Can Xue

List of Publications by Citations

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	In Situ Synthesis of Metal Nanoparticles on Single-Layer Graphene Oxide and Reduced Graphene Oxide Surfaces. *Journal of Physical Chemistry C*, **2009**, 113, 10842-10846	3.8	650
89	One-pot synthesis of CdS nanocrystals hybridized with single-layer transition-metal dichalcogenide nanosheets for efficient photocatalytic hydrogen evolution. *Angewandte Chemie - International Edition*, **2015**, 54, 1210-4	16.4	519
88	Hetero-nanostructured suspended photocatalysts for solar-to-fuel conversion. *Energy and Environmental Science*, **2014**, 7, 3934-3951	35.4	408
87	Designing, fabricating, and imaging Raman hot spots. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 13300-3	11.5	397
86	Mechanistic study of photomediated triangular silver nanoprism growth. *Journal of the American Chemical Society*, **2008**, 130, 8337-44	16.4	330
85	Solar-to-fuels conversion over In2O3/g-C3N4 hybrid photocatalysts. *Applied Catalysis B: Environmental*, **2014**, 147, 940-946	21.8	328
84	In-situ growth of CdS quantum dots on g-C3N4 nanosheets for highly efficient photocatalytic hydrogen generation under visible light irradiation. *International Journal of Hydrogen Energy*, **2013**, 38, 1258-1266	6.7	302
83	Au/Pt Nanoparticle-Decorated TiO2 Nanofibers with Plasmon-Enhanced Photocatalytic Activities for Solar-to-Fuel Conversion. *Journal of Physical Chemistry C*, **2013**, 117, 25939-25947	3.8	246
82	Preparation of Au-BiVO4 heterogeneous nanostructures as highly efficient visible-light photocatalysts. *ACS Applied Materials & Interfaces*, **2012**, 4, 418-23	9.5	231
81	MoS2/TiO2 Edge-On Heterostructure for Efficient Photocatalytic Hydrogen Evolution. *Advanced Energy Materials*, **2016**, 6, 1600464	21.8	226
80	Improving photocatalytic hydrogen production of metal–organic framework UiO-66 octahedrons by dye-sensitization. *Applied Catalysis B: Environmental*, **2015**, 168-169, 572-576	21.8	217
79	pH-switchable silver nanoprism growth pathways. *Angewandte Chemie - International Edition*, **2007**, 46, 2036-8	16.4	212
78	Red phosphor/g-C3N4 heterojunction with enhanced photocatalytic activities for solar fuels production. *Applied Catalysis B: Environmental*, **2013**, 140-141, 164-168	21.8	200
77	Plasmon-driven synthesis of triangular core-shell nanoprisms from gold seeds. *Angewandte Chemie - International Edition*, **2007**, 46, 8436-9	16.4	185
76	Template-free synthesis of porous graphitic carbon nitride microspheres for enhanced photocatalytic hydrogen generation with high stability. *Applied Catalysis B: Environmental*, **2015**, 165, 503-510	21.8	161
75	Au@TiO2-CdS ternary nanostructures for efficient visible-light-driven hydrogen generation. *ACS Applied Materials & Interfaces*, **2013**, 5, 8088-92	9.5	157
74	Noble-metal-free g-C3N4/Ni(dmgH)2 composite for efficient photocatalytic hydrogen evolution under visible light irradiation. *Applied Surface Science*, **2014**, 319, 344-349	6.7	142

