

Enrique Rodríguez Castellán

List of Publications by Year in descending order

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409
papers

14,087
citations

28736

57
h-index

53065

89
g-index

415
all docs

415
docs citations

415
times ranked

17116
citing authors

#	ARTICLE	IF	CITATIONS
1	Glyphosate adsorption onto porous clay heterostructure (PCH): kinetic and thermodynamic studies. Brazilian Journal of Chemical Engineering, 2022, 39, 903-917.	0.7	5
2	Insights into optimized synthesis conditions of hollow microspheres of silica for water vapor adsorption. Chemical Engineering Research and Design, 2022, 177, 583-593.	2.7	2
3	Influence of MnO ₂ -Birnessite Microstructure on the Electrochemical Performance of Aqueous Zinc Ion Batteries. Applied Sciences (Switzerland), 2022, 12, 1176.	1.3	4
4	Nitrene formation is the first step of the thermal and photochemical decomposition reactions of organic azides. Physical Chemistry Chemical Physics, 2022, 24, 5109-5115.	1.3	17
5	Enhancement of the catalytic activity of Mg/Al layered double hydroxide for glycerol oligomers production. Dalton Transactions, 2022, 51, 3213-3224.	1.6	2
6	New Insights on the Effects of Water on Polymer Inclusion Membranes Containing Aliquat 336 Derivatives as Carriers. Membranes, 2022, 12, 192.	1.4	7
7	Synthesis and Characterization of an Fe/Co Ferrite Spinel Oxide Film Produced by Using N ₂ /Steam Heat Treatment on Two Maraging Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2022, 53, 1276-1293.	1.1	3
8	Phenylamine/Amide Grafted in Silica as Sensing Nanocomposites for the Removal of Carbamazepine: A DFT Approach. Chemosensors, 2022, 10, 76.	1.8	3
9	Esterification of Levulinic Acid to Methyl Levulinate over Zr-MOFs Catalysts. ChemEngineering, 2022, 6, 26.	1.0	4
10	Influence of the Metal Incorporation into Hydroxyapatites on the Deactivation Behavior of the Solids in the Esterification of Glycerol. Catalysts, 2022, 12, 10.	1.6	7
11	Biochemical changes in cancer cells induced by photoactive nanosystem based on carbon dots loaded with Ru-complex. Chemico-Biological Interactions, 2022, 360, 109950.	1.7	4
12	Ni-Doped Ordered Nanoporous Carbon Prepared from Chestnut Wood Tannins for the Removal and Photocatalytic Degradation of Methylene Blue. Nanomaterials, 2022, 12, 1625.	1.9	2
13	S, N-doped carbon dots-based cisplatin delivery system in adenocarcinoma cells: Spectroscopical and computational approach. Journal of Colloid and Interface Science, 2022, 623, 226-237.	5.0	6
14	Solid-State Characterization of Acetylpyridine Copper Complexes for the Activation of H ₂ O ₂ in Advanced Oxidation Processes. ChemPlusChem, 2022, 87, .	1.3	7
15	Empowering carbon materials robust gas desulfurization capability through an inclusion of active inorganic phases: A review of recent approaches. Journal of Hazardous Materials, 2022, 437, 129414.	6.5	11
16	Promoting effect of rhodium on Co/ZnAl ₂ O ₄ catalysts for the catalytic combustion of hydrocarbons. Catalysis Today, 2021, 372, 2-10.	2.2	3
17	Boosting the Photoactivity of Grafted Titania: Ultrasound-Driven Synthesis of a Multi-Phase Heterogeneous Nano-Architected Photocatalyst. Advanced Functional Materials, 2021, 31, .	7.8	23
18	Glycerol etherification towards selective diglycerol over mixed oxides derived from hydrotalcites: effect of Ni loading. Journal of Sol-Gel Science and Technology, 2021, 97, 351-364.	1.1	14

