Xiaobo Chen

List of Publications by Year
in descending order

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145 papers	46,047 citations	14655 66 h-index	8396 147 g-index
149 all docs	149 docs citations	149 times ranked	37562 citing authors

#	Article	IF	Citations
1	Titanium Dioxide Nanomaterials:â€‰ Synthesis, Properties, Modifications, and Applications. Chemical Reviews, 2007, 107, 2891-2959.	47.7	9,393
2	Semiconductor-based Photocatalytic Hydrogen Generation. Chemical Reviews, 2010, 110, 6503-6570.	47.7	6,836
3	Increasing Solar Absorption for Photocatalysis with Black Hydrogenated Titanium Dioxide Nanocrystals. Science, 2011, 331, 746-750.	12.6	5,359
4	A review on g-C 3 N 4 -based photocatalysts. Applied Surface Science, 2017, 391, 72-123.	6.1	2,318
5	Titanium Dioxide-Based Nanomaterials for Photocatalytic Fuel Generations. Chemical Reviews, 2014, 114, 9987-10043.	47.7	2,096
6	Engineering heterogeneous semiconductors for solar water splitting. Journal of Materials Chemistry A, 2015, 3, 2485-2534.	10.3	1,609
7	Cocatalysts for Selective Photoreduction of CO₂into Solar Fuels. Chemical Reviews, 2019, 119, 3962-4179.	47.7	1,591
8	Enhanced Nitrogen Doping in TiO2 Nanoparticles. Nano Letters, 2003, 3, 1049-1051.	9.1	1,199
9	Black titanium dioxide (TiO₂) nanomaterials. Chemical Society Reviews, 2015, 44, 1861-1885.	38.1	1,148
10	The Electronic Origin of the Visible-Light Absorption Properties of C-, N- and S-Doped TiO₂ Nanomaterials. Journal of the American Chemical Society, 2008, 130, 5018-5019.	13.7	1,119
11	Nanomaterials for renewable energy production and storage. Chemical Society Reviews, 2012, 41, 7909.	38.1	856
12	Photoelectron Spectroscopic Investigation of Nitrogen-Doped Titania Nanoparticles. Journal of Physical Chemistry B, 2004, 108, 15446-15449.	2.6	625
13	Hydrogenated TiO₂ Nanocrystals: A Novel Microwave Absorbing Material. Advanced Materials, 2013, 25, 6905-6910.	21.0	507
14	Three-Dimensional Crystalline/Amorphous Co/Co₃O₄ Core/Shell Nanosheets as Efficient Electrocatalysts for the Hydrogen Evolution Reaction. Nano Letters, 2015, 15, 6015-6021.	9.1	485
15	Titanium Dioxide Nanomaterials: Self-Structural Modifications. Chemical Reviews, 2014, 114, 9890-9918.	47.7	447
16	Graphene-based heterojunction photocatalysts. Applied Surface Science, 2018, 430, 53-107.	6.1	386
17	Introduction: Titanium Dioxide (TiO₂) Nanomaterials. Chemical Reviews, 2014, 114, 9281-9282.	47.7	370
18	Constructing Multifunctional Metallic Ni Interface Layers in the g-C₃N₄ Nanosheets/Amorphous NiS Heterojunctions for Efficient Photocatalytic H₂ Generation. ACS Applied Materials & Interfaces, 2017, 9, 14031-14042.	8.0	319

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19	Recent progress of nanomaterials for microwave absorption. Journal of Materiomics, 2019, 5, 503-541.	5.7	318
20	Properties of Disorder-Engineered Black Titanium Dioxide Nanoparticles through Hydrogenation. Scientific Reports, 2013, 3, 1510.	3.3	317
21	Phosphorus-Doped Graphitic Carbon Nitride Nanotubes with Amino-rich Surface for Efficient CO₂ Capture, Enhanced Photocatalytic Activity, and Product Selectivity. ACS Applied Materials & Interfaces, 2018, 10, 4001-4009.	8.0	311
22	Crystalline/amorphous Ni/NiO core/shell nanosheets as highly active electrocatalysts for hydrogen evolution reaction. Journal of Power Sources, 2015, 300, 336-343.	7.8	251
