

# Irma ChacÃ³n

## List of Publications by Year in descending order

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Version: 2024-02-01

360  
papers

15,159  
citations

23567

58  
h-index

38395

95  
g-index

364  
all docs

364  
docs citations

364  
times ranked

17910  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dendritic Nanostructured Waste Copper Wires for High-Energy Alkaline Battery. <i>Nano-Micro Letters</i> , 2020, 12, 1.	27.0	556
2	True Meaning of Pseudocapacitors and Their Performance Metrics: Asymmetric versus Hybrid Supercapacitors. <i>Small</i> , 2020, 16, e2002806.	10.0	405
3	Hierarchical Ni-Co layered double hydroxide nanosheets entrapped on conductive textile fibers: a cost-effective and flexible electrode for high-performance pseudocapacitors. <i>Nanoscale</i> , 2016, 8, 812-825.	5.6	327
4	Prospects of using nanotechnology for food preservation, safety, and security. <i>Journal of Food and Drug Analysis</i> , 2018, 26, 1201-1214.	1.9	300
5	Portable electrochemical sensing methodologies for on-site detection of pesticide residues in fruits and vegetables. <i>Coordination Chemistry Reviews</i> , 2022, 453, 214305.	18.8	212
6	Ultra-low overpotential and high rate capability in Li-O <sub>2</sub> batteries through surface atom arrangement of PdCu nanocatalysts. <i>Energy and Environmental Science</i> , 2014, 7, 1362.	30.8	193
7	3D heterostructured architectures of Co <sub>3</sub> O <sub>4</sub> nanoparticles deposited on porous graphene surfaces for high performance of lithium ion batteries. <i>Nanoscale</i> , 2012, 4, 5924.	5.6	182
8	How Do Li Atoms Pass through the Al <sub>2</sub> O <sub>3</sub> Coating Layer during Lithiation in Li-ion Batteries?. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2681-2685.	4.6	166
9	Flexible Few-Layered Graphene for the Ultrafast Rechargeable Aluminum-Ion Battery. <i>Journal of Physical Chemistry C</i> , 2016, 120, 13384-13389.	3.1	164
10	Colorimetric based on-site sensing strategies for the rapid detection of pesticides in agricultural foods: New horizons, perspectives, and challenges. <i>Coordination Chemistry Reviews</i> , 2021, 446, 214061.	18.8	159
11	An enzyme-free electrochemical sensor based on reduced graphene oxide/Co <sub>3</sub> O <sub>4</sub> nanospindle composite for sensitive detection of nitrite. <i>Sensors and Actuators B: Chemical</i> , 2016, 227, 92-99.	7.8	154
12	Pd nanospheres decorated reduced graphene oxide with multi-functions: Highly efficient catalytic reduction and ultrasensitive sensing of hazardous 4-nitrophenol pollutant. <i>Journal of Hazardous Materials</i> , 2017, 333, 54-62.	12.4	145
13	Advances in optical-sensing strategies for the on-site detection of pesticides in agricultural foods. <i>Trends in Food Science and Technology</i> , 2022, 119, 69-89.	15.1	144
14	A novel strategy for controllable emissions from Eu <sup>3+</sup> or Sm <sup>3+</sup> ions co-doped SrY <sub>2</sub> O <sub>4</sub> :Tb <sup>3+</sup> phosphors. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11296.	2.8	142
15	AgNWs-PANI nanocomposite based electrochemical sensor for detection of 4-nitrophenol. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 616-623.	7.8	135
16	Improved reversibility in lithium-oxygen battery: Understanding elementary reactions and surface charge engineering of metal alloy catalyst. <i>Scientific Reports</i> , 2014, 4, 4225.	3.3	133
17	Full-spectrum-responsive Bi <sub>2</sub> S <sub>3</sub> @CdS S-scheme heterostructure with intimate ultrathin RGO toward photocatalytic Cr(VI) reduction and H <sub>2</sub> O <sub>2</sub> production: Experimental and DFT studies. <i>Chemical Engineering Journal</i> , 2021, 419, 129530.	12.7	132
18	Multifunctional nanoparticles: recent progress in cancer therapeutics. <i>Chemical Communications</i> , 2015, 51, 13248-13259.	4.1	131

