

Hongfang Liu

List of Publications by Year in Descending Order

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

132
papers

5,901
citations

43
h-index

74
g-index

139
ext. papers

7,890
ext. citations

8.5
avg, IF

6.37
L-index

#	Paper	IF	Citations
132	Unveiling microbiologically influenced corrosion engineering to transfigure damages into benefits: A textile sensor for H ₂ O ₂ detection in clinical cancer tissues. <i>Chemical Engineering Journal</i> , 2022 , 427, 131398	14.7	17
131	Corrosion Chemistry of Electrocatalysts.. <i>Advanced Materials</i> , 2022 , e2200840	24	5
130	Corrosion of aluminum alloy 7075 induced by marine <i>Aspergillus terreus</i> with continued organic carbon starvation. <i>Npj Materials Degradation</i> , 2022 , 6,	5.7	2
129	Showcasing advanced electrocatalytic behavior of layered double hydroxide wrapped on carbon nanotubes: Real-time monitoring of L-cysteine in biological matrices. <i>Chemical Engineering Journal</i> , 2022 , 440, 135985	14.7	1
128	Characterizations of the biomineralization film caused by marine <i>Pseudomonas stutzeri</i> and its mechanistic effects on X80 pipeline steel corrosion. <i>Journal of Materials Science and Technology</i> , 2022 , 125, 15-28	9.1	2
127	Constructing nickel-iron oxyhydroxides integrated with iron oxides by microorganism corrosion for oxygen evolution.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2202812119	11.5	0
126	Corrosion inhibition behavior of X80 pipeline steel by imidazoline derivative in the CO ₂ -saturated seawater containing sulfate-reducing bacteria with organic carbon starvation. <i>Corrosion Science</i> , 2022 , 203, 110345	6.8	1
125	In situ electrochemical reductive construction of metal oxide/metal-organic framework heterojunction nanoarrays for hydrogen peroxide sensing.. <i>Journal of Colloid and Interface Science</i> , 2022 , 622, 871-879	9.3	1
124	Effectively facilitating the proton conduction of proton exchange membrane by polydopamine modified hollow metal-organic framework. <i>Journal of Membrane Science</i> , 2021 , 120098	9.6	1
123	Mitigation of sulfate reducing <i>Desulfovibrio ferrophilus</i> microbiologically influenced corrosion of X80 using THPS biocide enhanced by Peptide A. <i>Journal of Materials Science and Technology</i> , 2021 , 107, 43-43	9.1	0
122	One-step preparation of inhibitor-loaded nanocontainers and their application in self-healing coatings. <i>Corrosion Communications</i> , 2021 , 2, 63-63		1
121	Corrosion formation and phase transformation of nickel-iron hydroxide nanosheets array for efficient water oxidation. <i>Nano Research</i> , 2021 , 14, 4528	10	11
120	Electrochemical Sweat Sensing: Engineering Materials for Electrochemical Sweat Sensing (Adv. Funct. Mater. 12/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170083	15.6	1
119	An Efficient Oxygen Reduction Catalyst for Zn-Air Battery: Cobalt Nanoparticles Encapsulated in 3D Nitrogen-Doped Porous Carbon Networks Derived from Fish Scales. <i>ChemCatChem</i> , 2021 , 13, 2474-2482	5.2	2
118	Comparison of 304 SS, 2205 SS, and 410 SS Corrosion by Sulfate-Reducing <i>Desulfovibrio ferrophilus</i> . <i>Journal of Chemistry</i> , 2021 , 2021, 1-10	2.3	1
117	Green synthesis of nitrogen and fluorine co-doped porous carbons from sustainable coconut shells as an advanced synergistic electrocatalyst for oxygen reduction. <i>Journal of Materials Research and Technology</i> , 2021 , 13, 962-970	5.5	2
116	Engineering Materials for Electrochemical Sweat Sensing. <i>Advanced Functional Materials</i> , 2021 , 31, 2008130	13.6	27