23	Noble-metal-free Ni3C cocatalysts decorated CdS nanosheets for high-efficiency visible-light-driven photocatalytic H2 evolution. Applied Catalysis B: Environmental, 2018, 227, 218-228.	20.2	248
24	Bifunctional Cu₃P Decorated g-C₃N₄ Nanosheets as a Highly Active and Robust Visible-Light Photocatalyst for H₂ Production. ACS Sustainable Chemistry and Engineering, 2018, 6, 4026-4036.	6.7	243
25	Multi-functional Ni₃C cocatalyst/g-C₃N₄ nanoheterojunctions for robust photocatalytic H₂ evolution under visible light. Journal of Materials Chemistry A, 2018, 6, 13110-13122.	10.3	241
26	Ni-based photocatalytic H2-production cocatalysts2. Chinese Journal of Catalysis, 2019, 40, 240-288.	14.0	239
27	Fabricating the Robust g-C₃N₄ Nanosheets/Carbons/NiS Multiple Heterojunctions for Enhanced Photocatalytic H₂ Generation: An Insight into the Trifunctional Roles of Nanocarbons. ACS Sustainable Chemistry and Engineering, 2017, 5, 2224-2236.	6.7	214
28	Enhanced Solar Fuel H₂ Generation over g-C₃N₄ Nanosheet Photocatalysts by the Synergetic Effect of Noble Metal-Free Co₂P Cocatalyst and the Environmental Phosphorylation Strategy. ACS Sustainable Chemistry and Engineering, 2018, 6, 816-826.	6.7	201
29	Hydrogenation and Disorder in Engineered Black<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>TiO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2013, 111, 065505.	7.8	199
30	Electrochemical Activity of Iron Phosphide Nanoparticles in Hydrogen Evolution Reaction. ACS Catalysis, 2016, 6, 5441-5448.	11.2	197
31	Coherency Strain Effects on the Optical Response of Core/Shell Heteronanostructures. Nano Letters, 2003, 3, 799-803.	9.1	194
32	Engineering MPx (Mâ€‰=â€‰Fe, Co or Ni) interface electron transfer channels for boosting photocatalytic H2 evolution over g-C3N4/MoS2 layered heterojunctions. Applied Catalysis B: Environmental, 2019, 252, 250-259.	20.2	188
33	Synthesis of Titanium Dioxide (TiO₂) Nanomaterials. Journal of Nanoscience and Nanotechnology, 2006, 6, 906-925.	0.9	173
34	Revealing the structural properties of hydrogenated black TiO2 nanocrystals. Journal of Materials Chemistry A, 2013, 1, 2983.	10.3	172
35	A Facile Method to Improve the Photocatalytic and Lithiumâ€ion Rechargeable Battery Performance of TiO₂ Nanocrystals. Advanced Energy Materials, 2013, 3, 1516-1523.	19.5	166
36	Vacuum-treated titanium dioxide nanocrystals: Optical properties, surface disorder, oxygen vacancy, and photocatalytic activities. Catalysis Today, 2014, 225, 2-9.	4.4	162

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37	Bismuth nanodendrites as a high performance electrocatalyst for selective conversion of CO₂to formate. Journal of Materials Chemistry A, 2016, 4, 13746-13753.	10.3	160
38	Synthesis and photoactivity of nanostructured CdSâ€“TiO2 composite catalysts. Catalysis Today, 2014, 225, 64-73.	4.4	159
39	Asymmetric Lattice Vibrational Characteristics of Rutile TiO₂ as Revealed by Laser Power Dependent Raman Spectroscopy. Journal of Physical Chemistry C, 2013, 117, 24015-24022.	3.1	155
40	From Water Oxidation to Reduction: Transformation from Ni_xCo_{3â€“x}O₄ Nanowires to NiCo/NiCoO_x Heterostructures. ACS Applied Materials & Interfaces, 2016, 8, 3208-3214.	8.0	143
41	Graphene-Embedded Co₃O₄ Rose-Spheres for Enhanced Performance in Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 9662-9668.	8.0	133
