Rabah Boukherroub

List of Publications by Year
in descending order

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670 papers	27,789 citations	6254 80 h-index	18647 119 g-index
711 all docs	711 docs citations	711 times ranked	29856 citing authors

#	Article	IF	Citations
1	Facile and secure synthesis of porous partially fluorinated graphene employing weakly coordinating anion for enhanced high-performance symmetric supercapacitor. Journal of Materiomics, 2022, 8, 113-122.	5.7	8
2	Electrochemical and electronic detection of biomarkers in serum: a systematic comparison using aptamer-functionalized surfaces. Analytical and Bioanalytical Chemistry, 2022, 414, 5319-5327.	3.7	9
3	Surface modification of silicon nanowires for biosensing. , 2022, , 25-68.		1
4	Efficient detoxification of Cr(VI)-containing effluents by sequential adsorption and reduction using a novel cysteine-doped PANi@faujasite composite: Experimental study supported by advanced statistical physics prediction. Journal of Hazardous Materials, 2022, 422, 126857.	12.4	65
5	Biocompatibility of semiconducting silicon nanowires. , 2022, , 69-110.		0
6	Facile Synthesis of Bimetal Nickel Cobalt Phosphate Nanostructures for High-Performance Hybrid Supercapacitors. Journal of Alloys and Compounds, 2022, 893, 162340.	5.5	32
7	Synthesis and characterization of palladium nanoparticles immobilized on graphene oxide functionalized with triethylenetetramine or 2,6-diaminopyridine and application for the Suzuki cross-coupling reaction. Journal of Organometallic Chemistry, 2022, 957, 122160.	1.8	14
8	A green and sensitive guanine-based DNA biosensor for idarubicin anticancer monitoring in biological samples: A simple and fast strategy for control of health quality in chemotherapy procedure confirmed by docking investigation. Chemosphere, 2022, 291, 132928.	8.2	194
9	A newly synthesized bipyridineâ€containing manganese(<scp>II</scp>) complex immobilized on graphene oxide as active electrocatalyst for hydrogen gas production from alkaline solutions: Experimental and theoretical studies. International Journal of Energy Research, 2022, 46, 6577-6593.	4.5	2
10	Emerging advances and current applications of nanoMOF-based membranes for water treatment. Chemosphere, 2022, 292, 133369.	8.2	13
11	An efficient CuO/rGO/TiO₂photocatalyst for the synthesis of benzopyranopyrimidine compounds under visible light irradiation. New Journal of Chemistry, 2022, 46, 3817-3830.	2.8	8
12	Photothermal Activatable Mucoadhesive Fiber Mats for On-Demand Delivery of Insulin via Buccal and Corneal Mucosa. ACS Applied Bio Materials, 2022, 5, 771-778.	4.6	14
13	Innovative transdermal delivery of insulin using gelatin methacrylate-based microneedle patches in mice and mini-pigs. Nanoscale Horizons, 2022, 7, 174-184.	8.0	21
14	The holy grail of pyrene-based surface ligands on the sensitivity of graphene-based field effect transistors. Sensors & Diagnostics, 2022, 1, 235-244.	3.8	17
15	Effectiveness of a novel polyaniline@Fe-ZSM-5 hybrid composite for Orange G dye removal from aqueous media: Experimental study and advanced statistical physics insights. Chemosphere, 2022, 295, 133786.	8.2	39
16	Impact of colistin and colistin-loaded on alginate nanoparticles on pigs infected with a colistin-resistant enterotoxigenic Escherichia coli strain. Veterinary Microbiology, 2022, 266, 109359.	1.9	3
17	Highly performing graphene-based field effect transistor for the differentiation between mild-moderate-severe myocardial injury. Nano Today, 2022, 43, 101391.	11.9	24