115	Tuning Electrocatalytic Aptitude by Incorporating β MnO Nanorods in Cu-MOF/rGO/CuO Hybrids: Electrochemical Sensing of Resorcinol for Practical Applications. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 31462-31473	9.5	22
114	Turning the Page: Advancing Detection Platforms for Sulfate Reducing Bacteria and their Perks. <i>Chemical Record</i> , 2021 ,	6.6	3
113	Hierarchical Oriented Metal-Organic Frameworks Assemblies for Water-Evaporation Induced Electricity Generation. <i>Advanced Functional Materials</i> , 2021 , 31, 2104732	15.6	3
112	Topical advances in nanomaterials based electrochemical sensors for resorcinol detection. <i>Trends in Environmental Analytical Chemistry</i> , 2021 , 31, e00138	12	11
111	Early corrosion behavior of X80 pipeline steel in a simulated soil solution containing <i>Desulfovibrio desulfuricans</i> . <i>Bioelectrochemistry</i> , 2021 , 141, 107880	5.6	5
110	Direct integration of ultralow-platinum alloy into nanocarbon architectures for efficient oxygen reduction in fuel cells. <i>Science Bulletin</i> , 2021 , 66, 2207-2216	10.6	7
109	Crevice corrosion of X80 carbon steel induced by sulfate reducing bacteria in simulated seawater. <i>Bioelectrochemistry</i> , 2021 , 142, 107933	5.6	4
108	Rice-Spikelet-like Copper Oxide Decorated with Platinum Stranded in the CNT Network for Electrochemical Detection of Serotonin. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 6023-6033	9.5	34
107	A Zeolitic-Imidazole Frameworks-Derived Interconnected Macroporous Carbon Matrix for Efficient Oxygen Electrocatalysis in Rechargeable Zinc-Air Batteries. <i>Advanced Materials</i> , 2020 , 32, e2002170	24	113
106	Integration of CoFe Alloys and Fe/Fe ₃ C Nanoparticles into N-Doped Carbon Nanosheets as Dual Catalytic Active Sites To Promote the Oxygen Electrocatalysis of Zn-Air Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 9009-9016	8.3	18
105	Metal-Organic framework-derived cupric oxide polycrystalline nanowires for selective carbon dioxide electroreduction to C ₂ valuables. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 12418-12423	13	16
104	Facet-energy inspired metal oxide extended hexapods decorated with graphene quantum dots: sensitive detection of bisphenol A in live cells. <i>Nanoscale</i> , 2020 , 12, 9014-9023	7.7	22
103	Sulfate-reducing bacteria respiration approach to fabricating flexible N,S-reduced graphene oxide thin film electrode for in situ cancer biomarker detection. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 859, 113867	4.1	4
102	Inhibition effects of benzalkonium chloride on <i>Chlorella vulgaris</i> induced corrosion of carbon steel. <i>Journal of Materials Science and Technology</i> , 2020 , 43, 14-20	9.1	8
101	2D Nitrogen-Doped Carbon Nanotubes/Graphene Hybrid as Bifunctional Oxygen Electrocatalyst for Long-Life Rechargeable Zn-Air Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 1906081	15.6	122
100	Integrated Conductive Hybrid Architecture of Metal-Organic Framework Nanowire Array on Polypyrrole Membrane for All-Solid-State Flexible Supercapacitors. <i>Advanced Energy Materials</i> , 2020 , 10, 1901892	21.8	97
99	Grain refinement of self-supported copper electrode by multiple-redox treatment for enhanced carbon dioxide electroreduction towards carbon monoxide generation. <i>Journal of Catalysis</i> , 2020 , 381, 608-614	7.3	8
98	Bismuth Oxides with Enhanced Bismuth-Oxygen Structure for Efficient Electrochemical Reduction of Carbon Dioxide to Formate. <i>ACS Catalysis</i> , 2020 , 10, 743-750	13.1	126

