

Jingsan Xu

List of Publications by Year in descending order

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96
papers

8,972
citations

50276

46
h-index

40979

93
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100
all docs

100
docs citations

100
times ranked

9333
citing authors

#	ARTICLE	IF	CITATIONS
1	Unique S-scheme heterojunctions in self-assembled TiO ₂ /CsPbBr ₃ hybrids for CO ₂ photoreduction. Nature Communications, 2020, 11, 4613.	12.8	776
2	A direct Z-scheme g-C ₃ N ₄ /SnS ₂ photocatalyst with superior visible-light CO ₂ reduction performance. Journal of Catalysis, 2017, 352, 532-541.	6.2	721
3	2D/2D g-C ₃ N ₄ /MnO ₂ Nanocomposite as a Direct Z-Scheme Photocatalyst for Enhanced Photocatalytic Activity. ACS Sustainable Chemistry and Engineering, 2018, 6, 965-973.	6.7	519
4	CuInS ₂ sensitized TiO ₂ hybrid nanofibers for improved photocatalytic CO ₂ reduction. Applied Catalysis B: Environmental, 2018, 230, 194-202.	20.2	407
5	Unveiling the origin of boosted photocatalytic hydrogen evolution in simultaneously (S, P) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 84-94.	20.2	300
6	Tuning the Morphology of g-C ₃ N ₄ for Improvement of Z-Scheme Photocatalytic Water Oxidation. ACS Applied Materials & Interfaces, 2015, 7, 15285-15293.	8.0	256
7	Cobalt nanoparticle-embedded nitrogen-doped carbon/carbon nanotube frameworks derived from a metal-organic framework for tri-functional ORR, OER and HER electrocatalysis. Journal of Materials Chemistry A, 2019, 7, 3664-3672.	10.3	243
8	Phenyl-Modified Carbon Nitride Quantum Dots with Distinct Photoluminescence Behavior. Angewandte Chemie - International Edition, 2016, 55, 3672-3676.	13.8	233
9	Liquid-Based Growth of Polymeric Carbon Nitride Layers and Their Use in a Mesoporous Polymer Solar Cell with <i>V_{oc}</i> Exceeding 1 V. Journal of the American Chemical Society, 2014, 136, 13486-13489.	13.7	227
10	Hierarchical TiO ₂ /Ni(OH) ₂ composite fibers with enhanced photocatalytic CO ₂ reduction performance. Journal of Materials Chemistry A, 2018, 6, 4729-4736.	10.3	212
11	Monodisperse Fe ₃ O ₄ and ⁵⁷ Fe ₂ O ₃ Magnetic Mesoporous Microspheres as Anode Materials for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2012, 4, 4752-4757.	8.0	207
12	Graphdiyne: A New Photocatalytic CO ₂ Reduction Cocatalyst. Advanced Functional Materials, 2019, 29, 1904256.	14.9	207
13	1D/2D TiO ₂ /MoS ₂ Hybrid Nanostructures for Enhanced Photocatalytic CO ₂ Reduction. Advanced Optical Materials, 2018, 6, 1800911.	7.3	190
14	Cryopolymerization enables anisotropic polyaniline hybrid hydrogels with superelasticity and highly deformation-tolerant electrochemical energy storage. Nature Communications, 2020, 11, 62.	12.8	189
15	Silver Phosphate/Graphitic Carbon Nitride as an Efficient Photocatalytic Tandem System for Oxygen Evolution. ChemSusChem, 2015, 8, 1350-1358.	6.8	178
16	Probing supramolecular assembly and charge carrier dynamics toward enhanced photocatalytic hydrogen evolution in 2D graphitic carbon nitride nanosheets. Applied Catalysis B: Environmental, 2019, 256, 117867.	20.2	137
17	Palladium/Graphitic Carbon Nitride (g-C ₃ N ₄) Stabilized Emulsion Microreactor as a Store for Hydrogen from Ammonia Borane for Use in Alkene Hydrogenation. Angewandte Chemie - International Edition, 2018, 57, 14857-14861.	13.8	135
18	The Performance of Nanoparticulate Graphitic Carbon Nitride as an Amphiphile. Journal of the American Chemical Society, 2017, 139, 6026-6029.	13.7	130