18	Colorimetric assay for the detection of dopamine using bismuth ferrite oxide (Bi2Fe4O9) nanoparticles as an efficient peroxidase-mimic nanozyme. Journal of Colloid and Interface Science, 2022, 613, 384-395.	9.4	33

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19	Synthesis and characterization of a novel multi-functionalized reduced graphene oxide as a pH-sensitive drug delivery material and a photothermal candidate. Applied Surface Science, 2022, 583, 152568.	6.1	14
20	Phytic acid-doped poly-N-phenylglycine potato peels for removal of anionic dyes: investigation of adsorption parameters. New Journal of Chemistry, 2022, 46, 5111-5120.	2.8	3
21	Surface modification of carbon dots with tetraalkylammonium moieties for fine tuning their antibacterial activity. Materials Science and Engineering C, 2022, 134, 112697.	7.3	10
22	Electrocatalytic hydrogen generation using tripod containing pyrazolylborate-based copper(<scp>ii</scp>), nickel(<scp>ii</scp>), and iron(<scp>iii</scp>) complexes loaded on a glassy carbon electrode. RSC Advances, 2022, 12, 8030-8042.	3.6	3
23	Effective PDT/PTT dual-modal phototherapeutic killing of bacteria by using poly(N-phenylglycine) nanoparticles. Mikrochimica Acta, 2022, 189, 150.	5.0	3
24	Adsorption-reduction of Cr(VI) onto unmodified and phytic acid-modified carob waste: Kinetic and isotherm modeling. Chemosphere, 2022, 297, 134188.	8.2	14
25	Catch and release strategy of matrix metalloprotease aptamers via thiolâ€“disulfide exchange reaction on a graphene based electrochemical sensor. Sensors & Diagnostics, 2022, 1, 739-749.	3.8	4
26	Cathodic Activation of Titania-Fly Ash Cenospheres for Efficient Electrochemical Hydrogen Production: A Proposed Solution to Treat Fly Ash Waste. Catalysts, 2022, 12, 466.	3.5	2
27	Preparation of nanowires on free-standing boron-doped diamond films for high performance micro-capacitors. Electrochimica Acta, 2022, 421, 140500.	5.2	3
28	Singleâ€Step Synthesis of Exfoliated Ti₃C₂T_x MXene through NaBF₄/HCl Etching as Electrode Material for Asymmetric Supercapacitor. ChemistrySelect, 2022, 7, .	1.5	6
29	Electrochemical H2 Production using Polypyrazole based Zinc(II) Complex in Alkaline Medium. Asian Journal of Chemistry, 2022, 34, 1366-1372.	0.3	0
30	Enhancing Colistin Activity against Colistin-Resistant Escherichia coli through Combination with Alginate Nanoparticles and Small Molecules. Pharmaceuticals, 2022, 15, 682.	3.8	2
31	Influence of graphene oxide on the toxicity of polystyrene nanoplastics to the marine microalgae Picochlorum sp.. Environmental Science and Pollution Research, 2022, 29, 75870-75882.	5.3	2
32	Enhanced Antibacterial Activity of Dermaseptin through Its Immobilization on Alginate Nanoparticlesâ€”Effects of Menthol and Lactic Acid on Its Potentialization. Antibiotics, 2022, 11, 787.	3.7	2
33	TRPM8 as an Antiâ€“Tumoral Target in Prostate Cancer Growth and Metastasis Dissemination. International Journal of Molecular Sciences, 2022, 23, 6672.	4.1	9
34	Magnetic MnFe2O4 Coreâ€“shell nanoparticles coated with antibiotics for the ablation of pathogens. Chemical Papers, 2021, 75, 377-387.	2.2	10
35	Colorimetric sensing of dopamine in beef meat using copper sulfide encapsulated within bovine serum albumin functionalized with copper phosphate (CuS-BSA-Cu3(PO4)2) nanoparticles. Journal of Colloid and Interface Science, 2021, 582, 732-740.	9.4	35