97	Cobalt-gluconate-derived high-density cobalt sulfides nanocrystals encapsulated within nitrogen and sulfur dual-doped micro/mesoporous carbon spheres for efficient electrocatalysis of oxygen reduction. <i>Journal of Colloid and Interface Science</i> , 2020 , 561, 829-837	9.3	14
96	The role of biosensors in coronavirus disease-2019 outbreak. <i>Current Opinion in Electrochemistry</i> , 2020 , 23, 174-184	7.2	61
95	The corrosion promoting mechanism of <i>Aspergillus niger</i> on 5083 aluminum alloy and inhibition performance of miconazole nitrate. <i>Corrosion Science</i> , 2020 , 176, 108930	6.8	10
94	Preparation of nickel-iron hydroxides by microorganism corrosion for efficient oxygen evolution. <i>Nature Communications</i> , 2020 , 11, 5075	17.4	94
93	Artificial photosynthetic assemblies constructed by the self-assembly of synthetic building blocks for enhanced photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 21690-21699 ¹³		3
92	A supported-catalyst of grafting [Co(TPA)Cl]Cl molecular catalyst onto SiO ₂ nanoparticles to achieve robust syngas production in a photochemical system. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 401, 112742	4.7	3
91	Synthesis, microstructure, anti-corrosion property and biological performances of Mn-incorporated Ca-P/TiO composite coating fabricated via micro-arc oxidation. <i>Materials Science and Engineering C</i> , 2020 , 117, 111321	8.3	22
90	Polypyrrole and polypyrrole@MnO ₂ nanowires grown on graphene foam for asymmetric supercapacitor. <i>Materials Express</i> , 2020 , 10, 1308-1316	1.3	2
89	Microstructure, formation mechanism and antifouling property of multi-layered Cu-incorporated Al ₂ O ₃ coating fabricated through plasma electrolytic oxidation. <i>Ceramics International</i> , 2020 , 46, 2901-2909	5.1	17
88	Cobalt sulfides nanoparticles encapsulated in N, S co-doped carbon substrate for highly efficient oxygen reduction. <i>Journal of Alloys and Compounds</i> , 2020 , 815, 152457	5.7	17
87	Highly Efficient Photocatalytic Conversion of CO to CO Catalyzed by Surface-Ligand-Removed and Cd-Rich CdSe Quantum Dots. <i>ChemSusChem</i> , 2019 , 12, 4617-4622	8.3	31
86	Synergistic Inhibition Effect of Magnetic Field and Inhibitors against Carbon Steel Corrosion in CO ₂ -Saturated Oilfield-Produced Water. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 17668-17674	3.9	14
85	Advancements in electrochemical sensing of hydrogen peroxide, glucose and dopamine by using 2D nanoarchitectures of layered double hydroxides or metal dichalcogenides. A review. <i>Mikrochimica Acta</i> , 2019 , 186, 671	5.8	55
84	The performance and mechanism of bifunctional biocide sodium pyrithione against sulfate reducing bacteria in X80 carbon steel corrosion. <i>Corrosion Science</i> , 2019 , 150, 296-308	6.8	35
83	Microbiologically Influenced Corrosion of Carbon Steel Beneath a Deposit in CO-Saturated Formation Water Containing. <i>Frontiers in Microbiology</i> , 2019 , 10, 1298	5.7	16
82	Polydopamine coated prussian blue analogue derived hollow carbon nanoboxes with FeP encapsulated for hydrogen evolution. <i>Carbon</i> , 2019 , 152, 16-23	10.4	27
81	Nanocomposites consisting of copper and copper oxide incorporated into MoS ₄ nanostructures for sensitive voltammetric determination of bisphenol A. <i>Mikrochimica Acta</i> , 2019 , 186, 337	5.8	34
80	Hierarchical and ultrathin copper nanosheets synthesized via galvanic replacement for selective electrocatalytic carbon dioxide conversion to carbon monoxide. <i>Applied Catalysis B: Environmental</i> , 2019 , 255, 117736	21.8	40

