5, 8386-8393  | 3           |
| 779 | Fe-functionalized paramagnetic sporopollenin from pollen grains: one-pot synthesis using ionic liquids. <b>2020</b> , 10, 12005  | 1           |
| 778 | The Effect of the Processing Parameters on the Properties of the Liquid Phase Spark Plasma Sintered 80Fe-20(Al + MWCNT) Magnetic Metal Matrix Nanocomposites. <b>2020</b> , 10, 962  | 1           |
| 777 | Effects of metal-organic framework-derived iron carbide phases for CO hydrogenation activity to hydrocarbons. <b>2020</b> , 281, 118779  | 5           |
| 776 | Paramagnetic Conducting Metal-Organic Frameworks with Three-Dimensional Structure. <b>2020</b> , 59, 20873-208   | 87 <b>8</b> |
| 775 | Engineered hybrid nanozyme catalyst cascade based on polysaccharide-enzyme-magnetic iron oxide nanostructures for potential application in cancer therapy. <b>2020</b> ,   | 4           |
| 774 | Efficient inhibition of Salmonella on chestnuts via Fe3C/N-C bacteriostatic suspension prepared by electrochemical method. <b>2020</b> , 118, 108034   | 0           |
| 773 | One-step synthesis of high-amount Fe-doped hollow MFI zeolite by Kirkendall effect in the presence of organic acid anions. <b>2020</b> , 307, 110451   | 13          |

| 772 | Catalytic decomposition of toxic phosphine gas on the developed nickel ferrite nanocrystals supported by Halloysite nanotubes. <b>2020</b> , 530, 147264                                   | 4  |
|-----|--|----|
| 771 | Corrosion inhibition properties of iodide ionic liquids for API 5L X52 steel in acid medium. <b>2020</b> , 175, 108888   | 28 |
| 770 | Structure vs chemistry: Tribological behavior of TiN films in the nitrogen atmosphere. <b>2020</b> , 46, 28053-28063   | 5  |
| 769 | Development of NiHe based ternary metal hydroxides as highly efficient oxygen evolution catalysts in AEM water electrolysis for hydrogen production. <b>2020</b> , 45, 24232-24247         | 25 |
| 768 | Stability of radical-functionalized gold surfaces by self-assembly and on-surface chemistry. <b>2020</b> , 11, 9162-9172   | 7  |
| 767 | Ferrocene functionalized multi-walled carbon nanotubes as supercapacitor electrodes. <b>2020</b> , 318, 114064   | 29 |
| 766 | Effect of atomization on surface oxide composition in 316L stainless steel powders for additive manufacturing. <i>Surface and Interface Analysis</i> , <b>2020</b> , 52, 694-706           | 16 |
| 765 | Understanding the Growth Mechanism of Hematite Nanoparticles: The Role of Maghemite as an Intermediate Phase. <b>2021</b> , 21, 16-22  | 2  |
| 764 | Anodic self-assembly method for synthesizing hierarchical FeS/FeOx hollow nanospheres. <b>2021</b> , 484, 229268   | 3  |
| 763 | The importance of the iron valence state in NiCoFe nanosheet array catalysts for the oxygen evolution reaction. <b>2021</b> , 8, 766-776   | 2  |
| 762 | Evaluation of degradation and mineralization of glyphosate pollutant in wastewater using catalytic wet air oxidation over Fe-dispersed carbon nanofibrous beads. <b>2021</b> , 417, 128029 | 10 |
| 761 | Enhancement effect of oxygen mobility over Ce0.5Zr0.5O2 catalysts doped by multivalent metal oxides for soot combustion. <b>2021</b> , 286, 119359   | 13 |
| 760 | Highly efficient and recyclable Fe3C/Au@NG catalyst for 4-nitrophenol reduction. 2021, 149, 106251   | 11 |
| 759 | A facile route to insulate an Fe-based nanocrystalline alloy powder for magnetic composite cores. <b>2021</b> , 264, 114928  | 1  |
| 758 | Bimetallic Fetto chalcogenophosphates as highly efficient bifunctional electrocatalysts for overall water splitting. <b>2021</b> , 46, 3354-3364   | 10 |
| 757 | Fast sodium intercalation in Na3.41£0.59FeV(PO4)3: A novel sodium-deficient NASICON cathode for sodium-ion batteries. <b>2021</b> , 35, 192-202  | 19 |
| 756 | Selective visible-light-driven toxicity breakdown of nerve agent simulant methyl paraoxon over a photoactive nanofabric. <b>2021</b> , 285, 119774   | 7  |
| 755 | Anionic conduction mediated giant n-type Seebeck coefficient in doped Poly(3-hexylthiophene) free-standing films. <b>2021</b> , 16, 100307   | 6  |

| 754 | CoFe2O4/Fe2O3 on carbon cloth as binder free electrodes for desalination using capacitive deionization method. <b>2021</b> , 35, 530-543   | O  |
|-----|--|----|
| 753 | Interconnected ⊞e2O3 nanoparticles prepared from leaching liquor of tin ore tailings as anode materials for lithium-ion batteries. <b>2021</b> , 855, 157288   | 15 |
| 752 | Nickel-Iron Alloy Nanoparticle Characteristics Pre- and Post-Reaction With Orange G. <b>2021</b> , 2, 16-25  | O  |
| 751 | Systematic investigations on iron cycling in phosphorus/siderophore systems: Synergism or antagonism?. <b>2021</b> , 124, 104796   | O  |
| 75° | High Entropy and Low Symmetry: Triclinic High-Entropy Molybdates. <b>2021</b> , 60, 115-123  | 3  |
| 749 | Green palladium nanoparticles prepared with glycerol and supported on maghemite for dye removal application. <b>2021</b> , 9, 104856   | 5  |
| 748 | A coaxial spiral SiO2@Fe2O3 nanowire as lithium-ion battery anode exhibiting stable rate-performance. <b>2021</b> , 285, 129107  | 5  |
| 747 | Competitive photocatalytic activity of ionic crystal decorated magnetic graphene oxide/cobalt monoxide nanocomposite: Comparison to its MWCNTs analogue. <b>2021</b> , 111, 108209   | 3  |
| 746 | Efficient and durable FeCoNi-(Oxy)hydroxide anode: Stoichiometric ration regulated morphology-, defect- and valence-dependent water oxidation performance. <b>2021</b> , 417, 127934                                       | 1  |
| 745 | Highly efficient and air stable thermoelectric devices of poly(3-hexylthiophene) by dual doping of Au metal precursors. <b>2021</b> , 82, 105681   | 12 |
| 744 | Homologous alkyl side-chain diphosphonate inhibitors for the corrosion protection of carbon steels. <b>2021</b> , 405, 126864  | 8  |
| 743 | Porous TiO2 <b>E</b> eTiO3@Carbon nanocomposites as anode for high-performance lithium-ion batteries. <b>2021</b> , 858, 157635  | 5  |
| 742 | Performance and Lubrication Mechanism of New TiO2 Nanoparticle-Based High-Performance Lubricant Additives. <b>2021</b> , 64, 325-340   | 0  |
| 741 | Single-Step Sulfur Insertions into Iron Carbide Carbonyl Clusters: Unlocking the Synthetic Door to FeMoco Analogues. <b>2021</b> , 133, 3475-3479  |    |
| 740 | Energy storage properties of bismuth ferrite based ternary relaxor ferroelectric ceramics through a viscous polymer process. <b>2021</b> , 412, 127555   | 38 |
| 739 | Novel microwave-driven synthesis of hydrophilic polyvinylidene fluoride/polyacrylic acid (PVDF/PAA) membranes and decoration with nano zero-valent-iron (nZVI) for water treatment applications. <b>2021</b> , 620, 118817 | 14 |
| 738 | Observation of Cluster Glass and Griffiths-like Phase in Fe3O4 Nanostructures. <b>2021</b> , 258, 2000341  | 1  |
| 737 | Iron-based binary metal-organic framework nanorods as an efficient catalyst for the oxygen evolution reaction. <b>2021</b> , 42, 637-647   | 22 |

| 736 | Kinetic studies of graphene oxide towards the removal of rhodamine B and congo red. <b>2021</b> , 101, 1258-1272   | 4  |
|-----|--|----|
| 735 | Electrodecoration and Characterization of Superparamagnetic Iron Oxide Nanoparticles with Bioactive Synergistic Nanocopper: Magnetic Hyperthermia-Induced Ionic Release for Anti-Biofilm Action. <b>2021</b> , 10,   | 6  |
| 734 | FeO-based nanocomposites: synthesis, characterization, and photocatalytic response towards wastewater treatment. <b>2021</b> , 28, 17697-17711   | 7  |
| 733 | Oxygen vacancy mediated room-temperature ferromagnetism and band gap narrowing in DyFeCrO nanoparticles. <b>2021</b> , 50, 9519-9528   | О  |
| 732 | The crystal growth and properties of novel magnetic double molybdate RbFe5(MoO4)7 with mixed Fe3+/Fe2+ states and 1D negative thermal expansion. <b>2021</b> , 23, 3297-3307   | 6  |
| 731 | Synthesis and Characterization of a New Cu (BHB)2/Fe-MIL-101-NH2 Composite: A Novel Hydrogen Peroxide Sensor based upon the Bimetallic Complex. <b>2021</b> , 168, 017508  | 2  |
| 730 | Activation of inorganic peroxides with magnetic graphene for the removal of antibiotics from wastewater. <b>2021</b> , 8, 960-977  | 14 |
| 729 | Solvothermal phase change induced morphology transformation in CdS/CoFe2O4@Fe2O3 hierarchical nanosphere arrays as ternary heterojunction photoanodes for solar water splitting. <b>2021</b> , 45, 12721-12737       | 4  |
| 728 | A(NH3)xFePS3 (A = Li, K): intercalated Fe thiophosphate via the liquid ammonia method. <b>2021</b> , 5, 2715-2723  | 1  |
| 727 | Metal doping of porous materials via a post-synthetic mechano-chemical approach: a general route to design low-loaded versatile catalytic systems. <b>2021</b> , 11, 2103-2109                                       | 1  |
| 726 | High-performance Pt0.01Fe0.05-g-C3N4 Catalyst for Photothermal Catalytic CO2 Reduction. <b>2021</b> , 79, 932  | 4  |
| 725 | Fabrication of GdxFeyOz films using an atomic layer deposition-type approach. <b>2021</b> , 23, 730-740  | O  |
| 724 | Boosting the oxygen evolution activity in non-stoichiometric praseodymium ferrite-based perovskites by A site substitution for alkaline electrolyser anodes. <b>2021</b> , 5, 154-165                                | 4  |
| 723 | Mitigation of top- and bottom-of-the-line CO2 corrosion in the presence of acetic acid (I): pH control using methyl diethanolamine. <b>2021</b> , 72, 1177   | 2  |
| 722 | Synthesis of Nanoscale Fe2O3 Powders with Hydrates via Microwave-Assisted Heat Treatment. <b>2021</b> , 17, 240-249  |    |
| 721 | Chemically modified guar gum and ethyl acrylate composite as a new corrosion inhibitor for reduction in hydrogen evolution and tubular steel corrosion protection in acidic environment. <b>2021</b> , 46, 9452-9465 | 12 |
| 720 | Low-Overpotential LiF Splitting in Lithiated Fluoride Conversion Cathode Catalyzed by Spinel Oxide. <b>2021</b> , 31, 2009133  | 3  |
| 719 | Insight into magnetic properties in zinc ferrite thin films by tuning oxygen content. <b>2021</b> , 22, 77-83  | 5  |

| 718 | Influence of iron oxides and calcareous deposits on the hydrogen permeation rate in X65 steel in a simulated groundwater. <b>2021</b> , 46, 6669-6679  | 4  |
|-----|--|----|
| 717 | Magnetic Phase Transition without Heat Treatment of the as-Deposited Iron Oxide Nanoparticulate Films Prepared by Sparking Process under External Magnetic Fields. <b>2021</b> , 214, 115-122  | 1  |
| 716 | Engineered Nanoscale Single-Metal-Oxides Catalytic Thin Films for High-Performance Water Oxidation. <b>2021</b> , 9, 2000896   | 4  |
| 715 | Investigations on the capacity and mechanism of iron uptake by nano zero-valent iron particles. <b>2021</b> , 44, 1  | 1  |
| 714 | Thin-film iron-oxide nanobeads as bifunctional electrocatalyst for high activity overall water splitting. <b>2021</b> , 46, 7885-7902  | 10 |
| 713 | Exploring the role of Fe substitution on electronic, structural, and magnetic properties of La2NiMnO6 double perovskites. <b>2021</b> , 127, 1   | 1  |
| 712 | Microwave absorption performance of Ni0.5Zn0.5Fe2O4 nanoclusters at 8.2🛮 8 GHz frequency. 1  | 3  |
| 711 | Preparation of soluble ferrous complex with high alkaline stability by reducing iron nanoparticle in Maillard reaction. <b>2021</b> , 75, 3227-3239  | 1  |
| 710 | Enhanced degradation of carbamazepine in FeOCl based Photo-Fenton reaction. 2021, 9, 104501  | 13 |
| 709 | Urtica Diocia Leaves Extract: A Natural Resource to Reduce Iron Salt to Synthesize Fe<br>Nanoparticles. <b>2021</b> , 1849, 012035   |    |
| 708 | Green Synthesis of Iron Nanoparticles Using Green Tea and Its Removal of Hexavalent Chromium. <b>2021</b> , 11,  | 15 |
| 707 | Corrosion inhibition of carbon steel in hydrochloric acid: Elucidating the performance of an imidazoline-based surfactant. <b>2021</b> , 180, 109195   | 21 |
| 706 | The Effect of Degrees of Inversion on the Electronic Structure of Spinel NiCoO: A Density Functional Theory Study. <b>2021</b> , 6, 9692-9699  | 9  |
| 705 | Valleriite, a Natural Two-Dimensional Composite: X-ray Absorption, Photoelectron, and M\(\mathbb{B}\)sbauer Spectroscopy, and Magnetic Characterization. <b>2021</b> , 6, 7533-7543            | O  |
| 704 | On the Interaction between Uniaxial Stress Loading and the Corrosion Behavior of the ISO 5832-1 Surgical Stainless Steel. <b>2021</b> , 30, 2691-2707  | О  |
| 703 | Preparation of silicon-doped ferrihydrite for adsorption of lead and cadmium: Property and mechanism. <b>2021</b> , 32, 3169-3169  | 7  |
| 702 | Low cost effective heterogeneous photo-Fenton catalyst from drinking water treatment residuals for reactive blue 19 degradation: Preparation and characterization. <b>2021</b> , 93, 1097-1106 | 2  |
| 701 | Tuning Co Coordination in Cobalt Layered Double Hydroxide Nanosheets via Fe Doping for Efficient Oxygen Evolution. <b>2021</b> , 60, 5252-5263   | 15 |

# (2021-2021)

| 700                      | Multifunctional hybrid nanoplatform based on FeO@Ag NPs for nitric oxide delivery: development, characterization, therapeutic efficacy, and hemocompatibility. <b>2021</b> , 32, 23   | 3                |
|--------------------------|---|------------------|
| 699                      | Functionalization of Mn2O3/PdO/ZnO electrocatalyst using organic template with accentuated electrochemical potential toward water splitting.  | 1                |
| 698                      | Lignin-Based Magnetic Nanoparticle Adsorbent for Diclofenac Sodium Removal: Adsorption Behavior and Mechanisms. <b>2021</b> , 29, 3401-3411   | 4                |
| 697                      | Combined multiplet theory and experiment for the Fe 2p and 3p XPS of FeO and FeO. <b>2021</b> , 154, 094709   | 14               |
| 696                      | Effects of Fe Doping on Defects, Structural Disorder, and Optical and Magnetic Properties of SnO2 Nanoparticles. <b>2021</b> , 34, 1287-1296  | Ο                |
| 695                      | Facile Synthesis of Fe/Cr-Codoped ZnO Nanoparticles with Excellent Adsorption Performance for Various Pollutants. <b>2021</b> , 20, 349-360   | 1                |
| 694                      | Molecular Mechanism of Thermal Dry Etching of Iron in a Two-Step Atomic Layer Etching Process: Chlorination Followed by Exposure to Acetylacetone. <b>2021</b> , 125, 7142-7154   | 6                |
| 693                      | Air-Cathode with 3D Multiphase Electrocatalyst Interface Design for High-Efficiency and Durable Rechargeable ZincAir Batteries. <b>2021</b> , 9, 2000999  | 1                |
| 692                      | Insight into influence mechanisms of pyrite and vernadite on the degradation performance of 2,2?,5-trichlorodiphenyl in a pyrophosphate-chelated Fenton-like reaction. <b>2021</b> , 410, 128345  | 2                |
|                          |   |                  |
| 691                      | A high-performance oxygen evolution electrode of nanoporous Ni-based solid solution by simulating natural meteorites. <b>2021</b> , 410, 128340   | 10               |
| 691<br>690               |   | 10               |
|                          | simulating natural meteorites. <b>2021</b> , 410, 128340  The mechanism of thermal oxide film formation on low Cr martensitic stainless steel and its   |                  |
| 690                      | The mechanism of thermal oxide film formation on low Cr martensitic stainless steel and its behavior in fluoride-based pickling solution in conversion treatment. <b>2021</b> , 181, 109206  Material stability assessment of R-1234ze(E) as a working fluid for supercritical organic Rankine  | 2                |
| 690<br>689               | The mechanism of thermal oxide film formation on low Cr martensitic stainless steel and its behavior in fluoride-based pickling solution in conversion treatment. <b>2021</b> , 181, 109206  Material stability assessment of R-1234ze(E) as a working fluid for supercritical organic Rankine cycle. <b>2021</b> , 96, 169-182  Facile modified polyol synthesis of FeCo nanoparticles with oxyhydroxide surface layer as efficient  | 2<br>O           |
| 690<br>689<br>688        | The mechanism of thermal oxide film formation on low Cr martensitic stainless steel and its behavior in fluoride-based pickling solution in conversion treatment. 2021, 181, 109206  Material stability assessment of R-1234ze(E) as a working fluid for supercritical organic Rankine cycle. 2021, 96, 169-182  Facile modified polyol synthesis of FeCo nanoparticles with oxyhydroxide surface layer as efficient oxygen evolution reaction electrocatalysts. 2021, 46, 15398-15409  A nanosized metalorganic framework for visual detection of fluoride ions with smartphone via  | 2 0              |
| 690<br>689<br>688<br>687 | The mechanism of thermal oxide film formation on low Cr martensitic stainless steel and its behavior in fluoride-based pickling solution in conversion treatment. 2021, 181, 109206  Material stability assessment of R-1234ze(E) as a working fluid for supercritical organic Rankine cycle. 2021, 96, 169-182  Facile modified polyol synthesis of FeCo nanoparticles with oxyhydroxide surface layer as efficient oxygen evolution reaction electrocatalysts. 2021, 46, 15398-15409  A nanosized metalBrganic framework for visual detection of fluoride ions with smartphone via colorimetric test kit. 2021, 332, 129508  IR780-Loaded Hyaluronic Acid@GossypolEe(III)EGCG Infinite Coordination Polymer Nanoparticles   | 2<br>0<br>3      |
| 690<br>689<br>688<br>687 | The mechanism of thermal oxide film formation on low Cr martensitic stainless steel and its behavior in fluoride-based pickling solution in conversion treatment. 2021, 181, 109206  Material stability assessment of R-1234ze(E) as a working fluid for supercritical organic Rankine cycle. 2021, 96, 169-182  Facile modified polyol synthesis of FeCo nanoparticles with oxyhydroxide surface layer as efficient oxygen evolution reaction electrocatalysts. 2021, 46, 15398-15409  A nanosized metalBrganic framework for visual detection of fluoride ions with smartphone via colorimetric test kit. 2021, 332, 129508  IR780-Loaded Hyaluronic Acid@GossypolEe(III)EGCG Infinite Coordination Polymer Nanoparticles for Highly Efficient Tumor Photothermal/Coordinated Dual Drugs Synergistic Therapy. 2021, 31, 2100954  Cu, Fe and Mn oxides intercalated SiO2 pillared magadiite and ilerite catalysts for NO | 2<br>0<br>3<br>7 |

