

Yujing Li

List of Publications by Year in descending order

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85
papers

7,608
citations

57631

44
h-index

51492

86
g-index

89
all docs

89
docs citations

89
times ranked

11285
citing authors

#	ARTICLE	IF	CITATIONS
1	Strain engineering in perovskite solar cells and its impacts on carrier dynamics. <i>Nature Communications</i> , 2019, 10, 815.	5.8	528
2	Stabilization of High-Performance Oxygen Reduction Reaction Pt Electrocatalyst Supported on Reduced Graphene Oxide/Carbon Black Composite. <i>Journal of the American Chemical Society</i> , 2012, 134, 12326-12329.	6.6	451
3	Platinum nanocrystals selectively shaped using facet-specific peptide sequences. <i>Nature Chemistry</i> , 2011, 3, 393-399.	6.6	404
4	Novel visible light induced Co ₃ O ₄ -g-C ₃ N ₄ heterojunction photocatalysts for efficient degradation of methyl orange. <i>Applied Catalysis B: Environmental</i> , 2014, 147, 546-553.	10.8	349
5	Plasmonic Modulation of the Upconversion Fluorescence in NaYF ₄ :Yb/Tm Hexaplate Nanocrystals Using Gold Nanoparticles or Nanoshells. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2865-2868.	7.2	343
6	Electrically Conductive and Optically Active Porous Silicon Nanowires. <i>Nano Letters</i> , 2009, 9, 4539-4543.	4.5	324
7	Cost Analysis of Perovskite Tandem Photovoltaics. <i>Joule</i> , 2018, 2, 1559-1572.	11.7	266
8	Pt-Based Nanocrystal for Electrocatalytic Oxygen Reduction. <i>Advanced Materials</i> , 2019, 31, e1808115.	11.1	260
9	Interfacial Residual Stress Relaxation in Perovskite Solar Cells with Improved Stability. <i>Advanced Materials</i> , 2019, 31, e1904408.	11.1	259
10	Synthesis of PtPd Bimetal Nanocrystals with Controllable Shape, Composition, and Their Tunable Catalytic Properties. <i>Nano Letters</i> , 2012, 12, 4265-4270.	4.5	227
11	Grain Boundary Patches by In Situ Conversion to Enhance Perovskite Solar Cells Stability. <i>Advanced Materials</i> , 2018, 30, e1800544.	11.1	224
12	High- κ oxide nanoribbons as gate dielectrics for high mobility top-gated graphene transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6711-6715.	3.3	187
13	Enhanced visible light photocatalytic hydrogen evolution of sulfur-doped polymeric g-C ₃ N ₄ photocatalysts. <i>Materials Research Bulletin</i> , 2013, 48, 3919-3925.	2.7	183
14	Multifunctional Nanoparticles Displaying Magnetization and Near-IR Absorption. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2439-2442.	7.2	180
15	AuPd bimetallic nanoparticles decorated graphitic carbon nitride for highly efficient reduction of water to H ₂ under visible light irradiation. <i>Carbon</i> , 2015, 92, 31-40.	5.4	171
16	Development of encapsulation strategies towards the commercialization of perovskite solar cells. <i>Energy and Environmental Science</i> , 2022, 15, 13-55.	15.6	158
17	Novel PtCo alloy nanoparticle decorated 2D g-C ₃ N ₄ nanosheets with enhanced photocatalytic activity for H ₂ evolution under visible light irradiation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23274-23282.	5.2	125
18	Photocatalytic properties of porous silicon nanowires. <i>Journal of Materials Chemistry</i> , 2010, 20, 3590.	6.7	120