79	Corrosion Behavior of <i>Aspergillus niger</i> on 7075 Aluminum Alloy and the Inhibition Effect of Zinc Pyrithione Biocide. <i>Journal of the Electrochemical Society</i> , 2019 , 166, G39-G46	3.9	7
78	Engineering one-dimensional and hierarchical PtFe alloy assemblies towards durable methanol electrooxidation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 13090-13095	13	34
77	Study of the corrosion behavior of <i>Aspergillus niger</i> on 7075-T6 aluminum alloy in a high salinity environment. <i>Bioelectrochemistry</i> , 2019 , 129, 10-17	5.6	22
76	Advanced coal fly ash modification by using corrosive microorganisms as alternative filler-reinforcing fluororubbers. <i>Materials Letters</i> , 2019 , 246, 32-35	3.3	5
75	Energy-saving hydrogen production coupling urea oxidation over a bifunctional nickel-molybdenum nanotube array. <i>Nano Energy</i> , 2019 , 60, 894-902	17.1	125
74	Facile formation of CoN ₄ active sites onto a SiO ₂ support to achieve robust CO ₂ and proton reduction in a noble-metal-free photocatalytic system. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10475-10482	13	31
73	Assembling Metal-Organic Frameworks into the Fractal Scale for Sweat Sensing. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 32310-32319	9.5	20
72	Surface evolution and reconstruction of oxygen-abundant FePi/NiFeP synergy in NiFe phosphides for efficient water oxidation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18925-18931	13	26
71	Corrosion of Crude Oil Distillation Column: Kinetics and Mathematical Views. <i>Journal of Bio- and Tribo-Corrosion</i> , 2019 , 5, 1	2.9	4
70	Highly efficient electroconversion of carbon dioxide into hydrocarbons by cathodized copper-organic frameworks. <i>Chemical Science</i> , 2019 , 10, 7975-7981	9.4	43
69	Engineering bunched Pt-Ni alloy nanocages for efficient oxygen reduction in practical fuel cells. <i>Science</i> , 2019 , 366, 850-856	33.3	545
68	Redox Tuning in Crystalline and Electronic Structure of Bimetal-Organic Frameworks Derived Cobalt/Nickel Boride/Sulfide for Boosted Faradaic Capacitance. <i>Advanced Materials</i> , 2019 , 31, e1905744	24	93
67	Hierarchical CNTs@CuMn Layered Double Hydroxide Nanohybrid with Enhanced Electrochemical Performance in HS Detection from Live Cells. <i>Analytical Chemistry</i> , 2019 , 91, 3912-3920	7.8	78
66	Iron Sulfide Nanoparticles Embedded Into a Nitrogen and Sulfur Co-doped Carbon Sphere as a Highly Active Oxygen Reduction Electrocatalyst. <i>Frontiers in Chemistry</i> , 2019 , 7, 855	5	15
65	A biomimetic self-assembled cobaloxime@CdS/rGO hybrid for boosting photocatalytic H ₂ production. <i>Chemical Communications</i> , 2019 , 55, 14490-14493	5.8	13
64	Superlattice stacking by hybridizing layered double hydroxide nanosheets with layers of reduced graphene oxide for electrochemical simultaneous determination of dopamine, uric acid and ascorbic acid. <i>Mikrochimica Acta</i> , 2019 , 186, 61	5.8	88
63	Metal-organic frameworks derived bundled N-doped carbon nanowires confined cobalt phosphide nanocrystals as a robust electrocatalyst for hydrogen production. <i>Electrochimica Acta</i> , 2019 , 299, 423-429	6.7	24
62	Recent Progress on Transition Metal Oxides as Bifunctional Catalysts for Lithium-Air and Zinc-Air Batteries. <i>Batteries and Supercaps</i> , 2019 , 2, 336-347	5.6	108