42	Low-Cost Ni₃B/Ni(OH)₂ as an Ecofriendly Hybrid Cocatalyst for Remarkably Boosting Photocatalytic H₂ Production over g-C₃N₄ Nanosheets. ACS Sustainable Chemistry and Engineering, 2018, 6, 13140-13150.	6.7	131
43	Emerging Photocatalysts for Hydrogen Evolution. Trends in Chemistry, 2020, 2, 57-70.	8.5	131
44	Earth-abundant WC nanoparticles as an active noble-metal-free co-catalyst for the highly boosted photocatalytic H₂ production over g-C₃N₄ nanosheets under visible light. Catalysis Science and Technology, 2017, 7, 1193-1202.	4.1	114
45	Doped, conductive SiO2 nanoparticles for large microwave absorption. Light: Science and Applications, 2018, 7, 87.	16.6	114
46	Investigation of the Crystallization Process in 2 nm CdSe Quantum Dots. Journal of the American Chemical Society, 2005, 127, 4372-4375.	13.7	112
47	Effect of hydrogenation on the microwave absorption properties of BaTiO₃ nanoparticles. Journal of Materials Chemistry A, 2015, 3, 12550-12556.	10.3	108
48	Facile Synthesis of ZnS/N,S Co-doped Carbon Composite from Zinc Metal Complex for High-Performance Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 704-712.	8.0	108
49	Copper Sulfide-Based Plasmonic Photothermal Membrane for High-Efficiency Solar Vapor Generation. ACS Applied Materials & Interfaces, 2018, 10, 35154-35163.	8.0	107
50	Strong Microwave Absorption of Hydrogenated Wide Bandgap Semiconductor Nanoparticles. ACS Applied Materials & Interfaces, 2015, 7, 10407-10413.	8.0	104
51	Ultrathin tungsten oxide nanowires: oleylamine assisted nonhydrolytic growth, oxygen vacancies and good photocatalytic properties. RSC Advances, 2015, 5, 77423-77428.	3.6	96
52	n/n junctioned g-C₃N₄ for enhanced photocatalytic H₂ generation. Sustainable Energy and Fuels, 2017, 1, 317-323.	4.9	96
53	Carbon Nanotube-Supported Cu₃P as High-Efficiency and Low-Cost Cocatalysts for Exceptional Semiconductor-Free Photocatalytic H₂ Evolution. ACS Sustainable Chemistry and Engineering, 2019, 7, 3243-3250.	6.7	96
54	Hydrogenated surface disorder enhances lithium ion battery performance. Nano Energy, 2013, 2, 826-835.	16.0	95

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55	Evaluation of the photoinduced electron relaxation dynamics of Cu1.8S quantum dots. Physical Chemistry Chemical Physics, 2003, 5, 1091-1095.	2.8	94
56	Bridging the g-C₃N₄ Nanosheets and Robust CuS Cocatalysts by Metallic Acetylene Black Interface Mediators for Active and Durable Photocatalytic H₂ Production. ACS Applied Energy Materials, 2018, 1, 2232-2241.	5.1	88
57	Partially amorphized MnMoO₄for highly efficient energy storage and the hydrogen evolution reaction. Journal of Materials Chemistry A, 2016, 4, 3683-3688.	10.3	86
58	Construction of a multi-interfacial-electron transfer scheme for efficient CO₂ photoreduction: a case study using CdIn₂S₄ micro-flower spheres modified with Au nanoparticles and reduced graphene oxide. Journal of Materials Chemistry A, 2020, 8, 18707-18714.	10.3	86
59	Synthesis of porous ZnS, ZnO and ZnS/ZnO nanosheets and their photocatalytic properties. RSC Advances, 2017, 7, 30956-30962.	3.6	85
60	FeNi₃/NiFeO_x Nanohybrids as Highly Efficient Bifunctional Electrocatalysts for Overall Water Splitting. Advanced Materials Interfaces, 2016, 3, 1600368.	3.7	84
61	Hydrogenated black ZnO nanoparticles with enhanced photocatalytic performance. RSC Advances, 2014, 4, 41654-41658.	3.6	81