36	Facile synthesis and characterization of a novel 1,2,4,5-benzene tetracarboxylic acid doped polyaniline@zinc phosphate nanocomposite for highly efficient removal of hazardous hexavalent chromium ions from water. Journal of Colloid and Interface Science, 2021, 585, 560-573.	9.4	87

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37	The impact of chemical engineering and technological advances on managing diabetes: present and future concepts. Chemical Society Reviews, 2021, 50, 2102-2146.	38.1	28
38	Simultaneous photocatalytic Cr(VI) reduction and phenol degradation over copper sulphide-reduced graphene oxide nanocomposite under visible light irradiation: Performance and reaction mechanism. Chemosphere, 2021, 268, 128798.	8.2	47
39	Reduced graphene oxideâ€"based field effect transistors for the detection of E7 protein of human papillomavirus in saliva. Analytical and Bioanalytical Chemistry, 2021, 413, 779-787.	3.7	62
40	SERS characterization of aggregated and isolated bacteria deposited on silver-based substrates. Analytical and Bioanalytical Chemistry, 2021, 413, 1417-1428.	3.7	18
41	CoS₂Nanoparticles Supported on rGO, g-C₃N₄, BCN, MoS₂, and WS₂Two-Dimensional Nanosheets with Excellent Electrocatalytic Performance for Overall Water Splitting: Electrochemical Studies and DFT Calculations. ACS Applied Energy Materials, 2021, 4, 1269-1285.	5.1	39
42	Carbon quantum dots as a dual platform for the inhibition and light-based destruction of collagen fibers: implications for the treatment of eye floaters. Nanoscale Horizons, 2021, 6, 449-461.	8.0	14
43	Aryne cycloaddition reaction as a facile and mild modification method for design of electrode materials for high-performance symmetric supercapacitor. Electrochimica Acta, 2021, 369, 137667.	5.2	8
44	The Potential of Developing Pan-Coronaviral Antibodies to Spike Peptides in Convalescent COVID-19 Patients. Archivum Immunologiae Et Therapiae Experimentalis, 2021, 69, 5.	2.3	8
45	In Situ Synthesis of Co₃O₄/CoFe₂O₄ Derived from a Metalâ€"Organic Framework on Nickel Foam: High-Performance Electrocatalyst for Water Oxidation. ACS Applied Energy Materials, 2021, 4, 2951-2959.	5.1	34
46	Cathodic pre-polarization studies on the carbon felt/KOH interface: An efficient metal-free electrocatalyst for hydrogen generation. Electrochimica Acta, 2021, 375, 137981.	5.2	8
47	Modification of MnFe2O4 surface by Mo (VI) pyridylimine complex as an efficient nanocatalyst for (ep)oxidation of alkenes and sulfides. Journal of Molecular Liquids, 2021, 330, 115690.	4.9	16
48	Colorimetric detection of chromium (VI) ion using poly(N-phenylglycine) nanoparticles acting as a peroxidase mimetic catalyst. Talanta, 2021, 226, 122082.	5.5	32
49	Morphological influence of BiVO4 nanostructures on peroxymonosulfate activation for highly efficient catalytic degradation of rhodamine B. Environmental Science and Pollution Research, 2021, 28, 52236-52246.	5.3	12
50	Enhanced electrocatalytic activity of PtRu/nitrogen and sulphur co-doped crumbled graphene in acid and alkaline media. Journal of Colloid and Interface Science, 2021, 590, 154-163.	9.4	13
51	Efficacious Alkaline Copper Corrosion Inhibition by a Mixed Ligand Copper(II) Complex of 2,2â€²â€Bipyridine and Glycine: Electrochemical and Theoretical Studies. ChemElectroChem, 2021, 8, 2052-2064.	3.4	7
52	Carbonâ€"nitrogen bond formation using modified graphene oxide derivatives decorated with copper complexes and nanoparticles. Applied Organometallic Chemistry, 2021, 35, e6327.	3.5	5