| 682 | Preparation of biochar grafted with amino-riched dendrimer by carbonization, magnetization and functional modification for enhanced copper removal. <b>2021</b> , 121, 349-359  | 10 |
|-----|---|----|
| 681 | Changes on the Surface of the SiO/C Composite, Leading to the Formation of Conductive Carbon Structures with Complex Nature of DC Conductivity. <b>2021</b> , 14,   |    |
| 680 | Effective toluene oxidation under ozone over mesoporous MnO/EAlO catalyst prepared by solvent deficient method: Effect of Mn precursors on catalytic activity. <b>2021</b> , 195, 110876  | 5  |
| 679 | Synergic photocatalytic degradation of 2,4,6-trichlorophenol using magnetic multi-walled carbon nanotubes/cobalt monoxide/ionic crystal quaternary system. <b>2021</b> , 151, 109897  | 1  |
| 678 | Effect of cyanate ester and graphene oxide as modifiers on corrosion protection performance of epoxy composite coating in sulfuric acid solution. <b>2021</b> , 182, 109266   | 6  |
| 677 | Insights on Thickness-Dependent Charge Transfer Efficiency Modulated by Ultrasonic Treatment in Hematite Photoanodes. <b>2021</b> , 125, 9981-9989  | 1  |
| 676 | Preparation and characterization of magnetic photocatalyst from the banded iron formation for effective photodegradation of methylene blue under UV and visible illumination. <b>2021</b> , 9, 105127                                       | 11 |
| 675 | Boosted peroxidase-like activity of metal-organic framework nanoparticles with single atom Fe(III) sites at low substrate concentration. <b>2021</b> , 1152, 338299   | 2  |
| 674 | Corrosion behavior of biodegradable metals in two different simulated physiological solutions: Comparison of Mg, Zn and Fe. <b>2021</b> , 182, 109278   | 25 |
| 673 | Insights on the Influence of Surface Chemistry and Rim Zone Microstructure of 42CrMo4 on the Efficiency of ECM. <b>2021</b> , 14,   | 1  |
| 672 | Morphological and Elemental Investigations on Co <b>FeBD</b> Thin Films Deposited by Pulsed Laser Deposition for Alkaline Water Oxidation: Charge Exchange Efficiency as the Prevailing Factor in Comparison with the Adsorption Process. 1 | O  |
| 671 | Raman-XPS spectroscopic investigation of heavy mineral sands along Indian coast. <b>2021</b> , 41, 1  | 2  |
| 670 | Microfluidic pore model study of precipitates induced by the pore-scale mixing of an iron sulfate solution with simulated groundwater. <b>2021</b> , 271, 129857  | 4  |
| 669 | Surface and interface analysis of iron sulfides in aqueous media using X-ray photoelectron spectroscopy of fast-frozen dispersions. <b>2021</b> , 549, 149261   | 6  |
| 668 | Role of the Oxide Support on the Structural and Chemical Evolution of Fe Catalysts during the Hydrogenation of CO2. <b>2021</b> , 11, 6175-6185   | 8  |
| 667 | A multi-factorial mathematical model for the selection of electropolishing parameters with a view to reducing the environmental impact. <b>2021</b> , 11, 9443  | 1  |
| 666 | Coating of Wood with FeO-Decorated Carbon Nanotubes by One-Step Combustion for Efficient Solar Steam Generation. <b>2021</b> , 13, 22845-22854  | 31 |
| 665 | Surface decoration and characterization of solar driven biochar for the removal of toxic aromatic pollutant. <b>2021</b> , 96, 2310   | 3  |

| 664 | Precursor Nuclearity and Ligand Effects in Atomically-Dispersed Heterogeneous Iron Catalysts for Alkyne Semi-Hydrogenation. <b>2021</b> , 13, 3247-3256  | 7  |
|-----|--|----|
| 663 | Electrospun nanocomposite fibers from lignin and iron oxide as supercapacitor material. <b>2021</b> , 12, 2153-2167  | 9  |
| 662 | Facial synthesis of ferric molybdate (Fe2(MoO4)3) nanoparticle and its efficiency for biodiesel synthesis via oleic acid esterification. <b>2021</b> , 22, 101386  | 2  |
| 661 | Fabrication of a sensitive colorimetric nanosensor for determination of cysteine in human serum and urine samples based on magnetic-sulfur, nitrogen graphene quantum dots as a selective platform and Au nanoparticles. <b>2021</b> , 226, 122055 | 10 |
| 660 | One-step fabrication of artificial humic acid-functionalized colloid-like magnetic biochar for rapid heavy metal removal. <b>2021</b> , 328, 124825  | 12 |
| 659 | Poly(ethylene-imine)-Functionalized Magnetite Nanoparticles Derivatized with Folic Acid: Heating and Targeting Properties. <b>2021</b> , 13,   | 4  |
| 658 | A Study on the effect of Cr doping on the Structural, Optical and Photovoltaic Properties of BFO based Heterostructures. <b>2021</b> ,   | 1  |
| 657 | Iron Quantum Dots Electro-Assembling on Vulcan XC-72R: Hydrogen Peroxide Generation for Space Applications. <b>2021</b> , 13, 29585-29601  | 1  |
| 656 | Promoting Effect of Supports with Oxygen Vacancies as Extrinsic Defects on the Reduction of Iron Oxide. <b>2021</b> , 125, 14299-14310   | 2  |
| 655 | High-capacity and high-rate Ni-Fe batteries based on mesostructured quaternary carbon/Fe/FeO/FeO hybrid material. <b>2021</b> , 24, 102547   | 5  |
| 654 | Improved NO Reduction over Phosphate-Modified FeO/TiO Catalysts Tailoring Reaction Paths by Creating Alkali-Poisoning Sites. <b>2021</b> , 55, 9276-9284   | 12 |
| 653 | The impact of an Amberlite XAD-16-based chelating resin for the removal of aqueous Cd(II) and Pb(II)ions. <b>2021</b> , 165, 106097  | 4  |
| 652 | Influence of Phase Composition and Pretreatment on the Conversion of Iron Oxides into Iron Carbides in Syngas Atmospheres. <b>2021</b> , 11, 773   | O  |
| 651 | Facile fabrication and characterization of kraft lignin@FeO nanocomposites using pH driven precipitation: Effects on increasing lignin content. <b>2021</b> , 181, 313-321   | 4  |
| 650 | Influence of Ca doping on X-ray photoelectron core-level spectra of magnetoelectric bulk BiFeO3.  Surface and Interface Analysis, <b>2021</b> , 53, 798-807  | Ο  |
| 649 | 3D-Stretched Film Ni S Nanosheet/Macromolecule Anthraquinone Derivative Polymers for Electrocatalytic Overall Water Splitting. <b>2021</b> , 17, e2101003  | 3  |
| 648 | Comments on the Theory of Complex XPS Spectra: Extracting Chemical Information from the Fe 3p XPS of Fe Oxides. 1-25   | 2  |
| 647 | Conductivity Modulation of 3D-Printed Shellular Electrodes through Embedding Nanocrystalline Intermetallics into Amorphous Matrix for Ultrahigh-Current Oxygen Evolution. <b>2021</b> , 11, 2100968  | 2  |

| 646 | Polymer-metal complexes as emerging catalysts for electrochemical reduction of carbon dioxide. <b>2021</b> , 51, 1301-1311  | 3  |
|-----|---|----|
| 645 | A Humins-Derived Magnetic Biochar for Water Purification by Adsorption and Magnetic Separation. <b>2021</b> , 12, 6497  | 2  |
| 644 | A manganese hexacyanoferrate framework with enlarged ion tunnels and two-species redox reaction for aqueous Al-ion batteries. <b>2021</b> , 84, 105945  | 20 |
| 643 | Low temperature SCR of NOx over Mn/Fe mixed oxides catalyst: comparison of synthesis methods. <b>2021</b> , 96, 2681-2695   | 3  |
| 642 | Efficient Decomposition of Organic Pollutants over nZVI/FeOx/FeNy-Anchored NC Layers via a Novel Dual-Reaction-Centers-Based Wet Air Oxidation Process under Natural Conditions. <b>2021</b> , 1, 1333-1341 | 3  |
| 641 | Synergetic effect of two inhibitors for enhanced corrosion protection on the reinforcing steel in the chloride-contaminated carbonated solutions. <b>2021</b> , 286, 122916                                 | 4  |
| 640 | In-situ generated Ni-MOF/LDH heterostructures with abundant phase interfaces for enhanced oxygen evolution reaction. <b>2021</b> , 286, 119906  | 30 |
| 639 | Burst of hydroxyl radicals in sediments derived by flooding/drought transformation process in Lake Poyang, China. <b>2021</b> , 772, 145059   | 5  |
| 638 | Incorporation of Ti in epitaxial FeTiOthin films. <b>2021</b> , 33,   | O  |
| 637 | Gold nanocrystal decorated trimetallic metal organic frameworks as high performance electrocatalysts for oxygen evolution reaction. <b>2021</b> , 286, 119916   | 17 |
| 636 | Covalent S?O Bonding Enables Enhanced Photoelectrochemical Performance of Cu S/Fe O Heterojunction for Water Splitting. <b>2021</b> , 17, e2100320  | 19 |
| 635 | Promotional effect for SCR of NO with CO over MnO -doped Fe3O4 nanoparticles derived from metal-organic frameworks. <b>2021</b> ,   | O  |
| 634 | Autocatalytic Surface Explosion Chemistry of 2D Metal Drganic Frameworks. 2021, 125, 13343-13349  | 1  |
| 633 | Degradation of Carbon Nanotube Array Thermal Interface Materials through Thermal Aging: Effects of Bonding, Array Height, and Catalyst Oxidation. <b>2021</b> , 13, 30992-31000                             | 4  |
| 632 | Intermediate OrganicIhorganic Hybrid with Highly Accessible Pore Structure and Proton Conductivity: Journey from Inorganic Oxide to Metal (Drganic Framework. <b>2021</b> , 4, 6082-6095                    | 2  |
| 631 | Superparamagnetic, High Magnetic Fe & PreN Mixture Prepared from Inverse Suspension-Polymerized FeO@polyaniline Composite. <b>2021</b> , 13,  | 1  |
| 630 | Magnetic 3D scaffolds for tissue engineering applications: bioactive glass (45S5) coated with iron-loaded hydroxyapatite nanoparticles. <b>2021</b> , 16,   | 0  |
| 629 | Long-term stability and electronic properties of passive film of lean-duplex stainless steel reinforcements in chloride containing mortar. <b>2021</b> , 291, 123319  | 11 |

| 628 | Ziziphus joazeiro Stem Bark Extract as a Green Corrosion Inhibitor for Mild Steel in Acid Medium. <b>2021</b> , 9, 1323   | 4  |
|-----|---|----|
| 627 | Facile electrochemical fabrication of magnetic Fe3O4 for electrocatalytic synthesis of ammonia used for hydrogen storage application. <b>2021</b> , 46, 24128-24134                 | 1  |
| 626 | NIR-Activated Multimodal Photothermal/Chemodynamic/Magnetic Resonance Imaging Nanoplatform for Anticancer Therapy by Fe(II) Ions Doped MXenes (Fe-Ti C). <b>2021</b> , 17, e2101705 | 18 |
| 625 | An Electrically Conducting Three-Dimensional Ironflatecholate Porous Framework. <b>2021</b> , 133, 18213-18220  | 1  |
| 624 | Effect of acidity on ferric oxide nanoparticles supported on Al2O3 in the methanol dehydration reaction toward dimethyl ether. <b>2021</b> , 296, 120618                            | 3  |
| 623 | Tuning Damping and Magnetic Anisotropy in Ultrathin Boron-Engineered MgO/CoHeB/MgO Heterostructures. <b>2021</b> , 7, 2100351   | 2  |
| 622 | Effect of Milling Parameters on the Stability of the Passive Film of AISI 304 Stainless Steel. <b>2021</b> , 30, 8131   | О  |
| 621 | Selective Leaching of Rare Earth Elements from Ion-Adsorption Rare Earth Tailings: A Synergy between CeO Reduction and Fe/Mn Stabilization. <b>2021</b> ,                           | 5  |
| 620 | Enhancement of aqueous stability of NH-MIL-101(Fe) by hydrophobic grafting post-synthetic modification. <b>2021</b> , 1   | O  |
| 619 | Study of the electronic structure of Ce0.95Fe0.05O2-Ithin film using X-ray photoelectron spectroscopy. <b>2021</b> , 250, 147073  | 4  |
| 618 | Unlocking mixed oxides with unprecedented stoichiometries from heterometallic metal-organic frameworks for the catalytic hydrogenation of CO2. <b>2021</b> , 1, 364-382             | 7  |
| 617 | The friction and wear behavior of laser textured surfaces in non-conformal contact under starved lubrication. <b>2021</b> , 476, 203723   | 12 |
| 616 | FeNi nanoparticles on Mo2TiC2Tx MXene@nickel foam as robust electrocatalysts for overall water splitting. <b>2021</b> , 14, 3474-3481   | 13 |
| 615 | An Electrically Conducting Three-Dimensional Iron-Catecholate Porous Framework. <b>2021</b> , 60, 18065-18072   | 5  |
| 614 | Pore morphology evolution and atom distribution of doped Fe2O3 foams developed by freeze-casting after redox cycling. <b>2021</b> , 13, 1887-1898                                   | 2  |
| 613 | Use of XANES and XPS to investigate the effects of ethanol contamination on anti-wear ZDDP tribofilms. <b>2021</b> , 159, 106997  | 3  |
| 612 | Nanostructured AlCoCrCu0.5FeNi high entropy oxide (HEO) thin films fabricated using reactive magnetron sputtering. <b>2021</b> , 553, 149491  | 8  |
| 611 | ⊞e2O3/ZnO heterostructure for enhanced photocatalytic and antibacterial activity. <b>2021</b> , 36, 095007  | 1  |

| 610 | Change of Oxidation Mechanisms by Laser Chemical Machined Rim Zone Modifications of 42CrMo4 Steel. <b>2021</b> , 14,  | 1   |
|-----|---|-----|
| 609 | An insight into the nanosize and bulk Ni0.5Co0.5Fe2O4 ferrites through their comparative study: Structural and magnetic investigations. <b>2021</b> , 32, 21350-21367   | О   |
| 608 | Plasma-implanted Ti-doped hematite photoanodes with enhanced photoelectrochemical water oxidation performance. <b>2021</b> , 870, 159376  | 6   |
| 607 | Vertical Fe(OH)3/Ni9S8 nanoarrays electrodeposited on stainless steel as binder-free electrocatalyst for highly efficient and stable oxygen evolution reaction. 1   | 2   |
| 606 | Dissolution and sorption mechanisms at the aluminosilicate and carbonate mineral-AMD (Acid Mine Drainage) interface. <b>2021</b> , 131, 105027  | 0   |
| 605 | Construction of the Fe3+-O-Mn3+/2+ hybrid bonds on the surface of porous silica as active centers for efficient heterogeneous catalytic ozonation. <b>2021</b> , 300, 122266                                    | 4   |
| 604 | Synthesis of Magnetically Recoverable Ru/Fe3O4 Nanocomposite for Efficient Photocatalytic Degradation of Methylene Blue. 1  | 2   |
| 603 | Facile synthesis of ultrasmall MnFe2O4 nanoparticles with high saturation magnetization for magnetic resonance imaging. <b>2021</b> ,   | 3   |
| 602 | Amino-Functionalized MXene Nanosheets Doped with Ce(III) as Potent Nanocontainers toward Self-Healing Epoxy Nanocomposite Coating for Corrosion Protection of Mild Steel. <b>2021</b> , 13, 42074-42093         | 12  |
| 601 | Engineering Self-Reconstruction via Flexible Components in Layered Double Hydroxides for Superior-Evolving Performance. <b>2021</b> , 17, e2101671  | 2   |
| 600 | Complete arsenite removal from groundwater by UV activated potassium persulfate and iron oxide impregnated granular activated carbon. <b>2021</b> , 277, 130225   | 13  |
| 599 | Solvothermal Etching-Assisted Phase and Morphology Tailoring in Highly Porous CuFe2O4<br>Nanoflake Photocathodes for Solar Water Splitting. <b>2021</b> , 35, 14087-14100                                       | 7   |
| 598 | Highly active FexOy@SiO2 catalyst for Fischer-Tropsch synthesis through the confinement effect of metal organic frameworks material: Preparation and structure-activity relationship. <b>2021</b> , 513, 111813 | 1   |
| 597 | The chemistry of spin-coated rhodium-ferrocenyl complexes supported on silanol-capped silicon wafers. <b>2021</b> , 204, 115277   | O   |
| 596 | Construction of three-dimensional reduced graphene oxide wrapped nZVI doped with AlO as the ternary Fenton-like catalyst: Optimization, characterization and catalytic mechanism. <b>2021</b> , 780, 146576     | 6   |
| 595 | A dinuclear iron complex as a precatalyst for water oxidation under alkaline conditions. <b>2021</b> , 46, 29896-2990   | 045 |
| 594 | Enhanced pyrite passivation by carrier-microencapsulation using Fe-catechol and Ti-catechol complexes. <b>2021</b> , 416, 126089  | 10  |
| 593 | Magnetic properties regulation by electric-field for ⊞e2O3/LiTaO3 thin film at room temperature. <b>2021</b> , 732, 138769  | 2   |