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19	Strongly interfacial-coupled 2D-2D TiO ₂ /g-C ₃ N ₄ heterostructure for enhanced visible-light induced synthesis and conversion. <i>Journal of Hazardous Materials</i> , 2020, 394, 122529.	12.4	118
20	Metal-Free Multi-Heteroatom-Doped Carbon Bifunctional Electrocatalysts Derived from a Covalent Triazine Polymer. <i>Small</i> , 2020, 16, e2004342.	10.0	117
21	Step-by-Step Mechanism Insights into the TiO ₂ /Ce ₂ S ₃ S-Scheme Photocatalyst for Enhanced Aniline Production with Water as a Proton Source. <i>ACS Catalysis</i> , 2022, 12, 164-172.	11.2	117
22	Color-Tunable Photoluminescence and NIR Electroluminescence in Carbon Nitride Thin Films and Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2015, 3, 913-917.	7.3	115
23	Upconversion-Agent Induced Improvement of g-C ₃ N ₄ Photocatalyst under Visible Light. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 16481-16486.	8.0	104
24	Self-assembled carbon nitride for photocatalytic hydrogen evolution and degradation of p-nitrophenol. <i>Applied Catalysis B: Environmental</i> , 2017, 205, 1-10.	20.2	102
25	Caffeine Doping of Carbon/Nitrogen-Based Organic Catalysts: Caffeine as a Supramolecular Edge Modifier for the Synthesis of Photoactive Carbon Nitride Tubes. <i>ChemCatChem</i> , 2015, 7, 2826-2830.	3.7	96
26	MoSe ₂ Nanosheet Array with Layered MoS ₂ Heterostructures for Superior Hydrogen Evolution and Lithium Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 44550-44559.	8.0	96
27	Self-Templated Conversion of Metallogel into Heterostructured TMP@Carbon Quasicaerogels Boosting Bifunctional Electrocatalysis. <i>Advanced Functional Materials</i> , 2019, 29, 1903660.	14.9	93
28	Promoting intramolecular charge transfer of graphitic carbon nitride by donor-acceptor modulation for visible-light photocatalytic H ₂ evolution. , 2022, 1, 294-308.		92
29	From Millimeter to Subnanometer: Vapor-Solid Deposition of Carbon Nitride Hierarchical Nanostructures Directed by Supramolecular Assembly. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8426-8430.	13.8	90
30	Supramolecular Chemistry in Molten Sulfur: Preorganization Effects Leading to Marked Enhancement of Carbon Nitride Photoelectrochemistry. <i>Advanced Functional Materials</i> , 2015, 25, 6265-6271.	14.9	89
31	Hydrogen-bonded network enables semi-interpenetrating ionic conductive hydrogels with high stretchability and excellent fatigue resistance for capacitive/resistive bimodal sensors. <i>Chemical Engineering Journal</i> , 2021, 411, 128506.	12.7	88
32	Interpreting the enhanced photoactivities of 0D/1D heterojunctions of CdS quantum dots /TiO ₂ nanotube arrays using femtosecond transient absorption spectroscopy. <i>Applied Catalysis B: Environmental</i> , 2020, 275, 119151.	20.2	84
33	Hierarchically nanostructured porous TiO ₂ (B) with superior photocatalytic CO ₂ reduction activity. <i>Science China Chemistry</i> , 2018, 61, 344-350.	8.2	83
34	Evidencing Interfacial Charge Transfer in 2D CdS/2D MXene Schottky Heterojunctions toward High-Efficiency Photocatalytic Hydrogen Production. <i>Solar Rrl</i> , 2021, 5, 2000414.	5.8	83
35	Recent advances in functional fiber electronics. <i>SusMat</i> , 2021, 1, 105-126.	14.9	77
36	Two-Dimensional Nanosheets by Rapid and Efficient Microwave Exfoliation of Layered Materials. <i>Chemistry of Materials</i> , 2018, 30, 5932-5940.	6.7	76