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19	Preparation, characterization and in vitro anticancer performance of nanoconjugate based on carbon quantum dots and 5-Fluorouracil. <i>Materials Science and Engineering C</i> , 2021, 120, 111781.	3.8	40
20	Detection of Ru potential metallodrug in human urine by MALDI-TOF mass spectrometry: Validation and options to enhance the sensitivity. <i>Talanta</i> , 2021, 222, 121551.	2.9	9
21	Thiol-functionalized PCN-222 MOF for fast and selective extraction of gold ions from aqueous media. <i>Separation and Purification Technology</i> , 2021, 259, 118197.	3.9	38
22	Improving the electrocatalytic performance of sustainable Co/carbon materials for the oxygen evolution reaction by ultrasound and microwave assisted synthesis. <i>Sustainable Energy and Fuels</i> , 2021, 5, 720-731.	2.5	21
23	Adding value to aluminosilicate solid wastes to produce adsorbents, catalysts and filtration membranes for water and wastewater treatment. <i>Journal of Materials Science</i> , 2021, 56, 1039-1063.	1.7	20
24	M/TiO ₂ (M = Fe, Co, Ni, Cu, Zn) catalysts for photocatalytic hydrogen production under UV and visible light irradiation. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 3491-3500.	3.0	22
25	Continuous-Flow Methyl Methacrylate Synthesis over Gallium-Based Bifunctional Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 1790-1803.	3.2	16
26	Comparative Electrochemical Study of Pure Magnesium Behavior in Ringer's and Hank's Solutions. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2021, 57, 168-180.	0.3	8
27	Ceria doping boosts methylene blue photodegradation in titania nanostructures. <i>Materials Chemistry Frontiers</i> , 2021, 5, 4138-4152.	3.2	23
28	Paramagnetic solid-state NMR assignment and novel chemical conversion of the aldehyde group to dihydrogen <i>ortho</i> ester and hemiacetal moieties in copper(II)- and cobalt(II)-pyridinecarboxaldehyde complexes. <i>RSC Advances</i> , 2021, 11, 20216-20231.	1.7	9
29	Effect of secondary heteroatom (S, P) in N-doped reduced graphene oxide catalysts to oxygen reduction reaction. <i>Molecular Catalysis</i> , 2021, 502, 111372.	1.0	11
30	Ru/CeO ₂ and Ni/CeO ₂ Coated on Open-Cell Metallic Foams by Electrodeposition for the CO ₂ Methanation. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 6730-6741.	1.8	10
31	Effects of the Incorporation of Distinct Cations in Titanate Nanotubes on the Catalytic Activity in NO _x Conversion. <i>Materials</i> , 2021, 14, 2181.	1.3	6
32	Characterization Study of an Oxide Film Layer Produced under CO ₂ /Steam Atmospheres on Two Different Maraging Steel Grades. <i>Metals</i> , 2021, 11, 746.	1.0	5
33	Synthesis of a New Phosphonate-Based Sorbent and Characterization of Its Interactions with Lanthanum (III) and Terbium (III). <i>Polymers</i> , 2021, 13, 1513.	2.0	18
34	Catalytic conversion of glucose into sorbitol over niobium oxide supported Ru catalysts. <i>Molecular Catalysis</i> , 2021, 507, 111567.	1.0	4
35	Chemically heterogeneous carbon dots enhanced cholesterol detection by MALDI TOF mass spectrometry. <i>Journal of Colloid and Interface Science</i> , 2021, 591, 373-383.	5.0	18
36	H ₂ S and H ₂ O Combined Effect on CO ₂ Capture by Amino Functionalized Hollow Microsphere Silicas. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 10139-10154.	1.8	6