62	Doped Semiconductor Nanomaterials. Journal of Nanoscience and Nanotechnology, 2005, 5, 1408-1420.	0.9	79
63	TiO₂ Nanomaterials as Anode Materials for Lithiumâ€ion Rechargeable Batteries. Energy Technology, 2015, 3, 801-814.	3.8	79
64	Enhancing microwave absorption of TiO₂ nanocrystals via hydrogenation. Journal of Materials Research, 2014, 29, 2198-2210.	2.6	78
65	FeP nanoparticles: a new material for microwave absorption. Materials Chemistry Frontiers, 2018, 2, 1119-1125.	5.9	78
66	SnS₂ Nanosheets/Hâ€TiO₂ Nanotube Arrays as a Typeâ€…II Heterojunctioned Photoanode for Photoelectrochemical Water Splitting. ChemSusChem, 2019, 12, 961-967.	6.8	78
67	Recent progress of nanostructured interfacial solar vapor generators. Applied Materials Today, 2019, 17, 45-84.	4.3	70
68	Broad range energy absorption enabled by hydrogenated TiO₂ nanosheets: from optical to infrared and microwave. Journal of Materials Chemistry C, 2017, 5, 4645-4653.	5.5	64
69	Plasmonic Cu₉S₅ Nanonets for Microwave Absorption. ACS Applied Nano Materials, 2019, 2, 3836-3847.	5.0	64
70	Broadband antireflective and superhydrophobic coatings for solar cells. Materials Today Energy, 2019, 12, 348-355.	4.7	62
71	Evidence of direct Z-scheme g-C3N4/WS2 nanocomposite under interfacial coupling: First-principles study. Journal of Alloys and Compounds, 2019, 788, 1-9.	5.5	62
72	Microwave absorption of magnesium/hydrogen-treated titanium dioxide nanoparticles. Nano Materials Science, 2019, 1, 48-59.	8.8	61

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73	CuS nanoflowers/semipermeable collodion membrane composite for high-efficiency solar vapor generation. Materials Today Energy, 2018, 9, 285-294.	4.7	60
74	One-pot, large-scale, simple synthesis of Co_xP nanocatalysts for electrochemical hydrogen evolution. Journal of Materials Chemistry A, 2016, 4, 13011-13016.	10.3	59
75	Co2P nanoparticles for microwave absorption. Materials Today Nano, 2018, 1, 1-7.	4.6	57
76	Photoexcited Charge Transport and Accumulation in Anatase TiO₂. ACS Applied Energy Materials, 2018, 1, 4313-4320.	5.1	56
77	Microwave absorption of aluminum/hydrogen treated titanium dioxide nanoparticles. Journal of Materiomics, 2019, 5, 133-146.	5.7	55
78	Graphitic-C₃N₄ nanosheets: synergistic effects of hydrogenation and n/n junctions for enhanced photocatalytic activities. Dalton Transactions, 2017, 46, 10641-10649.	3.3	53
79	A plasmonic interfacial evaporator for high-efficiency solar vapor generation. Sustainable Energy and Fuels, 2018, 2, 2762-2769.	4.9	53
80	The Effects of Hydrogenation on Graphitic C₃N₄ Nanosheets for Enhanced Photocatalytic Activity. Particle and Particle Systems Characterization, 2018, 35, 1700038.	2.3	52
81	New Understanding on Enhanced Photocatalytic Activity of g-C₃N₄/BiPO₄ Heterojunctions by Effective Interfacial Coupling. ACS Applied Nano Materials, 2018, 1, 5507-5515.	5.0	52
82	Effective radiative cooling with ZrO2/PDMS reflective coating. Solar Energy Materials and Solar Cells, 2021, 229, 111129.	6.2	50
83	Maximizing the microwave absorption performance of polypyrrole by data-driven discovery. Composites Science and Technology, 2020, 199, 108332.	7.8	48
84	Obtaining Strong, Broadband Microwave Absorption of Polyaniline Through Dataâ€Driven Materials Discovery. Advanced Materials Interfaces, 2020, 7, 2000658.	3.7	45
85	Photocatalytic hydrogen production from seawater under full solar spectrum without sacrificial reagents using TiO2 nanoparticles. Nano Research, 2022, 15, 2013-2022.	10.4	43
