Yat Li

List of Publications by Citations

169 papers	30,972 citations	81 h-index	175 g-index
181 ext. papers	34,073 ext. citations	11.4 avg, IF	7.33 L-index

#	Paper	IF	Citations
169	Hydrogen-treated TiO2 nanowire arrays for photoelectrochemical water splitting. *Nano Letters*, **2011**, 11, 3026-33	11.5	2101
168	Highly crystalline multimetallic nanoframes with three-dimensional electrocatalytic surfaces. *Science*, **2014**, 343, 1339-43	33.3	1989
167	Nanowire electronic and optoelectronic devices. *Materials Today*, **2006**, 9, 18-27	21.8	1128
166	Hydrogenated TiO2 nanotube arrays for supercapacitors. *Nano Letters*, **2012**, 12, 1690-6	11.5	1113
165	Flexible solid-state supercapacitors: design, fabrication and applications. *Energy and Environmental Science*, **2014**, 7, 2160	35.4	985
164	Nitrogen-doped ZnO nanowire arrays for photoelectrochemical water splitting. *Nano Letters*, **2009**, 9, 2331-6	11.5	967
163	Sn-doped hematite nanostructures for photoelectrochemical water splitting. *Nano Letters*, **2011**, 11, 2119-25	11.5	882
162	H-TiO(2) @MnO(2) //H-TiO(2) @C core-shell nanowires for high performance and flexible asymmetric supercapacitors. *Advanced Materials*, **2013**, 25, 267-72	24	828
161	Core/multishell nanowire heterostructures as multicolor, high-efficiency light-emitting diodes. *Nano Letters*, **2005**, 5, 2287-91	11.5	784
160	Au nanostructure-decorated TiO2 nanowires exhibiting photoactivity across entire UV-visible region for photoelectrochemical water splitting. *Nano Letters*, **2013**, 13, 3817-23	11.5	725
159	High energy density asymmetric quasi-solid-state supercapacitor based on porous vanadium nitride nanowire anode. *Nano Letters*, **2013**, 13, 2628-33	11.5	622
158	Multi-quantum-well nanowire heterostructures for wavelength-controlled lasers. *Nature Materials*, **2008**, 7, 701-6	27	616
157	Polyaniline and polypyrrole pseudocapacitor electrodes with excellent cycling stability. *Nano Letters*, **2014**, 14, 2522-7	11.5	589
156	Gallium Nitride-Based Nanowire Radial Heterostructures for Nanophotonics. *Nano Letters*, **2004**, 4, 1975-1979	11.5	566
155	Stabilized TiN nanowire arrays for high-performance and flexible supercapacitors. *Nano Letters*, **2012**, 12, 5376-81	11.5	563
154	Hydrogen-treated WO3 nanoflakes show enhanced photostability. *Energy and Environmental Science*, **2012**, 5, 6180	35.4	559
153	Facile synthesis of highly photoactive □Fe□□based films for water oxidation. *Nano Letters*, **2011**, 11, 3503-9	11.5	556