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19	Development of gold nanoparticle-aptamer-based LSPR sensing chips for the rapid detection of Salmonella typhimurium in pork meat. Scientific Reports, 2017, 7, 10130.	3.3	130
20	Co-metal-organic framework derived CoSe <sub>2</sub> @MoSe <sub>2</sub> core-shell structure on carbon cloth as an efficient bifunctional catalyst for overall water splitting. Chemical Engineering Journal, 2022, 429, 132379.	12.7	129
21	Atom-Level Understanding of the Sodiation Process in Silicon Anode Material. Journal of Physical Chemistry Letters, 2014, 5, 1283-1288.	4.6	127
22	High-performance supercapacitor based on three-dimensional MoS <sub>2</sub> /graphene aerogel composites. Composites Science and Technology, 2015, 121, 123-128.	7.8	122
23	Highly efficient and robust noble-metal free bifunctional water electrolysis catalyst achieved via complementary charge transfer. Nature Communications, 2021, 12, 4606.	12.8	119
24	Hexagonal Co <sub>3</sub> O <sub>4</sub> anchored reduced graphene oxide sheets for high-performance supercapacitors and non-enzymatic glucose sensing. Journal of Materials Chemistry A, 2018, 6, 14367-14379.	10.3	118
25	Two-Dimensional Phosphorene-Derived Protective Layers on a Lithium Metal Anode for Lithium-Oxygen Batteries. ACS Nano, 2018, 12, 4419-4430.	14.6	115
26	Why is tris(trimethylsilyl) phosphite effective as an additive for high-voltage lithium-ion batteries?. Journal of Materials Chemistry A, 2015, 3, 10900-10909.	10.3	112
27	A smart nanosensor for the detection of human immunodeficiency virus and associated cardiovascular and arthritis diseases using functionalized graphene-based transistors. Biosensors and Bioelectronics, 2019, 126, 792-799.	10.1	112
28	MXene: An emerging two-dimensional layered material for removal of radioactive pollutants. Chemical Engineering Journal, 2020, 397, 125428.	12.7	112
29	Porous three-dimensional graphene foam/Prussian blue composite for efficient removal of radioactive <sup>137</sup> Cs. Scientific Reports, 2015, 5, 17510.	3.3	109
30	Polyoxometalate-coupled Graphene via Polymeric Ionic Liquid Linker for Supercapacitors. Advanced Functional Materials, 2014, 24, 7301-7309.	14.9	107
31	Atomic-Level Understanding toward a High-Capacity and High-Power Silicon Oxide (SiO) Material. Journal of Physical Chemistry C, 2016, 120, 886-892.	3.1	105
32	Direct electrochemistry of cytochrome c immobilized on titanium nitride/multi-walled carbon nanotube composite for amperometric nitrite biosensor. Biosensors and Bioelectronics, 2016, 79, 543-552.	10.1	100
33	A facile and efficient strategy for the preparation of stable CaMoO <sub>4</sub> spherulites using ammonium molybdate as a molybdenum source and their excitation induced tunable luminescent properties for optical applications. Journal of Materials Chemistry, 2012, 22, 15562.	6.7	97
34	Photoluminescent carbon nanotags from harmful cyanobacteria for drug delivery and imaging in cancer cells. Scientific Reports, 2014, 4, 4665.	3.3	93
35	The influence of sintering temperature on the photoluminescence properties of oxyapatite Eu <sup>3+</sup> :Ca <sub>2</sub> Gd <sub>8</sub> Si <sub>6</sub> O <sub>26</sub> nanophosphors. Sensors and Actuators B: Chemical, 2010, 146, 395-402.	7.8	91
36	Heteroassembled gold nanoparticles with sandwich-immunoassay LSPR chip format for rapid and sensitive detection of hepatitis B virus surface antigen (HBsAg). Biosensors and Bioelectronics, 2018, 107, 118-122.	10.1	91