# (2021-2021)

| 592 | Conifer Cone () as a Green Corrosion Inhibitor for Steel Rebar in Chloride-Contaminated Synthetic Concrete Pore Solutions. <b>2021</b> , 13, 43676-43695                                       | 4  |
|-----|--|----|
| 591 | Self-assembled FeF3 nanocrystals clusters confined in carbon nanocages for high-performance Li-ion battery cathode. <b>2021</b> , 873, 159799  | 4  |
| 590 | Host, Suppressor, and PromoterThe Roles of Ni and Fe on Oxygen Evolution Reaction Activity and Stability of NiFe Alloy Thin Films in Alkaline Media. <b>2021</b> , 11, 10537-10552             | 16 |
| 589 | The impact of Fe/Mn loads on the surface property of rare earth mineral. <b>2021</b> , 8, 085506   | 1  |
| 588 | Tailoring the bifunctional electrocatalytic activity of electrodeposited molybdenum sulfide/iron oxide heterostructure to achieve excellent overall water splitting. <b>2021</b> , 417, 129333 | 8  |
| 587 | Synthesis and inhibition corrosion effect of two thiazole derivatives for carbon steel in 1 M HCl. <b>2021</b> , 98, 100113  | 4  |
| 586 | Broad-energy oxygen ion implantation controlled magnetization dynamics in CoFeTaZr. <b>2021</b> , 872, 159685  | 3  |
| 585 | Preparation and magnetic properties of coreBhell structured Fe-Si/Fe3O4 composites via in-situ reaction method. <b>2021</b> , 531, 167955  | 5  |
| 584 | Surface chemistry of oxidised pyrite during grinding: ToF-SIMS and XPS surface analysis. <b>2021</b> , 170, 106992   | 3  |
| 583 | Photocatalytic membrane reactor based on Mexican Natural Zeolite: RB5 dye removal by photo-Fenton process. <b>2021</b> , 9, 105281   | 7  |
| 582 | Flame Spray Pyrolysis Engineering of Nanosized Mullite-Bi2Fe4O9 and Perovskite-BiFeO3 as Highly Efficient Photocatalysts for O2 Production from H2O Splitting. <b>2021</b> , 14, 5235          | 3  |
| 581 | Study of the micromorphology and health risks of arsenic in copper smelting slag tailings for safe resource utilization. <b>2021</b> , 219, 112321   | 10 |
| 580 | Nanocomposite catalyst of graphitic carbon nitride and Cu/Fe mixed metal oxide for electrochemical CO2 reduction to CO. <b>2021</b> , 291, 120052  | 24 |
| 579 | Atomic layer deposition of iron oxide on a porous carbon substrate via ethylferrocene and an oxygen plasma. <b>2021</b> , 421, 127390  | 2  |
| 578 | Mechanistic insight into the active centers of single/dual-atom Ni/Fe-based oxygen electrocatalysts. <b>2021</b> , 12, 5589  | 30 |
| 577 | Novel g-C3N4/C/Fe2O3 Composite for Efficient Photocatalytic Reduction of Aqueous Cr(VI) under Light Irradiation. <b>2021</b> , 60, 13594-13603   | 1  |
| 576 | Methanation of CO2 on bulk Coffe catalysts. <b>2021</b> , 46, 37860-37860  | 1  |
| 575 | Conversion of CO2 to added value products via rWGS using Fe-promoted catalysts: Carbide, metallic Fe or a mixture?. <b>2021</b> , 66, 635-635  | 1  |

| 574 | Reduction of antimony mobility from Sb-rich smelting slag by Shewanella oneidensis: Integrated biosorption and precipitation <b>2021</b> , 426, 127385                              | O  |
|-----|---|----|
| 573 | A comparative study on the performance of M (Rh, Ru, Ni)-promoted metallurgical waste driven catalysts for H2 production by glycerol steam reforming. <b>2021</b> , 46, 32017-32035 | 8  |
| 572 | Surface processing for iron-based degradable alloys: A preliminary study on the importance of acid pickling <b>2022</b> , 11, 166-180   | 2  |
| 571 | Strong MetalBupport Interactions between Nickel and Iron Oxide during CO2 Hydrogenation. <b>2021</b> , 11, 11966-11972  | 7  |
| 570 | Molten-salt-assisted thermal emitting method to transform bulk Fe2O3 into Fe single atom catalysts for oxygen reduction reaction in Zn-air battery. <b>2021</b> , 420, 129713       | 10 |
| 569 | Morphotropic phase boundary in Sm-substituted BiFeO3 ceramics: Local vs microscopic approaches. <b>2021</b> , 875, 159994   | 3  |
| 568 | Unraveling the overlithiation mechanism of LiMn2O4 and LiFePO4 using lithium-metal batteries. <b>2021</b> , 27, 5021  | O  |
| 567 | Inhibition of carbon steel corrosion in HCl solution using N-oleyl-1,3-propanediamine based formulation. <b>2021</b> , 624, 126824  | 2  |
| 566 | Magnetic Properties and SAR for Gadolinium-Doped Iron Oxide Nanoparticles Prepared by Hydrothermal Method. <b>2021</b> , 11, 1153   | 3  |
| 565 | Chemical degradation in Thermally Cycled Stainless Steel 316 with High-Temperature Phase Change Material. <b>2021</b> , 230, 111216   | 1  |
| 564 | Fabrication of magnetic cerium-organic framework-activated carbon composite for charged dye removal from aqueous solutions. <b>2021</b> , 337, 116578                               | 9  |
| 563 | Interference of Phosphate in Adsorption of Arsenate and Arsenite over Confined Metastable Two-Line Ferrihyrite and Magnetite.   | 1  |
| 562 | Effect of Sb on precipitation of biogenic minerals during the reduction of Sb-bearing ferrihydrites. <b>2021</b> , 309, 96-111  | 4  |
| 561 | New insights into colloidal GO, Cr(VI) and Fe(II) interaction by a combined batch, spectroscopic and DFT calculation investigation. <b>2021</b> , 337, 116365                       | 4  |
| 560 | Characterization and In Vitro Studies of Low Reflective Magnetite (Fe3O4) Thin Film on Stainless Steel 420A Developed by Chemical Method. <b>2021</b> , 11, 1145                    | O  |
| 559 | Controlled Synthesis and Exploration of CuFeS Bornite Nanocrystals <b>2021</b> , 33, 7408-7416  | 1  |
| 558 | The use of Piper Betle leaf extract for forming a barrier layer on steel surface in hydrochloric acid solution. <b>2021</b> , 158, 106340   | 4  |
| 557 | A Simple Gas-Solid Treatment for Surface Modification of Li-Rich Oxides Cathodes. <b>2021</b> , 60, 23248-23255   | 10 |

| 556 | A Simple GasBolid Treatment for Surface Modification of Li-Rich Oxides Cathodes. 2021, 133, 23436  | 1  |
|-----|--|----|
| 555 | Enhanced visible light photoelectrochemical water splitting using nanotubular FeOx-TiO2 annealed at different temperatures. <b>2021</b> , 507, 230274  | 1  |
| 554 | Comprehensive Structural Descriptor for Electrocatalytic Oxygen Evolution Activities of Iron Oxides.   | O  |
| 553 | Noncollinear Magnetic Order in Two-Dimensional NiBr Films Grown on Au(111). <b>2021</b> , 15, 14985-14995  | 5  |
| 552 | Fe-doping enabled a stable vanadium oxide cathode with rapid Zn diffusion channel for aqueous zinc-ion batteries. <b>2021</b> , 21, 100842   | 14 |
| 551 | UHV preparation and electrochemical/-catalytic properties of well-defined Coland Fe-containing unary and binary oxide model cathodes for the oxygen reduction and oxygen evolution reaction in Zn-air batteries. <b>2021</b> , 896, 115497 | 1  |
| 550 | Chemical Vapor Deposition of Cobalt and Nickel Ferrite Thin Films: Investigation of Structure and Pseudocapacitive Properties. <b>2021</b> , 8, 2100949  | О  |
| 549 | Seed-mediated synthesis and characterization of ZnO@Fe2O3 nanospheres: Building up the core-shell model. <b>2021</b> , 572, 126279   | 2  |
| 548 | Exploration of Talc nanoparticles to enhance the performance of Lithium grease. <b>2021</b> , 162, 107107  | 4  |
| 547 | Fe3+-doped ordered mesoporous Fe2O3/SiO2 microspheres as a highly efficient magnetically separable heterogeneous Fenton catalyst. <b>2021</b> , 326, 111373  | 2  |
| 546 | Electronic structure and chemical bonding in transition-metal-mixed gallium oxide (Ga2O3) compounds. <b>2021</b> , 157, 110174   | 4  |
| 545 | X-ray photoelectron spectroscopy investigation of Ta/CoFeB/TaOx heterostructures. <b>2021</b> , 272, 115367  | 1  |
| 544 | Fe(III) superoxide radicals in halloysite nanotubes for visible-light-assisted benzyl alcohol oxidation and oxidative C C coupling of 2-naphthol. <b>2021</b> , 515, 111858  | 3  |
| 543 | Repurposing of aluminum scrap into magnetic Al0/ZVI bimetallic materials: Two-stage mechanical-chemical synthesis and characterization of products. <b>2021</b> , 317, 128285  | 6  |
| 542 | Characterization and assessment of the potential toxicity/pathogenicity of Russian commercial chrysotile. <b>2021</b> , 106, 1606-1621   | 3  |
| 541 | Magnetic biochar prepared by electromagnetic induction pyrolysis of cellulose: Biochar characterization, mechanism of magnetization and adsorption removal of chromium (VI) from aqueous solution. <b>2021</b> , 337, 125429               | 12 |
| 540 | Tailoring the activation behaviour and oxide resistant properties of TiFe alloys by doping with Mn. <b>2021</b> , 46, 34830-34838  | O  |
| 539 | Highly active iron-nitrogen-boron-carbon bifunctional electrocatalytic platform for hydrogen peroxide sensing and oxygen reduction. <b>2021</b> , 201, 111563  | 5  |

| 538 | Effect of strontium substitution in cobalt ferrite: Structural and optical studies. <b>2021</b> , 272, 124923  | 1  |
|-----|--|----|
| 537 | Development of reactive iron-coated natural filter media for treating antibiotic residual in swine wastewater: Mechanisms, intermediates and toxicity. <b>2021</b> , 298, 113435                               | 1  |
| 536 | Self-healing FeOOH decorated onto MoS2 nanosheets for boosting the hydrogen evolution in alkaline media. <b>2021</b> , 297, 120456   | 3  |
| 535 | Structural and magnetic properties of R0.5Sr0.5Fe0.5Mn0.5O3 (R = Gd, Nd or Pr) perovskites. <b>2021</b> , 882, 160747  | O  |
| 534 | Ferric nitrate nonahydrate induced synthesis of hollow zeolite with high framework iron content. <b>2021</b> , 327, 111410   | 0  |
| 533 | Fe/N-doped carbon magnetic nanocubes toward highly efficient selective decolorization of organic dyes under ultrasonic irradiation. <b>2021</b> , 283, 131154  | 5  |
| 532 | Ternary metal-based inverse spinel oxide NiCrFeO4 nanoparticles as a highly efficient oxygen evolution catalyst. <b>2021</b> , 566, 150653   | 1  |
| 531 | Synergizing piezoelectric and plasmonic modulation of Ag/BiFeO3 fibrous heterostructure toward boosted photoelectrochemical energy conversion. <b>2021</b> , 89, 106317  | 14 |
| 530 | Enhanced CO2-assisted growth of single-wall carbon nanotube arrays using Fe/AlO catalyst annealed without CO2. <b>2021</b> , 185, 264-271  | 1  |
| 529 | Influence of scanning strategy and building direction on microstructure and corrosion behaviour of selective laser melted 316L stainless steel. <b>2021</b> , 209, 109999                                      | 12 |
| 528 | Unraveling the Fe3O4 NPs role in self-assembled magnetic zinc oxide nanorods for methylene blue photodegradation. <b>2021</b> , 421, 113514  | 2  |
| 527 | Influence of ambient humidity on the adhesion and damage behavior of wheelfail interface under hot weather condition. <b>2021</b> , 486-487, 204091  | 3  |
| 526 | Evolution of Microstructure and Surface Characteristics of FeCrAl alloys when Subjected to Flow Boiling Testing. <b>2021</b> , 557, 153269   | 0  |
| 525 | Post-synthetic anchoring Fe(III) into a fcu-type Zr-MOF for the catalyzed hydrolysis of 5-hydroxylmethoxyfurfural. <b>2021</b> , 328, 111449   | 1  |
| 524 | Optimization of superhydrophobicity at the surface of iron sulfide thin films by a wet chemical approach. <b>2021</b> , 144, 111476  | 2  |
| 523 | Evaluating iron remediation with limestone using spectral induced polarization and microscopic techniques. <b>2021</b> , 800, 149641   | 1  |
| 522 | Amorphous FeOOH coating stabilizes WO2-NaxWO3 for accelerating oxygen evolution reaction. <b>2021</b> , 426, 131253  | 13 |
| 521 | Effect of HCl treatment on physico-chemical properties and photocatalytic performance of Fe-TiO nanotubes for hexavalent chromium reduction and dye degradation under visible light. <b>2021</b> , 284, 131247 | 1  |

| 520 | Silica-based microspheres with aluminum-iron oxide shell for diagnosis and cancer treatment. <b>2021</b> , 1246, 131149  | 1  |
|-----|--|----|
| 519 | Achieving ultra-low frequency microwave absorbing properties based on anti-corrosive silica-pinned flake FeSiAl hybrid with full L band absorption. <b>2021</b> , 888, 161574              | 2  |
| 518 | Deiodination of iohexol employing magnetic <code>ENi(OH)2/Ni</code> nanoflakes for flow injection sensing of iohexol. <b>2021</b> , 348, 130731  | 1  |
| 517 | Nano-Fe3O4/bamboo bundles/phenolic resin oriented recombination ternary composite with enhanced multiple functions. <b>2021</b> , 226, 109335  | 13 |
| 516 | Efficient removal of emerging organic contaminants via photo-Fenton process over micron-sized Fe-MOF sheet. <b>2022</b> , 429, 132495  | 18 |
| 515 | Compensating the impurities on the Cu surface by MOFs for enhanced hydrocarbon production in the electrochemical reduction of carbon dioxide. <b>2022</b> , 66, 68-73                      | O  |
| 514 | Amorphous NiS and FeOOH as bifunctional co-catalysts for oxygen reduction and phenol (water) oxidation over BiVO under visible light. <b>2022</b> , 421, 126650                            | 1  |
| 513 | Self-motivated, thermally oxidized hematite nanoflake photoanodes: Effects of pre-polishing and ZrO2 passivation layer. <b>2022</b> , 65, 415-423  | 3  |
| 512 | Experimental methods of inhibitors assessment. <b>2022</b> , 97-123  |    |
| 511 | Highly active iron-promoted hexagonal mesoporous silica (HMS) for deoxygenation of triglycerides to green hydrocarbon-like biofuel. <b>2022</b> , 308, 121860                              | 5  |
| 510 | The fluorination-assisted dealloying synthesis of porous reduced graphene oxide-FeF2@carbon for high-performance lithium-ion battery and the exploration of its electrochemical mechanism. | Ο  |
| 509 | F, P double-doped Fe3O4 with abundant defect sites for efficient hydrogen evolution at high current density.   | 8  |
| 508 | A rutile TiO2 nanobundle as a precursor of an efficient visible-light photocatalyst embedded with Fe2O3. <b>2021</b> , 8, 4423-4430  | 2  |
| 507 | Large exchange bias in Cr substituted FeO nanoparticles with FeO subdomains. <b>2021</b> , 13, 15844-15852   | O  |
| 506 | Study on the mechanism of synthetic (Ce,La)COF sulfuric acid acidification and NH-SCR loaded with Mn and Fe <b>2021</b> , 11, 19943-19955  | 1  |
| 505 | Effective fenton catalyst from controllable framework doping of Fe in porous silica spheres. <b>2021</b> , 312, 110704   | 5  |
| 504 | Zinc-doped iron oxide nanostructures for enhanced photocatalytic and antimicrobial applications. <b>2021</b> , 51, 521-538   | 8  |
| 503 | Sustainable removal of anodized aluminum dye by groundwater treatment waste: experimental and modeling. <b>2021</b> , 7, e05993  | 3  |