53	Natural antibodies: Protecting role of IgM in glioblastoma and brain tumours. Current Pharmaceutical Design, 2021, 27, 4515-4529.	1.9	0
54	Rapid Generation of Coronaviral Immunity Using Recombinant Peptide Modified Nanodiamonds. Pathogens, 2021, 10, 861.	2.8	10

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55	Au-assisted Polymerization of Conductive Poly(N-phenylglycine) as High-performance Positive Electrodes for Asymmetric Supercapacitors. Nanotechnology, 2021, 33, .	2.6	1
56	Flowerâ€like Nitrogenâ€coâ€doped MoS₂@RGO Composites with Excellent Stability for Supercapacitors. ChemElectroChem, 2021, 8, 2903-2911.	3.4	12
57	Graphene-Induced Hyperthermia (GIHT) Combined With Radiotherapy Fosters Immunogenic Cell Death. Frontiers in Oncology, 2021, 11, 664615.	2.8	13
58	Enhanced Antibacterial Activity of CuS-BSA/Lysozyme under Near Infrared Light Irradiation. Nanomaterials, 2021, 11, 2156.	4.1	11
59	Enhanced visible light-triggered antibacterial activity of carbon quantum dots/polyurethane nanocomposites by gamma rays induced pre-treatment. Radiation Physics and Chemistry, 2021, 185, 109499.	2.8	15
60	The importance of the shape of Cu2O nanocrystals on plasmon-enhanced oxygen evolution reaction in alkaline media. Electrochimica Acta, 2021, 390, 138810.	5.2	11
61	Development of a novel PANI@WO3 hybrid composite and its application as a promising adsorbent for Cr(VI) ions removal. Journal of Environmental Chemical Engineering, 2021, 9, 105885.	6.7	55
62	Cobalt sulfide-reduced graphene oxide: An efficient catalyst for the degradation of rhodamine B and pentachlorophenol using peroxymonosulfate. Journal of Environmental Chemical Engineering, 2021, 9, 106018.	6.7	20
63	Magnetically driven superhydrophobic/superoleophilic graphene-based polyurethane sponge for highly efficient oil/water separation and demulsification. Separation and Purification Technology, 2021, 274, 118931.	7.9	80
64	A mask-based diagnostic platform for point-of-care screening of Covid-19. Biosensors and Bioelectronics, 2021, 192, 113486.	10.1	29
65	Silicon nanowire-hydrogenated TiO2 core-shell arrays for stable electrochemical micro-capacitors. Electrochimica Acta, 2021, 396, 139198.	5.2	6
66	Self-combustion synthesis of dilithium cobalt bis(tungstate) decorated with silver nanoparticles for high performance hybrid supercapacitors. Chemical Engineering Journal, 2021, 426, 131252.	12.7	16
67	Ultra-sensitive and fast optical detection of the spike protein of the SARS-CoV-2 using AgNPs/SiNWs nanohybrid based sensors. Surfaces and Interfaces, 2021, 27, 101454.	3.0	27
68	Alginate Nanoparticles Enhance Anti-Clostridium perfringens Activity of the Leaderless Two-Peptide Enterocin DD14 and Affect Expression of Some Virulence Factors. Probiotics and Antimicrobial Proteins, 2021, 13, 1213-1227.	3.9	10
69	Controlled covalent functionalization of a graphene-channel of a field effect transistor as an ideal platform for (bio)sensing applications. Nanoscale Horizons, 2021, 6, 819-829.	8.0	24
70	Diaryl Sulfide Derivatives as Potential Iron Corrosion Inhibitors: A Computational Study. Molecules, 2021, 26, 6312.	3.8	3
71	Fabrication of superhydrophobic/superoleophilic functionalized reduced graphene oxide/polydopamine/PFDT membrane for efficient oil/water separation. Separation and Purification Technology, 2020, 236, 116240.	7.9	42
72	Preparation of magnetic, superhydrophobic/superoleophilic polyurethane sponge: Separation of oil/water mixture and demulsification. Chemical Engineering Journal, 2020, 384, 123339.	12.7	144