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37	Biomimetic Strontium Substituted Calcium Phosphate Coating for Bone Regeneration. <i>Coatings</i> , 2021, 11, 908.	1.2	3
38	Protein Adsorption onto Modified Porous Silica by Single and Binary Human Serum Protein Solutions. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9164.	1.8	4
39	Advantages of the Incorporation of Luffa-Based Activated Carbon to Titania for Improving the Removal of Methylene Blue from Aqueous Solution. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7607.	1.3	4
40	Pt/B-g-C ₃ N ₄ catalysts for hydrogen photo-production: Activity interpretation through a spectroscopic and intrinsic kinetic analysis. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106073.	3.3	8
41	Contribution to the understanding of the performance differences between commercial current collectors in Li-ion batteries. <i>Journal of Energy Chemistry</i> , 2021, 62, 295-306.	7.1	16
42	Exploring multiferroicity in BiFeO ₃ - NaNbO ₃ thermistor electroceramics. <i>Journal of the European Ceramic Society</i> , 2021, 41, 7069-7076.	2.8	7
43	Novel phosphonate-functionalized composite sorbent for the recovery of lanthanum(III) and terbium(III) from synthetic solutions and ore leachate. <i>Chemical Engineering Journal</i> , 2021, 424, 130500.	6.6	13
44	Detection of Cadmium-related ions by MALDI TOF mass spectrometry correlates with physicochemical properties of Cadmium/matrix adducts. <i>Polyhedron</i> , 2021, 209, 115463.	1.0	0
45	A SA-CASSCF and MS-CASPT2 study on the electronic structure of nitrosobenzene and its relation to its dissociation dynamics. <i>Journal of Chemical Physics</i> , 2021, 154, 044307.	1.2	9
46	Mixed Ionic-Electronic Conductivity, Redox Behavior and Thermochemical Expansion of Mn-Substituted 5YSZ as an Interlayer Material for Reversible Solid Oxide Cells. <i>Materials</i> , 2021, 14, 641.	1.3	7
47	Electronic Structure of Nitrobenzene: A Benchmark Example of the Accuracy of the Multi-State CASPT2 Theory. <i>Journal of Physical Chemistry A</i> , 2021, 125, 9431-9437.	1.1	12
48	Development of Membranes Based on Alkali-Activated Phosphate Mine Tailings for Humic Acid and Copper Removal from Water. <i>Water, Air, and Soil Pollution</i> , 2021, 232, 1.	1.1	4
49	Aminopropyltriethoxysilane functionalized MCM-41 and SBA-15 nanostructured materials for carbon dioxide adsorption. <i>Revista Materia</i> , 2021, 26, .	0.1	2
50	Bimetallic Niobium-Based Catalysts Supported on SBA-15 for Hydrodeoxygenation of Anisole. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 18831-18840.	1.8	7
51	Synthesis, Characterization and Catalytic Activity of UiO-66-NH ₂ in the Esterification of Levulinic Acid. <i>Applied Nano</i> , 2021, 2, 344-358.	0.9	4
52	Insights into CO ₂ adsorption in amino-functionalized SBA-15 synthesized at different aging temperature. <i>Adsorption</i> , 2020, 26, 225-240.	1.4	36
53	Experimental and theoretical study of adsorptive interactions in diesel fuel desulfurization over Ag/MCM-41 adsorbent. <i>Adsorption</i> , 2020, 26, 189-201.	1.4	10
54	Adsorption microcalorimetry as a tool in the characterization of amine-grafted mesoporous silicas for CO ₂ capture. <i>Adsorption</i> , 2020, 26, 165-175.	1.4	23