| 502                                | High degradation efficiency of sulfamethazine with the dual-reaction-center FelMnBiO2 Fenton-like nanocatalyst in a wide pH range. <b>2021</b> , 8, 2204-2213  | 4   |
|------------------------------------|--|---|
| 501                                | Ni nanoparticles/V4C3Tx MXene heterostructures for electrocatalytic nitrogen fixation. <b>2021</b> , 5, 2338-2346  | 10  |
| 500                                | Effect of ultra-low amount of gold in oxide-supported bimetallic Auffe and Auffu catalysts on liquid-phase aerobic glycerol oxidation in water. <b>2021</b> , 11, 5881-5897  | O   |
| 499                                | Fe-doping induced localized amorphization in ultrathin <code>BNi(OH)2</code> nanomesh for superior oxygen evolution reaction catalysis. <b>2021</b> , 9, 14372-14380   | 10  |
| 498                                | Bonding and Electronic Structure of Phosphides, Arsenides, and Antimonides by X-Ray Photoelectron and Absorption Spectroscopies. <b>2009</b> , 41-92   | 4   |
| 497                                | Synthesis of iron red hybrid pigments from oil shale semi-coke waste. <b>2020</b> , 31, 2276-2284  | 14  |
| 496                                | Synthesis of hierarchically structured ?-FeO-PPy nanocomposite as effective adsorbent for cationic dye removal from wastewater. <b>2020</b> , 267, 115498  | 25  |
| 495                                | Structural and magnetic properties of titanate nano-heterostructures decorated with iron based nanoparticles. <b>2020</b> , 145, 109561  | 3   |
| 494                                | Photocatalytic decomposition of gaseous methanol over anodized iron oxide nanotube arrays in high vacuum. <b>2018</b> , 99, 367-376  | 9   |
|                                    |  |   |
| 493                                | Synthesis of mesoporous magnetic Fe2O3/g-C3N4 monoliths for Rhodamine B removal. <b>2020</b> , 303, 110299   | 21  |
| 493<br>492                         | Synthesis of mesoporous magnetic Fe2O3/g-C3N4 monoliths for Rhodamine B removal. 2020, 303, 110299  Superparamagnetic MOF@GO Ni and Co based hybrid nanocomposites as efficient water pollutant adsorbents. 2020, 738, 139213  | 19  |
|                                    | Superparamagnetic MOF@GO Ni and Co based hybrid nanocomposites as efficient water pollutant  |   |
| 492                                | Superparamagnetic MOF@GO Ni and Co based hybrid nanocomposites as efficient water pollutant adsorbents. <b>2020</b> , 738, 139213  Preparation and characterization of carbonyl iron soft magnetic composites with magnesioferrite   | 19  |
| 492<br>491                         | Superparamagnetic MOF@GO Ni and Co based hybrid nanocomposites as efficient water pollutant adsorbents. 2020, 738, 139213  Preparation and characterization of carbonyl iron soft magnetic composites with magnesioferrite insulating coating layer. 2020, 30, 3067-3077  Mitigating Membrane Fouling Based on In Situ DH Generation in a Novel Electro-Fenton   | 19<br>5                                   |
| 49 <sup>2</sup><br>49 <sup>1</sup> | Superparamagnetic MOF@GO Ni and Co based hybrid nanocomposites as efficient water pollutant adsorbents. 2020, 738, 139213  Preparation and characterization of carbonyl iron soft magnetic composites with magnesioferrite insulating coating layer. 2020, 30, 3067-3077  Mitigating Membrane Fouling Based on In Situ DH Generation in a Novel Electro-Fenton Membrane Bioreactor. 2020, 54, 7669-7676  Role of Transition Metals on TM/MoC Composites: Hydrogen Evolution Activity in Mildly Acidic and  | <ul><li>19</li><li>5</li><li>17</li></ul> |
| 492<br>491<br>490<br>489           | Superparamagnetic MOF@GO Ni and Co based hybrid nanocomposites as efficient water pollutant adsorbents. 2020, 738, 139213  Preparation and characterization of carbonyl iron soft magnetic composites with magnesioferrite insulating coating layer. 2020, 30, 3067-3077  Mitigating Membrane Fouling Based on In Situ DH Generation in a Novel Electro-Fenton Membrane Bioreactor. 2020, 54, 7669-7676  Role of Transition Metals on TM/MoC Composites: Hydrogen Evolution Activity in Mildly Acidic and Alkaline Media. 2020, 12, 27150-27165  Efficient Electrochemical Oxygen Reduction to Hydrogen Peroxide by Transition Metal-Doped   | 19<br>5<br>17                             |
| 492<br>491<br>490<br>489<br>488    | Superparamagnetic MOF@GO Ni and Co based hybrid nanocomposites as efficient water pollutant adsorbents. 2020, 738, 139213  Preparation and characterization of carbonyl iron soft magnetic composites with magnesioferrite insulating coating layer. 2020, 30, 3067-3077  Mitigating Membrane Fouling Based on In Situ DH Generation in a Novel Electro-Fenton Membrane Bioreactor. 2020, 54, 7669-7676  Role of Transition Metals on TM/MoC Composites: Hydrogen Evolution Activity in Mildly Acidic and Alkaline Media. 2020, 12, 27150-27165  Efficient Electrochemical Oxygen Reduction to Hydrogen Peroxide by Transition Metal-Doped Silicate SrNaSiO. 2021, 13, 382-390  Plasma production of nanomaterials for energy storage: continuous gas-phase synthesis of metal | 19<br>5<br>17<br>12<br>2                  |

| 484 | Nano-Sized Fe(III) Oxide Particles Starting from an Innovative and Eco-Friendly Synthesis Method. <b>2020</b> , 10,   |     | 14 |
|-----|---|-----|----|
| 483 | SEM/EDX, XPS, and impedance spectroscopy of LiFePO4 and LiFePO4/C ceramics. <b>2014</b> , 54, 106-113   |     | 17 |
| 482 | Performance Comparison of CVD Grown Carbon Nanofiber Based on Single- and Multi-Layer Graphene Oxides in Melt-Compounded PA6.6 Nanocomposites. <b>2019</b> , 09, 99-123   |     | 2  |
| 481 | Scalable synthesis of NaMVF (M = Mn, Fe, and Co) as high-performance cathode materials for sodium-ion batteries. <b>2021</b> , 57, 11497-11500  |     | 7  |
| 480 | Fe doped bimetallic HKUST-1 MOF with enhanced water stability for trapping Pb(II) with high adsorption capacity. <b>2021</b> , 430, 133088  |     | 5  |
| 479 | Self-Propelled Nanojets for Fenton Catalysts Based on Halloysite with Embedded Pt and Outside-Grafted FeO. <b>2021</b> , 13, 49017-49026  |     | 5  |
| 478 | Definition of a new (Doniach-Sunjic-Shirley) peak shape for fitting asymmetric signals applied to reduced graphene oxide/graphene oxide XPS spectra. <i>Surface and Interface Analysis</i> , <b>2022</b> , 54, 67 | 1.5 | 5  |
| 477 | Effect of Cr Content on Corrosion Resistance of Low-Cr Alloy Steels Studied by Surface and Electrochemical Techniques. <b>2021</b> , 2, 546-562   |     | 1  |
| 476 | Strongly coupled N-doped graphene quantum dots/Ni(Fe)OxHy electrocatalysts with accelerated reaction kinetics for water oxidation. <b>2021</b> , 430, 133068  |     | 4  |
| 475 | Dimensionality induced enhancement of ferromagnetic spin order and ferroelectric polarization in Ga doped Fe2O3 thin films. <b>2022</b> , 573, 151609   |     | O  |
| 474 | Corrosion resistance and thermal stability of sputtered Fe44Al34Ti7N15 and Al61Ti11N28 thin films for prospective application in oil and gas industry. <b>2021</b> , 31, 688-697                                  |     | 1  |
| 473 | Effect of Fe oxidation state (+2 versus +3) in precursor on the structure of Fe oxides/carbonates-based composites examined by XPS, FTIR and EXAFS. <b>2021</b> , 121, 106752                                     |     | 5  |
| 472 | Fluorine adsorption on floating iron nanoparticles confined to gigaporous structure of large adsorbent water spheres. <b>2021</b> , 24, 101995  |     | 0  |
| 471 | FT-IR, XPS and Density Functional Theory Study of Adsorption Mechanism of Sodium Formate onto Goethite or Hematite. <b>2016</b> , 29-35   |     |    |
| 470 | The Effect of addition of CuO to Fe2O3/ZrO2Oxygen Carrier for Hydrogen Production by Chemical Looping. <b>2016</b> , 54, 394-403  |     |    |
| 469 | Comparative study of multiferroic properties of PbTi0.5Fe0.5O3 thin films grown on various substrates. <b>2017</b> , 43, 15939-15945  |     |    |
| 468 | In-situ fabrication of metal oxide nanocaps based on biphasic reactions with surface nanodroplets. <b>2021</b> ,  |     | 0  |
| 467 | In-situ probing the rapid reconstruction of FeOOH-decorated NiMoO4 nanowires with boosted oxygen evolution activity. <b>2021</b> , 23, 100887   |     | 4  |

| 466 | Ionic Diffusion-Driven Ionovoltaic Transducer for Probing Ion-Molecular Interactions at Solid-Liquid Interface. <b>2021</b> , 9, e2103038  | 4 |
|-----|--|---|
| 465 | Regulating lignin content to obtain excellent bamboo-derived electromagnetic wave absorber with thermal stability. <b>2021</b> , 430, 133178   | 7 |
| 464 | Activation of peracetic acid with zero-valent iron for tetracycline abatement: The role of Fe(II) complexation with tetracycline. <b>2021</b> , 424, 127653  | 2 |
| 463 | SYNTHESIS OF MAGNETIC NANOCOMPOSITE FILMS SICXNYFEZ BY PLASMA-ENHANCED CHEMICAL DECOMPOSITION OF A GASEOUS MIXTURE OF 1,1,1,3,3,3-HEXAMETHYLDISILAZANE, FERROCENE, AND HELIUM. <b>2020</b> , 61, 1865-1875 | О |
| 462 | Preferential Oxidation of CO over CoFe2O4 and M/CoFe2O4 (M = Ce, Co, Cu or Zr) Catalysts. <b>2021</b> , 11, 15   | 2 |
| 461 | Transition from ferromagnetism to superparamagnetism in diluted magnetic Fe(II)-doped ZnSe microspheres. <b>2022</b> , 543, 168625   | O |
| 460 | Adsorbent/catalyst bi-functional Fe-ZSM-5 prepared by a simple CVD process for exhaust gas treatment. <b>2022</b> , 574, 151565  | 2 |
| 459 | Metallated Schiff-Base Macromolecules as Alternative Metalloprotein Electron Transfer Intermediates. <b>2020</b> , 10, 34-54   |   |
| 458 | Integrated Experimental Methods for the Investigation of the Electronic Structure of Molecules on Surfaces. <b>2020</b> , 331-350  |   |
| 457 | N,N-Dimethylformamide-protected Fe2O3 combined with Pt nanoparticles: Characterization and catalysis in alkene hydrosilylation.  |   |
| 456 | Biogenic fabrication and enhanced photocatalytic degradation of tetracycline by bio structured ZnO nanoparticles. <b>2021</b> , 1-16   | 2 |
| 455 | Construction of solid-liquid fluorine transport channel to enable highly reversible conversion cathodes. <b>2021</b> , 7, eabj1491   | 8 |
| 454 | Electrochemical Performance of Na2FeP2O7/C Cathode for Sodium-Ion Batteries in Electrolyte with Fluoroethylene Carbonate Additive. <b>2021</b> , 162656  | 1 |
| 453 | Effect of terbium doping in bismuth ferrite nanoparticles for the degradation of organic pollutant under sunlight irradiation. 1   | o |
| 452 | One-pot Synthesis of the MIL-100 (Fe) MOF/MOX Homojunctions with Tunable Hierarchical Pores for the Photocatalytic Removal of BTXS. <b>2021</b> , 303, 120885  | 1 |
| 451 | Chiral Magneto-Optical Properties of Supra-Assembled FeO Nanoparticles. <b>2021</b> , 13, 54301-54307  | 1 |
| 450 | Qualitative Analysis of the Valence and Conduction Band Offset Parameters in FeNiO/CuNiO Bilayer Film Using X-Ray Photoelectron Spectroscopy. 2100132  |   |
| 449 | Effect of Precursors of Fe-Based Fischer Tropsch Catalysts Supported on Expanded Graphite for CO2 Hydrogenation.   | 2 |

431

Carbon. **2021**, 11, 1456

Sn Doping: A Strategy for Tuning of FeO Nanoparticles Magnetization Dipping 448 Temperature/Amplitude, Irreversibility, and Curie Point. 2020, 15, 192 Disparity of selenourea and selenocystine on methaemoglobinemia in non-diabetics and diabetics. **2021**, 169, 371-382 CO2 Top-of-Line-Corrosion; Assessing the Role of Acetic Acid on General and Pitting Corrosion. 446  $\circ$ **2021**, 77, 298-312 A complementary characterisation technique for spin crossover materials; the application of X-ray 445 photoelectron spectroscopy for future device applications. 2021, Ligand biodegradation-induced surface reconstruction of magnetite nanoparticles: potentially O 444 overlooked toxicity. Oxygen vacancies and defects induced room temperature ferromagnetic properties of pure and 443 3 Fe-doped CeO2 nanomaterials investigated using X-ray photoelectron spectroscopy. **2022**, 254, 147140 Synthesis of hierarchical hetero-composite of graphene foam/Fe2O3 nanowires and its 442 O application on glucose biosensors. 2021, 895, 162688 Microstructural and chemical surface and rim zone changes of ferrite-perlite 42CrMo4 steel after 441 electrochemical machining. 2021, 52, 1214-1229 Nitrogen-incorporation activates NiFeO catalysts for efficiently boosting oxygen evolution activity 440 11 and stability of BiVO photoanodes. 2021, 12, 6969 Synthesis of natural proanthocyanidin based novel magnetic nanoporous organic polymer as 8 439 advanced sorbent for neonicotinoid insecticides. 2021, 373, 131572 Reversible Conversion Reactions of Mesoporous Iron Oxide with High Initial Coulombic Efficiency 438 2 for Lithium-Ion Batteries. Application of Waste Engine Oil for Improving Ilmenite Flotation Combined with Sodium Oleate 437 Collector. **2021**, 11, 1242 Insight the effect of rigid boron chain substructure on mechanical, magnetic and electrical 436 2 properties of FeB. 2021, 896, 162767 Mitochondria-Targeting MoS-Based Nanoagents for Enhanced NIR-II Photothermal-Chemodynamic 435 9 Synergistic Oncotherapy. 2021, 13, 55928-55938 Bifunctional oxidase-peroxidase inorganic nanozyme catalytic cascade for wastewater remediation.  $\circ$ 434 2021, Optical and Electrical Transport Evaluations of n-Type Iron Pyrite Single Crystals. 2021, 6, 31358-31365 433 Fe3O4 Nanoparticles: Structures, Synthesis, Magnetic Properties, Surface Functionalization, and 18 432 Emerging Applications. 2021, 11, 11301

TBO Degradation by Heterogeneous Fenton-like Reaction Using Fe Supported over Activated

| 430 | High-performance nickel/iron catalysts for oxygen evolution in pH-near-neutral borate electrolyte synthesized by mechanochemical approach. <b>2021</b> , 898, 162845   | 1  |
|-----|--|----|
| 429 | The color mechanism of iron on quartz by ion implantation. <b>2021</b> , 413550  | О  |
| 428 | Description of the interaction phenomenology between phases for multimodal hybrid nanostructures. <b>2021</b> , 23, 1  |    |
| 427 | Microstructure, morphology, Physico-chemical properties of nanocomposites containing hydroxyapatite/vivianite/graphene oxide for biomedical applications. <b>2021</b> ,  | 5  |
| 426 | Boosting the Electrocatalytic Conversion of Nitrogen to Ammonia on Metal-Phthalocyanine-Based Two-Dimensional Conjugated Covalent Organic Frameworks. <b>2021</b> , 143, 19992-20000                               | 19 |
| 425 | Visible Light Trapping against Charge Recombination in FeO-TiO Photonic Crystal Photocatalysts. <b>2021</b> , 14,  | O  |
| 424 | Graphene oxide-mediated the reduction of U(VI), Re(VII), Se(VI) and Se(IV) by Fe(II) in aqueous solutions investigated via combined batch, DFT calculation and spectroscopic approaches. <b>2021</b> , 433, 133844 | 1  |
| 423 | Morphology transition of FeOOH induced by N-doped graphene for excellent pseudocapacitive energy storage. <b>2021</b> , 403, 139676  | 1  |
| 422 | Effect of Hydrogen Charging on the Corrosion Behavior of E690 Steel in 3.5 wt.% NaCl Solution. 1   | 1  |
| 421 | Effective degradation of cefuroxime by heterogeneous photo-Fenton under simulated solar radiation using Fe2O3-TiO2. <b>2021</b> , 9, 106822  | 2  |
| 420 | Insight into adsorption behavior of chlortetracycline and cadmium in aqueous solution using a novel manganese ferrite loaded swine manure hydrochar. <b>2021</b> , 9, 106785                                       | 2  |
| 419 | Hydrothermal treatment of metal impregnated biomass for the generation of H and nanometal carbon hybrids <b>2021</b> , 205, 112536   | 1  |
| 418 | Catalytic effect of laser-combined atmospheric pressure plasma in lowering the reduction temperature of hematite <b>2021</b> , 11, 35489-35493   |    |
| 417 | Rapid oxidation of 4-cholorphenol in the iron-based metal-organic frameworks (MOFs)/H2O2 system: the ignored two-steps interfacial single-electron transfer. <b>2022</b> , 286, 120420                             | O  |
| 416 | A novel Fe-rectorite composite catalyst synergetic photoinduced peroxymonosulfate activation for efficient degradation of antibiotics. <b>2021</b> , 289, 133211   | 2  |
| 415 | Pyrite as prospective absorber material for monograin layer solar cell. <b>2022</b> , 743, 139068  | O  |
| 414 | Composition and Cr- and Fe-speciation of dust generated during ferrochrome production in a DC arc furnace. <b>2022</b> , 6, 100386   | 1  |
| 413 | A novel activation system for wolframite flotation by using Cu(II) ion and Ehydroxyoctyl phosphinic acid. <b>2022</b> , 9, 100234  |    |