152	Solid-state supercapacitor based on activated carbon cloths exhibits excellent rate capability. *Advanced Materials*, **2014**, 26, 2676-82, 2615	24	555
151	Double-sided CdS and CdSe quantum dot co-sensitized ZnO nanowire arrays for photoelectrochemical hydrogen generation. *Nano Letters*, **2010**, 10, 1088-92	11.5	549
150	Supercapacitors Based on Three-Dimensional Hierarchical Graphene Aerogels with Periodic Macropores. *Nano Letters*, **2016**, 16, 3448-56	11.5	473
149	Synergistic effect of CdSe quantum dot sensitization and nitrogen doping of TiO(2) nanostructures for photoelectrochemical solar hydrogen generation. *Nano Letters*, **2010**, 10, 478-83	11.5	435
148	Nanostructured hematite: synthesis, characterization, charge carrier dynamics, and photoelectrochemical properties. *Energy and Environmental Science*, **2012**, 5, 6682	35.4	434
147	GaN nanowire lasers with low lasing thresholds. *Applied Physics Letters*, **2005**, 87, 173111	3.4	397
146	InAs/InP radial nanowire heterostructures as high electron mobility devices. *Nano Letters*, **2007**, 7, 3214-8	11.5	336
145	Revitalizing carbon supercapacitor electrodes with hierarchical porous structures. *Journal of Materials Chemistry A*, **2017**, 5, 17705-17733	13	332
144	Dopant-free GaN/AlN/AlGaN radial nanowire heterostructures as high electron mobility transistors. *Nano Letters*, **2006**, 6, 1468-73	11.5	319
143	Oxygen-deficient metal oxide nanostructures for photoelectrochemical water oxidation and other applications. *Nanoscale*, **2012**, 4, 6682-91	7.7	306
142	Progress in Developing Metal Oxide Nanomaterials for Photoelectrochemical Water Splitting. *Advanced Energy Materials*, **2017**, 7, 1700555	21.8	291
141	A new benchmark capacitance for supercapacitor anodes by mixed-valence sulfur-doped V6O(13-x). *Advanced Materials*, **2014**, 26, 5869-75	24	276
140	The influence of oxygen content on the thermal activation of hematite nanowires. *Angewandte Chemie - International Edition*, **2012**, 51, 4074-9	16.4	274
139	Microbial reduction of graphene oxide by Shewanella. *Nano Research*, **2011**, 4, 563-570	10	274
138	LiCl/PVA gel electrolyte stabilizes vanadium oxide nanowire electrodes for pseudocapacitors. *ACS Nano*, **2012**, 6, 10296-302	16.7	271
137	Organolead Halide Perovskite Nanocrystals: Branched Capping Ligands Control Crystal Size and Stability. *Angewandte Chemie - International Edition*, **2016**, 55, 8864-8	16.4	239
136	A room temperature low-threshold ultraviolet plasmonic nanolaser. *Nature Communications*, **2014**, 5, 4953	17.4	236
135	High power density microbial fuel cell with flexible 3D graphene-nickel foam as anode. *Nanoscale*, **2013**, 5, 10283-90	7.7	233

134	Paper-Based Electrodes for Flexible Energy Storage Devices. *Advanced Science*, **2017**, 4, 1700107	13.6	232
133	Efficient 3D Printed Pseudocapacitive Electrodes with Ultrahigh MnO2 Loading. *Joule*, **2019**, 3, 459-470	27.8	232
132	Hydrogen generation from photoelectrochemical water splitting based on nanomaterials. *Laser and Photonics Reviews*, **2009**, 4, 517-528	8.3	230
131	High energy density asymmetric supercapacitors with a nickel oxide nanoflake cathode and a 3D reduced graphene oxide anode. *Nanoscale*, **2013**, 5, 7984-90	7.7	223
130	Efficient photocatalytic hydrogen evolution over hydrogenated ZnO nanorod arrays. *Chemical Communications*, **2012**, 48, 7717-9	5.8	221
129	Free-standing nickel oxide nanoflake arrays: synthesis and application for highly sensitive non-enzymatic glucose sensors. *Nanoscale*, **2012**, 4, 3123-7	7.7	213
128	Semiconductor nanowire laser and nanowire waveguide electro-optic modulators. *Applied Physics Letters*, **2005**, 87, 151103	3.4	211
127	3D printed functional nanomaterials for electrochemical energy storage. *Nano Today*, **2017**, 15, 107-120	17.9	210
126	Pore and Heteroatom Engineered Carbon Foams for Supercapacitors. *Advanced Energy Materials*, **2019**, 9, 1803665	21.8	208
125	Multiscale Pore Network Boosts Capacitance of Carbon Electrodes for Ultrafast Charging. *Nano Letters*, **2017**, 17, 3097-3104	11.5	206
124	Oxygen defective metal oxides for energy conversion and storage. *Nano Today*, **2017**, 13, 23-39	17.9	204
123	Improving the Cycling Stability of Metal Nitride Supercapacitor Electrodes with a Thin Carbon Shell. *Advanced Energy Materials*, **2014**, 4, 1300994	21.8	188
122	Computational and Photoelectrochemical Study of Hydrogenated Bismuth Vanadate. *Journal of Physical Chemistry C*, **2013**, 117, 10957-10964	3.8	185
121	Pushing the Cycling Stability Limit of Polypyrrole for Supercapacitors. *Advanced Functional Materials*, **2015**, 25, 4626-4632	15.6	183
120	Efficient Suppression of Electron-Hole Recombination in Oxygen-Deficient Hydrogen-Treated TiO Nanowires for Photoelectrochemical Water Splitting. *Journal of Physical Chemistry C*, **2013**, 117, 25837-25844	3.8	181
119	Solar-driven microbial photoelectrochemical cells with a nanowire photocathode. *Nano Letters*, **2010**, 10, 4686-91	11.5	180
118	Flexible Transparent Molybdenum Trioxide Nanopaper for Energy Storage. *Advanced Materials*, **2016**, 28, 6353-8	24	172
117	Synthesis and pseudocapacitive studies of composite films of polyaniline and manganese oxide nanoparticles. *Journal of Power Sources*, **2010**, 195, 3742-3747	8.9	164

