

Yong Xu

List of Publications by Year in descending order

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87
papers

5,202
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87888

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88630

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89
all docs

89
docs citations

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times ranked

6779
citing authors

#	ARTICLE	IF	CITATIONS
1	From Nonluminescent Cs ₄ PbX ₆ (X = Cl, Br, I) Nanocrystals to Highly Luminescent CsPbX ₃ Nanocrystals: Water-Triggered Transformation through a CsX-Stripping Mechanism. <i>Nano Letters</i> , 2017, 17, 5799-5804.	9.1	367
2	High-Yield Seedless Synthesis of Triangular Gold Nanoplates through Oxidative Etching. <i>Nano Letters</i> , 2014, 14, 7201-7206.	9.1	334
3	Solvothermal Synthesis of High-Quality All-Inorganic Cesium Lead Halide Perovskite Nanocrystals: From Nanocube to Ultrathin Nanowire. <i>Advanced Functional Materials</i> , 2017, 27, 1701121.	14.9	283
4	Hydrogenation Driven Conductive Na ₂ Ti ₃ O ₇ Nanoarrays as Robust Binder-Free Anodes for Sodium-Ion Batteries. <i>Nano Letters</i> , 2016, 16, 4544-4551.	9.1	235
5	Hydrochromic CsPbBr ₃ Nanocrystals for Anti-Counterfeiting. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14527-14532.	13.8	190
6	L-Type Ligand-Assisted Acid-Free Synthesis of CsPbBr ₃ Nanocrystals with Near-Unity Photoluminescence Quantum Yield and High Stability. <i>Nano Letters</i> , 2019, 19, 4151-4157.	9.1	177
7	Subnanometer high-entropy alloy nanowires enable remarkable hydrogen oxidation catalysis. <i>Nature Communications</i> , 2021, 12, 6261.	12.8	169
8	Improving the Stability and Size Tunability of Cesium Lead Halide Perovskite Nanocrystals Using Trioctylphosphine Oxide as the Capping Ligand. <i>Langmuir</i> , 2017, 33, 12689-12696.	3.5	165
9	Large-scale synthesis of ultrathin cesium lead bromide perovskite nanoplates with precisely tunable dimensions and their application in blue light-emitting diodes. <i>Nano Energy</i> , 2018, 47, 235-242.	16.0	154
10	High-efficiency direct methane conversion to oxygenates on a cerium dioxide nanowires supported rhodium single-atom catalyst. <i>Nature Communications</i> , 2020, 11, 954.	12.8	152
11	Recent advances in noble metal based composite nanocatalysts: colloidal synthesis, properties, and catalytic applications. <i>Nanoscale</i> , 2015, 7, 10559-10583.	5.6	150
12	Coordination tailoring of Cu single sites on C ₃ N ₄ realizes selective CO ₂ hydrogenation at low temperature. <i>Nature Communications</i> , 2021, 12, 6022.	12.8	132
13	Colloidal Synthesis and Applications of Plasmonic Metal Nanoparticles. <i>Advanced Materials</i> , 2016, 28, 10508-10517.	21.0	128
14	Solvothermal Synthesis of Alloyed PtNi Colloidal Nanocrystal Clusters (CNCs) with Enhanced Catalytic Activity for Methanol Oxidation. <i>Advanced Functional Materials</i> , 2018, 28, 1704774.	14.9	126
15	Site-Specified Two-Dimensional Heterojunction of Pt Nanoparticles/Metal-Organic Frameworks for Enhanced Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2021, 143, 16512-16518.	13.7	121
16	Single-site Pt-doped RuO ₂ hollow nanospheres with interstitial C for high-performance acidic overall water splitting. <i>Science Advances</i> , 2022, 8, eabl9271.	10.3	117
17	Bi(OH) ₃ /PdBi Composite Nanochains as Highly Active and Durable Electrocatalysts for Ethanol Oxidation. <i>Nano Letters</i> , 2019, 19, 4752-4759.	9.1	99
18	Selective conversion of bio-oil to light olefins: Controlling catalytic cracking for maximum olefins. <i>Bioresource Technology</i> , 2011, 102, 9247-9254.	9.6	96

