

Can Xue

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

90 papers	8,901 citations	51 h-index	93 g-index
93 ext. papers	9,678 ext. citations	10.6 avg, IF	6.26 L-index

#	Paper	IF	Citations
90	Synergistic effect of Ru-N4 sites and Cu-N3 sites in carbon nitride for highly selective photocatalytic reduction of CO ₂ to methane. <i>Applied Catalysis B: Environmental</i> , 2022 , 307, 121154	21.8	4
89	Plasmonic Coupling Architectures for Enhanced Photocatalysis. <i>Advanced Materials</i> , 2021 , 33, e2005738	24	14
88	Single metal atom decorated photocatalysts: Progress and challenges. <i>Nano Research</i> , 2021 , 14, 934-944	10	30
87	Atomic- and Molecular-Level Functionalizations of Polymeric Carbon Nitride for Solar Fuel Production. <i>Solar Rrl</i> , 2021 , 5, 2000440	7.1	5
86	2,4,6-Triphenyl-1,3,5-Triazine Based Covalent Organic Frameworks for Photoelectrochemical H ₂ Evolution. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2002191	4.6	10
85	Plasmon Coupling-Induced Hot Electrons for Photocatalytic Hydrogen Generation. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 3683-3688	4.5	0
84	MoSe ₂ /g-C ₃ N ₄ heterojunction coupled with Pt nanoparticles for enhanced photocatalytic hydrogen evolution. <i>Journal of Physics and Chemistry of Solids</i> , 2021 , 156, 110137	3.9	1
83	Polymeric carbon nitride with internal n-p homojunctions for efficient photocatalytic CO ₂ reduction coupled with cyclohexene oxidation. <i>Applied Catalysis B: Environmental</i> , 2021 , 298, 120568	21.8	11
82	Grafting Molecular Cobalt-oxo Cubane Catalyst on Polymeric Carbon Nitride for Efficient Photocatalytic Water Oxidation. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 2480-2486	4.5	15
81	Building Oxime-Ni Complex on Polymeric Carbon Nitride: Molecular-Level Design of Highly Efficient Hydrogen Generation Photocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 868-876	9.5	25
80	Pyrene-functionalized polymeric carbon nitride with promoted aqueous-organic biphasic photocatalytic CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7373-7379	13	28
79	Triphenylamine based conjugated microporous polymers for selective photoreduction of CO ₂ to CO under visible light. <i>Green Chemistry</i> , 2019 , 21, 6606-6610	10	32
78	Oxygen-assisted stabilization of single-atom Au during photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24217-24221	13	37
77	Water-Dispersed Conjugated Polyelectrolyte for Visible-Light Hydrogen Production. <i>Solar Rrl</i> , 2019 , 3, 1800255	7.1	20
76	Triangular AgAu@Pt core-shell nanoframes with a dendritic Pt shell and enhanced electrocatalytic performance toward the methanol oxidation reaction. <i>Nanoscale</i> , 2018 , 10, 2231-2235	7.7	54
75	Dibenzothiophene-S,S-Dioxide-Based Conjugated Polymers: Highly Efficient Photocatalysts for Hydrogen Production from Water under Visible Light. <i>Small</i> , 2018 , 14, e1801839	11	57
74	In Situ Decoration of Zn Cd S with FeP for Efficient Photocatalytic Generation of Hydrogen under Irradiation with Visible Light. <i>ChemPlusChem</i> , 2018 , 83, 825-830	2.8	14