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19	Site-selected synthesis of novel Ag@AgCl nanoframes with efficient visible light induced photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12594-12600.	5.2	109
20	Congeneric Incorporation of CsPbBr ₃ Nanocrystals in a Hybrid Perovskite Heterojunction for Photovoltaic Efficiency Enhancement. <i>ACS Energy Letters</i> , 2018, 3, 30-38.	8.8	106
21	Tailoring Molecular Specificity Toward a Crystal Facet: a Lesson From Biorecognition Toward Pt{111}. <i>Nano Letters</i> , 2013, 13, 840-846.	4.5	101
22	1000 h Operational Lifetime Perovskite Solar Cells by Ambient Melting Encapsulation. <i>Advanced Energy Materials</i> , 2020, 10, 1902472.	10.2	98
23	Novel AuPd bimetallic alloy decorated 2D BiVO ₄ nanosheets with enhanced photocatalytic performance under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2017, 204, 385-393.	10.8	95
24	A facile way to synthesize Ag@AgBr cubic cages with efficient visible-light-induced photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2015, 163, 564-572.	10.8	91
25	Recent advances toward practical use of halide perovskite nanocrystals. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21729-21746.	5.2	84
26	Specific Peptide Regulated Synthesis of Ultrasmall Platinum Nanocrystals. <i>Journal of the American Chemical Society</i> , 2009, 131, 15998-15999.	6.6	81
27	Composition tuning the upconversion emission in NaYF ₄ :Yb/Tm hexaplate nanocrystals. <i>Nanoscale</i> , 2011, 3, 963.	2.8	73
28	Synthesis of Platinum Single-Twinned Right Bipyramid and {111}-Bipyramid through Targeted Control over Both Nucleation and Growth Using Specific Peptides. <i>Nano Letters</i> , 2011, 11, 3040-3046.	4.5	73
29	Morphology-Controlled Synthesis of Platinum Nanocrystals with Specific Peptides. <i>Advanced Materials</i> , 2010, 22, 1921-1925.	11.1	70
30	Hollow Loofah-Like N, O-Co-Doped Carbon Tube for Electrocatalysis of Oxygen Reduction. <i>Advanced Functional Materials</i> , 2019, 29, 1900015.	7.8	68
31	Low-temperature-processed inorganic perovskite solar cells <i>via</i> solvent engineering with enhanced mass transport. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23602-23609.	5.2	67
32	Tungsten-Doping-Induced Surface Reconstruction of Porous Ternary Pt-Based Alloy Electrocatalyst for Oxygen Reduction. <i>Advanced Functional Materials</i> , 2019, 29, 1807070.	7.8	65
33	Sandwiched electrode buffer for efficient and stable perovskite solar cells with dual back surface fields. <i>Joule</i> , 2021, 5, 2148-2163.	11.7	63
34	Tungsten as Adhesive in Pt ₂ CuW _{0.25} Ternary Alloy for Highly Durable Oxygen Reduction Electrocatalysis. <i>Advanced Functional Materials</i> , 2020, 30, 1908230.	7.8	59
35	Synergistically Enhanced Oxygen Reduction Electrocatalysis by Subsurface Atoms in Ternary PdCuNi Alloy Catalysts. <i>Advanced Functional Materials</i> , 2018, 28, 1707219.	7.8	58
36	Synthesis of bimetallic Pt-Pd core-shell nanocrystals and their high electrocatalytic activity modulated by Pd shell thickness. <i>Nanoscale</i> , 2012, 4, 845-851.	2.8	57

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37	Hierarchical assembled nanomaterial paper based analytical devices for simultaneously electrochemical detection of microRNAs. <i>Analytica Chimica Acta</i> , 2019, 1058, 89-96.	2.6	57
38	AuPd bimetallic nanoparticles decorated Cd _{0.5} Zn _{0.5} S photocatalysts with enhanced visible-light photocatalytic H ₂ production activity. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 14704-14712.	3.8	56
39	Size-controlled synthesis of Pd nanocrystals using a specific multifunctional peptide. <i>Nanoscale</i> , 2010, 2, 927.	2.8	55
40	Simplifying the Creation of Dumbbell-Like Cu-Ag Nanostructures and Their Enhanced Catalytic Activity. <i>Chemistry - A European Journal</i> , 2012, 18, 9505-9510.	1.7	54
41	Contact Engineering: Electrode Materials for Highly Efficient and Stable Perovskite Solar Cells. <i>Solar Rrl</i> , 2017, 1, 1700082.	3.1	50
42	Promoting Thermodynamic and Kinetic Stabilities of FA-based Perovskite by an in Situ Bilayer Structure. <i>Nano Letters</i> , 2020, 20, 3864-3871.	4.5	49
43	Ligand engineering on CdTe quantum dots in perovskite solar cells for suppressed hysteresis. <i>Nano Energy</i> , 2018, 46, 45-53.	8.2	46
44	Graphene-hemin hybrid material as effective catalyst for selective oxidation of primary C-H bond in toluene. <i>Scientific Reports</i> , 2013, 3, .	1.6	45
45	Extremely low trap-state energy level perovskite solar cells passivated using NH ₂ -POSS with improved efficiency and stability. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6806-6814.	5.2	45
46	Peptide-Assisted 2-D Assembly toward Free-Floating Ultrathin Platinum Nanoplates as Effective Electrocatalysts. <i>Nano Letters</i> , 2019, 19, 3730-3736.	4.5	44
47	Rational design of Fe-N-C electrocatalysts for oxygen reduction reaction: From nanoparticles to single atoms. <i>Nano Research</i> , 2022, 15, 1753-1778.	5.8	44
48	Gold-palladium bimetallic nanoalloy decorated ultrathin 2D TiO ₂ nanosheets as efficient photocatalysts with high hydrogen evolution activity. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8659-8666.	5.2	43
49	Temporal and spatial pinhole constraints in small-molecule hole transport layers for stable and efficient perovskite photovoltaics. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7338-7346.	5.2	41
50	Probing Phase Distribution in 2D Perovskites for Efficient Device Design. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 3127-3133.	4.0	39
51	Novel NiS cocatalyst decorating ultrathin 2D TiO ₂ nanosheets with enhanced photocatalytic hydrogen evolution activity. <i>Materials Research Bulletin</i> , 2017, 87, 123-129.	2.7	37
52	Dual-metal single-atomic catalyst: The challenge in synthesis, characterization, and mechanistic investigation for electrocatalysis. <i>SmartMat</i> , 2022, 3, 533-564.	6.4	35
53	Heterogeneously supported pseudo-single atom Pt as sustainable hydrosilylation catalyst. <i>Nano Research</i> , 2018, 11, 2544-2552.	5.8	34
54	Interface engineering in solid state Li metal batteries by quasi-2D hybrid perovskites. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20896-20903.	5.2	32