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37	Porous Covalent Triazine Polymer as a Potential Nanocargo for Cancer Therapy and Imaging. ACS Applied Materials & Interfaces, 2016, 8, 8947-8955.	8.0	87
38	Rational design of forest-like nickel sulfide hierarchical architectures with ultrahigh areal capacity as a binder-free cathode material for hybrid supercapacitors. Journal of Materials Chemistry A, 2018, 6, 13178-13190.	10.3	82
39	Important Role of Functional Groups for Sodium Ion Intercalation in Expanded Graphite. Chemistry of Materials, 2015, 27, 5402-5406.	6.7	79
40	Concentration and penetration depth dependent tunable emissions from Eu <sup>3+</sup> -co-doped SrY <sub>2</sub> O <sub>4</sub> :Dy <sup>3+</sup> nanocrystalline phosphor. New Journal of Chemistry, 2014, 38, 163-169.	2.8	77
41	Fluoropropane sultone as an SEI-forming additive that outperforms vinylene carbonate. Journal of Materials Chemistry A, 2013, 1, 11975.	10.3	76
42	Metal-organic framework derived nanoporous carbon/Co <sub>3</sub> O <sub>4</sub> composite electrode as a sensing platform for the determination of glucose and high-performance supercapacitor. Carbon, 2018, 127, 366-373.	10.3	76
43	Enabling redox chemistry with hierarchically designed bilayered nanoarchitectures for pouch-type hybrid supercapacitors: A sunlight-driven rechargeable energy storage system to portable electronics. Nano Energy, 2018, 50, 448-461.	16.0	75
44	Novel rare-earth-free yellow Ca <sub>5</sub> Zn <sub>3.92</sub> In <sub>0.08</sub> (VO <sub>0.99</sub> Ta <sub>0.01</sub> O <sub>4</sub> ) <sub>6</sub> phosphors for dazzling white light-emitting diodes. Scientific Reports, 2015, 5, 10296.	3.3	73
45	Cointercalation of Mg <sup>2+</sup> Ions into Graphite for Magnesium-Ion Batteries. Chemistry of Materials, 2018, 30, 3199-3203.	6.7	71
46	Multifunctional N-P-doped carbon dots for regulation of apoptosis and autophagy in B16F10 melanoma cancer cells and <i>in vitro</i> imaging applications. Theranostics, 2020, 10, 7841-7856.	10.0	70
47	Luminescence properties of Dy <sup>3+</sup> :GdAlO <sub>3</sub> nanopowder phosphors. Current Applied Physics, 2009, 9, e92-e95.	2.4	69
48	Evolution of CaGd <sub>2</sub> ZnO <sub>5</sub> :Eu <sup>3+</sup> nanostructures for rapid visualization of latent fingerprints. Journal of Materials Chemistry C, 2017, 5, 4246-4256.	5.5	69
49	Anisotropic Surface Modulation of Pt Catalysts for Highly Reversible Li <sup>+</sup> O <sub>2</sub> Batteries: High Index Facet as a Critical Descriptor. ACS Catalysis, 2018, 8, 9006-9015.	11.2	68
50	Pechini synthesis of lanthanide (Eu <sup>3+</sup> /Tb <sup>3+</sup> or Dy <sup>3+</sup> ) ions activated BaGd <sub>2</sub> O <sub>4</sub> nanostructured phosphors: an approach for tunable emissions. Physical Chemistry Chemical Physics, 2014, 16, 18124.	2.8	67
51	Fabrication of nano TiO <sub>2</sub> @graphene composite: Reusable photocatalyst for hydrogen production, degradation of organic and inorganic pollutants. Synthetic Metals, 2014, 198, 10-18.	3.9	66
52	Wound healing potential of antibacterial microneedles loaded with green tea extracts. Materials Science and Engineering C, 2014, 42, 757-762.	7.3	65
53	Reproductive toxic potential of phthalate compounds â€“ State of art review. Pharmacological Research, 2021, 167, 105536.	7.1	65
54	Current Demands for Food-Approved Liposome Nanoparticles in Food and Safety Sector. Frontiers in Microbiology, 2017, 8, 2398.	3.5	64