73	Molecular modulation of fluorene-dibenzothiophene-S,S-dioxide-based conjugated polymers for enhanced photoelectrochemical water oxidation under visible light. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 2021-2025	7.8	7
72	MoS ₂ -coated microspheres of self-sensitized carbon nitride for efficient photocatalytic hydrogen generation under visible light irradiation. <i>Applied Surface Science</i> , 2017 , 396, 1808-1815	6.7	63
71	Compact carbon nitride based copolymer films with controllable thickness for photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19062-19071	13	34
70	Homogenous Boron-doping in Self-sensitized Carbon Nitride for Enhanced Visible-light Photocatalytic Activity. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 3169-3173	4.5	22
69	Constructing Ru/TiO ₂ Heteronanostructures Toward Enhanced Photocatalytic Water Splitting via a RuO ₂ /TiO ₂ Heterojunction and Ru/TiO ₂ Schottky Junction. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500631	4.6	49
68	Promoting Pd-catalyzed Suzuki coupling reactions through near-infrared plasmon excitation of WO ₃ nanowires. <i>Applied Catalysis B: Environmental</i> , 2016 , 184, 258-263	21.8	46
67	Self-Sensitized Carbon Nitride Microspheres for Long-Lasting Visible-Light-Driven Hydrogen Generation. <i>Small</i> , 2016 , 12, 3543-9	11	60
66	MoS ₂ /TiO ₂ Edge-On Heterostructure for Efficient Photocatalytic Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2016 , 6, 1600464	21.8	226
65	Single-Crystalline W-Doped VO ₂ Nanobeams with Highly Reversible Electrical and Plasmonic Responses Near Room Temperature. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600164	4.6	52
64	Ag-Ag ₂ S Hybrid Nanoprisms: Structural versus Plasmonic Evolution. <i>ACS Nano</i> , 2016 , 10, 5362-73	16.7	49
63	In situ growth of WO ₃ nanowires on g-C ₃ N ₄ nanosheets: 1D/2D heterostructures with enhanced photocatalytic activity. <i>CrystEngComm</i> , 2016 , 18, 8406-8410	3.3	42
62	Controllable galvanic synthesis of triangular Ag-Pd alloy nanoframes for efficient electrocatalytic methanol oxidation. <i>Chemistry - A European Journal</i> , 2015 , 21, 8691-5	4.8	44
61	Surfactant-free synthesis of plasmonic tungsten oxide nanowires with visible-light-enhanced hydrogen generation from ammonia borane. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 1291-4	4.5	60
60	One-pot synthesis of CdS nanocrystals hybridized with single-layer transition-metal dichalcogenide nanosheets for efficient photocatalytic hydrogen evolution. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 1210-4	16.4	519
59	One-pot Synthesis of CdS Nanocrystals Hybridized with Single-Layer Transition-Metal Dichalcogenide Nanosheets for Efficient Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie</i> , 2015 , 127, 1226-1230	3.6	129
58	Template-free synthesis of porous graphitic carbon nitride microspheres for enhanced photocatalytic hydrogen generation with high stability. <i>Applied Catalysis B: Environmental</i> , 2015 , 165, 503-510	21.8	161
57	Improving photocatalytic hydrogen production of metal-organic framework UiO-66 octahedrons by dye-sensitization. <i>Applied Catalysis B: Environmental</i> , 2015 , 168-169, 572-576	21.8	217
56	Selective photocatalytic decomposition of formic acid over AuPd nanoparticle-decorated TiO ₂ nanofibers toward high-yield hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2015 , 162, 204-209	21.8	83