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37	Electrophoretic Deposition of Carbon Nitride Layers for Photoelectrochemical Applications. ACS Applied Materials & Interfaces, 2016, 8, 13058-13063.	8.0	74
38	Ultrasound-Triggered Assembly of Covalent Triazine Framework for Synthesizing Heteroatom-Doped Carbon Nanoflowers Boosting Metal-Free Bifunctional Electrocatalysis. ACS Applied Materials & Interfaces, 2021, 13, 13328-13337.	8.0	71
39	3D γ -Fe ₂ O ₃ nanorods arrays@graphene oxide nanosheets as sensing materials for improved gas sensitivity. Chemical Engineering Journal, 2019, 370, 1331-1340.	12.7	70
40	Nickel-based cocatalysts for photocatalysis: Hydrogen evolution, overall water splitting and CO ₂ reduction. Materials Today Physics, 2020, 15, 100279.	6.0	70
41	Beyond Hydrogen Evolution: Solar-Driven, Water-Donating Transfer Hydrogenation over Platinum/Carbon Nitride. ACS Catalysis, 2020, 10, 9227-9235.	11.2	68
42	γ -Fe ₂ O ₃ hierarchically hollow microspheres self-assembled with nanosheets: surfactant-free solvothermal synthesis, magnetic and photocatalytic properties. CrystEngComm, 2011, 13, 5162.	2.6	61
43	Synthesis of Organized Layered Carbon by Self-templating of Dithioamide. Advanced Materials, 2016, 28, 6727-6733.	21.0	59
44	Graphitic Carbon Nitride Films: Emerging Paradigm for Versatile Applications. ACS Applied Materials & Interfaces, 2020, 12, 53571-53591.	8.0	57
45	Cobalt, Nitrogen-Doped Porous Carbon Nanosheet-Assembled Flowers from Metal-Coordinated Covalent Organic Polymers for Efficient Oxygen Reduction. ACS Applied Materials & Interfaces, 2019, 11, 1384-1393.	8.0	56
46	Hierarchical Nanostructures of Nitrogen-Doped Porous Carbon Polyhedrons Confined in Carbon Nanosheets for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2018, 10, 19871-19880.	8.0	54
47	Leaf-inspired interwoven carbon nanosheet/nanotube homostructures for supercapacitors with high energy and power densities. Journal of Materials Chemistry A, 2017, 5, 19997-20004.	10.3	49
48	Extremely stretchable and healable ionic conductive hydrogels fabricated by surface competitive coordination for human-motion detection. Chemical Engineering Journal, 2021, 420, 127637.	12.7	47
49	Lignin-incorporated Supramolecular Copolymerization Yielding γ -N ₃ O ₄ Nanoarchitectures for Efficient Photocatalytic Hydrogen Evolution. Solar Rrl, 2021, 5, 2000486.	5.8	46
50	Electrospun TiO ₂ -Based Photocatalysts. Solar Rrl, 2021, 5, 2000571.	5.8	46
51	Sacrificial Agent-Free Photocatalytic Oxygen Evolution from Water Splitting over Ag ₃ PO ₄ /MXene Hybrids. Solar Rrl, 2020, 4, 1900434.	5.8	45
52	Highly Stretchable and Reconfigurable Ionogels with Unprecedented Thermoplasticity and Ultrafast Self-Healability Enabled by Gradient-Responsive Networks. Macromolecules, 2021, 54, 3832-3844.	4.8	45
53	γ -Fe ₂ O ₃ hierarchically nanostructured mesoporous microspheres: Surfactant-free solvothermal combined with heat treatment synthesis, photocatalytic activity and magnetic property. CrystEngComm, 2012, 14, 2702.	2.6	44
54	Hydrogen-bonded network enables polyelectrolyte complex hydrogels with high stretchability, excellent fatigue resistance and self-healability for human motion detection. Composites Part B: Engineering, 2021, 217, 108901.	12.0	44