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55	A comparative study on porous solid acid oxides as catalysts in the esterification of glycerol with acetic acid. <i>Catalysis Today</i> , 2020, 349, 57-67.	2.2	21
56	Iron phosphides presenting different stoichiometry as nanocatalysts in the HDO of phenol. <i>Catalysis Today</i> , 2020, 349, 117-127.	2.2	2
57	Structural transformation of vanadate nanotubes into vanadate oxides nanostructures during the dry reforming of methane. <i>Molecular Catalysis</i> , 2020, 480, 110641.	1.0	6
58	Recent advances in photo-assisted preferential CO oxidation in H ₂ -rich stream. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2020, 21, 9-15.	3.2	8
59	Aluminium introduction on the STF zeolite synthesized with the organic structure-directing agent 123TE4MI. <i>Catalysis Today</i> , 2020, 356, 359-365.	2.2	4
60	Palladium nanoparticles supported on amine-functionalized alginate foams for hydrogenation of 3-nitrophenol. <i>Journal of Materials Science</i> , 2020, 55, 2032-2051.	1.7	8
61	Novel application for palygorskite clay mineral: a kinetic and thermodynamic assessment of diesel fuel desulfurization. <i>Adsorption</i> , 2020, 26, 267-282.	1.4	24
62	N ₂ O catalytic decomposition on electrodeposited Rh-based open-cell metallic foams. <i>Chemical Engineering Journal</i> , 2020, 379, 122259.	6.6	24
63	Fe ₂ O ₃ supported on hollow micro/mesospheres silica for the catalytic partial oxidation of H ₂ S to sulfur. <i>Microporous and Mesoporous Materials</i> , 2020, 294, 109875.	2.2	17
64	Insights into the formation of N doped 3D-graphene quantum dots. Spectroscopic and computational approach. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 678-686.	5.0	35
65	Silica-Related Catalysts for CO ₂ Transformation into Methanol and Dimethyl Ether. <i>Catalysts</i> , 2020, 10, 1282.	1.6	5
66	Temperature Effect on Pretreatment of the Activated Carbon Support (Pt/AC and Pd/AC) for Glycerin into Lactic Acid. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 14643-14657.	1.8	13
67	Support features govern the properties of the active phase and the performance of bifunctional ZnFe ₂ O ₄ -based H ₂ S adsorbents. <i>Carbon</i> , 2020, 169, 327-337.	5.4	21
68	Tuning of Trifunctional NiCu Bimetallic Nanoparticles Confined in a Porous Carbon Network with Surface Composition and Local Structural Distortions for the Electrocatalytic Oxygen Reduction, Oxygen and Hydrogen Evolution Reactions. <i>Journal of the American Chemical Society</i> , 2020, 142, 14688-14701.	6.6	231
69	Detection of Dopamine in Human Fluids Using N-Doped Carbon Dots. <i>ACS Applied Nano Materials</i> , 2020, 3, 8004-8011.	2.4	39
70	Selective aqueous-phase hydrogenation of glucose and xylose over ruthenium-based catalysts: influence of the support. <i>Molecular Catalysis</i> , 2020, 495, 111150.	1.0	12
71	Photocatalytic degradation of ibuprofen using modified titanium oxide supported on CMK-3: effect of Ti content on the TiO ₂ and carbon interaction. <i>Catalysis Science and Technology</i> , 2020, 10, 7681-7696.	2.1	7
72	Assessing CO ₂ Adsorption on Amino-Functionalized Mesocellular Foams Synthesized at Different Aging Temperatures. <i>Frontiers in Chemistry</i> , 2020, 8, 591766.	1.8	15