116	Morphology and Doping Engineering of Sn-Doped Hematite Nanowire Photoanodes. *Nano Letters*, **2017**, 17, 2490-2495	11.5	163
115	Theoretical and Experimental Insight into the Effect of Nitrogen Doping on Hydrogen Evolution Activity of Ni3S2 in Alkaline Medium. *Advanced Energy Materials*, **2018**, 8, 1703538	21.8	159
114	Ni Foam-Supported Fe-Doped β-Ni(OH)2 Nanosheets Show Ultralow Overpotential for Oxygen Evolution Reaction. *ACS Energy Letters*, **2019**, 4, 622-628	20.1	147
113	A mechanistic study into the catalytic effect of Ni(OH)2 on hematite for photoelectrochemical water oxidation. *Nanoscale*, **2013**, 5, 4129-33	7.7	145
112	Highly sensitive detection of proteins and bacteria in aqueous solution using surface-enhanced Raman scattering and optical fibers. *Analytical Chemistry*, **2011**, 83, 5888-94	7.8	139
111	Electrodeposition of vanadium oxide–polyaniline composite nanowire electrodes for high energy density supercapacitors. *Journal of Materials Chemistry A*, **2014**, 2, 10882-10888	13	136
110	Shape-Controlled Synthesis of Single-Crystalline Fe2O3 Hollow Nanocrystals and Their Tunable Optical Properties. *Journal of Physical Chemistry C*, **2009**, 113, 9928-9935	3.8	131
109	Chemically modified nanostructures for photoelectrochemical water splitting. *Journal of Photochemistry and Photobiology C: Photochemistry Reviews*, **2014**, 19, 35-51	16.4	130
108	Ostwald Ripening Improves Rate Capability of High Mass Loading Manganese Oxide for Supercapacitors. *ACS Energy Letters*, **2017**, 2, 1752-1759	20.1	115
107	Solar driven hydrogen releasing from urea and human urine. *Energy and Environmental Science*, **2012**, 5, 8215	35.4	112
106	Recent advances in chemical methods for activating carbon and metal oxide based electrodes for supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 17151-17173	13	110
105	Acid Treatment Enables Suppression of Electron-Hole Recombination in Hematite for Photoelectrochemical Water Splitting. *Angewandte Chemie - International Edition*, **2016**, 55, 3403-7	16.4	107
104	3D-Printed Structure Boosts the Kinetics and Intrinsic Capacitance of Pseudocapacitive Graphene Aerogels. *Advanced Materials*, **2020**, 32, e1906652	24	105
103	Photoelectrochemical study of oxygen deficient TiO2 nanowire arrays with CdS quantum dot sensitization. *Nanoscale*, **2012**, 4, 1463-6	7.7	101
102	An Electrochemical Capacitor with Applicable Energy Density of 7.4 Wh/kg at Average Power Density of 3000 W/kg. *Nano Letters*, **2015**, 15, 3189-94	11.5	100
101	Hierarchically porous carbon foams for electric double layer capacitors. *Nano Research*, **2016**, 9, 2875-2888	8	98
100	Amorphous Mixed-Valence Vanadium Oxide/Exfoliated Carbon Cloth Structure Shows a Record High Cycling Stability. *Small*, **2017**, 13, 1700067	11	94
99	Photoenhanced electrochemical interaction between Shewanella and a hematite nanowire photoanode. *Nano Letters*, **2014**, 14, 3688-93	11.5	94