86	Dielectric, magnetic, and microwave absorption properties of polyoxometalate-based materials. Journal of Magnetism and Magnetic Materials, 2020, 497, 165974.	2.3	42
87	Improving the activity of Co_xP nanoparticles for the electrochemical hydrogen evolution by hydrogenation. Sustainable Energy and Fuels, 2017, 1, 62-68.	4.9	41
88	Research progress on the photocatalytic activation of methane to methanol. Green Chemistry, 2021, 23, 3526-3541.	9.0	39
89	Ag nanoparticles/hematite mesocrystals superstructure composite: a facile synthesis and enhanced heterogeneous photo-Fenton activity. Catalysis Science and Technology, 2016, 6, 4184-4191.	4.1	37
90	Titanium dioxide nanomaterials for photocatalysis. Journal Physics D: Applied Physics, 2017, 50, 193003.	2.8	37

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91	A veil-over-sprout micro-nano PMMA/SiO2 superhydrophobic coating with impressive abrasion, icing, and corrosion resistance. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 601, 124998.	4.7	37
92	Two-dimensional SnS₂ nanosheets exfoliated from an inorganicâ€“organic hybrid with enhanced photocatalytic activity towards Cr(<scp>vi</scp>) reduction. Inorganic Chemistry Frontiers, 2019, 6, 948-954.	6.0	34
93	Photocatalytic Hydrogen Generation from Pure Water using Silicon Carbide Nanoparticles. Energy Technology, 2014, 2, 183-187.	3.8	33
94	Microwave Absorption of Organic Metal Halide Nanotubes. Advanced Materials Interfaces, 2020, 7, 1901270.	3.7	32
95	Photocatalytic Hydrogen Production over CdS Nanomaterials: An Interdisciplinary Experiment for Introducing Undergraduate Students to Photocatalysis and Analytical Chemistry. Journal of Chemical Education, 2019, 96, 1224-1229.	2.3	30
96	Structural evolution from TiO2nanoparticles to nanosheets and their photocatalytic performance in hydrogen generation and environmental pollution removal. RSC Advances, 2014, 4, 16146.	3.6	28
97	Ordered-Porous-Array Polymethyl Methacrylate Films for Radiative Cooling. ACS Applied Materials & Interfaces, 2022, 14, 31277-31284.	8.0	28
98	Lithiumâ€Ion Battery Performance of (001)â€Faceted TiO₂ Nanosheets vs. Spherical TiO₂ Nanoparticles. Energy Technology, 2014, 2, 376-382.	3.8	27
99	Enhanced electrocatalytic hydrogen evolution activity of nickel foam by low-temperature-oxidation. Journal of Materials Research, 2018, 33, 213-224.	2.6	27
100	Facile Fabrication of a Mechanical, Chemical, Thermal, and Longâ€Term Outdoor Durable Fluorineâ€Free Superhydrophobic Coating. Advanced Materials Interfaces, 2021, 8, 2002209.	3.7	26
101	A Novel Green TiO₂ Photocatalyst with a Surface Chargeâ€Transfer Complex of Ti and Hydrazine Groups. Chemistry - A European Journal, 2017, 23, 5345-5351.	3.3	25
102	Influence of the Amount of Hydrogen Fluoride on the Formation of (001)â€Faceted Titanium Dioxide Nanosheets and Their Photocatalytic Hydrogen Generation Performance. ChemPlusChem, 2014, 79, 1159-1166.	2.8	24
103	Controlling electronic properties of MoS₂/graphene oxide heterojunctions for enhancing photocatalytic performance: the role of oxygen. Physical Chemistry Chemical Physics, 2018, 20, 1974-1983.	2.8	24
104	Ni-Bi-S nanosheets/Ni foam as a binder-free high-performance electrode for asymmetric supercapacitors. Chemical Engineering Journal, 2019, 378, 122162.	12.7	24