| 412 | Regulating the electro-deposition behavior of Fe metal anode and the applications in rechargeable aqueous iron-iodine batteries. <b>2022</b> , 432, 134389  | 0 |
|-----|---|---|
| 411 | MnFe2O4 nano-flower: A prospective material for bimodal hyperthermia. <b>2022</b> , 899, 163192   | 1 |
| 410 | Nanocrystalline structure remarkably enhances oxidation resistance of Fe-20Cr-5Al alloy. <b>2022</b> , 900, 163568  | О |
| 409 | Fe-doped Al2O3 nanoplatforms as efficient and recyclable photocatalyst for the dyes remediation. <b>2022</b> , 426, 113733  | 2 |
| 408 | Sulfur-doping/leaching induced structural transformation toward boosting electrocatalytic water splitting. <b>2022</b> , 305, 121030  | 6 |
| 407 | Hydrogen detection in high strength dual phase steel using scanning Kelvin probe technique and XPS analyses. <b>2022</b> , 197, 110072  | 1 |
| 406 | Synthesis and characterization of hybrid silica/Fe2O3-carbon nanoparticles films electrodeposited onto planar electrodes. <b>2022</b> , 409, 139938   | O |
| 405 | Sustainable synthesis of microwave-assisted IONPs using Spinacia oleracea L. for control of fungal wilt by modulating the defense system in tomato plants <b>2022</b> , 20, 8                     | 1 |
| 404 | Crystal field-induced lattice expansion upon reversible oxygen uptake/release in YbMnxFe2NO4. <b>2022</b> , 3, 1087-1100  | 1 |
| 403 | High-performance asymmetric supercapacitor fabricated with a novel MoS2/Fe2O3/Graphene composite electrode. <b>2022</b> , 46, 100573  | 1 |
| 402 | Green Synthesis of Self-Supported Nife Oxyhydroxide Pagoda-Shaped Nanocone Arrays for Electrocatalytic Oxygen Evolution Reaction. <b>2022</b> , 9,  | 1 |
| 401 | Enhanced Fe2O3/Al2O3 Oxygen Carriers for Chemical Looping Steam Reforming of Methane with Different Mg Ratios. <b>2022</b> , 61, 1022-1031  | 0 |
| 400 | Hollow spheres of iron oxide as an Enzyme-mimic preparation, characterization and application as biosensors.  | 0 |
| 399 | Silicon carbide/enamel composite coatings for steel corrosion protection: Microstructure, thermal expansion behavior, and anti-corrosion performance. <b>2022</b> , 128172                        | 0 |
| 398 | Fabrication of Fe-Doped Molybdenum Multisulfide MoS2/Mo2S3 Thin Film Via Aerosol-Assisted Chemical Vapor Deposition (AACVD) for Photoelectrochemical (PEC) Water Splitting. <b>2022</b> , 13, 182 | 2 |
| 397 | Iron-Based 2D Conductive Metal Organic Framework Nanostructure with Enhanced Pseudocapacitance.   | 0 |
| 396 | New Concept for the Facile Fabrication of Core-Shell CuO@CuFeO Photocathodes for PEC Application <b>2022</b> , 15,  | O |
| 395 | Novel insights into the influence of ferric ion as a surface modifier to enhance the floatability of specularite. <b>2022</b> , 117141  | 1 |

| 394 | Halloysite-Based Nanorockets with Light-Enhanced Self-Propulsion for Efficient Water Remediation <b>2022</b> ,   | 3 |
|-----|--|---|
| 393 | COMBINED ACTION OF ADSORPTION AND CATALYTIC OXIDATION IN ALUMINUM DYE REMOVAL BY GROUNDWATER TREATMENT WASTE. <b>2022</b> , 30, 66-80  |   |
| 392 | A Comprehensive Study of Pristine and Calcined f-MWCNTs Functionalized by Nitrogen-Containing Functional Groups <b>2022</b> , 15,  | 2 |
| 391 | Origin of the complex main and satellite features in Fe 2p XPS of FeO <b>2022</b> ,  | 3 |
| 390 | Adsorption-Desorption Behavior of Arsenate Using Single and Binary Iron-Modified Biochars: Thermodynamics and Redox Transformation <b>2022</b> , 7, 101-117                                    | O |
| 389 | Effects of several ionic liquids on the structures and catalytic properties of double metal cyanides. <b>2022</b> , 345, 118252  | O |
| 388 | Evidence for surface effects on the intermolecular interactions in Fe(II) spin crossover coordination polymers <b>2021</b> ,   | 0 |
| 387 | Magnetic nanoprobes for rapid detection of copper ion in aqueous environment by surface-enhanced Raman spectroscopy <b>2021</b> , 12, 921-928  | 1 |
| 386 | Corrosion inhibition in acidic environments: key interfacial insights with photoelectron spectroscopy <b>2022</b> ,  | 1 |
| 385 | Evidence of weak interaction between ferric iron and extracellular polymeric substances of Acidithiobacillus ferrooxidans. <b>2022</b> , 209, 105817   | O |
| 384 | Magnetic Ordering in Ultrasmall Potassium Ferrite Nanoparticles Grown on Graphene Nanoflakes <b>2022</b> ,   | 0 |
| 383 | Fe-Rich Ni0.06Fe0.94OOH Nanorods as Efficient Electrocatalysts for the Oxygen Evolution Reaction.  | 1 |
| 382 | A facile and scalable Fe-Cr decorating strategy to boost the lithium storage of SiOx anode. <b>2022</b> , 406, 139805  | 1 |
| 381 | A Valence Gradient Protective Layer for Dendrite-Free and Highly Stable Lithium Metal Anodes. 2103332  | 3 |
| 380 | Remediation of Cr(VI)-contaminated soil by combined chemical reduction and microbial stabilization: The role of biogas solid residue (BSR) <b>2022</b> , 231, 113198                           | 3 |
| 379 | Effects of Elemental Modulation on Phase Purity and Electrochemical Properties of Co-free<br>High-Entropy Spinel Oxide Anodes for Lithium-Ion Batteries. 2110992                               | 3 |
| 378 | Eco-friendly anticorrosive epoxy coating from Ixora leaf extract: A promising solution for steel protection in marine environment. <b>2022</b> , 340, 130750                                   | 1 |
| 377 | One-step solution auto-combustion process for the rapid synthesis of crystalline phase iron oxide nanoparticles with improved magnetic and photocatalytic properties. <b>2022</b> , 33, 103435 | О |

| 376 | Pyrite oxidation by nitrate and nitrite in sodium bicarbonate solution under anoxic and abiotic conditions. <b>2022</b> , 137, 105203   | 1  |
|-----|---|----|
| 375 | MoOx and WOx conjugated iron phosphate nanotubes catalysts for benzylation of benzene using benzyl alcohol. <b>2022</b> , 164, 106423   | 1  |
| 374 | Studies on the performance of functionalized Fe3O4 as phosphate adsorbent and assessment to its environmental compatibility. <b>2022</b> , 131, 104162  | О  |
| 373 | From Schwertmannite to Natrojarosite: long term stability and kinetic approach. 2022,   |    |
| 372 | Photoreductive synthesis of nanoscale zero-valent iron rod assisted by phosphotungstic acid over graphite carbon nitride and its enhanced removal of Cr(VI) from water. <b>2022</b> , 582, 152479 | O  |
| 371 | Rapid remediation of Cd(II)-contaminated water using a magnetically collectable iron-based primary battery. <b>2022</b> , 10, 107191  | 1  |
| 370 | Metal substrates activate NiFe(oxy)hydroxide catalysts for efficient oxygen evolution reaction in alkaline media. <b>2022</b> , 901, 163689   | 2  |
| 369 | Simultaneous removal of heavy metals and dyes in water using a MgO-coated FeO nanocomposite: Role of micro-mixing effect induced by bubble generation <b>2022</b> , 294, 133788                   | 1  |
| 368 | Photoelectrochemical properties of gradient Ti-doped hematite thin films prepared by liquid phase deposition. <b>2022</b> , 142, 106476   | О  |
| 367 | Development of a Ferrite Film Based Solid State Sensor System for Ultra Low Concentration Hydrogen Sulfide Gas Detection. <b>2022</b> , 1-1   | 4  |
| 366 | Tuning Physical Properties of NiFe2O4 and NiFe2O4@SiO2 Nanoferrites by Thermal Treatment. <b>2022</b> , 53, 1208  | 1  |
| 365 | Zn Doping Effect on the Performance of Fe-Based Catalysts for the Hydrogenation of CO to Light Hydrocarbons <b>2022</b> , 27,   | O  |
| 364 | Cu-doped Ba 0.5 Sr 0.5 FeO 3-For electrochemical synthesis of hydrogen peroxide via a 2-electron oxygen reduction reaction 1.   |    |
| 363 | Motion Mode-Driven Adsorption by Magnetically Propelled MOF-based Nanomotor. <b>2022</b> , 100182   | 1  |
| 362 | Synthesis and Characterization of an Fe/Co Ferrite Spinel Oxide Film Produced by Using N2/Steam Heat Treatment on Two Maraging Steels. <b>2022</b> , 53, 1276                                     | O  |
| 361 | Starch adsorption on hematite surfaces: Evidence of the adsorption mechanism dependence on the surface orientation. <b>2022</b> , 178, 107429   | O  |
| 360 | Structural coloration of AISI 321 steel surfaces textured by ultrasonic impact treatment. <b>2022</b> , 150, 107948   | О  |
| 359 | Identification of the Intrinsic Dielectric Properties of Metal Single Atoms for Electromagnetic Wave Absorption. <b>2021</b> , 14, 27   | 15 |

| 358 | Utilization of Interfacial Charge Storage toward Ultra-high Capacity: LiSO Sealed Micron Sized Iron Oxides as Anode for Lithium Batteries. <b>2021</b> ,   | 3 |
|-----|--|---|
| 357 | Pd on Guanidine-Functionalized FeO Nanoparticles as an Efficient Heterogeneous Catalyst for Suzuki-Miyaura Cross-Coupling and Reduction of Nitroarenes in Aqueous Media <b>2021</b> , 6, 34416-34428 | 5 |
| 356 | Nanocrystalline SnO2-modified electrode for ultra-sensitive mercury ion detection. 2022, 1-1   | 0 |
| 355 | Chemical etching induced microporous nickel backbones decorated with metallic Fe@hydroxide nanocatalysts: an efficient and sustainable OER anode toward industrial alkaline water-splitting.         | 8 |
| 354 | Magnetic MOF-808 as a novel adsorbent for toxic metal removal from aqueous solutions.  | 1 |
| 353 | Introducing X-ray photoelectron spectroscopy for corrosion studies: A tool for elucidating interfacial composition and chemistry. <b>2022</b> , 723-745  |   |
| 352 | Alginate promotes soil phosphorus solubilization synergistically with redox-active antibiotics through Fe(iii) reduction.  |   |
| 351 | Synthesis and characterization of nanoscale composite particles formed by 2D layers of Cu <b>H</b> e sulfide and Mg-based hydroxide.   |   |
| 350 | Photocatalytic Aspect of Rgo/Mnfe2o4 as an Efficient Magnetically Retrievable Catalyst for Reduction of Nitroaromatic Compounds Under Visible-Light Irradiation.                                     |   |
| 349 | Heterogeneous Fenton Degradation of Methyl Orange Using Feሼlជe Bentonite As Catalyst. <b>2022</b> , 96, 302-308  |   |
| 348 | Enhancement of natural dyeing properties and UV resistance of silk fibers modified by phenylboronic acid/hydroxypropyl-Eyclodextrin functionalized Fe 3 O 4 particle. 52253                          |   |
| 347 | Study on Methane-Sensing Properties of Fe2O3 Nanoparticles Prepared by Hydrothermal and Chemical Precipitation Methods. <b>2022</b> , 51, 2156-2167  | О |
| 346 | Hydrogen evolution reaction (HER) activity of conical Colle alloy structures and their application as a sensitive and rapid sensor for H2O2 detection. <b>2022</b> , 22, 1                           | О |
| 345 | Green Synthesis of Magnetite-Based Catalysts for Solar-Assisted Catalytic Wet Peroxide Oxidation. <b>2022</b> , 12, 271  | O |
| 344 | Oxide Modified Iron in Electron Beam Powder Bed Fusion Processability to Corrosion Properties. <b>2022</b> , 1, 31-53  | О |
| 343 | FeInII combined systems as photocatalysts for hydroxyl radicals production in sunlight. 2022,  | O |
| 342 | Synthesis of MIL-Modified FeO Magnetic Nanoparticles for Enhancing Uptake and Efficiency of Temozolomide in Glioblastoma Treatment <b>2022</b> , 23,   | 3 |
| 341 | Nitrogen-Doped Carbon Flowers with Fe and Ni Dual Metal Centers for Effective Electroreduction of Oxygen. <b>2022</b> , 10, 36   | О |

| 340 | Nitrogen-rich biomass derived three-dimensional porous structure captures FeNi metal nanospheres: An effective electrocatalyst for oxygen evolution reaction. <b>2022</b> , 47, 12487-12499   | 0 |
|-----|---|---|
| 339 | Nano-Fe2O3-coated NiMoO4 composites for high lithium storage performance. <b>2022</b> , 28, 1501-1510   | O |
| 338 | Fe(III)-Pt(II) oxide-co-sensitized brookite TiO2 nanorods for photocatalytic degradation of acetaldehyde under visible light. <b>2022</b> , 634, 118539                                       | О |
| 337 | One-Pot Synthesis of Magnetoplasmonic Au@FeO Nanowires: Bioinspired Bouligand Chiral Stack <b>2022</b> ,  | 2 |
| 336 | Fe2O3 hexagonal nanosheets assembled with NiS formed pl heterojunction for efficient photocatalytic hydrogen evolution. <b>2022</b> , 57, 6734-6748   | O |
| 335 | Nanostructured Iron Vanadate Photoanodes with Enhanced Visible Absorption and Charge Separation. <b>2022</b> , 5, 3409-3416   | 1 |
| 334 | Enhanced Fe-TiO Solar Photocatalysts on Porous Platforms for Water Purification 2022, 12,   | 3 |
| 333 | Composition of Corroded Reinforcing Steel Surface in Solutions Simulating the Electrolytic Environments in the Micropores of Concrete in the Propagation Period <b>2022</b> , 15,             | 2 |
| 332 | Structural Variation of Precipitates Formed by Fe(II) Oxidation and Impact on the Retention of Phosphate <b>2022</b> ,  | О |
| 331 | Entropy Stabilized Oxide Nanocrystals as Reaction Promoters in Lithium-O 2 Batteries.   |   |
| 330 | Fe-MOF Materials as Precursors for the Catalytic Dehydrogenation of Isobutane. <b>2022</b> , 12, 3832-3844  | 4 |
| 329 | Novel FeF 2 /Fe 1lk S Nanoreactor-Mediated Mitochondrial Dysfunction via Oxidative Stress and Fluoride Ions Overloaded for Synergistic Chemodynamic Therapy and Photothermal Therapy. 2113397 | 3 |
| 328 | Hierarchical Fe Doped Co Oxide/Hydroxide Nanosheet Arrays as Highly Efficient Oxygen Evolution Catalysts Prepared by Hydrothermal Etching of FeCo Prussian Blue Analogue.                     |   |
| 327 | Bioinspired Self-assembled Fe/Cu-Phenolic Blocks Building of Hierarchical Porous Biomass-Derived Carbon Aerogels for Enhanced Electrocatalytic Oxygen Reduction. <b>2022</b> , 128932         | O |
| 326 | Controlled reaction depth by metal (M=Fe, Ni, Mn and Ti) doped ceria in selective oxidation of ethane with carbon dioxide. <b>2022</b> , 635, 118565  | 1 |
| 325 | One-Step Synthesis of Sustainable Montmorillonite-Supported, Copper-Doped Magnetic Nanoparticles for Highly Specific Separation of His-Rich Proteins.   | O |
| 324 | Improving stability of iron oxide nanofluids for enhanced oil recovery: Exploiting wettability modifications in carbonaceous rocks. <b>2022</b> , 212, 110311                                 | 2 |
| 323 | A novel dual-functional coordination polymer for detection and ultra-effectively removal of Fe(III) in water. <b>2022</b> , 355, 118942   | 1 |

| 322 | Ion distribution in iron oxide, zinc and manganese ferrite nanoparticles studied by XPS combined with argon gas cluster ion beam sputtering. <b>2022</b> , 30, 101865    |   |
|-----|--|---|
| 321 | Microscopic and macroscopic interfacial studies of NbC reinforcement layer on GCr15 bearing steel surface prepared by in-situ reaction method. <b>2022</b> , 200, 110992 | O |
| 320 | (1 t͡k)Bi0.5Na0.5TiO3⊠BiFeO3 solid solutions with enhanced piezocatalytic dye degradation. <b>2022</b> , 290, 120831   | 1 |
| 319 | New bimetallic adsorbent material based on cerium-iron nanoparticles highly selective and affine for arsenic(V) <b>2022</b> , 134177                                     | 2 |
| 318 | Release of 5-FU loaded pectin/Fe3O4 from porous PBSA matrix under magnetic and electric fields. <b>2022</b> , 906, 164239  | 1 |
| 317 | FeCo nanoparticles with different compositions as electrocatalysts for oxygen evolution reaction in alkaline solution. <b>2022</b> , 589, 153041                         | O |
| 316 | Reduction of core loss for FeSi soft magnetic composites prepared using atomic layer deposition-based coating and high-temperature annealing. <b>2022</b> , 909, 164655  | 2 |
| 315 | Standing wave hard X-ray photoemission study of the structure of the interfaces in Ta/Co2FeAl/MgO multilayer. <b>2022</b> , 590, 153063                                  | O |
| 314 | Stability and photo demulsification of oil-in-seawater Pickering emulsion based on Fe induced amphiphilic alginate <b>2022</b> , 289, 119399                             | О |
| 313 | NaH doped TiO2 as a high-performance catalyst for Mg/MgH2 cycling stability and room temperature absorption. <b>2021</b> ,   | O |
| 312 | Mineralogical Transformations in Granitoids during Heating at Fire-Related Temperatures. <b>2022</b> , 12, 188   | 3 |
| 311 | Biphasic 在Type NaMn0.89Fe0.11O2 as a Cathode for Sodium-Ion Batteries: Structural Insight and High-Performance Relation. <b>2022</b> , 5, 116-125                        | 1 |
| 310 | Comparison between FeO/C and FeC/FeO/Fe/C Electrocatalysts for N Reduction in an Alkaline Electrolyte <b>2021</b> ,  | 2 |
| 309 | Interfaces between Different Iron Phthalocyanines and Au(111): Influence of the Fluorination on Structure and Interfacial Interactions. <b>2022</b> , 126, 716-727       | O |
| 308 | Surface Investigation of Ni81Fe19 Thin Film: Using ARXPS for Thickness Estimation of Oxidation Layers. <b>2021</b> , 11, 2061  | О |
| 307 | Influence of Temperature and Pressure on the Structure of Polymeric Catalysts Synthesized in Subctitical Water. <b>2021</b> , 15, 1120-1125                              |   |
| 306 | Influence of Magnesium Doping on the Photocatalytic and Antibacterial Properties of Hematite Nanostructures. <b>2022</b> , 259, 2100437                                  | 1 |
| 305 | Simultaneous adsorption of As(III) and Pb(II) by the iron-sulfur codoped biochar composite: Competitive and synergistic effects. <b>2023</b> , 125, 14-25                | 1 |

