

Xu Xiang

List of Publications by Year in descending order

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110
papers

6,643
citations

47006

47
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114
all docs

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docs citations

114
times ranked

8082
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering of ZnCo-layered double hydroxide nanowalls toward high-efficiency electrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13250.	10.3	323
2	Surface Modification of Halloysite Nanotubes with Dopamine for Enzyme Immobilization. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10559-10564.	8.0	300
3	Hierarchical hollow nanotubes of NiFeV-layered double hydroxides@CoVP heterostructures towards efficient, pH-universal electrocatalytical nitrogen reduction reaction to ammonia. <i>Applied Catalysis B: Environmental</i> , 2020, 265, 118559.	20.2	252
4	Recent advances in magnesium/lithium separation and lithium extraction technologies from salt lake brine. <i>Separation and Purification Technology</i> , 2021, 256, 117807.	7.9	229
5	Highly Enhanced Photoelectrochemical Water Oxidation Efficiency Based on Triadic Quantum Dot/Layered Double Hydroxide/BiVO ₄ Photoanodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 19446-19455.	8.0	227
6	Enhanced photoelectrochemical water oxidation on a BiVO ₄ photoanode modified with multi-functional layered double hydroxide nanowalls. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17977-17982.	10.3	201
7	Facile Synthesis and Characterization of Cobalt Ferrite Nanocrystals via a Simple Reduction-Oxidation Route. <i>Journal of Physical Chemistry C</i> , 2008, 112, 18459-18466.	3.1	184
8	Fabricating of Fe ₂ O ₃ /BiVO ₄ heterojunction based photoanode modified with NiFe-LDH nanosheets for efficient solar water splitting. <i>Chemical Engineering Journal</i> , 2018, 350, 148-156.	12.7	162
9	Selective Activation of Benzyl Alcohol Coupled with Photoelectrochemical Water Oxidation via a Radical Relay Strategy. <i>ACS Catalysis</i> , 2020, 10, 4906-4913.	11.2	154
10	Layered Double Hydroxides as Catalytic Materials: Recent Development. <i>Catalysis Surveys From Asia</i> , 2008, 12, 253-265.	2.6	152
11	Facile synthesis and novel electrocatalytic performance of nanostructured Ni-Al layered double hydroxide/carbon nanotube composites. <i>Journal of Materials Chemistry</i> , 2010, 20, 3944.	6.7	140
12	Self-generated Template Pathway to High-Surface-Area Zinc Aluminate Spinel with Mesopore Network from a Single-Source Inorganic Precursor. <i>Chemistry of Materials</i> , 2006, 18, 5852-5859.	6.7	130
13	Strong Electronic Coupling and Ultrafast Electron Transfer between PbS Quantum Dots and TiO ₂ Nanocrystalline Films. <i>Nano Letters</i> , 2012, 12, 303-309.	9.1	130
14	In situ probe of photocarrier dynamics in water-splitting hematite (α-Fe ₂ O ₃) electrodes. <i>Energy and Environmental Science</i> , 2012, 5, 8923.	30.8	121
15	Ternary MgO/ZnO/In ₂ O ₃ heterostructured photocatalysts derived from a layered precursor and visible-light-induced photocatalytic activity. <i>Chemical Engineering Journal</i> , 2013, 221, 222-229.	12.7	121
16	Space-Confined Earth-Abundant Bifunctional Electrocatalyst for High-Efficiency Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 36762-36771.	8.0	114
17	Lattice-Confined Sn (IV/II) Stabilizing Raft-Like Pt Clusters: High Selectivity and Durability in Propane Dehydrogenation. <i>ACS Catalysis</i> , 2017, 7, 6973-6978.	11.2	109
18	Electron Transfer Dynamics in Semiconductor-Chromophore-Polyoxometalate Catalyst Photoanodes. <i>Journal of Physical Chemistry C</i> , 2013, 117, 918-926.	3.1	108