98	Enhanced capacitance in partially exfoliated multi-walled carbon nanotubes. *Journal of Power Sources*, **2011**, 196, 5209-5214	8.9	94
97	Role of Hydrogen in Defining the n-Type Character of BiVO4 Photoanodes. *Chemistry of Materials*, **2016**, 28, 5761-5771	9.6	90
96	An electrochemical method to enhance the performance of metal oxides for photoelectrochemical water oxidation. *Journal of Materials Chemistry A*, **2016**, 4, 2849-2855	13	88
95	The Influence of Oxygen Content on the Thermal Activation of Hematite Nanowires. *Angewandte Chemie*, **2012**, 124, 4150-4155	3.6	87
94	Carbon doping switching on the hydrogen adsorption activity of NiO for hydrogen evolution reaction. *Nature Communications*, **2020**, 11, 590	17.4	85
93	Review of Sn-Doped Hematite Nanostructures for Photoelectrochemical Water Splitting. *Particle and Particle Systems Characterization*, **2014**, 31, 1113-1121	3.1	84
92	Direct correlation between structural and optical properties of III-V nitride nanowire heterostructures with nanoscale resolution. *Nano Letters*, **2009**, 9, 3940-4	11.5	84
91	Synthesis, Optical Properties, and Exciton Dynamics of Organolead Bromide Perovskite Nanocrystals. *Journal of Physical Chemistry C*, **2015**, 119, 26672-26682	3.8	83
90	Controlled partial-exfoliation of graphite foil and integration with MnO2 nanosheets for electrochemical capacitors. *Nanoscale*, **2015**, 7, 3581-7	7.7	81
89	Oxygen deficient □FeO photoelectrodes: a balance between enhanced electrical properties and trap-mediated losses. *Chemical Science*, **2015**, 6, 4009-4016	9.4	81
88	A microfluidic microbial fuel cell fabricated by soft lithography. *Bioresource Technology*, **2011**, 102, 5836-40	11	80
87	CdSe quantum dot-sensitized Au/TiO2 hybrid mesoporous films and their enhanced photoelectrochemical performance. *Nano Research*, **2011**, 4, 249-258	10	78
86	Balancing the electrical double layer capacitance and pseudocapacitance of hetero-atom doped carbon. *Nanoscale*, **2017**, 9, 13119-13127	7.7	75
85	Surface Passivation of TiO2 Nanowires Using a Facile Precursor-Treatment Approach for Photoelectrochemical Water Oxidation. *Journal of Physical Chemistry C*, **2014**, 118, 15086-15094	3.8	74
84	Self-biased solar-microbial device for sustainable hydrogen generation. *ACS Nano*, **2013**, 7, 8728-35	16.7	74
83	Investigation of hematite nanorod□anoflake morphological transformation and the application of ultrathin nanoflakes for electrochemical devices. *Nano Energy*, **2015**, 12, 169-177	17.1	71
82	Optical properties and exciton dynamics of alloyed core/shell/shell Cd(1-x)Zn(x)Se/ZnSe/ZnS quantum dots. *ACS Applied Materials & Interfaces*, **2013**, 5, 2893-900	9.5	69
81	Boosting Power Density of Microbial Fuel Cells with 3D Nitrogen-Doped Graphene Aerogel Electrode. *Advanced Science*, **2016**, 3, 1600097	13.6	69