| 304         | Super-bridging fibrous materials for water treatment. <b>2022</b> , 5,  | 1 |
|-------------|---|---|
| 303         | Insights into Fe species structure-performance relationship for direct methane conversion toward oxygenates over Fe-MOR catalysts.  | 2 |
| 302         | Synergy Promotion of Elemental Doping and Oxygen Vacancies in Fe2O3 Nanorods for Photoelectrochemical Water Splitting.  | 2 |
| 301         | Sustainable and efficient removal of paraben, oxytetracycline and metronidazole using magnetic porous biochar composite prepared by one step pyrolysis. <b>2022</b> , 121120                    | O |
| 300         | Evolution of Passive Film on 304 Stainless Steel during Nitric Acid Passivation.  |   |
| 299         | Alkalized MXene-supported nanoscale zero-valent iron in situ derived from NH2-MIL-88B(Fe) for the highly efficient catalytic reduction of 4-nitrophenol. <b>2022</b> , 100145                   |   |
| 298         | Impact of Mono- and Dual-Sized Fe2O3 Catalyst Mixtures on the Thermochemical Processing of Pinewood for Upgraded Liquid Chemicals. <b>2022</b> , 10,  | О |
| 297         | Porphyrin Catecholate Iron-Based Metal©rganic Framework for Efficient Visible Light-Promoted One-Pot Tandem CC Couplings.   | 4 |
| 296         | Magnetic phase transition induced ferroelectric polarization in BaFeF4 with room-temperature weak ferromagnetism. <b>2022</b> , 6,  | 1 |
| 295         | Cu, Fe Dualfhodified Ni3S2 Nanosheets on Nickel Foam for Bifunctional Electrocatalytic Water Spitting. <b>2022</b> , 100368   | 1 |
| 294         | Fe-oxide/Al2O3 for the enhanced activity of H2S decomposition under realistic conditions: mechanistic studies by in-situ DRIFTS and XPS. <b>2022</b> , 136459                                   | 1 |
| 293         | Research on the Catalytic Hydrolysis of COS by Fellu/AC Catalyst and Its Inactivation Mechanism at Low Temperature**. <b>2022</b> , 7,  | O |
| 292         | Revealing carbon-iron interaction characteristics in sludge-derived hydrochars under different hydrothermal conditions <b>2022</b> , 134572   | O |
| 291         | Data_Sheet_1.doc. <b>2019</b> ,   |   |
| <b>2</b> 90 | Role of Headspace Environment for Phase Change Carbonates on the Corrosion of Stainless Steel 316l: High Temperature Thermal Storage Cycling in Concentrated Solar Power Plants.                |   |
| 289         | Reaction surfaces and interfaces of metal sulfides: cryo-XPS meets HAXPES and DFT 2022,   |   |
| 288         | Insight on anti-poisoning mechanism of in situ coupled sulfate over iron oxide catalysts in NOx reduction.  | О |
| 287         | Mechanistic understanding of the charge storage processes in FeF 2 aggregates assembled with cylindrical nanoparticles as a cathode material for lithium-ion batteries by in situ magnetometry. | 2 |

| 286 | Perovskite-Based Phase Transition Sorbents for Sorption-Enhanced Oxidative Steam Reforming of Glycerol.   | 1 |
|-----|---|---|
| 285 | Nano-Sized Antioxidative Trimetallic Complex Based on Maillard Reaction Improves the Mineral Nutrients of Apple (Borkh.) <b>2022</b> , 9, 848857                                | О |
| 284 | Magnetoelectric coupling studies in lead-free multiferroic (Ba0.85Ca0.15)(Zr0.1Ti0.9)O3[Ni0.7Zn0.3)Fe2O4 ceramic composites. <b>2022</b> ,                                      | 0 |
| 283 | Corrosion inhibition of carbon steel in hydrochloric acid solution by self-formation of a Malpighia glabra leaf extract-based organic film. <b>2022</b> , 103641                |   |
| 282 | Hydrophobic to superhydrophobic and hydrophilic transitions of Ar plasma-nanostructured PTFE surfaces.  |   |
| 281 | Corrosion Assessment for aging treatment of rolled and selective laser melting 18Ni 300 maraging steel.   |   |
| 280 | Surface Structures of Fe-TiO Photocatalysts for NO Oxidation <b>2022</b> ,  | 0 |
| 279 | Cu(II) immobilized on guanidine functionalized Fe3O4 magnetic substrate as a heterogeneous catalyst for selective reduction of nitroarenes. 1                                   | O |
| 278 | Methylene blue adsorption on magnesium ferrite: Optimization study, kinetics and reusability. <b>2022</b> , 103594  | 1 |
| 277 | Fe@Fe2O3-loaded biochar as an efficient heterogeneous Fenton catalyst for organic pollutants removal.   |   |
| 276 | Efficient capture of U(VI) by magnetic Zr(IV)-ethylenediamine tetramethylene phosphonic acid inorganic-organic hybrid <b>2022</b> ,   |   |
| 275 | Effect of Lithium Doping in P2-Type Layered Oxide Cathodes on the Electrochemical Performances of Sodium-Ion Batteries. <b>2022</b> , 136923                                    | 1 |
| 274 | Enhancing controlled and uniform degradation of Fe by incorporating Mg and Zn aimed for bio-degradable material applications. <b>2022</b> , 285, 126171                         | О |
| 273 | Enhancement of catalytic activity by addition of chlorine in chemical vapor deposition growth of carbon nanotube forests. <b>2022</b> , 196, 391-400                            | O |
| 272 | Tribological performance study of zirconium phosphate as an additive in titanium complex grease. <b>2022</b> , 321, 132402  | O |
| 271 | Efficient and cost-effective ORR electrocatalysts based on low content transition metals highly dispersed on C3N4/super-activated carbon composites. <b>2022</b> , 196, 378-390 | O |
| 270 | Development of a hybrid reaction module linked to liquid-phase plasma and electrolysis for hydrogen production with wastewater decomposition. <b>2022</b> , 445, 136725         |   |
| 269 | Sustainable selenium remediation from water using aluminiumIron mixed oxide: Batch and column adsorption studies. <b>2022</b> , 48, 102824                                      | 1 |

| 268 | Integration of 980/808 nm double sensitizers to fabricate the upconversion nanoparticles/NH2-MIL-101(Fe) hybrid photocatalyst toward ofloxacin, tetracycline, and Cr(VI). <b>2022</b> , 107908 | Ο |
|-----|--|---|
| 267 | Tailoring the upconversion emission and magnetic properties of NaGdF4:Yb, Er by Mg2+ or Fe3+ doping and optical trapping of individual magnetic nanoparticle at NIR 980 nm. <b>2022</b> ,      | Ο |
| 266 | TiBe mixed oxides as photocatalysts in the generation of hydrogen under UV-light irradiation. <b>2022</b> ,  | 1 |
| 265 | Anchoring MoS2 on Ethanol-Etched Prussian Blue Analog for Enhanced Electrocatalytic Efficiency for Oxygen Evolution Reaction.  | Ο |
| 264 | One-step atmospheric plasma-assisted synthesis of FeOOH and FeOOH/graphite high performance anode materials for lithium-ion batteries. <b>2022</b> , 153698                                    | Ο |
| 263 | Tailoring the oxide surface composition of stainless steel for improved OER performance in alkaline water electrolysis. <b>2022</b> , 140561   | O |
| 262 | Dynamics of Reaction-Induced Changes of Model-Type Iron Oxide Phases in the CO 2 -Fischer-Tropsch-Synthesis.   |   |
| 261 | In situ Fe(III)-doped TiO2 mesocrystals catalyzed visible light photo-Fenton system. <b>2022</b> ,   | Ο |
| 260 | Bimetallic Intersection in PdFe@FeO $x$ -C Nanomaterial for Enhanced Water Splitting Electrocatalysis. 2200096   |   |
| 259 | The effect of grinding condition on superconducting properties for iron chalcogenide Fe(SeTe) crystals. <b>2022</b> , 57, 9323-9333  | Ο |
| 258 | Improved Thermoelectric Properties of Fe Doped Si-Rich Higher Manganese Silicide.  |   |
| 257 | Engineering of surface metalflitrogen moieties in Fell based hybrid electrocatalysts for enhanced water oxidation.   | O |
| 256 | Spinel Ferrite Transformation for an Efficient Fe Removal from Circulating Fluidized Bed Fly Ash by Carbothermal Reduction at a Low Temperature.   | 0 |
| 255 | Treatment of Wastewater-CPL by Biochar-Based Fenton-Like Catalyst in the Presence of Micro-nano Bubbles. <b>2022</b> , 233,  |   |
| 254 | Fe-Based Theranostic Agents Respond to the Tumor Microenvironment for MRI-Guided Ferroptosis-/Apoptosis-Inducing Anticancer Therapy.   | 0 |
| 253 | Effect of Iron Substitution in Cryptomelane on the Heterogeneous Reaction with Isoprene. <b>2022</b> , 129293  |   |
| 252 | Effects of different inorganic oxidizers on removal of xanthate pre-adsorbed on chalcopyrite surface: An effective approach for flotation depression using KMnO4. <b>2022</b> , 184, 107655    | O |
| 251 | Investigation on the correlation between ferrous ion and the floatability of pyrite with different oxidation degrees. <b>2022</b> , 184, 107636  |   |

| Selective oxidation of benzene by an iron oxide carbonaceous nanocatalyst prepared from iron perchlorate salts and hydrogen peroxide in benzene and acetonitrile. <b>2022</b> , 526, 112397          |   |
|--|---|
| Influence of the Oxygen Induced Surface Segregation Process of Solutes on the Anti-corrosion Properties of the Fell and Fell Bi Alloys.  |   |
| Experimental and modeling evidence of hydroxyl radical production in iron electrocoagulation as a new mechanism for contaminant transformation in bicarbonate electrolyte. <b>2022</b> , 220, 118662 | 0   |
| Fabrication of a confined pyrite cinder-based photo-Fenton catalyst and its degradation performance for ciprofloxacin. <b>2022</b> , 360, 119489   | O   |
| The oxygen electrode bifunctionality studies: La2FeNiO6 double perovskite nanoparticles. <b>2022</b> , 918, 165492   |   |
| In-Situ Utilization of Coal Liquefaction Solid Residue Waste as an Effective Additive For Enhanced Catalytic Performance.  |   |
| Fate of Pyrene on Mineral Surfaces during Thermal Remediation as a Function of Temperature.  |   |
| Magnetic Phase Transition and magneto-elastic coupling in Fe1+xCr2-xSe4 (x = 0.0 - 0.50). <b>2022</b> , 111941   | O   |
| Impact of Ionic Liquid Additives and Inorganic Fullerene-Like Tungsten Disulfide on Friction and Wear under Aqueous Environments.  |   |
| Tailoring the Surface of Natural Graphite with Functional Metal Oxides via Facile Crystallization for Lithium-Ion Batteries.   | 1   |
| XPS Study in BiFeO3 Surface Modified by Argon Etching. <b>2022</b> , 15, 4285  | Ο   |
| Cr( VI ) removal from groundwater by calcium alginate coating microscale zero-valent iron and activated carbon: Batch and column tests.  | 1   |
| Understanding and Utilizing Reactive Oxygen Reservoirs in Atomic Layer Deposition of Metal Oxides with Ozone.  | O   |
| Microstructure characteristics and corrosion behavior of low- alloy high-strength steel used for armor layer under exposure to H 2 S-saturated solution.   | O   |
| Surface Oxygen Interfacial Diffusion Suppression for Enhanced Spintronic Terahertz Radiation   |   |
| Emission. <b>2022</b> , 126, 10224-10229   |   |
| Emission. <b>2022</b> , 126, 10224-10229  Conversion of waste bottle PET to magnetic microparticles adsorbent for dye-simulated wastewater treatment. <b>2022</b> , 10, 108055                       | O   |
| Conversion of waste bottle PET to magnetic microparticles adsorbent for dye-simulated  | O   |
|  | Influence of the Oxygen Induced Surface Segregation Process of Solutes on the Anti-corrosion Properties of the Fetra and Fetirisi Alloys.  Experimental and modeling evidence of hydroxyl radical production in iron electrocoagulation as a new mechanism for contaminant transformation in bicarbonate electrolyte. 2022, 220, 118662  Fabrication of a confined pyrite cinder-based photo-Fenton catalyst and its degradation performance for ciprofloxacin. 2022, 360, 119489  The oxygen electrode bifunctionality studies: La2FeNiO6 double perovskite nanoparticles. 2022, 918, 165492  In-Situ Utilization of Coal Liquefaction Solid Residue Waste as an Effective Additive For Enhanced Catalytic Performance.  Fate of Pyrene on Mineral Surfaces during Thermal Remediation as a Function of Temperature.  Magnetic Phase Transition and magneto-elastic coupling in Fe1+xCr2-xSe4 (x = 0.0 - 0.50). 2022, 111941  Impact of Ionic Liquid Additives and Inorganic Fullerene-Like Tungsten Disulfide on Friction and Wear under Aqueous Environments.  Tailoring the Surface of Natural Graphite with Functional Metal Oxides via Facile Crystallization for Lithium-Ion Batteries.  XPS Study in BiFeO3 Surface Modified by Argon Etching. 2022, 15, 4285  Cr(VI) removal from groundwater by calcium alginate coating microscale zero-valent iron and activated carbon: Batch and column tests.  Understanding and Utilizing Reactive Oxygen Reservoirs in Atomic Layer Deposition of Metal Oxides with Ozone.  Microstructure characteristics and corrosion behavior of low- alloy high-strength steel used for armor layer under exposure to H 2 S-saturated solution. |

| 232 | Ultrathin amorphous defective co-doped hematite passivation layer derived via in-situ electrochemical method for durable photoelectrochemical water oxidation.   | 1 |
|-----|--|---|
| 231 | Mesoporous Magnetic Cysteine Functionalized Chitosan Nanocomposite for Selective Uranyl Ions Sorption: Experimental, Structural Characterization, and Mechanistic Studies. <b>2022</b> , 14, 2568                    | 2 |
| 230 | Simultaneous activation of KHSO5 and BuOOH by Iron octacarboxyphthalocyanine loaded on fly ash microspheres to boost pollutant degradation. <b>2022</b> ,  |   |
| 229 | Microwave-Induced Deep Catalytic Oxidation of NO Using Molecular-Sieve-Supported Oxygen-Vacancy-Enriched Felin Bimetal Oxides. <b>2022</b> , 56, 10423-10432   | O |
| 228 | Improvement in Oxygen Evolution Performance of NiFe Layered Double Hydroxide Grown in the Presence of 1T-Rich MoS2.  | 1 |
| 227 | Effects of composition ratio of nano ZnS on structural and optical characteristics of Eu-doped maghemite\$\$/\$\$ZnS nanocomposite system. <b>2022</b> , 128,  | 1 |
| 226 | Thin-Film Paradigm to Probe Interfacial Diffusion during Solid-State Metathesis Reactions.   | 0 |
| 225 | Synthesis, Characterization, and First-Principles Analysis of the MAB-Like Ternary Transition-Metal Boride Fe(MoB)2.   | 2 |
| 224 | Composition-Dependent Morphology, Structure, and Catalytical Performance of Nickellron Layered Double Hydroxide as Highly-Efficient and Stable Anode Catalyst in Anion Exchange Membrane Water Electrolysis. 2203520 | 2 |
| 223 | Effects of cerium and tungsten addition on acid-base properties of spindle-like Fe2O3 in low-temperature SCR of NO with NH3. <b>2022</b> ,   | O |
| 222 | Impact of Mn2+-Si4+ co-substitution on the electronic structure of Zn0.3Mn0.7Fe2O4 ferrites studied by X-ray photoelectron spectroscopy. <b>2022</b> ,   | 0 |
| 221 | Intergranular corrosion in evolving media: Experiment and modeling by cellular automata. <b>2022</b> , 205, 110457   | O |
| 220 | Chloride-induced depassivation and corrosion of mild steel in magnesium potassium phosphate cement. <b>2022</b> , 206, 110482  | 1 |
| 219 | The role of Fe dissolution in olivine-hydroxylamine-induced Fenton reaction for enhanced oxidative degradation of organic pollutant. <b>2022</b> , 306, 135557   | 1 |
| 218 | FeCl3-activated biochar catalyst for heterogeneous Fenton oxidation of antibiotic sulfamethoxazole in water. <b>2022</b> , 306, 135554   | 0 |
| 217 | Ni2P nanocrystals modification on Ta: Fe2O3 photoanode for efficient photoelectrochemical water splitting: In situ formation and synergistic catalysis of Ni2P@NiOOH cocatalyst. <b>2022</b> , 449, 137792           | 4 |
| 216 | Exploiting CMC@Fe3O4 nanoparticles as a multi-functional component for hydrogel fabrication.   |   |
| 215 | Fe2O3-MWNTs Composite with Reinforced Concrete Structure as High-performance Anode<br>Material for Lithium-ion Batteries.  |   |