55	Dye-sensitized MIL-101 metal organic frameworks loaded with Ni/NiOx nanoparticles for efficient visible-light-driven hydrogen generation. <i>APL Materials</i> , 2015 , 3, 104403	5.7	51
54	Amine-Functionalized ZnO Nanosheets for Efficient CO ₂ Capture and Photoreduction. <i>Molecules</i> , 2015 , 20, 18847-55	4.8	36
53	Temperature-controlled morphology evolution of graphitic carbon nitride nanostructures and their photocatalytic activities under visible light. <i>RSC Advances</i> , 2015 , 5, 49317-49325	3.7	84
52	Enhanced visible-light-driven photocatalytic hydrogen generation over g-C ₃ N ₄ through loading the noble metal-free NiS ₂ cocatalyst. <i>RSC Advances</i> , 2014 , 4, 6127	3.7	124
51	Hetero-nanostructured suspended photocatalysts for solar-to-fuel conversion. <i>Energy and Environmental Science</i> , 2014 , 7, 3934-3951	35.4	408
50	Direct evidence of plasmon enhancement on photocatalytic hydrogen generation over Au/Pt-decorated TiO ₂ nanofibers. <i>Nanoscale</i> , 2014 , 6, 5217-22	7.7	130
49	Triangular Ag-Pd alloy nanoprisms: rational synthesis with high-efficiency for electrocatalytic oxygen reduction. <i>Nanoscale</i> , 2014 , 6, 11738-43	7.7	35
48	Efficient CO ₂ capture and photoreduction by amine-functionalized TiO ₂ . <i>Chemistry - A European Journal</i> , 2014 , 20, 10220-2	4.8	77
47	Edge-Gold-Coated Silver Nanoprisms: Enhanced Stability and Applications in Organic Photovoltaics and Chemical Sensing. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 12459-12468	3.8	45
46	Programmable photo-electrochemical hydrogen evolution based on multi-segmented CdS-Au nanorod arrays. <i>Advanced Materials</i> , 2014 , 26, 3506-12	24	138
45	Dye-sensitized Pt@TiO ₂ core-shell nanostructures for the efficient photocatalytic generation of hydrogen. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 360-4	3	14
44	Microwave-assisted heating synthesis: a general and rapid strategy for large-scale production of highly crystalline g-C ₃ N ₄ with enhanced photocatalytic H ₂ production. <i>Green Chemistry</i> , 2014 , 16, 4663-4668	10	136
43	Rational synthesis of triangular Au-Ag ₂ S hybrid nanoframes with effective photoresponses. <i>Chemistry - A European Journal</i> , 2014 , 20, 2742-5	4.8	19
42	Periodic AuAg-Ag ₂ S heterostructured nanowires. <i>Small</i> , 2014 , 10, 479-82	11	17
41	Solar-to-fuels conversion over In ₂ O ₃ /g-C ₃ N ₄ hybrid photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2014 , 147, 940-946	21.8	328
40	Noble-metal-free g-C ₃ N ₄ /Ni(dmgh) ₂ composite for efficient photocatalytic hydrogen evolution under visible light irradiation. <i>Applied Surface Science</i> , 2014 , 319, 344-349	6.7	142
39	Au@TiO ₂ -CdS ternary nanostructures for efficient visible-light-driven hydrogen generation. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 8088-92	9.5	157
38	Nanoparticle heterojunctions in ZnS/ZnO hybrid nanowires for visible-light-driven photocatalytic hydrogen generation. <i>CrystEngComm</i> , 2013 , 15, 5688	3.3	64

37	Artificial photosynthetic hydrogen evolution over g-C ₃ N ₄ nanosheets coupled with cobaloxime. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 18363-6	3.6	93
36	Large impact of heating time on physical properties and photocatalytic H ₂ production of g-C ₃ N ₄ nanosheets synthesized through urea polymerization in Ar atmosphere. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 13159-13163	6.7	80
35	In-situ growth of CdS quantum dots on g-C ₃ N ₄ nanosheets for highly efficient photocatalytic hydrogen generation under visible light irradiation. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 1258-1266	6.7	302
34	NiS ₂ Co-catalyst decoration on CdLa ₂ S ₄ nanocrystals for efficient photocatalytic hydrogen generation under visible light irradiation. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 7218-7223	6.7	69
33	Red phosphor/g-C ₃ N ₄ heterojunction with enhanced photocatalytic activities for solar fuels production. <i>Applied Catalysis B: Environmental</i> , 2013 , 140-141, 164-168	21.8	200
32	Molecule-based water-oxidation catalysts (WOCs): cluster-size-dependent dye-sensitized polyoxometalates for visible-light-driven O ₂ evolution. <i>Scientific Reports</i> , 2013 , 3, 1853	4.9	64
31	Local Refractive Index Sensing Based on Edge Gold-Coated Silver Nanoprisms. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 23148-23154	3.8	39
30	Au/Pt Nanoparticle-Decorated TiO ₂ Nanofibers with Plasmon-Enhanced Photocatalytic Activities for Solar-to-Fuel Conversion. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 25939-25947	3.8	246
29	Surfactant-free sub-2 nm ultrathin triangular gold nanoframes. <i>Small</i> , 2013 , 9, 2880-6	11	62
28	Gold Coating of Silver Nanoprisms. <i>Advanced Functional Materials</i> , 2012 , 22, 849-854	15.6	108
27	Plasmon-Enhanced Hydrogen Evolution on Au-InVO ₄ Hybrid Microspheres. <i>RSC Advances</i> , 2012 , 2, 5513	3.7	37
26	Preparation of Au-BiVO ₄ heterogeneous nanostructures as highly efficient visible-light photocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 418-23	9.5	231
25	Mesoporous plasmonic Au@TiO ₂ nanocomposites for efficient visible-light-driven photocatalytic water reduction. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 17853-17861	6.7	130
24	Edge gold-coated silver nanoprism [Ag@(Au nanoframe)] for H ₂ O ₂ detection 2012 ,		4
23	In situ growth of Au nanoparticles on Fe ₂ O ₃ nanocrystals for catalytic applications. <i>CrystEngComm</i> , 2012 , 14, 7229	3.3	41
22	Full solution-processed synthesis of all metal oxide-based tree-like heterostructures on fluorine-doped tin oxide for water splitting. <i>Advanced Materials</i> , 2012 , 24, 5374-8	24	123
21	Generation of dual patterns of metal oxide nanomaterials based on seed-mediated selective growth. <i>Langmuir</i> , 2010 , 26, 4616-9	4	11
20	Photochemically controlled synthesis of anisotropic Au nanostructures: platelet-like Au nanorods and six-star Au nanoparticles. <i>ACS Nano</i> , 2010 , 4, 6196-202	16.7	74