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73	Selective Catalytic Reduction of NO _x by CO over Doubly Promoted MeMo/Nb ₂ O ₅ Catalysts (Me = Pt, Ni). <i>Journal of Environmental Chemical Engineering</i> , 2020, 10, 117872.	1.6	14
74	Combined promoting effect of molybdenum on the bimetallic Al ₂ O ₃ -La ₂ O ₃ catalysts for NO _x reduction by CO. <i>Fuel</i> , 2020, 275, 117872.	3.4	18
75	Propane and Naphthalene Oxidation over Gold-Promoted Cobalt Catalysts Supported on Zirconia. <i>Catalysts</i> , 2020, 10, 387.	1.6	4
76	Direct conversion of ethylene to propylene over Ni- and W-based catalysts: An unprecedented behaviour. <i>Catalysis Communications</i> , 2020, 144, 106091.	1.6	4
77	Reusable CuFe ₂ O ₄ @Fe ₂ O ₃ catalyst synthesis and application for the heterogeneous photo-Fenton degradation of methylene blue in visible light. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104132.	3.3	30
78	Understanding structure-activity relationships in highly active La promoted Ni catalysts for CO ₂ methanation. <i>Applied Catalysis B: Environmental</i> , 2020, 278, 119256.	10.8	46
79	Effective Interactions of Ag Nanoparticles on the Surface of SBA-15 in Performing Deep Desulfurization of Real Diesel Fuel. <i>Catalysts</i> , 2020, 10, 593.	1.6	7
80	Sustainable Organic Dyes from Winemaking Lees for Photoelectrochemical Dye-Sensitized Solar Cells. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2149.	1.3	4
81	Acid Red 66 Dye Removal from Aqueous Solution by Fe/C-based Composites: Adsorption, Kinetics and Thermodynamic Studies. <i>Materials</i> , 2020, 13, 1107.	1.3	13
82	An Overview of the Biolubricant Production Process: Challenges and Future Perspectives. <i>Processes</i> , 2020, 8, 257.	1.3	116
83	Insights into the Photodecomposition of Azidomethyl Methyl Sulfide: A S ₂ /S ₁ Conical Intersection on Nitrene Potential Energy Surfaces Leading to the Formation of S-Methyl-N-sulfenylmethanimine. <i>Journal of Physical Chemistry A</i> , 2020, 124, 1911-1921.	1.1	10
84	Heterogeneous acid catalysts prepared by immobilization of H ₃ PW ₁₂ O ₄₀ on silica through impregnation and inclusion, applied to the synthesis of 3H-1,5-benzodiazepines. <i>Molecular Catalysis</i> , 2020, 485, 110842.	1.0	17
85	Design of Multifunctional Titania-Based Photocatalysts by Controlled Redox Reactions. <i>Materials</i> , 2020, 13, 758.	1.3	4
86	Photocatalyzed preferential oxidation of CO under simulated sunlight using Au-transition metal oxide-sepiolite catalysts. <i>Dalton Transactions</i> , 2020, 49, 3946-3955.	1.6	4
87	Tuning Ca-Al-based catalysts composition to isomerize or epimerize glucose and other sugars. <i>Green Chemistry</i> , 2020, 22, 1393-1405.	4.6	17
88	In vitro degradability and bioactivity of oxidized bacterial cellulose-hydroxyapatite composites. <i>Carbohydrate Polymers</i> , 2020, 237, 116174.	5.1	39
89	New dielectric anomalies in the A-site highly deficient Na _x NbO ₃ electroceramics. <i>Ceramics International</i> , 2020, 46, 16770-16780.	2.3	12
90	Direct Transformation of Ethylene to Propylene by Cascade Catalytic Reactions under Very Mild Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 7438-7446.	1.8	6

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91	Enhanced NiO Dispersion on a High Surface Area Pillared Heterostructure Covered by Niobium Leads to Optimal Behaviour in the Oxidative Dehydrogenation of Ethane. <i>Chemistry - A European Journal</i> , 2020, 26, 9371-9381.	1.7	7
92	Insights into the Thermal and Photochemical Reaction Mechanisms of Azidoacetonitrile. Spectroscopic and MS-CASPT2 Calculations. <i>ChemPhysChem</i> , 2020, 21, 1126-1133.	1.0	12
93	Partial oxidation of H ₂ S to sulfur on V-Cu-O mixed oxides bronzes. <i>Catalysis Today</i> , 2019, 333, 237-244.	2.2	12
94	Support effects on NiO-based catalysts for the oxidative dehydrogenation (ODH) of ethane. <i>Catalysis Today</i> , 2019, 333, 10-16.	2.2	35
95	Hybrid materials based on a layered zinc hydroxide solid and gallic acid: Structural characterization and evaluation of the controlled release behavior as a function of the gallic acid content. <i>Applied Clay Science</i> , 2019, 181, 105228.	2.6	6
96	Tailoring the ORR and HER electrocatalytic performances of gold nanoparticles through metal-ligand interfaces. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20425-20434.	5.2	45
97	Hydrogen generation by irradiation of commercial CuO + TiO ₂ mixtures at solar pilot plant scale and in presence of organic electron donors. <i>Applied Catalysis B: Environmental</i> , 2019, 257, 117890.	10.8	27
98	Interaction of Carbohydrate Coated Cerium-Oxide Nanoparticles with Wheat and Pea: Stress Induction Potential and Effect on Development. <i>Plants</i> , 2019, 8, 478.	1.6	18
99	LIGHT N-PARAFFINS SEPARATION BY INVERSE GAS CHROMATOGRAPHY WITH CUBAN VOLCANIC GLASS. <i>Brazilian Journal of Chemical Engineering</i> , 2019, 36, 531-539.	0.7	3
100	Assessment of Ag Nanoparticles Interaction over Low-Cost Mesoporous Silica in Deep Desulfurization of Diesel. <i>Catalysts</i> , 2019, 9, 651.	1.6	15
101	CO ₂ Adsorption of Materials Synthesized from Clay Minerals: A Review. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 514.	0.8	51
102	Conservation of El-Sayed's Rules in the Photolysis of Phenyl Azide: Two Independent Decomposition Doorways for Alternate Direct Formation of Triplet and Singlet Phenylnitrene. <i>Journal of Physical Chemistry A</i> , 2019, 123, 9053-9060.	1.1	18
103	A DFT Approach to the Surface-Enhanced Raman Scattering of 4-Cyanopyridine Adsorbed on Silver Nanoparticles. <i>Nanomaterials</i> , 2019, 9, 1211.	1.9	33
104	Effect of 1-(3-phenoxypropyl) pyridazin-1-ium bromide on steel corrosion inhibition in acidic medium. <i>Journal of Colloid and Interface Science</i> , 2019, 541, 418-424.	5.0	97
105	Conical intersections and intersystem crossings explain product formation in photochemical reactions of aryl azides. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2389-2396.	1.3	23
106	Application of surface-enhanced resonance Raman scattering (SERS) to the study of organic functional materials: electronic structure and charge transfer properties of 9,10-bis((E)-2-(pyridin-4-yl)vinyl)anthracene. <i>RSC Advances</i> , 2019, 9, 14511-14519.	1.7	19
107	Mechanistic insights into the microwave-assisted cinnamyl alcohol oxidation using supported iron and palladium catalysts. <i>Molecular Catalysis</i> , 2019, 474, 110409.	1.0	12
108	Nanoporous Materials and Their Applications. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1314.	1.3	3