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19	Selective Ethanol Oxidation Reaction at the Rh@SnO ₂ Interface. <i>Advanced Materials</i> , 2021, 33, e2005767.	21.0	96
20	Reversible and Precise Self-Assembly of Janus Metal-Organosilica Nanoparticles through a Linker-Free Approach. <i>ACS Nano</i> , 2016, 10, 7323-7330.	14.6	95
21	Cognitive dysfunction and health-related quality of life among older Chinese. <i>Scientific Reports</i> , 2015, 5, 17301.	3.3	93
22	Selective Surface Reconstruction of a Defective Iridium-Based Catalyst for High-Efficiency Water Splitting. <i>Advanced Functional Materials</i> , 2020, 30, 2004375.	14.9	85
23	Interfacial Synthesis of Monodisperse CsPbBr ₃ Nanorods with Tunable Aspect Ratio and Clean Surface for Efficient Light-Emitting Diode Applications. <i>Chemistry of Materials</i> , 2019, 31, 1575-1583.	6.7	78
24	Intermetallic PtBi core/ultrathin Pt shell nanoplates for efficient and stable methanol and ethanol electro-oxidation. <i>Nano Research</i> , 2019, 12, 429-436.	10.4	76
25	The Synergy between Metal Facet and Oxide Support Facet for Enhanced Catalytic Performance: The Case of Pd@TiO ₂ . <i>Nano Letters</i> , 2016, 16, 5298-5302.	9.1	69
26	Synergized Cu/Pb Core/Shell Electrocatalyst for High-Efficiency CO ₂ Reduction to C ₂₊ Liquids. <i>ACS Nano</i> , 2021, 15, 1039-1047.	14.6	64
27	A top-down strategy for amorphization of hydroxyl compounds for electrocatalytic oxygen evolution. <i>Nature Communications</i> , 2022, 13, 1187.	12.8	63
28	Superlattice in a Ru Superstructure for Enhancing Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	62
29	Fabricating MAPbI ₃ /MoS ₂ Composites for Improved Photocatalytic Performance. <i>Nano Letters</i> , 2021, 21, 597-604.	9.1	60
30	Activating and Converting CH ₄ to CH ₃ OH via the CuPdO ₂ /CuO Nanointerface. <i>ACS Catalysis</i> , 2019, 9, 6938-6944.	11.2	47
31	One-Pot Synthesis of Monodisperse Noble Metal @ Resorcinol-Formaldehyde (M@RF) and M@Carbon Core-Shell Nanostructure and Their Catalytic Applications. <i>Langmuir</i> , 2015, 31, 11701-11708.	3.5	45
32	Encapsulated Silver Nanoparticles Can Be Directly Converted to Silver Nanoshell in the Gas Phase. <i>Nano Letters</i> , 2015, 15, 8397-8401.	9.1	45
33	Strong synergy in a lichen-like RuCu nanosheet boosts the direct methane oxidation to methanol. <i>Nano Energy</i> , 2020, 71, 104566.	16.0	45
34	Efficient Direct H ₂ O ₂ Synthesis Enabled by PdPb Nanorings via Inhibiting the O-O Bond Cleavage in O ₂ and H ₂ O ₂ . <i>ACS Catalysis</i> , 2021, 11, 1106-1118.	11.2	45
35	Construction of Single-Atom Platinum Catalysts Enabled by CsPbBr ₃ Nanocrystals. <i>ACS Nano</i> , 2021, 15, 13129-13139.	14.6	44
36	Synthesis of Janus Au@periodic mesoporous organosilica (PMO) nanostructures with precisely controllable morphology: a seed-shape defined growth mechanism. <i>Nanoscale</i> , 2017, 9, 4826-4834.	5.6	42