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19	Single-Crystalline ZnGa ₂ O ₄ Spinel Phosphor via a Single-Source Inorganic Precursor Route. <i>Inorganic Chemistry</i> , 2008, 47, 1361-1369.	4.0	99
20	An Integrating Photoanode of WO ₃ /Fe ₂ O ₃ Heterojunction Decorated with NiFe-LDH to Improve PEC Water Splitting Efficiency. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 12906-12913.	6.7	96
21	Photoelectrochemical Water Oxidation Efficiency of a Core/Shell Array Photoanode Enhanced by a Dual Suppression Strategy. <i>ChemSusChem</i> , 2015, 8, 1568-1576.	6.8	95
22	Co-based catalysts from Co/Fe/Al layered double hydroxides for preparation of carbon nanotubes. <i>Applied Clay Science</i> , 2009, 42, 405-409.	5.2	89
23	Ultrafine MnO ₂ nanoparticles decorated on graphene oxide as a highly efficient and recyclable catalyst for aerobic oxidation of benzyl alcohol. <i>Journal of Colloid and Interface Science</i> , 2016, 483, 26-33.	9.4	83
24	Surface functionalization of Co ₃ O ₄ hollow spheres with ZnO nanoparticles for modulating sensing properties of formaldehyde. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 359-368.	7.8	82
25	Facile Synthesis and Catalytic Properties of Nickel-Based Mixed-Metal Oxides with Mesopore Networks from a Novel Hybrid Composite Precursor. <i>Chemistry of Materials</i> , 2008, 20, 1173-1182.	6.7	78
26	Long lived charge separation in iridium(iii)-photosensitized polyoxometalates: synthesis, photophysical and computational studies of organometallic redox tunable oxide assemblies. <i>Chemical Science</i> , 2013, 4, 1737.	7.4	75
27	Solar-Driven H ₂ O ₂ Generation From H ₂ O and O ₂ Using Earth-Abundant Mixed-Metal Oxide@Carbon Nitride Photocatalysts. <i>ChemSusChem</i> , 2016, 9, 2470-2479.	6.8	75
28	Selective Activation of -OH, -O=C, or -C in Furfuryl Alcohol by Engineered Pt Sites Supported on Layered Double Oxides. <i>ACS Catalysis</i> , 2020, 10, 8032-8041.	11.2	73
29	Natural Nanotube-Based Biomimetic Porous Microspheres for Significantly Enhanced Biomolecule Immobilization. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 396-403.	6.7	68
30	Highly efficient extraction of lithium from salt lake brine by LiAl-layered double hydroxides as lithium-ion-selective capturing material. <i>Journal of Energy Chemistry</i> , 2019, 34, 80-87.	12.9	68
31	Water splitting with polyoxometalate-treated photoanodes: enhancing performance through sensitizer design. <i>Chemical Science</i> , 2015, 6, 5531-5543.	7.4	67
32	Enhancing Photoelectrochemical Water Oxidation Efficiency of BiVO ₄ Photoanodes by a Hybrid Structure of Layered Double Hydroxide and Graphene. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 10711-10719.	3.7	67
33	Facile Sodium Alginate Assisted Assembly of Ni ²⁺ /Al Layered Double Hydroxide Nanostructures. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 2759-2767.	3.7	61
34	Assembly of Ruthenium-Based Complex into Metal-Organic Framework with Tunable Area-Selected Luminescence and Enhanced Photon-to-Electron Conversion Efficiency. <i>Journal of Physical Chemistry C</i> , 2014, 118, 25365-25373.	3.1	61
35	Energy-level dependent H ₂ O ₂ production on metal-free, carbon-content tunable carbon nitride photocatalysts. <i>Journal of Energy Chemistry</i> , 2018, 27, 343-350.	12.9	60
36	Preparation of ternary Pd/CeO ₂ -nitrogen doped graphene composites as recyclable catalysts for solvent-free aerobic oxidation of benzyl alcohol. <i>Applied Surface Science</i> , 2019, 471, 852-861.	6.1	60