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55	Microfluidic-based graphene field effect transistor for femtomolar detection of chlorpyrifos. <i>Scientific Reports</i> , 2019, 9, 276.	3.3	64
56	Folate-conjugated nanovehicles: Strategies for cancer therapy. <i>Materials Science and Engineering C</i> , 2020, 107, 110341.	7.3	64
57	Nanoscale zero-valent iron (nZVI) synthesis in a Mg-aminoclay solution exhibits increased stability and reactivity for reductive decontamination. <i>Applied Catalysis B: Environmental</i> , 2014, 147, 748-755.	20.2	63
58	Eu <sup>3+</sup> ion concentration induced 3D luminescence properties of novel red-emitting Ba <sub>4</sub> La <sub>6</sub> (SiO <sub>4</sub> ) <sub>4</sub> O:Eu <sup>3+</sup> oxyapatite phosphors for versatile applications. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1039-1050.	5.5	63
59	Development of Lateral Flow Assay Based on Size-Controlled Gold Nanoparticles for Detection of Hepatitis B Surface Antigen. <i>Sensors</i> , 2016, 16, 2154.	3.8	61
60	Hybridized 1Dâ€“2D MnMoO <sub>4</sub> â€“MXene nanocomposites as high-performing electrochemical sensing platform for the sensitive detection of dihydroxybenzene isomers in wastewater samples. <i>Journal of Hazardous Materials</i> , 2022, 421, 126775.	12.4	61
61	Curcumin-Conjugated Gold Clusters for Bioimaging and Anticancer Applications. <i>Bioconjugate Chemistry</i> , 2018, 29, 363-370.	3.6	60
62	Revisiting the plant growth-promoting rhizobacteria: lessons from the past and objectives for the future. <i>Archives of Microbiology</i> , 2020, 202, 665-676.	2.2	60
63	Engineered nanoparticles for imaging and drug delivery in colorectal cancer. <i>Seminars in Cancer Biology</i> , 2021, 69, 293-306.	9.6	60
64	Removal of Radioactive Cesium Using Prussian Blue Magnetic Nanoparticles. <i>Nanomaterials</i> , 2014, 4, 894-901.	4.1	59
65	Emission analysis of Sm <sup>3+</sup> and Dy <sup>3+</sup> :MgLaLiSi <sub>2</sub> O <sub>7</sub> powder phosphors. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 70, 601-605.	3.9	58
66	Aminoclay-templated nanoscale zero-valent iron (nZVI) synthesis for efficient harvesting of oleaginous microalga, <i>Chlorella</i> sp. KR-1. <i>RSC Advances</i> , 2014, 4, 4122-4127.	3.6	58
67	Three-Dimensional Expanded Grapheneâ€“Metal Oxide Film via Solid-State Microwave Irradiation for Aqueous Asymmetric Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 22364-22371.	8.0	58
68	Pseudocapacitive slurry electrodes using redox-active quinone for high-performance flow capacitors: an atomic-level understanding of pore texture and capacitance enhancement. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23323-23332.	10.3	58
69	Recovery of Lithium Ions from Seawater Using a Continuous Flow Adsorption Column Packed with Granulated Chitosanâ€“Lithium Manganese Oxide. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 7218-7225.	3.7	58
70	Fabrication of Palladium Nanoparticles on Porous Aromatic Frameworks as a Sensing Platform to Detect Vanillin. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 12740-12747.	8.0	57
71	Designed construction of yolkâ€“shell structured trimanganese tetraoxide nanospheres via polar solvent-assisted etching and biomass-derived activated porous carbon materials for high-performance asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15808-15821.	10.3	57
72	Pdâ€“Cu nanospheres supported on Mo <sub>2</sub> C for the electrochemical sensing of nitrites. <i>Journal of Hazardous Materials</i> , 2021, 408, 124914.	12.4	57