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109	Study of bifunctionality of Pt/SBA-15 catalysts for HDO of Dibenzofuran reaction: Addition of Mo or use of an acidic support. <i>Applied Catalysis A: General</i> , 2019, 580, 93-101.	2.2	23
110	Separation of C_5H_{12} Paraffins Using Boehmite by Inverse Gas Chromatography. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1810.	1.3	4
111	Boosting the electrochemical oxygen reduction activity of hemoglobin on fructose@graphene-oxide nanoplateforms. <i>Chemical Communications</i> , 2019, 55, 4671-4674.	2.2	15
112	Sewage Sludge-Derived Materials as Efficient Catalysts for the Selective Production of Vanillin from Isoeugenol. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7519-7526.	3.2	19
113	Sustainable Production of Carbon Nanoparticles from Olive Pit Biomass: Understanding Proton Transfer in the Excited State on Carbon Dots. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10493-10500.	3.2	26
114	Zirconia-Supported Silver Nanoparticles for the Catalytic Combustion of Pollutants Originating from Mobile Sources. <i>Catalysts</i> , 2019, 9, 297.	1.6	18
115	Physical activation of graphene: An effective, simple and clean procedure for obtaining microporous graphene for high-performance Li/S batteries. <i>Nano Research</i> , 2019, 12, 759-766.	5.8	38
116	Synthesis of isopropyl levulinate from furfural: Insights on a cascade production perspective. <i>Applied Catalysis A: General</i> , 2019, 575, 111-119.	2.2	29
117	A new method for incorporating polyethyleneimine (PEI) in algal beads: High stability as sorbent for palladium recovery and supported catalyst for nitrophenol hydrogenation. <i>Materials Chemistry and Physics</i> , 2019, 221, 144-155.	2.0	21
118	Sunlight photoactivity of rice husks-derived biogenic silica. <i>Catalysis Today</i> , 2019, 328, 125-135.	2.2	21
119	Fingerprint imaging using N-doped carbon dots. <i>Carbon</i> , 2019, 144, 791-797.	5.4	64
120	Au nanoparticles supported on nanorod-like TiO ₂ as catalysts in the CO-PROX reaction under dark and light irradiation: Effect of acidic and alkaline synthesis conditions. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 923-936.	3.8	17
121	Nitrogen-containing activated carbon of improved electrochemical performance derived from cotton stalks using indirect chemical activation. <i>Journal of Colloid and Interface Science</i> , 2019, 540, 285-294.	5.0	24
122	High capacity semi-liquid lithium sulfur cells with enhanced reversibility for application in new-generation energy storage systems. <i>Journal of Power Sources</i> , 2019, 412, 575-585.	4.0	23
123	Compromising Between Phase Stability and Electrical Performance: SrVO ₃ /SrTiO ₃ Solid Solutions as Solid Oxide Fuel Cell Anode Components. <i>ChemSusChem</i> , 2019, 12, 240-251.	3.6	13
124	XPS characterization and E. Coli DNA degradation using functionalized Cu/TiO ₂ nanobiocatalysts. <i>Molecular Catalysis</i> , 2018, 449, 62-71.	1.0	32
125	An MS-CASPT2 study of the photodecomposition of 4-methoxyphenyl azide: role of internal conversion and intersystem crossing. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 7764-7771.	1.3	26
126	Synthesis, Characterization, Uses and Applications of Porous Clays Heterostructures: A Review. <i>Chemical Record</i> , 2018, 18, 1085-1104.	2.9	52