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73	High performance of 3D silicon nanowires array@CrN for electrochemical capacitors. Nanotechnology, 2020, 31, 035407.	2.6	8
74	Electrothermal patches driving the transdermal delivery of insulin. Nanoscale Horizons, 2020, 5, 663-670.	8.0	30
75	Highly efficient conversion of the nitroarenes to amines at the interface of a ternary hybrid containing silver nanoparticles doped reduced graphene oxide/ graphitic carbon nitride under visible light. Journal of Hazardous Materials, 2020, 387, 121700.	12.4	36
76	Functionalized MoS2/polyurethane sponge: An efficient scavenger for oil in water. Separation and Purification Technology, 2020, 238, 116420.	7.9	37
77	Mussel-Inspired Superhydrophobic Surfaces on 316L Stainless Steel with Enhanced Corrosion Resistance. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 909-919.	2.2	9
78	MnOx thin film based electrodes: Role of surface point defects and structure towards extreme enhancement in specific capacitance. Materials Chemistry and Physics, 2020, 242, 122487.	4.0	10
79	Design and preparation of core-shell structured magnetic graphene oxide@MIL-101(Fe): Photocatalysis under shell to remove diazinon and atrazine pesticides. Solar Energy, 2020, 208, 990-1000.	6.1	41
80	Electrochemical, theoretical and surface physicochemical studies of the alkaline copper corrosion inhibition by newly synthesized molecular complexes of benzenediamine and tetraamine with Ï€ acceptor. Journal of Molecular Liquids, 2020, 320, 114386.	4.9	8
81	Cu₂O/reduced graphene oxide/TiO₂nanomaterial: An effective photocatalyst for azideâ€alkyne cycloaddition with benzyl halides or epoxide derivatives under visible light irradiation. Applied Organometallic Chemistry, 2020, 34, e5928.	3.5	19
82	Preparation of boron-doped diamond nanospikes on porous Ti substrate for high-performance supercapacitors. Electrochimica Acta, 2020, 354, 136649.	5.2	14
83	Magnetic polyurethane sponge for efficient oil adsorption and separation of oil from oil-in-water emulsions. Separation and Purification Technology, 2020, 240, 116627.	7.9	93
84	Synthesis and characterization of arginine-doped polyaniline/walnut shell hybrid composite with superior clean-up ability for chromium (VI) from aqueous media: Equilibrium, reusability and process optimization. Journal of Molecular Liquids, 2020, 316, 113832.	4.9	84
85	New Bacteriocins from Lacticaseibacillus paracasei CNCM I-5369 Adsorbed on Alginate Nanoparticles Are Very Active against Escherichia coli. International Journal of Molecular Sciences, 2020, 21, 8654.	4.1	11
86	Plasmon-Driven Electrochemical Methanol Oxidation on Gold Nanohole Electrodes. ACS Applied Materials & Interfaces, 2020, 12, 50426-50432.	8.0	21
87	Cathodic activation of synthesized highly defective monoclinic hydroxylâ€functionalized <scp> ZrO ₂ </scp> nanoparticles for efficient electrochemical production of hydrogen in alkaline media. International Journal of Energy Research, 2020, 44, 10695-10709.	4.5	9
88	Cellulose Nanocrystals/Graphene Hybridsâ€"A Promising New Class of Materials for Advanced Applications. Nanomaterials, 2020, 10, 1523.	4.1	109
89	An â€˜on-demandâ€™ photothermal antibiotic release cryogel patch: evaluation of efficacy on anex vivomodel for skin wound infection. Biomaterials Science, 2020, 8, 5911-5919.	5.4	27
90	Formation of a Highly Stable and Nontoxic Protein Corona upon Interaction of Human Î±-1-Acid Glycoprotein (AGP) with Citrate-Stabilized Silver Nanoparticles. Langmuir, 2020, 36, 10321-10330.	3.5	18