80	SERS spectroscopy and SERS imaging of Shewanella oneidensis using silver nanoparticles and nanowires. *Chemical Communications*, **2011**, 47, 4129-31	5.8	68
79	Engineering of Mesoscale Pores in Balancing Mass Loading and Rate Capability of Hematite Films for Electrochemical Capacitors. *Advanced Energy Materials*, **2018**, 8, 1801784	21.8	67
78	Deciphering the electron transport pathway for graphene oxide reduction by Shewanella oneidensis MR-1. *Journal of Bacteriology*, **2011**, 193, 3662-5	3.5	65
77	Effects of Hydrogen Treatment and Air Annealing on Ultrafast Charge Carrier Dynamics in ZnO Nanowires Under in Situ Photoelectrochemical Conditions. *Journal of Physical Chemistry C*, **2012**, 116, 17360-17368	3.8	64
76	Low-temperature activation of hematite nanowires for photoelectrochemical water oxidation. *ChemSusChem*, **2014**, 7, 848-53	8.3	61
75	A three-dimensional nitrogen-doped graphene aerogel-activated carbon composite catalyst that enables low-cost microfluidic microbial fuel cells with superior performance. *Journal of Materials Chemistry A*, **2016**, 4, 15913-15919	13	61
74	Direct molecule-specific glucose detection by Raman spectroscopy based on photonic crystal fiber. *Analytical and Bioanalytical Chemistry*, **2012**, 402, 687-91	4.4	54
73	12 GHz $F_{rm MAX}$ GaN/AlN/AlGaN Nanowire MISFET. *IEEE Electron Device Letters*, **2009**, 30, 322-324	4.4	54
72	Addressing the Achilles' heel of pseudocapacitive materials: Long-term stability. *Informa Materi y*, **2020**, 2, 807-842	23.1	51
71	Direct ink writing of organic and carbon aerogels. *Materials Horizons*, **2018**, 5, 1166-1175	14.4	51
70	Three-dimensional carbon architectures for electrochemical capacitors. *Journal of Colloid and Interface Science*, **2018**, 509, 529-545	9.3	48
69	Zipping Up NiFe(OH)x-Encapsulated Hematite To Achieve an Ultralow Turn-On Potential for Water Oxidation. *ACS Energy Letters*, **2019**, 4, 1983-1990	20.1	48
68	Controlled synthesis of AlN/GaN multiple quantum well nanowire structures and their optical properties. *Nano Letters*, **2012**, 12, 3344-50	11.5	48
67	Probing the Nature of Bandgap States in Hydrogen-Treated TiO2 Nanowires. *Journal of Physical Chemistry C*, **2013**, 117, 26821-26830	3.8	47
66	Surface Engineering of Nanomaterials for Photo-Electrochemical Water Splitting. *Small*, **2019**, 15, e1803746	11.4	47
65	Photohole Induced Corrosion of Titanium Dioxide: Mechanism and Solutions. *Nano Letters*, **2015**, 15, 7051-7	11.5	46
64	Solar-assisted microbial fuel cells for bioelectricity and chemical fuel generation. *Nano Energy*, **2014**, 8, 264-273	17.1	43
63	Ultrasmall Single-Crystal Indium Antimonide Nanowires. *Crystal Growth and Design*, **2010**, 10, 2479-2482	3.5	43

62	Tri-layered graphite foil for electrochemical capacitors. *Journal of Materials Chemistry A*, **2016**, 4, 7683-7688	9	41
61	Perspective on High-Rate Alkaline Water Splitting **2021**, 3, 224-234		40
60	Periodic Porous 3D Electrodes Mitigate Gas Bubble Traffic during Alkaline Water Electrolysis at High Current Densities. *Advanced Energy Materials*, **2020**, 10, 2002955	21.8	39
59	4-Butylbenzenesulfonate modified polypyrrole paper for supercapacitor with exceptional cycling stability. *Energy Storage Materials*, **2018**, 12, 191-196	19.4	37
58	Fabrication of hydroxyl group modified monodispersed hybrid silica particles and the h-SiO(2)/TiO(2) core/shell microspheres as high performance photocatalyst for dye degradation. *Journal of Colloid and Interface Science*, **2011**, 354, 196-201	9.3	37
57	Ion Intercalation Induced Capacitance Improvement for Graphene-Based Supercapacitor Electrodes. *ChemNanoMat*, **2016**, 2, 635-641	3.5	35
56	Printing Porous Carbon Aerogels for Low Temperature Supercapacitors. *Nano Letters*, **2021**, 21, 3731-3737	11.5	32
55	Metal organic frameworks with immobilized nanoparticles: Synthesis and applications in photocatalytic hydrogen generation and energy storage. *Materials Research Bulletin*, **2017**, 96, 385-394	5.1	28
54	Vertical Silicon Nanowire Platform for Low Power Electronics and Clean Energy Applications. *Journal of Nanotechnology*, **2012**, 2012, 1-21	3.5	28
53	Recovery of Rare Earth Elements from Geothermal Fluids through Bacterial Cell Surface Adsorption. *Environmental Science & Technology*, **2019**, 53, 7714-7723	10.3	26
52	Microstadium single-nanowire laser. *Applied Physics Letters*, **2007**, 91, 251115	3.4	26
51	Spectroelectrochemical Photoluminescence of Trap States in H-Treated Rutile TiO2 Nanowires: Implications for Photooxidation of Water. *Journal of Physical Chemistry C*, **2016**, 120, 3530-3541	3.8	25
50	Acid Treatment Enables Suppression of Electron□Hole Recombination in Hematite for Photoelectrochemical Water Splitting. *Angewandte Chemie*, **2016**, 128, 3464-3468	3.6	24
49	Evidence of oxygen vacancy and possible intermediate gap state in layered □MoO3 single-crystal nanobelts. *Physica B: Condensed Matter*, **2016**, 481, 192-196	2.8	22
48	3D printing of living bacteria electrode. *Nano Research*, **2020**, 13, 1318-1323	10	22
47	TiN Paper for Ultrafast-Charging Supercapacitors. *Nano-Micro Letters*, **2019**, 12, 3	19.5	22
46	Growth of gallium nitride and indium nitride nanowires on conductive and flexible carbon cloth substrates. *Nanoscale*, **2013**, 5, 1820-4	7.7	21
45	The Effect of the Hydrogenation Temperature on TiO2 Nanostructures for Photoelectrochemical Water Oxidation. *European Journal of Inorganic Chemistry*, **2014**, 2014, 760-766	2.3	20