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73	Salt-templated three-dimensional porous carbon for electrochemical determination of gallic acid. <i>Biosensors and Bioelectronics</i> , 2018, 117, 597-604.	10.1	56
74	A Sustainable Graphene Aerogel Capable of the Adsorptive Elimination of Biogenic Amines and Bacteria from Soy Sauce and Highly Efficient Cell Proliferation. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 43949-43963.	8.0	55
75	Epitaxial Single-Crystal Growth of Transition Metal Dichalcogenide Monolayers via the Atomic Sawtooth Au Surface. <i>Advanced Materials</i> , 2021, 33, e2006601.	21.0	55
76	Synthesis and luminescent properties of novel red-emitting CaGd <sub>4</sub> O <sub>7</sub> : Eu <sup>3+</sup> nanocrystalline phosphors. <i>Journal of Alloys and Compounds</i> , 2013, 553, 291-298.	5.5	54
77	Fabrication of 3D honeycomb-like porous polyurethane-functionalized reduced graphene oxide for detection of dopamine. <i>Biosensors and Bioelectronics</i> , 2016, 86, 122-128.	10.1	54
78	Developments of Cyanobacteria for Nano-Marine Drugs: Relevance of Nanoformulations in Cancer Therapies. <i>Marine Drugs</i> , 2018, 16, 179.	4.6	54
79	Sustainable Graphene Aerogel as an Ecofriendly Cell Growth Promoter and Highly Efficient Adsorbent for Histamine from Red Wine. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 18165-18177.	8.0	54
80	Photoluminescence and Cathodoluminescence Properties of Nanocrystalline Ca <sub>2</sub> Gd <sub>8</sub> Si <sub>6</sub> O <sub>26</sub> : Sm <sup>3+</sup> . <i>Journal of the American Ceramic Society</i> , 2012, 95, 238-242.	3.8	53
81	Red and green colors emitting spherical-shaped calcium molybdate nanophosphors for enhanced latent fingerprint detection. <i>Scientific Reports</i> , 2017, 7, 11571.	3.3	53
82	One-pot gamma ray-induced green synthesis of a Prussian blue-laden polyvinylpyrrolidone/reduced graphene oxide aerogel for the removal of hazardous pollutants. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1737-1748.	10.3	53
83	Blue and green emissions with high color purity from nanocrystalline Ca <sub>2</sub> Gd <sub>8</sub> Si <sub>6</sub> O <sub>26</sub> :Ln (Ln = Tm or Tj). <i>Journal of Materials Chemistry C</i> , 2014, 2, 10784-10792.	3.5	52
84	Facile template free synthesis of Gd <sub>2</sub> O(CO <sub>3</sub> ) <sub>2</sub> ·H <sub>2</sub> O chrysanthemum-like nanoflowers and luminescence properties of corresponding Gd <sub>2</sub> O <sub>3</sub> :RE <sup>3+</sup> spheres. <i>Dalton Transactions</i> , 2013, 42, 11400.	3.3	52
85	Tris(trimethylsilyl) Phosphite as an Efficient Electrolyte Additive To Improve the Surface Stability of Graphite Anodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 32851-32858.	8.0	52
86	Ultrasound-assisted heterogeneous degradation of tetracycline over flower-like rGO/CdWO <sub>4</sub> hierarchical structures as robust solar-light-responsive photocatalysts: Optimization, kinetics, and mechanism. <i>Applied Surface Science</i> , 2019, 489, 110-122.	6.1	52
87	Solvothermal synthesis and luminescence properties of Tb <sup>3+</sup> -doped gadolinium aluminum garnet. <i>Journal of Luminescence</i> , 2010, 130, 478-482.	3.1	51
88	Oil extraction by aminoparticle-based H <sub>2</sub> O <sub>2</sub> activation via wet microalgae harvesting. <i>RSC Advances</i> , 2013, 3, 12802.	3.6	51
89	5V-class high-voltage batteries with over-lithiated oxide and a multi-functional additive. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6157-6167.	10.3	51
90	An ultrasensitive electrochemical sensing platform for rapid detection of rutin with a hybridized 2D-1D MXene-FeWO <sub>4</sub> nanocomposite. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130202.	7.8	51