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91	Photothermally Active Cryogel Devices for Effective Release of Antimicrobial Peptides: On-Demand Treatment of Infections. ACS Applied Materials & Interfaces, 2020, 12, 56805-56814.	8.0	22
92	Nanodiamonds for bioapplications, recent developments. Journal of Materials Chemistry B, 2020, 8, 10878-10896.	5.8	33
93	Plasmon-enhanced electrocatalytic oxygen reduction in alkaline media on gold nanohole electrodes. Journal of Materials Chemistry A, 2020, 8, 10395-10401.	10.3	12
94	Ptâ€“ZnO/M (Mâ€‰=â€‰Fe, Co, Ni or Cu): A New Promising Hybrid-Doped Noble Metal/Semiconductor Photocatalysts. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 4627-4636.	3.7	7
95	Rapid and sensitive identification of uropathogenic Escherichia coli using a surface-enhanced-Raman-scattering-based biochip. Talanta, 2020, 219, 121174.	5.5	16
96	The antimicrobial peptide oranicin P16 isolated from Trichosporon asahii ICVY021, found in camel milk's, inhibits Kocuria rhizophila. Food Bioscience, 2020, 36, 100670.	4.4	6
97	NiMnCr layered double hydroxide-carbon spheres modified Ni foam: An efficient positive electrode for hybrid supercapacitors. Chemical Engineering Journal, 2020, 396, 125370.	12.7	27
98	Graphene oxide chemically reduced and functionalized with KOH-PEI for efficient Cr(VI) adsorption and reduction in acidic medium. Chemosphere, 2020, 258, 127316.	8.2	77
99	Heterologous Biosynthesis of Five New Class II Bacteriocins From Lactobacillus paracasei CNCM I-5369 With Antagonistic Activity Against Pathogenic Escherichia coli Strains. Frontiers in Microbiology, 2020, 11, 1198.	3.5	21
100	Aluminum based metal-organic framework integrated with reduced graphene oxide for improved supercapacitive performance. Electrochimica Acta, 2020, 353, 136609.	5.2	21
101	Plasmon-induced photocatalytic transformations. , 2020, , 249-275.		0
102	Graphene Oxide Nanosheets for Localized Hyperthermiaâ€”Physicochemical Characterization, Biocompatibility, and Induction of Tumor Cell Death. Cells, 2020, 9, 776.	4.1	16
103	Nanoscale materials for the treatment of water contaminated by bacteria and viruses. , 2020, , 261-305.		3
104	High performance of phytic acid-functionalized spherical poly-phenylglycine particles for removal of heavy metal ions. Applied Surface Science, 2020, 518, 146206.	6.1	28
105	High performance flexible hybrid supercapacitors based on nickel hydroxide deposited on copper oxide supported by copper foam for a sunlight-powered rechargeable energy storage system. Journal of Colloid and Interface Science, 2020, 579, 520-530.	9.4	33
106	Magneto-Optical Nanostructures for Viral Sensing. Nanomaterials, 2020, 10, 1271.	4.1	13
107	High-performance flexible hybrid supercapacitor based on NiAl layered double hydroxide as a positive electrode and nitrogen-doped reduced graphene oxide as a negative electrode. Electrochimica Acta, 2020, 354, 136664.	5.2	19
108	Copperâ€based metalâ€“organic framework decorated by CuO hairâ€like nanostructures: Electrocatalyst for oxygen evolution reaction. Applied Organometallic Chemistry, 2020, 34, e5871.	3.5	11

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109	Surface Functionalization with Polyethylene Glycol and Polyethyleneimine Improves the Performance of Graphene-Based Materials for Safe and Efficient Intracellular Delivery by Laser-Induced Photoporation. International Journal of Molecular Sciences, 2020, 21, 1540.	4.1	17