19	Matrix-assisted dip-pen nanolithography and polymer pen lithography. <i>Small</i> , 2010 , 6, 1077-81	11	71
18	Polyphenylene Dendrimer-Templated In Situ Construction of Inorganic/Organic Hybrid Rice-Shaped Architectures. <i>Advanced Functional Materials</i> , 2010 , 20, 43-49	15.6	31
17	Chemical fabrication of heterometallic nanogaps for molecular transport junctions. <i>Nano Letters</i> , 2009 , 9, 3974-9	11.5	98
16	Dip-Pen Nanolithography-Generated Patterns Used as Gold Etch Resists: A Comparison Study of 16-Mercaptohexadecanoic Acid and 1-Octadecanethiol. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 4184-4187	2.8	19
15	Plasmonic focusing in rod-sheath heteronanostructures. <i>ACS Nano</i> , 2009 , 3, 87-92	16.7	48
14	In Situ Synthesis of Metal Nanoparticles on Single-Layer Graphene Oxide and Reduced Graphene Oxide Surfaces. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 10842-10846	3.8	650
13	Fabrication of Core/Shell Structure of (M=Se, Au, Ag ₂ Se) and Transformation to Yolk/Shell Structure by Electron Beam Irradiation or Vacuum Annealing. <i>Chemistry of Materials</i> , 2009 , 21, 3848-3852	9.6	53
12	Mechanistic study of photomediated triangular silver nanoprism growth. <i>Journal of the American Chemical Society</i> , 2008 , 130, 8337-44	16.4	330
11	Surface plasmon-mediated energy transfer in heterogap Au-Ag nanowires. <i>Nano Letters</i> , 2008 , 8, 3446-9	11.5	58
10	Patterning Colloidal Metal Nanoparticles for Controlled Growth of Carbon Nanotubes. <i>Advanced Materials</i> , 2008 , 20, 4873-4878	24	68
9	pH-switchable silver nanoprism growth pathways. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 2036-8	16.4	212
8	Plasmon-driven synthesis of triangular core-shell nanoprisms from gold seeds. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 8436-9	16.4	185
7	pH-Switchable Silver Nanoprism Growth Pathways. <i>Angewandte Chemie</i> , 2007 , 119, 2082-2084	3.6	48
6	Plasmon-Driven Synthesis of Triangular Core/Shell Nanoprisms from Gold Seeds. <i>Angewandte Chemie</i> , 2007 , 119, 8588-8591	3.6	47
5	Self-Assembled Monolayer Mediated Silica Coating of Silver Triangular Nanoprisms. <i>Advanced Materials</i> , 2007 , 19, 4071-4074	24	124
4	Designing, fabricating, and imaging Raman hot spots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 13300-3	11.5	397
3	Sacrificial biological templates for the formation of nanostructured metallic microshells. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 5064-7	16.4	96
2	Large-scale assembly of single-crystal silver nanoprism monolayers. <i>Small</i> , 2005 , 1, 513-6	11	86

- 1 General synthesis of semiconductor chalcogenide nanorods by using the monodentate ligand n-butylamine as a shape controller. *Angewandte Chemie - International Edition*, **2002**, 41, 4697-700 16.4 140