44	Cu2O/CuS Nanocomposites Show Excellent Selectivity and Stability for Formate Generation via Electrochemical Reduction of Carbon Dioxide **2021**, 3, 100-109		20
43	Chemically modified titanium oxide nanostructures for dye-sensitized solar cells. *Nano Energy*, **2013**, 2, 1373-1382	17.1	19
42	Surface hydroxylated hematite promotes photoinduced hole transfer for water oxidation. *Journal of Materials Chemistry A*, **2019**, 7, 8050-8054	13	18
41	Recent progress and strategies for enhancing photocatalytic water splitting. *Materials Today Sustainability*, **2020**, 9, 100032	5	18
40	Synthesis, Structural Characterization, Solvatochromism, and Electrochemistry of Tetra-Osmium Carbonyl Clusters Containing Azo-Ligands. *European Journal of Inorganic Chemistry*, **2001**, 2001, 3163-3173	2.3	18
39	Synthesis and crystal structures of copper(I) iodide complexes chelating with bis(ethylamidophosphine). *Inorganic Chemistry Communication*, **2003**, 6, 1451-1453	3.1	17
38	The X-ray Structure, Electrochemistry and Catalytic Reactivity of Os4Au(□H)3(CO)12(PPh3) Towards the Oxidative Carbonylation of Aniline. *Journal of Cluster Science*, **2002**, 13, 223-233	3	16
37	The coupling of experiments with density functional theory in the studies of the electrochemical hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2020**, 8, 8783-8812	13	15
36	Tuning the Electrochemical Properties of Nitrogen-Doped Carbon Aerogels in a Blend of Ammonia and Nitrogen Gases. *ACS Applied Energy Materials*, **2018**, 1, 5043-5053	6.1	15
35	Interpenetrated Bacteria-Carbon Nanotubes Film for Microbial Fuel Cells. *Small Methods*, **2018**, 2, 1800152	12.8	13
34	Oxygen vacancies enable the visible light photoactivity of chromium-implanted TiO2 nanowires. *Journal of Energy Chemistry*, **2021**, 55, 154-161	12	13
33	Stable Ta2O5 Overlayers on Hematite for Enhanced Photoelectrochemical Water Splitting Efficiencies. *ChemPhotoChem*, **2018**, 2, 183-189	3.3	13
32	The First Example of Tetraosmium Carbonyl Clusters Containing (□-NH) Nitrene Ligands: Syntheses and Crystal Structures. *Organometallics*, **2003**, 22, 1029-1037	3.8	12
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30	Recent progress in electrochemical reduction of CO2 by oxide-derived copper catalysts. *Materials Today Nano*, **2020**, 12, 100096	9.7	12
29	Dependence of Interfacial Charge Transfer on Bifunctional Aromatic Molecular Linkers in CdSe Quantum Dot Sensitized TiO2 Photoelectrodes. *ACS Applied Energy Materials*, **2018**, 1, 2907-2917	6.1	12
28	Syntheses, Reactivity Studies and the Catalytic Properties of a Series of Tetraosmium□Gold Mixed-Metal Clusters. *European Journal of Inorganic Chemistry*, **2003**, 2003, 2651-2662	2.3	11
27	The role of graphene as an overlayer on nanostructured hematite photoanodes for improved solar water oxidation. *Materials Today Energy*, **2018**, 8, 8-14	7	10