105	Realizing Maximum Microwave Absorption of Poly(3,4-ethylenedioxythiophene) with a Data-Driven Method. ACS Applied Electronic Materials, 2020, 2, 2937-2944.	4.3	24
106	A hybrid electrolyzer splits water at 0.8 V at room temperature. Nano Energy, 2016, 19, 138-144.	16.0	23
107	Ag₂Mo₃O₁₀ Nanorods Decorated with Ag₂S Nanoparticles: Visibleâ€Light Photocatalytic Activity, Photostability, and Charge Transfer. Chemistry - A European Journal, 2015, 21, 18711-18716.	3.3	22
108	Synthesis of ZnSe microdisks and nanobelts and their visible-light photocatalytic properties. Journal of Materials Science, 2017, 52, 3821-3830.	3.7	22

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109	Facile synthesis of a novel WO₃/Ag₂MoO₄ particles-on-plate staggered type II heterojunction with improved visible-light photocatalytic activity in removing environmental pollutants. RSC Advances, 2019, 9, 34804-34813.	3.6	21
110	Self-healing PDMS/SiO2-CaCO3 composite coating for highly efficient protection of building materials. Materials Letters, 2020, 265, 127290.	2.6	21
111	A simple fabrication of superhydrophobic PVDF/SiO2 coatings and their anti-icing properties. Journal of Materials Research, 2021, 36, 637-645.	2.6	21
112	Unveiling the roles of halogen ions in the surface passivation of CsPbI₃ perovskite solar cells. Physical Chemistry Chemical Physics, 2022, 24, 10184-10192.	2.8	21
113	Selective electrocatalytic CO₂ reduction to acetate on polymeric Cuâ€“L (L = pyridinic N) Tj ETQq1 1 0.784314 rgBT /Over	9.0	20
114	Nonfluorinated, transparent, and antireflective hydrophobic coating with self-cleaning function. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 634, 127919.	4.7	19
115	A Simple Parallel Photochemical Reactor for Photodecomposition Studies. Journal of Chemical Education, 2006, 83, 265.	2.3	18
116	Hierarchical K2Mn4O8 nanoflowers: A novel photothermal conversion material for efficient solar vapor generation. Solar Energy Materials and Solar Cells, 2019, 200, 110043.	6.2	18
117	3D interconnected Fe-Co-S nanosheets network directly grown on graphene coated nickel foam with enhanced electrochemical performance for asymmetric supercapacitors. Applied Surface Science, 2021, 543, 148747.	6.1	17
118	A costâ€effective crosslinked Î²â€cyclodextrin polymer for the rapid and efficient removal of micropollutants from wastewater. Polymer International, 2019, 68, 805-811.	3.1	16
119	Modifying oxide nanomaterialsâ€™ properties by hydrogenation. MRS Communications, 2016, 6, 192-203.	1.8	15
120	Synthesis of porous ZnS/ZnSe nanosheets for enhanced visible light photocatalytic activity. Journal of Materials Science: Materials in Electronics, 2018, 29, 11605-11612.	2.2	15
121	Formation of TiO₂ nanomaterials via titanium ethylene glycolide decomposition. Journal of Materials Research, 2013, 28, 326-332.	2.6	14
122	The Influence of Reaction Temperature on the Formation and Photocatalytic Hydrogen Generation of (001) Faceted TiO₂ Nanosheets. ChemNanoMat, 2015, 1, 270-275.	2.8	13
123	Tertiary butyl hydroquinone as a novel additive for SEI film formation in lithium-ion batteries. RSC Advances, 2016, 6, 42885-42891.	3.6	13
124	Microwave absorption by carbon-based materials and structures. Journal of Applied Physics, 2022, 131, .	2.5	12
125	Facile Synthesis of [Cu(SCH₃)]_{â^ž} Nanowires with High Charge Mobility. ChemPlusChem, 2014, 79, 559-563.	2.8	11