73	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
72	Programmable photo-electrochemical hydrogen evolution based on multi-segmented CdS-Au nanorod arrays. *Advanced Materials*, **2014**, 26, 3506-12	24	138
71	Microwave-assisted heating synthesis: a general and rapid strategy for large-scale production of highly crystalline g-C3N4 with enhanced photocatalytic H2 production. *Green Chemistry*, **2014**, 16, 4663-4668	10	136
70	Direct evidence of plasmon enhancement on photocatalytic hydrogen generation over Au/Pt-decorated TiO2 nanofibers. *Nanoscale*, **2014**, 6, 5217-22	7.7	130
69	Mesoporous plasmonic Au□TiO2 nanocomposites for efficient visible-light-driven photocatalytic water reduction. *International Journal of Hydrogen Energy*, **2012**, 37, 17853-17861	6.7	130
68	One-pot Synthesis of CdS Nanocrystals Hybridized with Single-Layer Transition-Metal Dichalcogenide Nanosheets for Efficient Photocatalytic Hydrogen Evolution. *Angewandte Chemie*, **2015**, 127, 1226-1230	3.6	129
67	Enhanced visible-light-driven photocatalytic hydrogen generation over g-C3N4 through loading the noble metal-free NiS2 cocatalyst. *RSC Advances*, **2014**, 4, 6127	3.7	124
66	Self-Assembled Monolayer Mediated Silica Coating of Silver Triangular Nanoprisms. *Advanced Materials*, **2007**, 19, 4071-4074	24	124
65	Full solution-processed synthesis of all metal oxide-based tree-like heterostructures on fluorine-doped tin oxide for water splitting. *Advanced Materials*, **2012**, 24, 5374-8	24	123
64	Gold Coating of Silver Nanoprisms. *Advanced Functional Materials*, **2012**, 22, 849-854	15.6	108
63	Chemical fabrication of heterometallic nanogaps for molecular transport junctions. *Nano Letters*, **2009**, 9, 3974-9	11.5	98
62	Sacrificial biological templates for the formation of nanostructured metallic microshells. *Angewandte Chemie - International Edition*, **2005**, 44, 5064-7	16.4	96
61	Artificial photosynthetic hydrogen evolution over g-C3N4 nanosheets coupled with cobaloxime. *Physical Chemistry Chemical Physics*, **2013**, 15, 18363-6	3.6	93
60	Large-scale assembly of single-crystal silver nanoprism monolayers. *Small*, **2005**, 1, 513-6	11	86
59	Temperature-controlled morphology evolution of graphitic carbon nitride nanostructures and their photocatalytic activities under visible light. *RSC Advances*, **2015**, 5, 49317-49325	3.7	84
58	Selective photocatalytic decomposition of formic acid over AuPd nanoparticle-decorated TiO 2 nanofibers toward high-yield hydrogen production. *Applied Catalysis B: Environmental*, **2015**, 162, 204-209	21.8	83
57	Large impact of heating time on physical properties and photocatalytic H2 production of g-C3N4 nanosheets synthesized through urea polymerization in Ar atmosphere. *International Journal of Hydrogen Energy*, **2013**, 38, 13159-13163	6.7	80
56	Efficient CO2 capture and photoreduction by amine-functionalized TiO2. *Chemistry - A European Journal*, **2014**, 20, 10220-2	4.8	77

55	Photochemically controlled synthesis of anisotropic Au nanostructures: platelet-like Au nanorods and six-star Au nanoparticles. *ACS Nano*, **2010**, 4, 6196-202	16.7	74
54	Matrix-assisted dip-pen nanolithography and polymer pen lithography. *Small*, **2010**, 6, 1077-81	11	71
53	NiS2 Co-catalyst decoration on CdLa2S4 nanocrystals for efficient photocatalytic hydrogen generation under visible light irradiation. *International Journal of Hydrogen Energy*, **2013**, 38, 7218-7223	6.7	69
52	Patterning Colloidal Metal Nanoparticles for Controlled Growth of Carbon Nanotubes. *Advanced Materials*, **2008**, 20, 4873-4878	24	68
51	Nanoparticle heterojunctions in ZnS□ZnO hybrid nanowires for visible-light-driven photocatalytic hydrogen generation. *CrystEngComm*, **2013**, 15, 5688	3.3	64
50	Molecule-based water-oxidation catalysts (WOCs): cluster-size-dependent dye-sensitized polyoxometalates for visible-light-driven O2 evolution. *Scientific Reports*, **2013**, 3, 1853	4.9	64
49	MoS2-coated microspheres of self-sensitized carbon nitride for efficient photocatalytic hydrogen generation under visible light irradiation. *Applied Surface Science*, **2017**, 396, 1808-1815	6.7	63
48	Surfactant-free sub-2 nm ultrathin triangular gold nanoframes. *Small*, **2013**, 9, 2880-6	11	62
47	Surfactant-free synthesis of plasmonic tungsten oxide nanowires with visible-light-enhanced hydrogen generation from ammonia borane. *Chemistry - an Asian Journal*, **2015**, 10, 1291-4	4.5	60
46	Self-Sensitized Carbon Nitride Microspheres for Long-Lasting Visible-Light-Driven Hydrogen Generation. *Small*, **2016**, 12, 3543-9	11	60
45	Surface plasmon-mediated energy transfer in heterogap Au-Ag nanowires. *Nano Letters*, **2008**, 8, 3446-9	11.5	58
44	Dibenzothiophene-S,S-Dioxide-Based Conjugated Polymers: Highly Efficient Photocatalyts for Hydrogen Production from Water under Visible Light. *Small*, **2018**, 14, e1801839	11	57
43	Triangular AgAu@Pt core-shell nanoframes with a dendritic Pt shell and enhanced electrocatalytic performance toward the methanol oxidation reaction. *Nanoscale*, **2018**, 10, 2231-2235	7.7	54
42	Fabrication of Core□Shell Structure of [email□protected] (M=Se, Au, Ag2Se) and Transformation to Yolk□Shell Structure by Electron Beam Irradiation or Vacuum Annealing. *Chemistry of Materials*, **2009**, 21, 3848-3852	9.6	53
41	Single-Crystalline W-Doped VO2 Nanobeams with Highly Reversible Electrical and Plasmonic Responses Near Room Temperature. *Advanced Materials Interfaces*, **2016**, 3, 1600164	4.6	52
40	Dye-sensitized MIL-101 metal organic frameworks loaded with Ni/NiOx nanoparticles for efficient visible-light-driven hydrogen generation. *APL Materials*, **2015**, 3, 104403	5.7	51
39	Constructing Ru/TiO2 Heteronanostructures Toward Enhanced Photocatalytic Water Splitting via a RuO2/TiO2 Heterojunction and Ru/TiO2 Schottky Junction. *Advanced Materials Interfaces*, **2016**, 3, 1500631	4.6	49
38	Ag-Ag2S Hybrid Nanoprisms: Structural versus Plasmonic Evolution. *ACS Nano*, **2016**, 10, 5362-73	16.7	49