61	Self-stacking of exfoliated charged nanosheets of LDHs and graphene as biosensor with real-time tracking of dopamine from live cells. <i>Analytica Chimica Acta</i> , 2019 , 1047, 197-207	6.6	67
60	Microbiologically-enhanced galvanic corrosion of the steel beneath a deposit in simulated oilfield-produced water containing <i>Desulfotomaculum nigrificans</i> . <i>Electrochemistry Communications</i> , 2018 , 90, 1-5	5.1	24
59	A facile modular approach to the 2D oriented assembly MOF electrode for non-enzymatic sweat biosensors. <i>Nanoscale</i> , 2018 , 10, 6629-6638	7.7	45
58	Corrosion of X80 pipeline steel under sulfate-reducing bacterium biofilms in simulated CO ₂ -saturated oilfield produced water with carbon source starvation. <i>Corrosion Science</i> , 2018 , 136, 47-59	6.8	61
57	Anodic Hydrazine Oxidation Assists Energy-Efficient Hydrogen Evolution over a Bifunctional Cobalt Perselenide Nanosheet Electrode. <i>Angewandte Chemie</i> , 2018 , 130, 7775-7779	3.6	35
56	Advanced Architectures and Relatives of Air Electrodes in Zn-Air Batteries. <i>Advanced Science</i> , 2018 , 5, 1700691	13.6	430
55	Corrosion of antibacterial Cu-bearing 316L stainless steels in the presence of sulfate reducing bacteria. <i>Corrosion Science</i> , 2018 , 132, 46-55	6.8	58
54	Anodic Hydrazine Oxidation Assists Energy-Efficient Hydrogen Evolution over a Bifunctional Cobalt Perselenide Nanosheet Electrode. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 7649-7653	16.4	241
53	Microbiologically influenced corrosion of 316L stainless steel in the presence of <i>Chlorella vulgaris</i> . <i>International Biodeterioration and Biodegradation</i> , 2018 , 129, 209-216	4.8	35
52	A Synergistic Acceleration of Corrosion of Q235 Carbon Steel Between Magnetization and Extracellular Polymeric Substances. <i>Acta Metallurgica Sinica (English Letters)</i> , 2018 , 31, 456-464	2.5	10
51	Rimelike Structure-Inspired Approach toward in Situ-Oriented Self-Assembly of Hierarchical Porous MOF Films as a Sweat Biosensor. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 27936-27946	9.5	25
50	Copper-Induced Formation of Structurally Ordered Pt ₃ FeCu Ternary Intermetallic Electrocatalysts with Tunable Phase Structure and Improved Stability. <i>Chemistry of Materials</i> , 2018 , 30, 5987-5995	9.6	68
49	Metal/covalent organic frameworks-based electrocatalysts for water splitting. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15905-15926	13	180
48	FeP Nanocrystals Embedded in N-Doped Carbon Nanosheets for Efficient Electrocatalytic Hydrogen Generation over a Broad pH Range. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 11587-11594	8.3	25
47	In situ formation of Ni ₃ Se ₄ nanorod arrays as versatile electrocatalysts for electrochemical oxidation reactions in hybrid water electrolysis. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15653-15658	13	64
46	Formation of a Tubular Assembly by Ultrathin Ti _{0.8} Co _{0.2} N Nanosheets as Efficient Oxygen Reduction Electrocatalysts for Hydrogen/Metal-Air Fuel Cells. <i>ACS Catalysis</i> , 2018 , 8, 8970-8975	13.1	115
45	Photocatalytic reduction of CO to CO and formate by a novel Co(ii) catalyst containing a cis-oxygen atom: photocatalysis and DFT calculations. <i>Dalton Transactions</i> , 2018 , 47, 13142-13150	4.3	24
44	Co/MnO/N-C hybrid derived from N-methyl-D-glucamine as efficient bifunctional oxygen electrocatalysts. <i>Electrochimica Acta</i> , 2018 , 281, 486-493	6.7	19