126	Fast and Large-Scale Anodizing Synthesis of Pine-Cone TiO2 for Solar-Driven Photocatalysis. Catalysts, 2017, 7, 229.	3.5	11

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127	Data Functionalization for Gas Chromatography in Python. Journal of Chemical Education, 2020, 97, 1172-1175.	2.3	11
128	libRL: A Python library for the characterization of microwave absorption. Journal of Open Source Software, 2019, 4, 1868.	4.6	11
129	Icephobicity studies of superhydrophobic coating on aluminium. Surface Engineering, 2021, 37, 1239-1245.	2.2	10
130	Effects of the Dopant Site on the Absorption Properties of CsPb1â€“xMxI2Br (M = Ge, Sn, Sr, and Cu): A First-Principles Investigation. Journal of Physical Chemistry C, 2020, 124, 6028-6037.	3.1	10
131	Engineering black titanium dioxide by femtosecond laser filament. Applied Surface Science, 2020, 520, 146298.	6.1	10
132	The room-temperature, ambient-pressure conversion of CO₂ into value-added pharmaceutical products quinazoline-2,4(1H,3H)-diones. Physical Chemistry Chemical Physics, 2021, 23, 21130-21138.	2.8	10
133	Cobalt doped Mo₅N₆ as a noble-metal-free novel cocatalyst for promoting photocatalytic hydrogen production of g-C₃N₄ nanosheets. Materials Chemistry Frontiers, 2022, 6, 718-723.	5.9	10
134	Interfacial Solar Vapor Generation: Introducing Students to Experimental Procedures and Analysis for Efficiently Harvesting Energy and Generating Vapor at the Airâ€“Water Interface. Journal of Chemical Education, 2020, 97, 1093-1100.	2.3	8
135	Femtosecond timeâ€resolved hot carrier energy distributions of photoexcited semiconductor quantum dots. Annalen Der Physik, 2013, 525, 43-48.	2.4	7
136	Preparation of Uncapped CdSe x Te1â^'x Nanocrystals with Strong Near-IR Tunable Absorption. Journal of Electronic Materials, 2013, 42, 3373-3378.	2.2	7
137	A novel two-prong strategy to boost the capacitive performance of commercial carbon cloth. Journal of Alloys and Compounds, 2020, 831, 154615.	5.5	7
138	Enhanced charge storage of Li3FeF6 with carbon nanotubes for lithium-ion batteries. RSC Advances, 2016, 6, 113283-113288.	3.6	5
139	Photonic TiO2 photoelectrodes for environmental protections: Can color be used as a quick selection indicator for photoelectrocatalytic performance?. Journal of Hazardous Materials, 2020, 398, 122867.	12.4	5
140	Controllable fabrication of novel pH-, thermo-, and light-responsive supramolecular dendronized copolymers with dual self-assembly behavior. Polymer Chemistry, 2018, 9, 3080-3087.	3.9	3
141	Photocatalytic behaviour of anodised titanium using different cathodes. Surface Engineering, 2019, 35, 46-53.	2.2	3
142	Black Titanium Dioxide (TiO₂) Nanomaterials. World Scientific Series in Nanoscience and Nanotechnology, 2016, , 1-26.	0.1	2
143	Synthesis and Properties of Hydrogenated Black TiO₂ Nanomaterials. , 2017, , 5-32.		2
144	Fluorineâ€Free Superhydrophobic Coating: Facile Fabrication of a Mechanical, Chemical, Thermal, and Longâ€Term Outdoor Durable Fluorineâ€Free Superhydrophobic Coating (Adv. Mater. Interfaces 11/2021). Advanced Materials Interfaces, 2021, 8, 2170060.	3.7	2

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145	A sensitive photodetector: Tuning the electronic structure of the Cu2O/MoS2 heterojunction by controlling the interlayer spacing or electric field. Journal of Materials Research, 2022, 37, 1679-1687.	2.6	1