37	Plasmonic focusing in rod-sheath heteronanostructures. *ACS Nano*, **2009**, 3, 87-92	16.7	48
36	pH-Switchable Silver Nanoprism Growth Pathways. *Angewandte Chemie*, **2007**, 119, 2082-2084	3.6	48
35	Plasmon-Driven Synthesis of Triangular Core–Shell Nanoprisms from Gold Seeds. *Angewandte Chemie*, **2007**, 119, 8588-8591	3.6	47
34	Promoting Pd-catalyzed Suzuki coupling reactions through near-infrared plasmon excitation of WO3 nanowires. *Applied Catalysis B: Environmental*, **2016**, 184, 258-263	21.8	46
33	Edge-Gold-Coated Silver Nanoprisms: Enhanced Stability and Applications in Organic Photovoltaics and Chemical Sensing. *Journal of Physical Chemistry C*, **2014**, 118, 12459-12468	3.8	45
32	Controllable galvanic synthesis of triangular Ag-Pd alloy nanoframes for efficient electrocatalytic methanol oxidation. *Chemistry - A European Journal*, **2015**, 21, 8691-5	4.8	44
31	In situ growth of WO3 nanowires on g-C3N4 nanosheets: 1D/2D heterostructures with enhanced photocatalytic activity. *CrystEngComm*, **2016**, 18, 8406-8410	3.3	42
30	In situ growth of Au nanoparticles on Fe2O3 nanocrystals for catalytic applications. *CrystEngComm*, **2012**, 14, 7229	3.3	41
29	Local Refractive Index Sensing Based on Edge Gold-Coated Silver Nanoprisms. *Journal of Physical Chemistry C*, **2013**, 117, 23148-23154	3.8	39
28	Plasmon-Enhanced Hydrogen Evolution on Au-InVO4 Hybrid Microspheres. *RSC Advances*, **2012**, 2, 5513	3.7	37
27	Oxygen-assisted stabilization of single-atom Au during photocatalytic hydrogen evolution. *Journal of Materials Chemistry A*, **2019**, 7, 24217-24221	13	37
26	Amine-Functionalized ZnO Nanosheets for Efficient CO Capture and Photoreduction. *Molecules*, **2015**, 20, 18847-55	4.8	36
25	Triangular Ag-Pd alloy nanoprisms: rational synthesis with high-efficiency for electrocatalytic oxygen reduction. *Nanoscale*, **2014**, 6, 11738-43	7.7	35
24	Compact carbon nitride based copolymer films with controllable thickness for photoelectrochemical water splitting. *Journal of Materials Chemistry A*, **2017**, 5, 19062-19071	13	34
23	Triphenylamine based conjugated microporous polymers for selective photoreduction of CO2 to CO under visible light. *Green Chemistry*, **2019**, 21, 6606-6610	10	32
22	Polyphenylene Dendrimer-Templated In Situ Construction of Inorganic–Organic Hybrid Rice-Shaped Architectures. *Advanced Functional Materials*, **2010**, 20, 43-49	15.6	31
21	Single metal atom decorated photocatalysts: Progress and challenges. *Nano Research*, **2021**, 14, 934-944	10	30
20	Pyrene-functionalized polymeric carbon nitride with promoted aqueous–organic biphasic photocatalytic CO2 reduction. *Journal of Materials Chemistry A*, **2019**, 7, 7373-7379	13	28