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37	Revealing the Correlation between Catalytic Selectivity and the Local Coordination Environment of Pt Single Atom. <i>Nano Letters</i> , 2020, 20, 6865-6872.	9.1	42
38	High efficient conversion of CO ₂ -rich bio-syngas to CO-rich bio-syngas using biomass char: a useful approach for production of bio-methanol from bio-oil. <i>Bioresource Technology</i> , 2011, 102, 6239-6245.	9.6	41
39	Ultrathin perovskite derived Ir-based nanosheets for high-performance electrocatalytic water splitting. <i>Energy and Environmental Science</i> , 2022, 15, 1672-1681.	30.8	41
40	Low-dimensional Networked Cesium Lead Halide Perovskites: Properties, Fabrication, and Applications. <i>Small Methods</i> , 2020, 4, 2000303.	8.6	38
41	Large-scale, low-cost synthesis of monodispersed gold nanorods using a gemini surfactant. <i>Nanoscale</i> , 2015, 7, 6790-6797.	5.6	31
42	Highly Stable CsPbX ₃ /PbSO ₄ Core/Shell Nanocrystals Synthesized by a Simple Post-treatment Strategy. <i>Advanced Optical Materials</i> , 2021, 9, 2001763.	7.3	30
43	Tea consumption is associated with cognitive impairment in older Chinese adults. <i>Aging and Mental Health</i> , 2018, 22, 1237-1243.	2.8	29
44	High-yield synthesis of gold bipyramids for in vivo CT imaging and photothermal cancer therapy with enhanced thermal stability. <i>Chemical Engineering Journal</i> , 2019, 378, 122025.	12.7	29
45	Recent advances and perspectives on light emitting diodes fabricated from halide metal perovskite nanocrystals. <i>Journal of Materials Chemistry C</i> , 2019, 7, 14412-14440.	5.5	29
46	Sintering-Resistant Pt on Ga ₂ O ₃ Rods for Propane Dehydrogenation: The Morphology Matters. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 13087-13093.	3.7	27
47	Consecutive Interfacial Transformation of Cesium Lead Halide Nanocubes to Ultrathin Nanowires with Improved Stability. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3351-3359.	8.0	27
48	Surface engineering of RhOOH nanosheets promotes hydrogen evolution in alkaline. <i>Nano Energy</i> , 2020, 78, 105224.	16.0	27
49	Recent advances and perspective on the synthesis and photocatalytic application of metal halide perovskite nanocrystals. <i>Nano Research</i> , 2021, 14, 3773-3794.	10.4	27
50	Cooperative interactions among CTA ⁺ , Br ⁻ and Ag ⁺ during seeded growth of gold nanorods. <i>Nano Research</i> , 2017, 10, 2146-2155.	10.4	25
51	Solvothermal synthesis of cesium lead halide nanocrystals with controllable dimensions: a stoichiometry defined growth mechanism. <i>Journal of Materials Chemistry C</i> , 2019, 7, 14493-14498.	5.5	23
52	High-Yield Synthesis of Janus Dendritic Mesoporous Silica@Resorcinol-Formaldehyde Nanoparticles: A Competing Growth Mechanism. <i>Langmuir</i> , 2017, 33, 5269-5274.	3.5	22
53	Revealing the Active Sites of Pd Nanocrystals for Propyne Semihydrogenation: From Theory to Experiment. <i>ACS Catalysis</i> , 2019, 9, 8471-8480.	11.2	22
54	Strong metal-support interaction between palladium and gallium oxide within monodisperse nanoparticles: self-supported catalysts for propyne semi-hydrogenation. <i>Journal of Catalysis</i> , 2021, 395, 36-45.	6.2	21

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55	Regulating the Interfacial Synergy of Ni/Ga ₂ O ₃ for CO ₂ Hydrogenation toward the Reverse Water-Gas Shift Reaction. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 9448-9455.	3.7	21
56	Evaluating health-related quality of life impact of chronic conditions among older adults from a rural town in Suzhou, China. <i>Archives of Gerontology and Geriatrics</i> , 2018, 76, 6-11.	3.0	19
57	A simple approach to the synthesis of eccentric Au@SiO ₂ Janus nanostructures and their catalytic applications. <i>Surface Science</i> , 2016, 648, 313-318.	1.9	18
58	Hydrochromic CsPbBr ₃ Nanocrystals for Anti-Counterfeiting. <i>Angewandte Chemie</i> , 2020, 132, 14635-14640.	2.0	18
59	Leukocyte-related parameters in older adults with metabolic syndrome. <i>Endocrine</i> , 2020, 68, 312-319.	2.3	18
60	Recent advances and perspective on heterogeneous catalysis using metals and oxide nanocrystals. <i>Materials Chemistry Frontiers</i> , 2021, 5, 151-222.	5.9	18
61	High-yield synthesis of gold nanoribbons by using binary surfactants. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1447-1451.	5.5	14
62	Halide-free synthesis of Au nanoplates and monitoring the shape evolution process through a marker experiment. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6457-6460.	5.5	14
63	A Top-Down Strategy to Realize Surface Reconstruction of Small-Sized Platinum-Based Nanoparticles for Selective Hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17430-17434.	13.8	13
64	Phase and interface engineering of nickel carbide nanobranches for efficient hydrogen oxidation catalysis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26323-26329.	10.3	12
65	The exclusive surface and electronic effects of Ni on promoting the activity of Pt towards alkaline hydrogen oxidation. <i>Nano Research</i> , 2022, 15, 5865-5872.	10.4	12
66	Facet-Selective Deposition of Metal (M=Au, Pt, Pd) Nanoparticles on Co ₃ O ₄ Crystals: Magnetically Separable Photocatalyst with Improved Catalytic Performance. <i>ChemPlusChem</i> , 2018, 83, 334-338.	2.8	11
67	S incorporated RuO ₂ -based nanorings for active and stable water oxidation in acid. <i>Nano Research</i> , 2022, 15, 3964-3970.	10.4	10
68	A general and facile approach to disperse hydrophobic nanocrystals in water with enhanced long-term stability. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3065-3071.	5.5	9
69	Stabilizing Oxygen Vacancies in ZrO ₂ by Ga ₂ O ₃ Boosts the Direct Dehydrogenation of Light Alkanes. <i>ACS Catalysis</i> , 2021, 11, 10159-10169.	11.2	9
70	Modifying CsPbX ₃ (X = Cl, Br, I) with a Zeolitic Imidazolate Framework through Mechanical Milling for Aqueous Photocatalytic H ₂ Evolution. <i>ACS Applied Energy Materials</i> , 2022, 5, 6248-6255.	5.1	9
71	Dispersing hydrophilic nanoparticles in nonaqueous solvents with superior long-term stability. <i>RSC Advances</i> , 2017, 7, 25535-25541.	3.6	8
72	High-Yield Synthesis of Au@Ag Right Bipyramids and Self-Assembly into Four-Leaf-Clover-Like Structures. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1700114.	2.3	8