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127	Gas phase dehydration of glycerol to acrolein over WO ₃ -based catalysts prepared by non-hydrolytic sol-gel synthesis. RSC Advances, 2018, 8, 13344-13352.	1.7	26
128	S- and N-doped carbon quantum dots: Surface chemistry dependent antibacterial activity. Carbon, 2018, 135, 104-111.	5.4	244
129	Catalyzed Microwave-Assisted Preparation of Carbon Quantum Dots from Lignocellulosic Residues. ACS Sustainable Chemistry and Engineering, 2018, 6, 7200-7205.	3.2	88
130	Influence of the synthetic conditions on the composition, morphology of CuMgAl hydrotalcites and their use as catalytic precursor in diesel soot combustion reactions. Applied Clay Science, 2018, 157, 148-157.	2.6	23
131	Adsorption of biomolecules in porous silicas modified with zirconium. Effect of the textural properties and acidity. Microporous and Mesoporous Materials, 2018, 260, 146-154.	2.2	8
132	Enhanced electrochemical response of carbon quantum dot modified electrodes. Talanta, 2018, 178, 679-685.	2.9	55
133	Sustainable photo-assisted CO oxidation in H ₂ -rich stream by simulated solar light response of Au nanoparticles supported on TiO ₂ . Catalysis Today, 2018, 304, 135-142.	2.2	16
134	Lamellar zirconium phosphates to host metals for catalytic purposes. Dalton Transactions, 2018, 47, 3047-3058.	1.6	6
135	On the reasons for deactivation of titanate nanotubes with metals catalysts in the acetalization of glycerol with acetone. Chemical Engineering Journal, 2018, 334, 1927-1942.	6.6	31
136	Influence of buffer solutions in the adsorption of human serum proteins onto layered double hydroxide. International Journal of Biological Macromolecules, 2018, 106, 396-409.	3.6	23
137	Introduction of Al into the HPM-1 Framework by In Situ Generated Seeds as an Alternative Methodology. Applied Sciences (Switzerland), 2018, 8, 1634.	1.3	9
138	Separation of Light Liquid Paraffin C ₅ -C ₉ with Cuban Volcanic Glass Previously Used in Copper Elimination from Water Solutions. Applied Sciences (Switzerland), 2018, 8, 295.	1.3	6
139	Corrosion Resistance of Mild Steel Coated with Organic Material Containing Pyrazol Moiety. Coatings, 2018, 8, 330.	1.2	42
140	The Role of Current Collector in Enabling the High Performance of Li/S Battery. ChemistrySelect, 2018, 3, 10371-10377.	0.7	22
141	Selective Oxidation of Hydrogen Sulfide to Sulfur Using Vanadium Oxide Supported on Porous Clay Heterostructures (PCHs) Formed by Pillars Silica, Silica-Zirconia or Silica-Titania. Materials, 2018, 11, 1562.	1.3	24
142	Natural and Modified Montmorillonite Clays as Catalysts for Synthesis of Biolubricants. Materials, 2018, 11, 1764.	1.3	36
143	Porosity Reduction in New Thin Films of Ceramic Coatings on Stainless Steel by Annealing at Reduced Pressure. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 5858-5870.	1.1	2
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