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91	Excitation induced efficient luminescent properties of nanocrystalline Tb <sup>3+</sup> /Sm <sup>3+</sup> :Ca <sub>2</sub> Gd <sub>8</sub> Si <sub>6</sub> O <sub>26</sub> phosphors. Journal of Materials Chemistry, 2011, 21, 6136.	6.7	50
92	Free-standing heterogeneous hybrid papers based on mesoporous $\gamma$ -MnO <sub>2</sub> particles and carbon nanotubes for lithium-ion battery anodes. Journal of Power Sources, 2013, 244, 747-751.	7.8	50
93	Synthesis and luminescent properties of low concentration Dy <sup>3+</sup> :GAP nanophosphors. Optical Materials, 2009, 31, 1210-1214.	3.6	49
94	All-redox solid-state supercapacitor with cobalt manganese oxide@bimetallic hydroxides and vanadium nitride@nitrogen-doped carbon electrodes. Chemical Engineering Journal, 2021, 405, 127029.	12.7	49
95	Improved conductivity of flower-like MnWO <sub>4</sub> on defect engineered graphitic carbon nitride as an efficient electrocatalyst for ultrasensitive sensing of chloramphenicol. Journal of Hazardous Materials, 2020, 399, 122868.	12.4	49
96	All Transition Metal Selenide Composed High-Energy Solid-State Hybrid Supercapacitor. Small, 2022, 18, e2200248.	10.0	49
97	Emission analysis of Tb <sup>3+</sup> :MgAl <sub>2</sub> O <sub>4</sub> powder phosphor. Journal of Physics and Chemistry of Solids, 2008, 69, 2066-2069.	4.0	48
98	Versatile properties of Ca <sub>2</sub> ZnO <sub>5</sub> :Eu <sup>3+</sup> nanophosphor: its compatibility for lighting and optical display applications. Dalton Transactions, 2015, 44, 1790-1799.	3.3	48
99	Bioreceptor-free, sensitive and rapid electrochemical detection of patulin fungal toxin, using a reduced graphene oxide@SnO <sub>2</sub> nanocomposite. Materials Science and Engineering C, 2020, 113, 110916.	7.3	48
100	Synthesis and luminescent properties of Dy <sup>3+</sup> :GAG nanophosphors. Journal of Alloys and Compounds, 2009, 481, 730-734.	5.5	47
101	Efficient electron-mediated electrochemical biosensor of gold wire for the rapid detection of C-reactive protein: A predictive strategy for heart failure. Biosensors and Bioelectronics, 2019, 142, 111549.	10.1	47
102	White light emission from Eu <sup>3+</sup> co-activated Ca <sub>2</sub> Gd <sub>8</sub> Si <sub>6</sub> O <sub>26</sub> :Dy <sup>3+</sup> nanophosphors by solvothermal synthesis. Ceramics International, 2013, 39, 6319-6324.	4.8	46
103	Layer-Structured POSS-Modified Fe-Aminoclay/Carboxymethyl Cellulose Composite as a Superior Adsorbent for the Removal of Radioactive Cesium and Cationic Dyes. Industrial & Engineering Chemistry Research, 2018, 57, 13731-13741.	3.7	46
104	Recent advances in molybdenum disulfide-based electrode materials for electroanalytical applications. Mikrochimica Acta, 2019, 186, 203.	5.0	46
105	Formation of Ca <sub>2</sub> Gd <sub>8</sub> (SiO <sub>4</sub> ) <sub>6</sub> O <sub>2</sub> Nanorod Bundles Based on Crystal Splitting by Mixed Solvothermal and Hydrothermal Reaction Methods. Crystal Growth and Design, 2012, 12, 960-969.	3.0	45
106	Attenuation of inflammatory responses by (+)-syringaresinol via MAP-Kinase-mediated suppression of NF- $\kappa$ B signaling in vitro and in vivo. Scientific Reports, 2018, 8, 9216.	3.3	45
107	An aqueous high-performance hybrid supercapacitor with MXene and polyoxometalates electrodes. Chemical Engineering Journal, 2022, 427, 131854.	12.7	45
108	A biocompatible implant electrode capable of operating in body fluids for energy storage devices. Nano Energy, 2017, 34, 86-92.	16.0	44