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73	Strong Synergy between Ti ₃ C ₂ and N-Doped Co Nanoparticles Boosts the Selective Hydrogenation of Propyne. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 21413-21418.	3.7	8
74	CO spillover on ultrathin bimetallic Rh/Rh-M nanosheets. <i>Chem Catalysis</i> , 2022, 2, 1709-1719.	6.1	8
75	Production of Mixed Alcohols from Bio-syngas over Mo-based Catalyst. <i>Chinese Journal of Chemical Physics</i> , 2011, 24, 77-84.	1.3	7
76	High-yield colloidal synthesis of monometallic Au nanorods—Au nanoparticle dimers and their application in SERS. <i>RSC Advances</i> , 2017, 7, 12322-12328.	3.6	7
77	Colloidal synthesis of Pt—In bimetallic nanoparticles for propane dehydrogenation. <i>Canadian Journal of Chemistry</i> , 2017, 95, 1135-1140.	1.1	5
78	In Situ Observation of Stepwise C—H Bond Scission: Deciphering the Catalytic Selectivity of Ethylbenzene-to-Styrene Conversion on TiO ₂ . <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9850-9855.	4.6	5
79	Leukocyte related parameters in older adults with metabolically healthy and unhealthy overweight or obesity. <i>Scientific Reports</i> , 2021, 11, 4652.	3.3	5
80	Regulation of surface carbides on palladium nanocubes with zeolitic imidazolate frameworks for propyne selective hydrogenation. <i>Nano Research</i> , 2021, 14, 1559-1564.	10.4	5
81	Superlattice in a Ru superstructure for enhancing hydrogen evolution. <i>Angewandte Chemie</i> , 0, , .	2.0	5
82	A top-down strategy to realize the synthesis of small-sized L10-platinum-based intermetallic compounds for selective hydrogenation. <i>Nano Research</i> , 2022, 15, 9631-9638.	10.4	5
83	Suppressing Dehydroisomerization Boosts <i>n</i> -Butane Dehydrogenation with High Butadiene Selectivity. <i>Chemistry - A European Journal</i> , 2021, 27, 11643-11648.	3.3	4
84	Colloidal Synthesis of Au@Pd Core—Shell Nanorods with Tunable Dimensions and Enhanced Electrocatalytic Activities. <i>Topics in Catalysis</i> , 2018, 61, 949-957.	2.8	3
85	A Top—Down Strategy to Realize Surface Reconstruction of Small—Sized Platinum—Based Nanoparticles for Selective Hydrogenation. <i>Angewandte Chemie</i> , 2021, 133, 17570-17574.	2.0	2
86	Bio-methanol from Bio-oil Reforming Syngas Using Dual-reactor. <i>Chinese Journal of Chemical Physics</i> , 2011, 24, 457-463.	1.3	1
87	Highly Efficient Synthesis of Clean Biofuels from Biomass Using FeCuZnAlK Catalyst. <i>Chinese Journal of Chemical Physics</i> , 2011, 24, 745-752.	1.3	1