43	Graphene paper supported MoS nanocrystals monolayer with Cu submicron-buds: High-performance flexible platform for sensing in sweat. <i>Analytical Biochemistry</i> , 2018 , 543, 82-89	3.1	37
42	Metallic cobalt modified MnO ₂ nanocrystalline composites as an efficient bifunctional oxygen electrocatalyst. <i>Catalysis Science and Technology</i> , 2018 , 8, 480-485	5.5	14
41	Synthesis of amorphous boride nanosheets by the chemical reduction of Prussian blue analogs for efficient water electrolysis. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23289-23294	13	45
40	Chainmail catalyst of ultrathin P-doped carbon shell-encapsulated nickel phosphides on graphene towards robust and efficient hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24107-24113	13	31
39	Facet-Inspired Core-Shell Gold Nanoislands on Metal Oxide Octadecahedral Heterostructures: High Sensing Performance toward Sulfide in Biotic Fluids. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 36675-36685	9.5	55
38	A review on electrochemical biosensing platform based on layered double hydroxides for small molecule biomarkers determination. <i>Advances in Colloid and Interface Science</i> , 2018 , 262, 21-38	14.3	75
37	Coffee Ring-Inspired Approach toward Oriented Self-Assembly of Biomimetic Murray MOFs as Sweat Biosensor. <i>Small</i> , 2018 , 14, e1802670	11	23
36	Effect of Iron Oxidizing Bacteria Biofilm on Corrosion Inhibition of Imidazoline Derivative in CO ₂ -Containing Oilfield Produced Water with Organic Carbon Source Starvation. <i>Journal of the Electrochemical Society</i> , 2018 , 165, C354-C361	3.9	10
35	Dicyandiamide and iron-tannin framework derived nitrogen-doped carbon nanosheets with encapsulated iron carbide nanoparticles as advanced pH-universal oxygen reduction catalysts. <i>Journal of Colloid and Interface Science</i> , 2018 , 530, 196-201	9.3	18
34	Inkjet Printing Synthesis of Sandwiched Structured Ionic Liquid-Carbon Nanotube-Graphene Film: Toward Disposable Electrode for Sensitive Heavy Metal Detection in Environmental Water Samples. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 1696-1703	3.9	16
33	Corrosion inhibition and anti-bacterial efficacy of benzalkonium chloride in artificial CO ₂ -saturated oilfield produced water. <i>Corrosion Science</i> , 2017 , 117, 24-34	6.8	68
32	Hollow Nitrogen-Doped Carbon Spheres with FeO Nanoparticles Encapsulated as a Highly Active Oxygen-Reduction Catalyst. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 10610-10617	9.5	102
31	Core-shell iron oxide-layered double hydroxide: High electrochemical sensing performance of HO biomarker in live cancer cells with plasma therapeutics. <i>Biosensors and Bioelectronics</i> , 2017 , 97, 352-359	11.8	89
30	Uniform FeO/Nitrogen-Doped Mesoporous Carbon Spheres Derived from Ferric Citrate-Bonded Melamine Resin as an Efficient Synergistic Catalyst for Oxygen Reduction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 335-344	9.5	63
29	Cobalt ion-coordinated self-assembly synthesis of nitrogen-doped ordered mesoporous carbon nanosheets for efficiently catalyzing oxygen reduction. <i>Nanoscale</i> , 2017 , 9, 15534-15541	7.7	38
28	Ball-milling synthesis of Co ₂ P nanoparticles encapsulated in nitrogen doped hollow carbon rods as efficient electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17563-17569	13	43
27	The corrosion behavior and mechanism of carbon steel induced by extracellular polymeric substances of iron-oxidizing bacteria. <i>Corrosion Science</i> , 2017 , 114, 102-111	6.8	107
26	Metal oxide intercalated layered double hydroxide nanosphere: With enhanced electrocatalytic activity towards H ₂ O ₂ for biological applications. <i>Sensors and Actuators B: Chemical</i> , 2017 , 239, 243-252	8.5	92