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37	Research Progress in Organic Synthesis by Means of Photoelectrocatalysis. <i>Chemical Record</i> , 2021, 21, 841-857.	5.8	60
38	A mild solution chemistry method to synthesize hydrotalcite-supported platinum nanocrystals for selective hydrogenation of cinnamaldehyde in neat water. <i>Catalysis Science and Technology</i> , 2013, 3, 2819.	4.1	57
39	Increasing the Activity and Selectivity of TiO ₂ -Supported Au Catalysts for Renewable Hydrogen Generation from Ethanol Photoreforming by Engineering Ti ³⁺ Defects. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 13856-13864.	6.7	57
40	An integrated membrane process for preparation of lithium hydroxide from high Mg/Li ratio salt lake brine. <i>Desalination</i> , 2020, 493, 114620.	8.2	56
41	Ultrafine PtCo Alloy Nanoclusters Confined in N-Doped Mesoporous Carbon Spheres for Efficient Ammonia Borane Hydrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 822-832.	6.7	54
42	Recent Advances in Heterogeneous Photo-Driven Oxidation of Organic Molecules by Reactive Oxygen Species. <i>ChemSusChem</i> , 2020, 13, 5173-5184.	6.8	53
43	Single-Source Precursor to Complex Metal Oxide Monoliths with Tunable Microstructures and Properties: The Case of Mg-Containing Materials. <i>Chemistry of Materials</i> , 2007, 19, 6518-6527.	6.7	52
44	Plasmon-Enhanced Layered Double Hydroxide Composite BiVO ₄ Photoanodes: Layering-Dependent Modulation of the Water-Oxidation Reaction. <i>ACS Applied Energy Materials</i> , 2018, 1, 3577-3586.	5.1	52
45	Novel carbon nanostructures of caterpillar-like fibers and interwoven spheres with excellent surface super-hydrophobicity produced by chemical vapor deposition. <i>Journal of Materials Chemistry</i> , 2008, 18, 1245.	6.7	50
46	Co-Al mixed metal oxides/carbon nanotubes nanocomposite prepared via a precursor route and enhanced catalytic property. <i>Journal of Solid State Chemistry</i> , 2013, 197, 14-22.	2.9	49
47	Fabricating roughened surfaces on halloysite nanotubes via alkali etching for deposition of high-efficiency Pt nanocatalysts. <i>CrystEngComm</i> , 2015, 17, 3110-3116.	2.6	49
48	Acidic Electrochemical Reduction of CO ₂ Using Nickel Nitride on Multiwalled Carbon Nanotube as Selective Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 6106-6112.	6.7	49
49	Insights into the Multiple Synergies of Supports in the Selective Oxidation of Glycerol to Dihydroxyacetone: Layered Double Hydroxide Supported Au. <i>ACS Catalysis</i> , 2020, 10, 12437-12453.	11.2	48
50	Liquid-Phase Hydrogenation of Cinnamaldehyde: Enhancing Selectivity of Supported Gold Catalysts by Incorporation of Cerium into the Support. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 288-296.	3.7	47
51	Roughening of windmill-shaped spinel Co ₃ O ₄ microcrystals grown on a flexible metal substrate by a facile surface treatment to enhance their performance in the oxidation of water. <i>RSC Advances</i> , 2014, 4, 43357-43365.	3.6	47
52	Highly Efficient Separation of Magnesium and Lithium and High-Valued Utilization of Magnesium from Salt Lake Brine by a Reaction-Coupled Separation Technology. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 6618-6626.	3.7	47
53	The confined space electron transfer in phosphotungstate intercalated ZnAl-LDHs enhances its photocatalytic performance for oxidation/extraction desulfurization of model oil in air. <i>Green Chemistry</i> , 2018, 20, 5509-5519.	9.0	47
54	Carbon-supported high-entropy Co-Zn-Cd-Cu-Mn sulfide nanoarrays promise high-performance overall water splitting. <i>Nano Research</i> , 2022, 15, 6054-6061.	10.4	47