| 214 | The Structural, Thermal and Electrochemical Properties of MnFe1-x-yCuxNiyCoO4 Spinel Protective Layers in Interconnects of Solid Oxide Fuel Cells (SOFCs). <b>2022</b> , 166351 | 1 |
|-----|---|---|
| 213 | An initial covalent-organic polymer with closed-F edges directly for proton-exchange membrane fuel cells. 2204570   | 1 |
| 212 | Passivation behaviour of mild steel embedded in magnesium potassium phosphate cement-calcium sulphoaluminate cement blended paste. <b>2022</b> , 347, 128537                    | 1 |
| 211 | Plasma-modified flaky FeSiAl alloy for efficient growth of carbon nanotube arrays with high carbon conversion rate. <b>2022</b> , 923, 166453                                   | O |
| 210 | Nitrogen-Doped Carbon Nanotube In-Situ Loaded Linbo3 Anode with High Capacitance Contribution for Lithium-Ion Capacitors.   |   |
| 209 | Development of Calcium Carbonate-Based Coatings by the Carbonation of Gamma-C2S (EC2S). <b>2022</b> , 15, 5088  | 1 |
| 208 | Adsorption behaviors and mechanisms of Al-Fe dual-decorated biochar adsorbent for phosphate removal from rural wastewater. 1-12   |   |
| 207 | Attaining Ultra-Smooth 18CrNiMo7-6 Case Hardening Steel Surfaces with Chemical Mechanical Polishing. <b>2022</b> , 10, 199  |   |
| 206 | High-Temperature Abatement of N2O over FeOx/CeO2-Al2O3 Catalysts: The Effects of Oxygen Mobility. <b>2022</b> , 12, 938   | 2 |
| 205 | Role of manganite in enhancing dielectric cum magnetic properties of BTFO-LSMO composites. <b>2022</b> , 128,   |   |
| 204 | Synthesis and characterization of non-stoichiometric cobalt nanoferrites for multifunctional applications.  | O |
| 203 | pH-Responsive Charge-Convertible N -Succinyl Chitosan-Quercetin Coordination Polymer<br>Nanoparticles for Effective NIR Photothermal Cancer Therapy. 2200140                    | O |
| 202 | Observation of the depassivation effect of attrition on magnesium silicates' direct aqueous carbonation products. 4,  | О |
| 201 | Interface structure and corrosion protection of hybrid particles prepared via surfactant- and silica-assisted wet ball milling. <b>2022</b> , 100079                            |   |
| 200 | Carbon Nanosphere-Encapsulated Fe CoreBhell Structures for Catalytic CO2 Hydrogenation. <b>2022</b> , 5, 11605-11616  | О |
| 199 | Controlling Cation Distribution and Morphology in Colloidal Zinc Ferrite Nanocrystals. <b>2022</b> , 34, 7446-7459  | O |
| 198 | Role of FeIIAl Sites for Low-Temperature CO Oxidation (~50 °C) over the Fe-Oxide Nanoparticles Supported by Al2O3. <b>2022</b> , 126, 13686-13697                               |   |
| 197 | Improved thermoelectric properties of Fe doped Si-rich higher manganese silicide. <b>2022</b> , 284, 115912   |   |

| 196 | Corrosion behavior of W-DLC and DLC films deposited on plasma nitrided CF170 steel in H2SO4 solution. <b>2022</b> , 204, 111385   | O |
|-----|---|---|
| 195 | Enhanced toxicity effects of iron particles together with PFOA in drinking water. <b>2022</b> , 311, 119919   |   |
| 194 | Environmental-friendly low-cost direct regeneration of cathode material from spent LiFePO4. <b>2022</b> , 924, 166612   | 1 |
| 193 | Magnetite nanoparticles functionalized with citrate: A surface science study by XPS and ToF-SIMS. <b>2022</b> , 602, 154366   | O |
| 192 | Effect of triethanolamine and sodium hexametaphosphate on formation, growth and breakdown of passive layer in concrete pore solution. <b>2022</b> , 59, 105113            | O |
| 191 | Nanostructured hexagonal BN coating-supported silver and iron oxide nanoparticles and related bactericidal and fungicidal activities. <b>2022</b> , 603, 154418           | O |
| 190 | Oxygen vacancies and interfacial iron sites in hierarchical BiOCl nanosheet microflowers cooperatively promoting photo-Fenton. <b>2022</b> , 307, 135967                  | 1 |
| 189 | Platinum group metal-free FeNII catalysts for PEM fuel cells derived from nitrogen and sulfur doped synthetic polymers. <b>2022</b> , 328, 125323                         | 1 |
| 188 | Surface reconstruction and sulfur vacancies engineering in pentlandite for improving hydrogen evolution reaction. <b>2022</b> , 604, 154470                               |   |
| 187 | Utilization of coal liquefaction solid residue waste as an effective additive for enhanced catalytic performance. <b>2022</b> , 329, 125454                               | 1 |
| 186 | NiFe layered double hydroxide as an efficient bifunctional catalyst for electrosynthesis of hydrogen peroxide and oxygen. <b>2022</b> ,                                   | 0 |
| 185 | Chemically Synthesized Iron-Oxide-Based Pure Negative Electrode for Solid-State Asymmetric Supercapacitor Devices. <b>2022</b> , 15, 6133                                 | 1 |
| 184 | Study of electronic structure and dielectric properties of Gd-doped cobalt nanoferrites.  | О |
| 183 | Exfoliated nano-hBN additives for enhancing tribological performance of ATSP coatings deposited on AISI 316L steel: Role of SMAT pre-treatment. <b>2022</b> , 447, 128829 | 1 |
| 182 | Hydrogen effects on passivation and SCC of 2205 DSS in acidified simulated seawater. <b>2022</b> , 208, 110640  | 1 |
| 181 | Functionalized Fe3O4 nanoparticles for electrochemical sensing of carbendazim. <b>2022</b> , 432, 141193  | Ο |
| 180 | Redox-dependent surface passivation reduces phytolith solubility. <b>2022</b> , 428, 116158   | О |
| 179 | Recycling application of heating pad waste as catalyst and adsorbent for organic and inorganic arsenic removal: Performance and mechanism. <b>2023</b> , 451, 138986      | Ο |

| 178 | High-pressure Synthesis, Spin-Glass behavior and Magnetocaloric Effect in FexTi2S4 Heideite Sulfides.   | O |
|-----|---|---|
| 177 | On the Impact of Nanometric Fe2o3 on the Magnetic, Electronic, and Photocatalytic Behavior of Tio2@Fe2o3 Heterostructures.  | O |
| 176 | Bioinspired redox-coupled conversion reaction in FeOOH-acetate hybrid nanoplatelets for Na ion battery. <b>2022</b> , 10, 17740-17751   | О |
| 175 | A novel strategy for encapsulating metal sulfide nanoparticles inside hollow carbon nanosphere-aggregated microspheres for efficient potassium ion storage. <b>2022</b> , 10, 17790-17800 | 1 |
| 174 | Identification of a Reactive Ferrous Hydroxide in the Core-Shell Structure of Nano-Zero-Valent Iron by Māsbauer and X-Ray Photoelectron Spectroscopies.                                   | 0 |
| 173 | Multi-functional O2H2 electrochemistry by an abundant mineral: a novel and sustainable alternative for noble metals in electrolyzers and metallir batteries.                              | 1 |
| 172 | Structural elucidation of hexavalent Cr adsorbed on surfaces and bulks of Fe3O4 and FeOOH. <b>2022</b> , 12, 25578-25586  | O |
| 171 | Vertically aligned Fe2TiO5 nanorods and coupling of NiMoO4/CoMoO4 as a hole-transfer cocatalyst for enhancing photoelectrochemical water oxidation performance.                           | O |
| 170 | ☑reen-to-Green⊡ron Oxides Embedded in Lignin-Based Carbon Scaffolds for Water Remediation Via Oxidation Excluding Free-Radical Pathways.  | O |
| 169 | Impacts of coexisting mineral on crystallinity and stability of Fe(II) oxidation products: Implications for neutralization treatment of acid mine drainage. <b>2023</b> , 442, 130060     | 1 |
| 168 | Synergistic Behavior of Polyethyleneimine and Epoxy Monomers Loaded in Mesoporous Silica as a Corrosion-Resistant Self-Healing Epoxy Coating. <b>2022</b> , 7, 31700-31712                | 0 |
| 167 | Hydrothermal Synthesis and Annealing Effect on the Properties of Gas-Sensitive Copper Oxide Nanowires. <b>2022</b> , 10, 353  | O |
| 166 | Formation and Evolution of Corrosion Product Film on 304 Stainless Steel in HCl-Based Pickling Solution under Chemical Oxidation.   | O |
| 165 | Chitosan <b>E</b> e(III) Complexes via Green Preparation toward Flame Retardant and High-Mechanical-Strength Epoxy Composites.  | O |
| 164 | Tailoring 3D-Printed Electrodes for Enhanced Water Splitting. <b>2022</b> , 14, 42153-42170   | 6 |
| 163 | Obvious improvement in electrochemical and long-term immersion corrosion resistance of AISI 420 martensitic stainless steel using laser shock peening. <b>2022</b> , 110688               | 1 |
| 162 | Preparation of La(III), Fe(III) Modified Zeolite Molecular Sieves for the Removal of Fluorine from Water. <b>2022</b> , 14, 2946  | O |
| 161 | Pyrogallate-Based Metal-Organic Framework with a Two-Dimensional Secondary Building Unit.   | O |

| 160 | Synthesis and investigation of SBA-15 lined with ethylenediamine to create charge-transfer complexes. <b>2022</b> , 112242   | Ο |
|-----|--|---|
| 159 | Nanoscale Networks of Metal Oxides by Polymer Imprinting and Templating for Future Adaptable Electronics. <b>2022</b> , 5, 13349-13360   | O |
| 158 | Pressure Leaching of Copper Slag Flotation Tailings in Oxygenated Sulfuric Acid Media.   | О |
| 157 | Crystal Plane Impact of ZnFe2O4Ag Nanoparticles Influencing Photocatalytical and Antibacterial Properties: Experimental and Theoretical Studies. <b>2022</b> , 7, 33985-34001                                  | 2 |
| 156 | Study on the color mechanism of amethyst after heat treatment and first-principle calculation. <b>2022</b> , 128,  | 0 |
| 155 | Single-atom-driven dynamic carburization over Pd1HeOx catalyst boosting CO2 conversion. 2022,  | 2 |
| 154 | Pyrogallate-Based Metal-Organic Framework with a Two-Dimensional Secondary Building Unit.  | 0 |
| 153 | STRUCTURAL FEATURES AND CATALYTIC PROPERTIES OF AgFeO2 BINARY OXIDE IN THE $\boxplus$ OXIDATION REACTION. <b>2022</b> , 63, 1496-1508  | O |
| 152 | Surface Characterization Techniques in Corrosion Inhibition Research. 2022, 353-382  | 0 |
| 151 | The impact of nanometric Fe2O3 on the magnetic, electronic, and photocatalytic behavior of TiO2@Fe2O3 heterostructures. <b>2022</b> , 155186   | O |
| 150 | Bifunctional Mesoporous MO $x$ (M = Cr, Fe, Co, Ni, Ce) Oxygen Electrocatalysts for Platinum Group Metal-Free Oxygen Pumps. 2200927  | 0 |
| 149 | Treating waste by waste: Remediation of methylene blue using core-shell MI@ZIF-11 nanocomposites from waste toner powder. <b>2022</b> , 168, 189-204   | O |
| 148 | Developing a robust thiadiazole derivative corrosion inhibitor for dynamic supercritical CO2 aqueous environment: Electrochemical tests and DFT calculations. <b>2022</b> , 209, 110695                        | 3 |
| 147 | Oxygen vacancy-rich Fe3O4 nanoparticle synthesized via facile electrochemical method as anode material for high-performance lithium-ion batteries. <b>2022</b> , 171, 111028                                   | O |
| 146 | Mechanistic studies of uranyl interaction with functionalized mesoporous chitosan-superparamagnetic nanocomposites for selective sorption: Characterization and sorption performance. <b>2022</b> , 33, 104536 | 1 |
| 145 | Magnetic amorphous carbon@manganese ferrite hybrid materials as a heterogeneous persulfate activator for catalytic oxidation of tetrabromobisphenol A. <b>2022</b> , 303, 122230                               | O |
| 144 | Engineering chemical pathways for phase-tuned nanocrystalline Iron oxides in microwave-assisted solvothermal synthesis.  | О |
| 143 | Structural design enabled a hypotoxic Na3.36FeV(PO4)3 cathode with ultra-fast and ultra-long sodium storage. <b>2022</b> , 14, 15640-15650   | O |

| 142 | Facile fabrication of a biodegradable multi-hollow iron phosphate nanoplatform for tumor-specific nanocatalytic therapy and chemotherapy.   | 0 |
|-----|---|---|
| 141 | Fe doped carbonized polymer dots based fluorescent sensor with Eurn-on properity for hydrazine hydrate detection.   | O |
| 140 | In situ generation of Ni/Fe hydroxide layers by anodic etching of a Ni/Fe film for efficient oxygen evolution reaction. <b>2022</b> , 46, 20490-20496   | o |
| 139 | Electrochemical corrosion behavior and mechanism of iron-oxidizing bacteria Thiobacillus ferrooxidans from acid mine drainage on Q235 carbon steel. <b>2022</b> , 46, 20279-20291                         | О |
| 138 | Soft magnetic properties of nano-SiO2 coated FeNi alloy powder at high frequencies.   | 0 |
| 137 | Deciphering Ligand Controlled Structural Evolution of Prussian Blue Analogues and Their Electrochemical Activation during Alkaline Water Oxidation.   | О |
| 136 | Effect of dissolved Si on the corrosion of iron in deaerated and slightly alkaline solutions (pH B.1) at 50 °C. <b>2022</b> , 110790  | О |
| 135 | Bimetallic Borate Ni2FeBO5 as a High-Performance Anode for Sodium-Ion Batteries.  | 1 |
| 134 | Iron Oxyhydroxide-Covalent Organic Framework Nanocomposite for Efficient As(III) Removal in Water.  | 0 |
| 133 | Mesoporous magnetic-polyaminated-chitosan nanocomposite for selective uranium removal: performance and mechanistic studies.   | О |
| 132 | Nanoparticulate FeF2@C as a Li Battery Conversion Cathode.  | 1 |
| 131 | STRUCTURE OF XPS SPECTRA OF K2FeO4. <b>2022</b> , 63, 1649-1661   | О |
| 130 | Deciphering Ligand Controlled Structural Evolution of Prussian Blue Analogues and Their Electrochemical Activation during Alkaline Water Oxidation.   | O |
| 129 | Hydrogenation of levulinic acid to gamma-valerolactone over nickel supported organoclay catalyst. <b>2022</b> ,   | 1 |
| 128 | Mechanochemically sulfidated zero-valent iron as persulfate activation catalyst in permeable reactive barriers for groundwater remediation [A feasibility study. 2022, 137081                             | O |
| 127 | Fe-Cu-Rh ternary alloy nanofibers as an outstanding pH-universal electrocatalyst for hydrogen evolution reaction: The catalytic roles of Fe depending on pH. <b>2022</b> , 155484                         | О |
| 126 | Identification of a Fe(OH)2-like phase in the coreBhell structure of nano-zero-valent Fe and its evolution when interacting with Pd2+aq ions by MBsbauer spectroscopy, XPS, and TEM. <b>2022</b> , 111066 | 1 |
| 125 | Removal of As(III)/As(V) from aqueous solution using newly developed thiosalicylic acid coated magnetite [TSA@Fe3O4] nanoparticles.   | O |

| 124 | Nitrogen-doped carbon nanotube in-situ loaded LiNbO3 anode with high capacitance contribution for lithium-ion capacitors. <b>2022</b> , 435, 141354   | О |
|-----|---|---|
| 123 | Enhanced photocatalytic VOCs degradation performance on Fe-doped ceria under visible light. <b>2022</b> , 29, 101651  | Ο |
| 122 | Active bimetallic FeDIIo sites built on 2D trimetallic complex spinel oxides for industrially oxygen evolution electrocatalyst. <b>2022</b> , 26, 101214  | 0 |
| 121 | Effect of doping of iron on structural, optical and magnetic properties of CeO2 nanoparticles. <b>2022</b> , 808, 140110  | 1 |
| 120 | Mixed-valence iron phosphate: Superhydrophilic multi-plated microflakes towards symmetric supercapacitor. <b>2022</b> , 35, 102419  | 1 |
| 119 | Carboxyl and thiol-functionalized magnetic nanoadsorbents for efficient and simultaneous removal of Pb(II), Cd(II), and Ni(II) heavy metal ions from aqueous solutions: Studies of adsorption, kinetics, and isotherms. <b>2023</b> , 172, 111089 | 2 |
| 118 | N doped FeP nanospheres decorated carbon matrix as an efficient electrocatalyst for durable lithium-sulfur batteries. <b>2023</b> , 630, 70-80  | Ο |
| 117 | Insights into manganese ferrite anchored graphene oxide to remove Cd(II) and U(VI) via batch and semi-batch columns and its potential antibacterial applications. <b>2023</b> , 310, 136888   | 3 |
| 116 | The morphology and magnetic properties of iron nanoclusters decorated multiwall carbon nanotubes. <b>2023</b> , 158, 112061   | 1 |
| 115 | Electrochemical Properties of Iron Oxide Decorated Activated Carbon Cloth as a Binder-Free Flexible Electrode. <b>2022</b> , 25,  | O |
| 114 | Rare earth ion-adsorption clays in the presence of iron at basic pH: Adsorption mechanism and extraction method. <b>2023</b> , 231, 106744  | О |
| 113 | Interface and cation dual-engineering promoting Ce-Co(OH)2/CoP/NF as bifunctional electrocatalyst toward overall water splitting coupling with oxidation of organic compounds. <b>2023</b> , 934, 167942  | Ο |
| 112 | Tailored deep-eutectic solvent method to enable 3D porous iron fluoride bricks for conversion-type lithium batteries. <b>2022</b> ,   | 0 |
| 111 | Oxytetracycline Degradation by Heterogeneous Photo-Fenton-Like Process Using h@MIL-100(Fe) with LED Visible Light. <b>2022</b> , 233,   | Ο |
| 110 | Efficient degradation of organic pollutants using peroxydisulfate activated by magnetic carbon nanotube.  | Ο |
| 109 | An eco-friendly corrosion inhibitor Cuscuta reflexa extract and PEG400 for mild steel inhibition in acidic medium: computational and experimental investigations.   | 0 |
| 108 | Laser shock peening-induced carbide evolution and remarkable improvement in electrochemical and long-term immersion corrosion resistance of 2Cr12NiMoWV martensitic stainless steel. <b>2022</b> , 451, 129034                                    | 0 |
| 107 | Evolution of coating layers during high-temperature annealing and their effects on magnetic behavior of Fe(Si) soft magnetic composites. <b>2022</b> , 33, 103876   | Ο |