110	Ultrasmall CuS-BSA-Cu3(PO4)2 nanozyme for highly efficient colorimetric sensing of H2O2 and glucose in contact lens care solutions and human serum. Analytica Chimica Acta, 2020, 1109, 78-89.	5.4	34
111	Pd nanoparticles supported on reduced graphene oxide as an effective and reusable heterogeneous catalyst for the Mizorokiâ€“Heck coupling reaction. Applied Organometallic Chemistry, 2020, 34, e5524.	3.5	29
112	Long-term live-cell microscopy with labeled nanobodies delivered by laser-induced photoporation. Nano Research, 2020, 13, 485-495.	10.4	14
113	Enhanced electrocatalytic hydrogen evolution on a plasmonic electrode: the importance of the Ti/TiO2 adhesion layer. Journal of Materials Chemistry A, 2020, 8, 13980-13986.	10.3	10
114	Interaction of cellulose and nitrodopamine coated superparamagnetic iron oxide nanoparticles with alpha-lactalbumin. RSC Advances, 2020, 10, 9704-9716.	3.6	14
115	Flexible Energy Storage Device Based on Poly(N-phenylglycine), an Incentive-Energy Pseudocapacitive Conducting Polymer, and Electrochemically Exfoliated Graphite Sheets. ACS Sustainable Chemistry and Engineering, 2020, 8, 6433-6441.	6.7	20
116	Crystalline <scp>ZnO</scp> and <scp>ZnO</scp> / <scp> TiO ₂ </scp> nanoparticles derived from tert â€butyl Nâ€(2 mercaptoethyl)carbamatozinc(<scp>II</scp>) chelate: Electrocatalytic studies for <scp> H ₂ </scp> generation in alkaline electrolytes. International Journal of Energy Research, 2020, 44, 6725-6744.	4.5	11
117	Ultrasound Assisted the Synthesis of 1,3-Dioxolane Derivatives from the Reaction of Epoxides or 1,2-Diols with Various Ketones Using Graphene Oxide Catalyst. Catalysis Letters, 2020, 150, 2959-2969.	2.6	9
118	Purification for Carbon Nanotubes Synthesized by Flame Fragments Deposition via Hydrogen Peroxide and Acetone. Materials, 2020, 13, 2342.	2.9	21
119	Efficient and Regioselective Ring-opening of Epoxides with Carboxylic Acid Catalyzed by Graphite Oxide. Letters in Organic Chemistry, 2020, 17, 532-538.	0.5	2
120	Fast and facile preparation of nanostructured silicon surfaces for laser desorption/ionization mass spectrometry of small compounds. Rapid Communications in Mass Spectrometry, 2019, 33, 66-74.	1.5	8
121	CoO Promoted the Catalytic Activity of Nitrogen-Doped MoS₂ Supported on Carbon Fibers for Overall Water Splitting. ACS Applied Materials & Interfaces, 2019, 11, 31889-31898.	8.0	72
122	Robust superhydrophobic polyurethane sponge functionalized with perfluorinated graphene oxide for efficient immiscible oil/water mixture, stable emulsion separation and crude oil dehydration. Science China Technological Sciences, 2019, 62, 1585-1595.	4.0	28
123	Ag and Au nanoparticles/reduced graphene oxide composite materials: Synthesis and application in diagnostics and therapeutics. Advances in Colloid and Interface Science, 2019, 271, 101991.	14.7	102
124	Chitosan/hydroxyapatite modified carbon/carbon composites: synthesis, characterization and in vitro biocompatibility evaluation. RSC Advances, 2019, 9, 23362-23372.	3.6	11
125	Toxicity Effect of Silver Nanoparticles on Photosynthetic Pigment Content, Growth, ROS Production and Ultrastructural Changes of Microalgae Chlorella vulgaris. Nanomaterials, 2019, 9, 914.	4.1	48
126	Dopamine-functionalized cyclodextrins: modification of reduced graphene oxide based electrodes and sensing of folic acid in human serum. Analytical and Bioanalytical Chemistry, 2019, 411, 5149-5157.	3.7	10

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127	662 Bacterial infection and wound healing in an ex vivo human skin model. Journal of Investigative Dermatology, 2019, 139, S328.	0.7	1