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55	Recycling-oriented cathode materials design for lithium-ion batteries: Elegant structures versus complicated compositions. <i>Energy Storage Materials</i> , 2021, 41, 380-394.	18.0	46
56	Mediating the Oxidizing Capability of Surface-Bound Hydroxyl Radicals Produced by Photoelectrochemical Water Oxidation to Convert Glycerol into Dihydroxyacetone. <i>ACS Catalysis</i> , 2022, 12, 6946-6957.	11.2	45
57	Ni-based supported catalysts from layered double hydroxides: Tunable microstructure and controlled property for the synthesis of carbon nanotubes. <i>Chemical Engineering Journal</i> , 2009, 155, 474-482.	12.7	44
58	Polymeric carbon nitride with frustrated Lewis pair sites for enhanced photofixation of nitrogen. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13292-13298.	10.3	44
59	Effect of Mo doping and NiFe-LDH cocatalyst on PEC water oxidation efficiency. <i>Journal of Colloid and Interface Science</i> , 2019, 540, 9-19.	9.4	43
60	Enhanced Activity of Supported Ni Catalysts Promoted by Pt for Rapid Reduction of Aromatic Nitro Compounds. <i>Nanomaterials</i> , 2016, 6, 103.	4.1	40
61	Ag/Ultrathin-Layered Double Hydroxide Nanosheets Induced by a Self-Redox Strategy for Highly Selective CO ₂ Reduction. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 16536-16544.	8.0	40
62	Uniform CdS-decorated carbon microsheets with enhanced photocatalytic hydrogen evolution under visible-light irradiation. <i>Journal of Alloys and Compounds</i> , 2019, 770, 886-895.	5.5	39
63	Highly Efficient Lithium Extraction from Brine with a High Sodium Content by Adsorption-Coupled Electrochemical Technology. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 11022-11031.	6.7	38
64	Highly Active Supported Pt Nanocatalysts Synthesized by Alcohol Reduction towards Hydrogenation of Cinnamaldehyde: Synergy of Metal Valence and Hydroxyl Groups. <i>Chemistry - an Asian Journal</i> , 2015, 10, 1561-1570.	3.3	37
65	One-dimensional gallium nitride micro/nanostructures synthesized by a space-confined growth technique. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 87, 651-659.	2.3	35
66	Investigation of the structure and surface characteristics of Cu ²⁺ -Ni ²⁺ -M(III) mixed oxides (M=Al, Cr and Tj ETQq0,0,0 r gBT /Overlock 1	6.1	35
67	Determination of boundary conditions for highly efficient separation of magnesium and lithium from salt lake brine by reaction-coupled separation technology. <i>Separation and Purification Technology</i> , 2019, 229, 115813.	7.9	34
68	Enhancing Light-Driven Production of Hydrogen Peroxide by Anchoring Au onto C ₃ N ₄ Catalysts. <i>Catalysts</i> , 2018, 8, 147.	3.5	33
69	Ni ⁰ /Ni ⁺ Synergistic Catalysis on a Nanosized Ni Surface for Simultaneous Formation of C-C and C-N Bonds. <i>ACS Catalysis</i> , 2019, 9, 11438-11446.	11.2	32
70	Acid-Base Promoted Dehydrogenation Coupling of Ethanol on Supported Ag Particles. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 3342-3350.	3.7	31
71	A Facile and Green Synthesis Route to Mesoporous Spinel-type Zn ²⁺ Al Complex Oxide. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 1495-1500.	3.7	27
72	Formation and catalytic performance of supported ni nanoparticles via self-reduction of hybrid NiAl-LDH/C composites. <i>AIChE Journal</i> , 2010, 56, 2934-2945.	3.6	26