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55	A biomimetic <i>Setaria viridis</i> -inspired electrode with polyaniline nanowire arrays aligned on MoO ₃ @polypyrrole core-shell nanobelts. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13428-13437.	10.3	43
56	The Complex Role of Carbon Nitride as a Sensitizer in Photoelectrochemical Cells. <i>Advanced Optical Materials</i> , 2015, 3, 1052-1058.	7.3	41
57	Microwave-assisted ionic liquid solvothermal rapid synthesis of hollow microspheres of alkaline earth metal fluorides (MF ₂ , M = Mg, Ca, Sr). <i>CrystEngComm</i> , 2012, 14, 2630.	2.6	40
58	Dense Hydrogen-Bonding Network Boosts Ionic Conductive Hydrogels with Extremely High Toughness, Rapid Self-Recovery, and Autonomous Adhesion for Human-Motion Detection. <i>Research</i> , 2021, 2021, 9761625.	5.7	40
59	Covalent Functionalization of Carbon Nitride Frameworks through Cross-Coupling Reactions. <i>Chemistry - A European Journal</i> , 2018, 24, 14921-14927.	3.3	39
60	Conjugated Carbon Nitride as an Emerging Luminescent Material: Quantum Dots, Thin Films and Their Applications in Imaging, Sensing, Optoelectronic Devices and Photoelectrochemistry. <i>ChemPhotoChem</i> , 2019, 3, 170-179.	3.0	38
61	Microwave-assisted rapid synthesis and photocatalytic activity of mesoporous Nd-doped SrTiO ₃ nanospheres and nanoplates. <i>Materials Letters</i> , 2013, 100, 62-65.	2.6	37
62	Template-free construction of hollow mesoporous carbon spheres from a covalent triazine framework for enhanced oxygen electroreduction. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 3168-3177.	9.4	37
63	Graphitic Carbon Nitride as a Distinct Solid Stabilizer for Emulsion Polymerization. <i>Chemistry - A European Journal</i> , 2018, 24, 2286-2291.	3.3	36
64	Emerging Dual-Channel Transition-Metal Oxide Quasiaerogels by Self-Embedded Templating. <i>Advanced Functional Materials</i> , 2020, 30, 2000024.	14.9	36
65	High-temperature solvent-free sulfidation of MoO ₃ confined in a polypyrrole shell: MoS ₂ nanosheets encapsulated in a nitrogen, sulfur dual-doped carbon nanoprism for efficient lithium storage. <i>Nanoscale</i> , 2018, 10, 7536-7543.	5.6	35
66	Crystal Transformation from the Incorporation of Coordinate Bonds into a Hydrogen-Bonded Network Yields Robust Free-Standing Supramolecular Membranes. <i>Journal of the American Chemical Society</i> , 2020, 142, 479-486.	13.7	35
67	Moving Graphitic Carbon Nitride from Electrocatalysis and Photocatalysis to a Potential Electrode Material for Photoelectric Devices. <i>Chemistry - an Asian Journal</i> , 2016, 11, 2499-2512.	3.3	34
68	Constructing OD FeP Nanodots/2D g-C ₃ N ₄ Nanosheets Heterojunction for Highly Improved Photocatalytic Hydrogen Evolution. <i>ChemCatChem</i> , 2019, 11, 6310-6315.	3.7	33
69	Deterministic Nucleation of InP on Metal Foils with the Thin-Film Vapor-Liquid-Solid Growth Mode. <i>Chemistry of Materials</i> , 2014, 26, 1340-1344.	6.7	32
70	Phenyl-Modified Carbon Nitride Quantum Dots with Distinct Photoluminescence Behavior. <i>Angewandte Chemie</i> , 2016, 128, 3736-3740.	2.0	31
71	Solvent-Exchange Strategy toward Aqueous Dispersible MoS ₂ Nanosheets and Their Nitrogen-Rich Carbon Sphere Nanocomposites for Efficient Lithium/Sodium Ion Storage. <i>Small</i> , 2019, 15, e1903816.	10.0	31
72	Surface Engineering of Carbon Nitride Electrode by Molecular Cobalt Species and Their Photoelectrochemical Application. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1539-1543.	3.3	30