25	Retardation of High-Temperature Fuel Ash Corrosion of Fireside Boiler Tubes via Nanoparticles. <i>Oxidation of Metals</i> , 2016 , 86, 553-565	1.6	3
24	Spontaneous incorporation of gold in palladium-based ternary nanoparticles makes durable electrocatalysts for oxygen reduction reaction. <i>Nature Communications</i> , 2016 , 7, 11941	17.4	58
23	Influence of Pt and Pd Modification on the Visible Light Photocatalytic Activity of N-Doped Titania Photocatalysts. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 3570-6	1.3	2
22	Antifouling polyimide membrane with surface-bound silver particles. <i>Journal of Membrane Science</i> , 2016 , 516, 83-93	9.6	53
21	Corrosion inhibition of carbon steel in CO ₂ -containing oilfield produced water in the presence of iron-oxidizing bacteria and inhibitors. <i>Corrosion Science</i> , 2016 , 105, 149-160	6.8	89
20	Supramolecular gel-assisted synthesis of double shelled Co@CoO@N-C/C nanoparticles with synergistic electrocatalytic activity for the oxygen reduction reaction. <i>Nanoscale</i> , 2016 , 8, 4681-7	7.7	67
19	The effect of magnetic field on biomineralization and corrosion behavior of carbon steel induced by iron-oxidizing bacteria. <i>Corrosion Science</i> , 2016 , 102, 93-102	6.8	80
18	The exploration of the effective methods to evaluate the stripping ability of bactericide to SRB biofilm. <i>Anti-Corrosion Methods and Materials</i> , 2016 , 63, 445-451	0.8	
17	Facile Synthesis of r-GO@Pd/TiO ₂ Nanocomposites and Its Photocatalytic Activity Under Visible Light. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 3557-63	1.3	3
16	Activities of Combined TiO ₂ Semiconductor Nanocatalysts Under Solar Light on the Reduction of CO ₂ . <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 3437-46	1.3	11
15	One-step preparation of CdS-modified mesoporous titanate nanobelts and their application as high-performance cationic dye adsorbents. <i>RSC Advances</i> , 2016 , 6, 49625-49632	3.7	4
14	Study of corrosion behavior and mechanism of carbon steel in the presence of <i>Chlorella vulgaris</i> . <i>Corrosion Science</i> , 2015 , 101, 84-93	6.8	66
13	Real-time tracking of hydrogen peroxide secreted by live cells using MnO ₂ nanoparticles intercalated layered double hydroxide nanohybrids. <i>Analytica Chimica Acta</i> , 2015 , 898, 34-41	6.6	38
12	Enhanced electrocatalytic activity and stability of Pd ₃ V/C nanoparticles with a trace amount of Pt decoration for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 20966-20972	13	10
11	High loading MnO ₂ nanowires on graphene paper: facile electrochemical synthesis and use as flexible electrode for tracking hydrogen peroxide secretion in live cells. <i>Analytica Chimica Acta</i> , 2015 , 853, 200-206	6.6	123
10	One-step electrochemical synthesis of three-dimensional graphene foam loaded nickel-cobalt hydroxides nanoflakes and its electrochemical properties. <i>Electrochimica Acta</i> , 2015 , 152, 195-201	6.7	52
9	Facile preparation of EDTA-functionalized chitosan magnetic adsorbent for removal of Pb(II). <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	15
8	Corrosion behavior of carbon steel in the presence of sulfate reducing bacteria and iron oxidizing bacteria cultured in oilfield produced water. <i>Corrosion Science</i> , 2015 , 100, 484-495	6.8	140

7	Effect of Sulfate-Reducing Bacteria and Iron-Oxidizing Bacteria on the Rate of Corrosion of an Aluminum Alloy in a Central Air-Conditioning Cooling Water System. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 7840-7846	3.9	20
6	Palladium Nanoparticles Embedded into Graphene Nanosheets: Preparation, Characterization, and Nonenzymatic Electrochemical Detection of H ₂ O ₂ . <i>Electroanalysis</i> , 2014 , 26, 556-564	3	25
5	Effects of Magnetic Fields on Microbiologically Influenced Corrosion of 304 Stainless Steel. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 48-54	3.9	29
4	Microbial influenced corrosion behavior of micro-arc oxidation coating on AA2024. <i>Surface and Coatings Technology</i> , 2013 , 216, 100-105	4.4	25
3	One-pot microbial method to synthesize dual-doped graphene and its use as high-performance electrocatalyst. <i>Scientific Reports</i> , 2013 , 3, 3499	4.9	48
2	Preparation of conducting poly N-methylaniline microsphere and its antibacterial performance to sulfate reducing bacteria. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2008 , 23, 536-540	1	8
1	Characteristics and photocatalytic effects of Zn/ZnO nanowhiskers compared with ZnO nanoparticles. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2007 , 22, 643-648	1	3