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73	Template-assisted fabrication of macroporous NiFe ₂ O ₄ films with tunable microstructural, magnetic and interfacial properties. <i>Journal of Materials Chemistry</i> , 2010, 20, 7378.	6.7	26
74	Controlling the Structure and Photoelectrochemical Performance of BiVO ₄ Photoanodes Prepared from Electrodeposited Bismuth Precursors: Effect of Zinc Ions as Directing Agent. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 10723-10730.	3.7	24
75	Transition Metal Substitution Effects on Metal-to-Polyoxometalate Charge Transfer. <i>Inorganic Chemistry</i> , 2016, 55, 4308-4319.	4.0	24
76	Preparation of LiOH through BMED process from lithium-containing solutions: Effects of coexisting ions and competition between Na ⁺ and Li ⁺ . <i>Desalination</i> , 2021, 512, 115126.	8.2	24
77	Doping of Chlorine from a Neoprene Adhesive Enhances Degradation Efficiency of Dyes by Structured TiO ₂ -Coated Photocatalytic Fabrics. <i>Catalysts</i> , 2020, 10, 69.	3.5	24
78	Hydrophilic Modification Using Polydopamine on Core-Shell Li _{1.6} Mn _{1.6} O ₄ @Carbon Electrodes for Lithium Extraction from Lake Brine. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 8970-8979.	6.7	22
79	Porous and superparamagnetic magnesium ferrite film fabricated via a precursor route. <i>Journal of Alloys and Compounds</i> , 2010, 499, 30-34.	5.5	20
80	Pd-Co ₂ P nanoparticles supported on N-doped biomass-based carbon microsheet with excellent catalytic performance for hydrogen evolution from formic acid. <i>Applied Surface Science</i> , 2020, 530, 147191.	6.1	20
81	Highly Efficient Lithium Recovery from Pre-Synthesized Chlorine-Ion-Intercalated LiAl-Layered Double Hydroxides via a Mild Solution Chemistry Process. <i>Materials</i> , 2019, 12, 1968.	2.9	19
82	Thermo-responsive polymer grafted carbon nanotubes as the catalyst support for selective hydrogenation of cinnamaldehyde: Effects of surface chemistry on catalytic performance. <i>Applied Catalysis A: General</i> , 2019, 575, 11-19.	4.3	19
83	Recent Advances in Layered Double Hydroxide-Based Materials as Versatile Photocatalysts. <i>Reviews in Advanced Sciences and Engineering</i> , 2014, 3, 158-171.	0.6	19
84	Hybrid ZnAl-LDH/CNTs nanocomposites: Noncovalent assembly and enhanced photodegradation performance. <i>AIChE Journal</i> , 2010, 56, 768-778.	3.6	18
85	Photo-responsive behaviors and structural evolution of carbon-nanotube-supported energetic materials under a photoflash. <i>Materials Letters</i> , 2012, 88, 27-29.	2.6	18
86	Enhanced Hydrogen Production from Ethanol Photoreforming by Site-Specific Deposition of Au on Cu ₂ O/TiO ₂ p-n Junction. <i>Catalysts</i> , 2020, 10, 539.	3.5	18
87	Atomic Pt-Catalyzed Heterogeneous Anti-Markovnikov C-N Formation: Pt ₁ ⁰ Activating N-H for Pt ₁ ⁺ -Activated C-C Attack. <i>Journal of the American Chemical Society</i> , 2020, 142, 9017-9027.	13.7	18
88	A nanocomposite precursor strategy to mixed-metal oxides with excellent catalytic activity for thermal decomposition of ammonium perchlorate. <i>Applied Clay Science</i> , 2012, 65-66, 14-20.	5.2	17
89	Atomic Ru catalysis for ethanol coupling to C ₄ + alcohols. <i>Applied Catalysis B: Environmental</i> , 2022, 309, 121271.	20.2	17
90	Construction of interconnected NiO/CoFe alloy nanosheets for overall water splitting. <i>Renewable Energy</i> , 2022, 194, 459-468.	8.9	15