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109	Evolution of highly efficient rare-earth free Cs <sub>(1-x)</sub> Rb <sub>x</sub> VO <sub>3</sub> phosphors as a single emitting component for NUV-based white LEDs. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12746-12757.	5.5	44
110	The effect of biogenic manufactured silver nanoparticles on human endothelial cells and zebrafish model. <i>Science of the Total Environment</i> , 2019, 679, 365-377.	8.0	44
111	Silver grass-derived activated carbon with coexisting micro-, meso- and macropores as excellent bioanodes for microbial colonization and power generation in sustainable microbial fuel cells. <i>Bioresource Technology</i> , 2020, 300, 122646.	9.6	44
112	Hierarchical N-doped TiO <sub>2</sub> @Bi <sub>2</sub> W <sub>x</sub> Mo <sub>1-x</sub> O <sub>6</sub> core-shell nanofibers for boosting visible-light-driven photocatalytic and photoelectrochemical activities. <i>Journal of Hazardous Materials</i> , 2020, 391, 122249.	12.4	44
113	Synthesis and luminescent characteristics of yellow emitting GdSr <sub>2</sub> AlO <sub>5</sub> :Ce <sup>3+</sup> phosphor for blue light based white LED. <i>Ceramics International</i> , 2014, 40, 5693-5698.	4.8	43
114	Electrochemical coupled immunosensing platform based on graphene oxide/gold nanocomposite for sensitive detection of Cronobacter sakazakii in powdered infant formula. <i>Biosensors and Bioelectronics</i> , 2018, 109, 139-149.	10.1	43
115	Probiotic Lactobacillus sakei proBio-65 Extract Ameliorates the Severity of Imiquimod Induced Psoriasis-Like Skin Inflammation in a Mouse Model. <i>Frontiers in Microbiology</i> , 2018, 9, 1021.	3.5	43
116	Antioxidant and antimicrobial efficacy of a biflavonoid, amentoflavone from Nandina domestica in vitro and in minced chicken meat and apple juice food models. <i>Food Chemistry</i> , 2019, 271, 239-247.	8.2	43
117	Molybdenum Nitride Nanocrystals Anchored on Phosphorus-Incorporated Carbon Fabric as a Negative Electrode for High-Performance Asymmetric Pseudocapacitor. <i>IScience</i> , 2019, 16, 50-62.	4.1	43
118	Two-Dimensional Materials for High-Energy Solid-State Asymmetric Pseudocapacitors with High Mass Loadings. <i>ChemSusChem</i> , 2020, 13, 1582-1592.	6.8	43
119	Gd <sup>3+</sup> Sensitization Effect on the Luminescence Properties of Tb <sup>3+</sup> Activated Calcium Gadolinium Oxyapatite Nanophosphors. <i>Journal of the Electrochemical Society</i> , 2011, 158, J20.	2.9	42
120	The origin of excellent rate and cycle performance of Sn <sub>4</sub> P <sub>3</sub> binary electrodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1772-1779.	10.3	42
121	An efficient far-red emitting Ba <sub>2</sub> LaNbO <sub>6</sub> :Mn <sup>4+</sup> nanophosphor for forensic latent fingerprint detection and horticulture lighting applications. <i>Ceramics International</i> , 2020, 46, 9802-9809.	4.8	42
122	Enhanced green emission from Tb <sup>3+</sup> :Bi <sup>3+</sup> co-doped GdAlO <sub>3</sub> nanophosphors. <i>Materials Research Bulletin</i> , 2010, 45, 572-575.	5.2	41
123	Construction of 2D/2D/2D rGO/p-C <sub>3</sub> N <sub>4</sub> /Cu <sub>3</sub> Mo <sub>2</sub> O <sub>9</sub> heterostructure as an efficient catalytic platform for cascade photo-degradation and photoelectrochemical activity. <i>Applied Surface Science</i> , 2020, 511, 145469.	6.1	41
124	Alginate Microencapsulation for Three-Dimensional In Vitro Cell Culture. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 2864-2879.	5.2	41
125	One-pot facile synthesis and electrochemical evaluation of selenium enriched cobalt selenide nanotube for supercapacitor application. <i>Ceramics International</i> , 2021, 47, 15293-15306.	4.8	41
126	Immobilization of myoglobin on Au nanoparticle-decorated carbon nanotube/polytyramine composite as a mediator-free H <sub>2</sub> O <sub>2</sub> and nitrite biosensor. <i>Scientific Reports</i> , 2015, 5, 18390.	3.3	40