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73	Interlayer-Expanded Metal Sulfides on Graphene Triggered by a Molecularly Self-Promoting Process for Enhanced Lithium Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40317-40323.	8.0	28
74	Hybridizing Carbon Nitride Colloids with a Shell of Water-Soluble Conjugated Polymers for Tunable Full-Color Emission and Synergistic Cell Imaging. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 43966-43974.	8.0	26
75	Direct Observation of Carbon Nitride-Stabilized Pickering Emulsions. <i>Langmuir</i> , 2018, 34, 10135-10143.	3.5	25
76	Toward Efficient Carbon Nitride Photoelectrochemical Cells: Understanding Charge Transfer Processes. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600265.	3.7	24
77	Mechanistic insights into charge carrier dynamics in MoSe ₂ /CdS heterojunctions for boosted photocatalytic hydrogen evolution. <i>Materials Today Physics</i> , 2020, 15, 100261.	6.0	23
78	Solvothermal synthesis, characterization and magnetic properties of γ -Fe ₂ O ₃ and Fe ₃ O ₄ flower-like hollow microspheres. <i>Journal of Solid State Chemistry</i> , 2013, 199, 204-211.	2.9	22
79	Advances and Promises of 2D MXenes as Cocatalysts for Artificial Photosynthesis. <i>Solar Rrl</i> , 2021, 5, 2100603.	5.8	22
80	Enhanced Near-Bandgap Response in InP Nanopillar Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1400061.	19.5	21
81	Palladium/Graphitic Carbon Nitride (g-C ₃ N ₄) Stabilized Emulsion Microreactor as a Store for Hydrogen from Ammonia Borane for Use in Alkene Hydrogenation. <i>Angewandte Chemie</i> , 2018, 130, 15073-15077.	2.0	18
82	From Millimeter to Subnanometer: Vapor-Solid Deposition of Carbon Nitride Hierarchical Nanostructures Directed by Supramolecular Assembly. <i>Angewandte Chemie</i> , 2017, 129, 8546-8550.	2.0	16
83	Superelastic, Fatigue-Resistant, and Flame-Retardant Spongy Conductor for Human Motion Detection against a Harsh High-Temperature Condition. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 7580-7591.	8.0	16
84	Near-field enhancement by plasmonic antennas for photocatalytic Suzuki-Miyaura cross-coupling reactions. <i>Journal of Catalysis</i> , 2021, 397, 205-211.	6.2	14
85	Synthesis of two-dimensional ultrathin photocatalytic materials towards a more sustainable environment. <i>Green Chemistry</i> , 2022, 24, 4728-4741.	9.0	13
86	Integrating a Metal-Organic Framework into Natural Spruce Wood for Efficient Solar-Powered Water Evaporation. <i>Solar Rrl</i> , 2022, 6, .	5.8	13
87	Y ₄ Al ₂ O ₉ hierarchically nanostructured microspheres assembled with nanosheets: Microwave-solvothermal synthesis combined with thermal treatment and photocatalytic property. <i>Materials Letters</i> , 2011, 65, 2793-2796.	2.6	9
88	Unconventional, Gram-Scale Synthesis of a Molecular Dimer Organic Luminogen with Aggregation-Induced Emission. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 40441-40450.	8.0	9
89	Sacrificial Agent-Free Photocatalytic Oxygen Evolution from Water Splitting over Ag ₃ PO ₄ /MXene Hybrids. <i>Solar Rrl</i> , 2020, 4, 2070082.	5.8	8
90	One-Minute Synthesis of a Supramolecular Hydrogel from Suspension-Gel Transition and the Derived Crystalline, Elastic, and Photoactive Aerogels. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53125-53133.	8.0	7

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91	Competition of Hydrogen Bonds and Coordinate Bonds Induces a Reversible Crystal Transformation. <i>Inorganic Chemistry</i> , 2022, 61, 2086-2092.	4.0	6
92	A bioinspired microreactor with interfacial regulation for maximizing selectivity in a catalytic reaction. <i>Chemical Communications</i> , 2020, 56, 8059-8062.	4.1	4
93	Microwave-assisted solvothermal ionic liquid rapid synthesis of aluminum fluorohydroxide single-crystalline octahedra. <i>Materials Letters</i> , 2013, 94, 104-107.	2.6	3
94	Reversible Switching of the Amphiphilicity of Organic-Inorganic Hybrids by Adsorption-Desorption Manipulation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21097-21102.	3.1	1
95	Colorful Silver/Carbon Nitride Composites Obtained by Photoreduction. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 1136-1140.	2.6	1
96	Stepped Porous Carbon-Multilayer Graphene@Fe ₃ C/Fe ₃ N Membrane to Inhibit the Polysulfides Shuttle for High-Performance Lithium-Sulfur Batteries. <i>Advanced Sustainable Systems</i> , 2022, 6, .	5.3	1