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91	Ultrafine Co ₃ O ₄ nanolayer-shelled CoWP nanowire array: a bifunctional electrocatalyst for overall water splitting. RSC Advances, 2020, 10, 29326-29335.	3.6	14
92	Z-Scheme ZnM-LDHs/g-C ₃ N ₄ (M = Al, Cr) Photocatalysts: Their Desulfurization Performance and Mechanism for Model Oil with Air. Energy & Fuels, 2020, 34, 14676-14687.	5.1	13
93	Insights into Photocatalytic Selective Dehydrogenation of Ethanol over Au/Anatase“Rutile TiO ₂ . Industrial & Engineering Chemistry Research, 2021, 60, 12282-12291.	3.7	11
94	Selective Photocatalytic Activation of Ethanol C-H and O-H Bonds over Multi-Au@SiO ₂ /TiO ₂ : Role of Catalyst Surface Structure and Reaction Kinetics. ACS Applied Materials & Interfaces, 2022, 14, 2848-2859.	8.0	10
95	Synthesis of poly(AA-co-AM) superabsorbent composites by reinforcement of halloysite nanotubes. Polymer Composites, 2015, 36, 229-236.	4.6	7
96	CoGa Particles Stabilized by the Combination of Alloyed Ga ⁰ and Lattice Ga ^{III} Species. Industrial & Engineering Chemistry Research, 2020, 59, 8649-8660.	3.7	6
97	Interfacial Sites in Ag Supported Layered Double Oxide for Dehydrogenation Coupling of Ethanol to <i>n</i> -Butanol. ChemistryOpen, 2021, 10, 1095-1103.	1.9	5
98	Synthesis of Tunable-Acidity Vanadium Phosphorus Oxide Catalysts Modified by Layered Double Oxide for the Selective Oxidation of <i>n</i> -Butane. Industrial & Engineering Chemistry Research, 2022, 61, 3850-3859.	3.7	5
99	Nucleation-Oxidation coupled technology for High-Nickel ternary cathode recycling of spent Lithium-ion batteries. Separation and Purification Technology, 2022, 298, 121569.	7.9	5
100	Novel 2D self-assembled arrays of SiO _x nanowire bundles. Materials Letters, 2007, 61, 3662-3665.	2.6	4
101	Ternary Composite of Biomass Porous Carbon/SnO ₂ /Pt: An Efficient Catalyst for Reduction of Aromatic Nitro Compounds. ChemistrySelect, 2018, 3, 5066-5072.	1.5	4
102	Effects of temperature on laser diode ignition. Optik, 2009, 120, 85-88.	2.9	3
103	Direct preparation of battery-grade lithium carbonate via a nucleation-crystallization isolating process intensified by a micro-liquid film reactor. Canadian Journal of Chemical Engineering, 2023, 101, 870-882.	1.7	3
104	INVESTIGATION ON OXYGEN-EQUILIBRIUM EFFECTS OF LASER IGNITION OF ENERGETIC MATERIALS. Modern Physics Letters B, 2006, 20, 353-358.	1.9	2
105	The preparation of PLL-GRGDS modified PTSG copolymer scaffolds and their effects on manufacturing artificial salivary gland. Journal of Biomaterials Science, Polymer Edition, 2013, 24, 1721-1739.	3.5	2
106	<i>In-situ</i> conversion and catalytic properties of mixed-metal oxide catalysts for photosynthesis of hydrogen peroxide. Scientia Sinica Chimica, 2017, 47, 465-473.	0.4	2
107	Liquid-Phase Synthesis of NiO-Loaded Ag Nanoparticles and Enhanced Photo-Degradation Performance. Advanced Materials Research, 0, 287-290, 145-149.	0.3	1
108	Hierarchical Structures of Silicon Oxynitride Nanowires Formed by a Gallium-Catalyzed <i>In Situ</i> Reactive Technique. Advanced Materials Research, 2011, 284-286, 717-721.	0.3	1

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109	Indium-substituted ZnO/reduced graphene oxide nanocomposites: Solvothermal synthesis and enhanced visible-light-driven photocatalytic activity. Functional Materials Letters, 2014, 07, 1450013.	1.2	1
110	Assessment on the Water Vapor Flux from Atmospheric Reanalysis Data in the South China Sea on 2019 Summer. Journal of Hydrometeorology, 2022, 23, 847-858.	1.9	1