128	Functional Carbon Quantum Dots as Medical Countermeasures to Human Coronavirus. ACS Applied Materials & Interfaces, 2019, 11, 42964-42974.	8.0	231
129	Self-template synthesis of ZnS/Ni3S2 as advanced electrode material for hybrid supercapacitors. Electrochimica Acta, 2019, 328, 135065.	5.2	32
130	High spatial resolution electrochemical biosensing using reflected light microscopy. Scientific Reports, 2019, 9, 15196.	3.3	10
131	Preparation of Low-Resistance and Residue-free ITO Films for Large-scale 3D Displays. ACS Applied Materials & Interfaces, 2019, 11, 45903-45913.	8.0	9
132	CuS Decorated Functionalized Reduced Graphene Oxide: A Dual Responsive Nanozyme for Selective Detection and Photoreduction of Cr(VI) in an Aqueous Medium. ACS Sustainable Chemistry and Engineering, 2019, 7, 16131-16143.	6.7	63
133	Achieving on chip micro-supercapacitors based on CrN deposited by bipolar magnetron sputtering at glancing angle. Electrochimica Acta, 2019, 324, 134890.	5.2	35
134	LB1138 An ex vivo human skin model for healing of infected wounds. Journal of Investigative Dermatology, 2019, 139, B24.	0.7	1
135	Mucin modified SPR interfaces for studying the effect of flow on pathogen binding to Atlantic salmon mucins. Biosensors and Bioelectronics, 2019, 146, 111736.	10.1	10
136	Cu(0) nanoparticle-decorated functionalized reduced graphene oxide sheets as artificial peroxidase enzymes: application for colorimetric detection of Cr(<scp>vi</scp>) ions. New Journal of Chemistry, 2019, 43, 1404-1414.	2.8	23
137	Plasmon-Induced Electrocatalysis with Multi-Component Nanostructures. Materials, 2019, 12, 43.	2.9	17
138	Heterostructures of mesoporous TiO2 and SnO2 nanocatalyst for improved electrochemical oxidation ability of vitamin B6 in pharmaceutical tablets. Journal of Colloid and Interface Science, 2019, 542, 45-53.	9.4	35
139	Efficient oil/water separation by superhydrophobic CuxS coated on copper mesh. Separation and Purification Technology, 2019, 215, 573-581.	7.9	64
140	Phenyl-grafted carbon nitride semiconductor for photocatalytic CO₂-reduction and rapid degradation of organic dyes. Catalysis Science and Technology, 2019, 9, 822-832.	4.1	39
141	Graphene oxide effects in early ontogenetic stages of Triticum aestivum L. seedlings. Ecotoxicology and Environmental Safety, 2019, 181, 345-352.	6.0	39
142	Excellent photocatalytic reduction of nitroarenes to aminoarenes by BiVO₄ nanoparticles grafted on reduced graphene oxide (rGO/BiVO₄). Applied Organometallic Chemistry, 2019, 33, e5059.	3.5	19
143	Carbon-based quantum particles: an electroanalytical and biomedical perspective. Chemical Society Reviews, 2019, 48, 4281-4316.	38.1	187
144	Phytic acid-doped polyaniline nanofibers-clay mineral for efficient adsorption of copper (II) ions. Journal of Colloid and Interface Science, 2019, 553, 688-698.	9.4	57

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145	Manganese Ferrite Nanoparticles Modified by Mo(VI) Complex: Highly Efficient Catalyst for Sulfides and Olefins Oxidation Under Solventâ€less Condition. ChemistrySelect, 2019, 4, 7116-7122.	1.5	6
146	Near-infrared light activatable hydrogels for metformin delivery. Nanoscale, 2019, 11, 15810-15820.	5.6	30
147	Fabrication of ZnCoS nanomaterial for high energy flexible asymmetric supercapacitors. Chemical Engineering Journal, 2019, 374, 347-358.	12.7	72
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