19	Building Oxime-Ni Complex on Polymeric Carbon Nitride: Molecular-Level Design of Highly Efficient Hydrogen Generation Photocatalysts. *ACS Applied Materials & Interfaces*, **2020**, 12, 868-876	9.5	25
18	Homogenous Boron-doping in Self-sensitized Carbon Nitride for Enhanced Visible-light Photocatalytic Activity. *Chemistry - an Asian Journal*, **2016**, 11, 3169-3173	4.5	22
17	Water-Dispersed Conjugated Polyelectrolyte for Visible-Light Hydrogen Production. *Solar Rrl*, **2019**, 3, 1800255	7.1	20
16	Rational synthesis of triangular Au-Ag(2)S hybrid nanoframes with effective photoresponses. *Chemistry - A European Journal*, **2014**, 20, 2742-5	4.8	19
15	Dip-Pen Nanolithography-Generated Patterns Used as Gold Etch Resists: A Comparison Study of 16-Mercaptohexadecanioc Acid and 1-Octadecanethiol. *Journal of Physical Chemistry C*, **2009**, 113, 4184-4187	3.8	19
14	Periodic AuAg-Ag$_2$S heterostructured nanowires. *Small*, **2014**, 10, 479-82	11	17
13	Grafting Molecular Cobalt-oxo Cubane Catalyst on Polymeric Carbon Nitride for Efficient Photocatalytic Water Oxidation. *Chemistry - an Asian Journal*, **2020**, 15, 2480-2486	4.5	15
12	In Situ Decoration of Zn Cd S with FeP for Efficient Photocatalytic Generation of Hydrogen under Irradiation with Visible Light. *ChemPlusChem*, **2018**, 83, 825-830	2.8	14
11	Dye-sensitized Pt@TiO2 core-shell nanostructures for the efficient photocatalytic generation of hydrogen. *Beilstein Journal of Nanotechnology*, **2014**, 5, 360-4	3	14
10	Plasmonic Coupling Architectures for Enhanced Photocatalysis. *Advanced Materials*, **2021**, 33, e2005738	24	14
9	Generation of dual patterns of metal oxide nanomaterials based on seed-mediated selective growth. *Langmuir*, **2010**, 26, 4616-9	4	11
8	Polymeric carbon nitride with internal n-p homojunctions for efficient photocatalytic CO2 reduction coupled with cyclohexene oxidation. *Applied Catalysis B: Environmental*, **2021**, 298, 120568	21.8	11
7	2,4,6-Triphenyl-1,3,5-Triazine Based Covalent Organic Frameworks for Photoelectrochemical H2 Evolution. *Advanced Materials Interfaces*, **2021**, 8, 2002191	4.6	10
6	Molecular modulation of fluorene-dibenzothiophene-S,S-dioxide-based conjugated polymers for enhanced photoelectrochemical water oxidation under visible light. *Materials Chemistry Frontiers*, **2018**, 2, 2021-2025	7.8	7
5	Atomic- and Molecular-Level Functionalizations of Polymeric Carbon Nitride for Solar Fuel Production. *Solar Rrl*, **2021**, 5, 2000440	7.1	5
4	Edge gold-coated silver nanoprism [Ag@(Au nanoframe)] for H 2 0 2 detection **2012**,		4
3	Synergistic effect of Ru-N4 sites and Cu-N3 sites in carbon nitride for highly selective photocatalytic reduction of CO2 to methane. *Applied Catalysis B: Environmental*, **2022**, 307, 121154	21.8	4
2	MoSe2/g-C3N4 heterojunction coupled with Pt nanoparticles for enhanced photocatalytic hydrogen evolution. *Journal of Physics and Chemistry of Solids*, **2021**, 156, 110137	3.9	1

1	Plasmon Coupling-Induced Hot Electrons for Photocatalytic Hydrogen Generation. *Chemistry - an Asian Journal*, **2021**, 16, 3683-3688	4.5	0