| 106 | Effects of surface Chemistry, particle morphology and pretreatment on zircon flotation. <b>2022</b> , 190, 107904  | O |
|-----|--|---|
| 105 | Interface engineering of iron-doped multiphase nickel hydroxide as an effective electrocatalyst for oxygen evolution reaction. <b>2023</b> , 611, 155781   | O |
| 104 | Preparation of VOC low-temperature oxidation catalysts with copper and iron binary metal oxides via hydrotalcite-like precursors. <b>2022</b> , 12, 35083-35093  | 0 |
| 103 | Effects of arsenicirondissolved organic matter interactions on arsenic mobilization: Insight from column experiments. <b>2023</b> , 616, 128837  | 1 |
| 102 | Magnetic energy dissipative factors of spin-coated Y3Fe5O12 thin films. 2023, 764, 139625  | O |
| 101 | Synergistic activation of persulfate by heat and cobalt-doped-bimetallic-MOFs for effective methylene blue degradation: Synthesis, kinetics, DFT calculation, and mechanisms. <b>2023</b> , 11, 109065 | 1 |
| 100 | Direct regeneration of waste LiFePO4 cathode materials with a solid-phase method promoted by activated CNTs. <b>2023</b> , 157, 141-148  | О |
| 99  | Bromine functionalized Fe/Cu bimetallic MOFs for accelerating Fe(III)/Fe(II) cycle and efficient degradation of phenol in Fenton-like system. <b>2023</b> , 658, 130701                                | 1 |
| 98  | Bricks of Co, Ni doped Fe3O4 as high performing pseudocapacitor electrode. <b>2023</b> , 58, 106391  | 0 |
| 97  | Engineering carrier density at TiO2 nanotube metasurface with hole reservoir for Enhanced Photo-electrocatalysis. <b>2023</b> , 613, 155974  | 1 |
| 96  | Early stages of corrosion of stainless steel 309 S in geological brines studied by sychrotron radiation photoelectron spectroscopy. <b>2023</b> , 212, 110934  | 0 |
| 95  | Co-Doped Fe3S4 Nanoflowers for Boosting Electrocatalytic Nitrogen Fixation to Ammonia under Mild Conditions. <b>2022</b> , 61, 20123-20132   | O |
| 94  | Fe Single-Atom Catalyst for Cost-Effective yet Highly Efficient Heterogeneous Fenton Catalysis. <b>2022</b> , 14, 53767-53776  | О |
| 93  | NOM-Induced Dissolution of CrxFe1⊠(OH)3 Precipitates and Formation of Cr(III)-NOM-Fe Colloids under Oxic and Anoxic Conditions. <b>2022</b> , 6, 2995-3006   | O |
| 92  | Hybrid CuFelloFe Prussian Blue Catalysts on BiVO4 for Enhanced Charge Separation and Injection for Photoelectrochemical Water Oxidation. <b>2022</b> , 5, 15434-15441                                  | 0 |
| 91  | Dual fluorination of polymer electrolyte and conversion-type cathode for high-capacity all-solid-state lithium metal batteries. <b>2022</b> , 13,  | 1 |
| 90  | Effect of Oxygen Vacancies and Cationic Inversion on Magnetic Properties of Pulsed Laser Deposited Zinc Ferrite Thin Films.  | О |
| 89  | Corrosion behaviour of Super Ferritic Stainless Steel 020Cr25MoCuNbTi in the Waste Phosphoric Acid of a Surface Treatment Process. <b>2022</b> , 110921  | О |

| 88 | Graphene oxide enhanced the reductive sequestration of UO22+, ReO4[ISeO42land SeO32lby zero-valent iron: batch, column and mechanism investigations.  | О |
|----|---|---|
| 87 | XPS, structural and antimicrobial studies of novel functionalized halloysite nanotubes. <b>2022</b> , 12,   | Ο |
| 86 | Iron Oxide Nanoparticles: A Review on the Province of Its Compounds, Properties and Biological Applications. <b>2023</b> , 16, 59   | 1 |
| 85 | Boosting NiFe-LDH by ruthenium dioxide for effective overall water splitting. 2022,   | Ο |
| 84 | Mechanism of enhanced flowability/spreadability in 3D printed Ni alloy powder. 2022, 118198   | 0 |
| 83 | Surface modification of stainless steel to control the thickness and composition of oxidation film for in-situ anodic hydrogen sulfide removal in aqueous media. <b>2023</b> , 136076                                   | O |
| 82 | Magneto-transport and Magneto-dielectric Anomalies in Co doped Iron Oxide Thin Films   Microwave Assisted Sol-Gel Route. <b>2023</b> , 101595   | O |
| 81 | Assessment of the inhibitive performance of a hydrazone derivative for steel rebar in a simulated concrete medium: Establishing the inhibition mechanism at an experimental and theoretical level. <b>2023</b> , 141347 | 1 |
| 80 | Metal single-site catalyst design for electrocatalytic production of hydrogen peroxide at industrial-relevant currents. <b>2023</b> , 14,   | O |
| 79 | Visible light enhanced persulfate activation for degradation of tetracycline via boosting adsorption of persulfate by ligand-deficient MIL-101(Fe) icosahedron. <b>2023</b> , 137857                                    | O |
| 78 | Superparamagnetic cobalt ferrite nanoparticles synthesized by gamma irradiation.  | 0 |
| 77 | Permeating Hydrogen Generated from the Elemental Sulfur Corrosion of Low Carbon Steel. <b>2023</b> , 110987   | O |
| 76 | Fe3O4 Contribution to CoreBhell Structured Si@C Nanospheres as High-Performance Anodes for Lithium-Ion Batteries.   | 0 |
| 75 | Fundamental Understanding of Electronic Structure in FeN4 Site on Electrocatalytic Activity via dz2-Orbital Driven Charge Tuning for Acidic Oxygen Reduction.   | O |
| 74 | Effects of metal doping on the catalytic performance of LaFe-based perovskites for CO2 hydrogenation to light olefins. <b>2023</b> , 51, 101-110  | O |
| 73 | The enhancement of the photocatalytic properties of SmFe0.7Co0.3O3 thin films by synergistic effect of Sr doping and H2O2 as co-catalyst. <b>2023</b> ,   | O |
| 72 | Revealing the Enhanced Passivation and Anti-Corrosion Performance of Surface-Nanocrystallization-Modified Cr-Alloyed Rebar via Electrochemical Testing and XPS Depth Analysis. <b>2023</b> , 13, 192                    | О |
| 71 | Fundamental Understanding of Electronic Structure in FeN4 Site on Electrocatalytic Activity via dz2-Orbital Driven Charge Tuning for Acidic Oxygen Reduction.   | O |

| 70 | Enhancement of electrical conductivity, optical band gap and ferromagnetic properties by co-doping of Co and Ti ions in canted antiferromagnetic hematite (Fe2O3) system. <b>2023</b> , 296, 127298        | 0 |
|----|--|---|
| 69 | BiVO4 charge transfer control by a water-insoluble iron complex for solar water oxidation. <b>2023</b> , 652, 119035   | Ο |
| 68 | Utilization of iron-based waste derived from the biogas desulfurization process as an economic catalyst for tetracycline oxidation in water. <b>2023</b> , 29, 103006                                      | 0 |
| 67 | Lithium-rich antiperovskite (Li2Fe)SeO: A high-performance cathode material for lithium-ion batteries. <b>2023</b> , 558, 232547   | Ο |
| 66 | Investigating the effects of aging time on corrosion resistance and antibacterial property of newly designed medium-entropy super austenitic stainless steels. <b>2023</b> , 27, 101687                    | 0 |
| 65 | Role of headspace environment for phase change carbonates on the corrosion of stainless steel 316L: High temperature thermal storage cycling in concentrated solar power plants. <b>2023</b> , 251, 112170 | Ο |
| 64 | Growth of high-density horizontal SWNT arrays by pre-cracking of carbon source. <b>2023</b> , 205, 27-32   | Ο |
| 63 | Reversible perovskite-fluorite phase transition in alumina-supported CeFeOx films.   | Ο |
| 62 | Fast and Facile Microwave Synthesis of Cubic CuFe 2 O 4 Nanoparticles for Electrochemical CO 2 Reduction. 2200184  | 0 |
| 61 | Selenite adsorption and reduction via Iron(II) impregnated activated carbon produced from the Phosphoric acid activation of landfill waste wood.   | Ο |
| 60 | Preparation of Superhydrophobic Coating with Anti-Corrosion and Anti-Fouling Properties on the Surface of Low Manganese Steel by Electrodeposition Technology.   | 0 |
| 59 | Manipulation and Elimination of Circulating Tumor Cells using Multi-responsive Nanosheet for Malignant Tumor Therapy.  | Ο |
| 58 | Surface Modification of an Absorbable Bimodal Fe-Mn-Ag Alloy by Nitrogen Plasma Immersion Ion Implantation. <b>2023</b> , 16, 1048   | 0 |
| 57 | Improved chemical defects and electrical properties of Li/Al co-doped BiFeO3-BaTiO3 lead-free ceramics. <b>2023</b> , 34,  | O |
| 56 | Fabrication and soft magnetic properties of FeSiB based flakes with insulating surface layer suitable for high frequency power applications. <b>2023</b> , 13, 025210                                      | 0 |
| 55 | Facile fabrication of the hybrid of amorphous FePO4•2H2O and GO toward high performance sodium-ion batteries. <b>2023</b> , 176, 111243  | O |
| 54 | Iron oxide/hydroxidefitrogen doped graphene-like visible-light active photocatalytic layers for antibiotics removal from wastewater. <b>2023</b> , 13,   | 0 |
| 53 | In Situ Modification of CuO <b>E</b> e2O3 by Nonthermal Plasma: Insights into the CO2-to-CH3OH<br>Hydrogenation Reaction. <b>2023</b> , 8, 13410-13420   | O |

| 52 | Influence of groundwater composition on the reductive precipitation of U(VI) on corroding iron foil surfaces. <b>2023</b> , 577, 154324  | 0 |
|----|--|---|
| 51 | The highest oxidation state observed in graphene-supported sub-nanometer iron oxide clusters. <b>2023</b> , 6,   | Ο |
| 50 | Thermal atomic layer etching of cobalt using plasma chlorination and chelation with hexafluoroacetylacetone. <b>2023</b> , 619, 156751   | 0 |
| 49 | Preparation of superhydrophobic coating with anti-corrosion and anti-fouling properties on the surface of low manganese steel by electrodeposition. <b>2023</b> , 460, 129412                                  | Ο |
| 48 | Crystal face-dependent pyrite oxidation: An electrochemical study. <b>2023</b> , 619, 156687   | 0 |
| 47 | Improved chemical defects, domain structure and electrical properties of BiFeO3 <b>B</b> aTiO3 lead-free ceramics by simultaneous Na/Bi codoping and quenching process. <b>2023</b> , 49, 16191-16198          | O |
| 46 | Evolution of surface film in AA2024-T3 after a long-term immersion in NaCl solution. 2023, 215, 111056   | 0 |
| 45 | Pillared bentonite from Al-Fe-Cu polymeric precursor in solid state for the catalytic oxidation of amoxicillin. <b>2023</b> , 418, 114135  | Ο |
| 44 | Nanostructured nickel films by supersonic cluster beam deposition: Morphology, oxidation, and clues of hollow structures by Kirkendall effect at room temperature. <b>2023</b> , 211, 111930                   | Ο |
| 43 | Facile synthesis of NiSe2:Fe2O3 thin film: Physical, optical and photoelectronic properties. <b>2023</b> , 774, 139837   | Ο |
| 42 | Unraveling the Enteraction of NiFe-based metal®rganic frameworks with enhanced oxygen evolution: Optimizing electronic structure and facilitating electron transfer modulation. <b>2023</b> , 640, 1-14        | O |
| 41 | Microwave-assisted sequential Pt/Al attachment on FeOOH for fabrication of highly efficient hematite photoanodes: Synergistic effect of Pt/Al co-doping and Al2O3 passivation layer. <b>2023</b> , 623, 157035 | O |
| 40 | Insight into the oxidation mechanisms of vanadium slag and its application in the separation of V and Cr. $2023$ , $405$ , $136981$  | O |
| 39 | Highperformance water electrolyzer with minimum platinum group metal usage: Iron nitrideIridium oxide coreIhell nanostructures for stable and efficient oxygen evolution reaction. <b>2023</b> , 330, 122596   | O |
| 38 | Recent developments in heterogeneous electrocatalysts for ambient nitrogen reduction to ammonia: Activity, challenges, and future perspectives. <b>2023</b> , 176, 113197                                      | 1 |
| 37 | Improvement in core losses for FeSiAl soft magnetic composites induced by powder annealing treatment. <b>2023</b> , 24, 2500-2513  | O |
| 36 | In-situ growth of MOF-based composites on nylon membrane for effective phosphate removal. <b>2023</b> , 11, 109864   | 0 |
| 35 | Porous Fe/FeO/Fe2O3 nanorod/RGO composites with high-efficiency electromagnetic wave absorption property. <b>2023</b> , 626, 157223  | O |

| 34 | Energy-efficient ultrafast microwave crystalline phase evolution for designing highly efficient oxygen evolution catalysts. <b>2023</b> , 617, 156622  | 0 |
|----|--|---|
| 33 | Self-cleaning catalytic membrane with super-wetting interface for high-efficiency oil-in-water emulsion separation. <b>2023</b> , 312, 123381  | О |
| 32 | Highly Cross-Linked 3D Fe2O3 Networks Organized by Ultrathin Nanosheets as High-Performance Anode Materials for Lithium-Ion Storage. <b>2023</b> , 6, 2356-2365  | 0 |
| 31 | Straightforward Preparation of Fe-Based Electrocatalytic Films at Various Substrates for IrO2-like Water Oxidation Activity. <b>2023</b> , 37, 3934-3941   | O |
| 30 | A novel green corrosion inhibitor extracted from waste feverfew root for carbon steel in H2SO4 solution. <b>2023</b> , 17, 100971  | О |
| 29 | Study on why FeOCl has high Fenton activity in wide range of initial pH and its corresponding stability. <b>2023</b> , 172, 652-658  | O |
| 28 | Influence of sintering temperature on impedance and modulus spectroscopy of nickel-substituted cobalt ferrite. <b>2023</b> , 34,   | О |
| 27 | Electrosynthesis of Silica Reservoir Incorporated Dual Stimuli Responsive Conducting Polymer-Based Self-Healing Coatings. <b>2023</b> , 62, 3942-3951  | O |
| 26 | Redox phase transformations in magnetite nanoparticles: impact on their composition, structure and biomedical applications. <b>2023</b> , 34, 192001   | O |
| 25 | Investigation of corrosion mechanism of ribbed mild steel bars coated with magnesium potassium phosphate cement paste. <b>2023</b> , 371, 130639   | o |
| 24 | Superparamagnetic Multifunctionalized Chitosan Nanohybrids for Efficient Copper Adsorption: Comparative Performance, Stability, and Mechanism Insights. <b>2023</b> , 15, 1157   | O |
| 23 | Preparation and Electrochemical Characterisation of an Iron-Nickel-Doped Sucrose-Derived Carbon Material for the Oxygen Evolution Reaction. <b>2023</b> , 8,   | O |
| 22 | Sub PPM Detection of NO2 Using Strontium Doped Bismuth Ferrite Nanostructures. 2023, 14, 644   | О |
| 21 | Partially carbonized wastepaper with excellent mechanical strength for oil-water and emulsion separation. <b>2023</b> , 145, 104816  | 0 |
| 20 | 3D printed superparamagnetic stimuli-responsive starfish-shaped hydrogels. <b>2023</b> , 9, e14682   | О |
| 19 | Embedding isolated Fe species in titania increases olefins for oxidative propane dehydrogenation.  | 0 |
| 18 | Design and development of multi-functional graphitic carbon nitride heterostructures embedded with copper and iron oxide nanoparticles as versatile sensing platforms for environmental and agricultural applications. 2023, | 0 |
| 17 | Mechanochemical synthesis of Li-rich (Li2Fe)SO cathode for Li-ion batteries.   | О |

## CITATION REPORT

| 16 | Bimetallic CoHe sulfide and phosphide as efficient electrode materials for overall water splitting and supercapacitor. <b>2023</b> , 18,                         | 0 |
|----|--|---|
| 15 | Removal of copper and iron from ethanolic solutions by an anion exchange resin and its implication to rare-earth magnet recycling. <b>2023</b> , 330, 138603     | O |
| 14 | Effects of Chloride Ions on Passive Oxide Films Formed on Cr-Fe-Co-Ni(-Mo) Multi-Principal Element Alloy Surfaces. <b>2023</b> , 170, 041506                     | 0 |
| 13 | Interfacial interactions in rubber-based composites. 1-9   | O |
| 12 | Processing and Physicochemical Properties of Magnetite Nanoparticles Coated with Curcuma longa L. Extract. <b>2023</b> , 16, 3020                                | 0 |
| 11 | Porous, magnetic carbon derived from bamboo for microwave absorption. <b>2023</b> , 118005   | O |
| 10 | Secondary-Phase-Induced Charge <b>D</b> ischarge Performance Enhancement of Co-Free High Entropy Spinel Oxide Electrodes for Li-Ion Batteries.                   | 0 |
| 9  | One-Step High-Temperature Electrodeposition of Fe-Based Films as Efficient Water Oxidation Catalysts.  | O |
| 8  | Custom-Made Piezoelectric Solid Solution Material for Cancer Therapy.  | 0 |
| 7  | Plasma atomic layer etching of molybdenum with surface fluorination. <b>2023</b> , 627, 157309   | O |
| 6  | Microwave-Reactor-Based Preparation of Red Iron Oxide Pigment from Waste Iron Sulfate. <b>2023</b> , 16, 3242  | 0 |
| 5  | Electrochemical behavior of steel bars in magnesium phosphate cement. <b>2023</b> , 169, 107167  | O |
|    | - 1 · · · · · · · · · · · · · · · · · ·  |   |
| 4  | Fabrication of Ni/NiFe-LDH CoreBhell Schottky Heterojunction as Ultrastable Bifunctional Electrocatalyst for Ampere-Level Current Density Water Splitting.       | Ο |
| 3  |  | 0 |
|    | Electrocatalyst for Ampere-Level Current Density Water Splitting.  Facile synthesis of mixed nickel-cobalt oxalates with composition control as high-performance |   |