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127	Synergistically strengthened 3D micro-scavenger cage adsorbent for selective removal of radioactive cesium. <i>Scientific Reports</i> , 2016, 6, 38384.	3.3	40
128	Synthesis and characterizations of novel Sr <sub>2</sub> Gd <sub>8</sub> (SiO <sub>4</sub> ) <sub>6</sub> O <sub>2</sub> :Eu <sup>3+</sup> oxyapatite phosphors for solid-state lighting and display applications. <i>Journal of Alloys and Compounds</i> , 2016, 660, 437-445.	5.5	40
129	Ternary PtRuFe nanoparticles supported N-doped graphene as an efficient bifunctional catalyst for methanol oxidation and oxygen reduction reactions. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 30738-30749.	7.1	40
130	Iron oxide (Fe <sub>3</sub> O <sub>4</sub> )-laden titanium carbide (Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> ) MXene stacks for the efficient sequestration of cationic dyes from aqueous solution. <i>Chemosphere</i> , 2022, 286, 131679.	8.2	40
131	La(OH) <sub>3</sub> :Eu <sup>3+</sup> and La <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> nanorod bundles: growth mechanism and luminescence properties. <i>CrystEngComm</i> , 2015, 17, 9431-9442.	2.6	39
132	Tunable luminescence and energy transfer process between Tb <sup>3+</sup> and Eu <sup>3+</sup> in GYAG:Bi <sup>3+</sup> , Tb <sup>3+</sup> , Eu <sup>3+</sup> phosphors. <i>Solid State Sciences</i> , 2010, 12, 719-724.	3.2	38
133	UV-A and UV-B excitation region broadened novel green color-emitting CaGd <sub>2</sub> ZnO <sub>5</sub> :Tb <sup>3+</sup> nanophosphors. <i>RSC Advances</i> , 2015, 5, 22217-22223.	3.6	38
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136	Potentiodynamic polarization assisted phosphorus-containing amorphous trimetal hydroxide nanofibers for highly efficient hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5721-5733.	10.3	38
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140	Dual-functional micro-adsorbents: Application for simultaneous adsorption of cesium and strontium. <i>Chemosphere</i> , 2021, 263, 128266.	8.2	37
141	Fluorine Engineered Self-Supported Ultrathin 2D Nickel Hydroxide Nanosheets as Highly Robust and Stable Bifunctional Electrocatalysts for Oxygen Evolution and Urea Oxidation Reactions. <i>Small</i> , 2022, 18, e2103326.	10.0	37
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143	Highly photocatalytic performance of flexible 3 dimensional (3D) ZnO nanocomposite. <i>Applied Catalysis B: Environmental</i> , 2014, 144, 83-89.	20.2	36
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148	Affinity Peptide-guided Plasmonic Biosensor for Detection of Noroviral Protein and Human Norovirus. <i>Biotechnology and Bioprocess Engineering</i> , 2019, 24, 318-325.	2.6	35
149	Fabrication of CsPbBr <sub>3</sub> Perovskite Quantum Dots/Cellulose-Based Colorimetric Sensor: Dual-Responsive On-Site Detection of Chloride and Iodide Ions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 793-801.	3.7	35
150	Imaging and curcumin delivery in pancreatic cancer cell lines using PEGylated $\text{Eu}^{2+}$ -(MoO <sub>4</sub> ) <sub>3</sub> mesoporous particles. <i>Dalton Transactions</i> , 2014, 43, 3330-3338.	3.3	34
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164	Glassy carbon electrode modified with poly(methyl orange) as an electrochemical platform for the determination of 4-nitrophenol at nanomolar levels. <i>Current Applied Physics</i> , 2017, 17, 1114-1119.	2.4	31
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