26	Nitrogen-doped carbon spider webs derived from pyrolysis of polyaniline nanofibers in ammonia for capacitive energy storage. *Journal of Materials Research*, **2018**, 33, 1109-1119	2.5	10
25	Nickel Catalyst Boosts Solar Hydrogen Generation of CdSe Nanocrystals. *ChemCatChem*, **2013**, 5, 1294-1295	3.8	9
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23	Prototypical Study of Double-Layered Cathodes for Aqueous Rechargeable Static Zn-I Batteries. *Nano Letters*, **2021**, 21, 4129-4135	11.5	8
22	Synthesis and characterisation of tetraosmium carbonyl clusters bearing an azo type ligand: crystal and molecular structures of [Os4(H)4(CO)11(NC5H4N?NPh)] and [Os4(H)4(CO)10(MeCN)(NC5H4N?NPh)]. *Inorganic Chemistry Communication*, **1999**, 2, 599-603	3.1	7
21	Reduced graphene oxide modified activated carbon for improving power generation of air-cathode microbial fuel cells. *Journal of Materials Research*, **2018**, 33, 1279-1287	2.5	7
20	Electrochemical Reduction of CO2 to Alcohols: Current Understanding, Progress, and Challenges. *Advanced Energy and Sustainability Research*,2100131	1.6	7
19	Ethanol Oxidation Reaction Catalyzed by Palladium Nanoparticles Supported on Hydrogen-Treated TiO2 Nanobelts: Impact of Oxygen Vacancies. *ChemElectroChem*, **2017**, 4, 2211-2217	4.3	7
18	Recent Advances of Aqueous Rechargeable Zinc-Iodine Batteries: Challenges, Solutions, and Prospects.. *Advanced Materials*, **2022**, e2108856	24	6
17	Ultrasmall Single-Crystal Indium Antimonide Nanowires. *Crystal Growth and Design*, **2010**, 10, 4669-4669	3.5	5
16	Low-Cost Nanomaterials for Photoelectrochemical Water Splitting. *Green Energy and Technology*, **2014**, 267-295	0.6	4
15	Ultrafast Charge Carrier Dynamics and Photoelectrochemical Properties of Hydrogen-treated TiO2 Nanowire Arrays. *Materials Research Society Symposia Proceedings*, **2012**, 1387, 1		4
14	Synthesis and characterization of silver(I) complexes [AgL]2[BF4]2 and [Ag(OAc)L] [L=(CH2NHCOC2H4PPh2)2]. *Inorganic Chemistry Communication*, **2003**, 6, 1315-1318	3.1	4
13	Doping Bottleneck in Hematite: Multipole Clustering by Small Polarons. *Chemistry of Materials*, **2021**, 33, 4390-4398	9.6	4
12	Oxygen Deficient TiO2 Photoanode for Photoelectrochemical Water Oxidation. *Solid State Phenomena*, **2016**, 253, 11-40	0.4	1
11	Solar Hydrogen Generation: Photocatalytic and Photoelectrochemical Methods **2014**, 27-49		1
10	Insights on Thickness-Dependent Charge Transfer Efficiency Modulated by Ultrasonic Treatment in Hematite Photoanodes. *Journal of Physical Chemistry C*, **2021**, 125, 9981-9989	3.8	1
9	Hematite Materials for Solar-Driven Photoelectrochemical Cells **2018**, 159-218		1

List of Publications

8	The critical role of synthesis conditions on small polaron carrier concentrations in hematite: A first-principles study. *Journal of Applied Physics*, **2021**, 130, 245705	2.5	1
7	Optical Properties and Applications of Hematite (□Fe2O3) Nanostructures **2013**, 167-184		0
6	Hydrogen-Treated TiO2 Nanowires for Charge Storage and Photoelectrochemical Water Splitting **2017**, 189-213		
5	Design of Novel Metal Nanostructures for Broadband Solar Energy Conversion. *International Journal of Spectroscopy*, **2015**, 2015, 1-10		
4	One-Dimensional Metal Oxide Nanostructures for Photoelectrochemical Hydrogen Generation **2011**, 133-166		
3	SURFACE ENGINEERING OF SEMICONDUCTORS FOR PHOTOELECTROCHEMICAL WATER SPLITTING **2018**, 223-249		
2	A top-down cutting method for construction of high-performance fiber-shaped quasi-solid-state asymmetric supercapacitors. *Materials Today Energy*, **2021**, 21, 100758	7	
1	Electronic surface reconstruction of TiO2 nanocrystals revealed by resonant inelastic x-ray scattering. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2021**, 39, 063204	2.9	