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55	Protein and protein assembly based material structures. Journal of Materials Chemistry, 2008, 18, 3755.	6.7	29
56	Cation Diffusion Guides Hybrid Halide Perovskite Crystallization during the Gel Stage. Angewandte Chemie - International Edition, 2020, 59, 5979-5987.	7.2	29
57	Ordered PtPb/Pt Core/Shell Nanodisks as Highly Active, Selective, and Stable Catalysts for Methanol Reformation to H ₂ . Advanced Energy Materials, 2018, 8, 1703430.	10.2	27
58	The Role of Surface Termination in Halide Perovskites for Efficient Photocatalytic Synthesis. Angewandte Chemie - International Edition, 2020, 59, 12931-12937.	7.2	27
59	Synthesis of Fe-doped octahedral Pt ₃ Ni nanocrystals with high electro-catalytic activity and stability towards oxygen reduction reaction. RSC Advances, 2014, 4, 1895-1899.	1.7	26
60	Synthesis of highly monodispersed PtCuNi nanocrystals with high electro-catalytic activities towards oxygen reduction reaction. Catalysis Today, 2016, 278, 247-254.	2.2	26
61	Reduction of intrinsic defects in hybrid perovskite films via precursor purification. Chemical Communications, 2017, 53, 10548-10551.	2.2	25
62	Stabilizing RbPbBr ₃ Perovskite Nanocrystals through Cs ⁺ Substitution. Chemistry - A European Journal, 2019, 25, 2597-2603.	1.7	25
63	Stability of Platinum-Group-Based Electrocatalysts in Proton Exchange Membrane Fuel Cells. Advanced Functional Materials, 2022, 32, .	7.8	25
64	Cation Diffusion Guides Hybrid Halide Perovskite Crystallization during the Gel Stage. Angewandte Chemie, 2020, 132, 6035-6043.	1.6	22
65	Microspherical ZnO synthesized from a metal-organic precursor for supercapacitors. Ionics, 2016, 22, 2169-2174.	1.2	21
66	Optimized MoP with Pseudo-Single-Atom Tungsten for Efficient Hydrogen Electrocatalysis. Chemistry of Materials, 2021, 33, 3639-3649.	3.2	20
67	Anions-Exchange-Induced Efficient Carrier Transport at CsPbBr _x Cl _{3-x} /TiO ₂ Interface for Photocatalytic Activation of C(sp ³)-H bond in Toluene Oxidation. ChemCatChem, 2021, 13, 2592-2598.	1.8	19
68	Low-temperature, seed-mediated synthesis of monodispersed hyperbranched PtRu nanoparticles and their electrocatalytic activity in methanol oxidation. Journal of Materials Chemistry, 2012, 22, 12461.	6.7	17
69	Enhancement of oxygen reduction reaction activity by grain boundaries in platinum nanostructures. Nano Research, 2020, 13, 3310-3314.	5.8	17
70	Pt _x Cu _y nanocrystals with hexa-pod morphology and their electrocatalytic performances towards oxygen reduction reaction. Nano Research, 2015, 8, 3342-3352.	5.8	16
71	<sc>Heterojunction</sc> Photocatalytic System Based on Inorganic Halide Perovskite <sc>CsPbBr ₃ </sc>. Chinese Journal of Chemistry, 2020, 38, 1718-1722.	2.6	16
72	1D Perovskitoid as Absorbing Material for Stable Solar Cells. Crystals, 2021, 11, 241.	1.0	16

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73	Migration of Ion Vacancy in Hydroxylated Oxide Film Formed on Cr: A Density Functional Theory Investigation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25478-25485.	1.5	13
74	Efficient catalytic hydrogen generation by intermetallic platinum-lead nanostructures with highly tunable porous feature. <i>Science Bulletin</i> , 2019, 64, 36-43.	4.3	13
75	A novel hierarchically-nanostructured Pt/SiO ₂ /Fe ₃ O ₄ catalyst with high activity and recyclability towards hydrosilylation. <i>RSC Advances</i> , 2016, 6, 98520-98527.	1.7	12
76	Surface Molecular Encapsulation with Cyclodextrin in Promoting the Activity and Stability of Fe Single-Atom Catalyst for Oxygen Reduction Reaction. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	11
77	Fabricating Surface-Functionalized CsPbBr ₃ /Cs ₄ PbBr ₆ Nanosheets for Visible-Light Photocatalytic Oxidation of Styrene. <i>Frontiers in Chemistry</i> , 2020, 8, 130.	1.8	10
78	Monodisperse PdCu@PtCu Core@Shell nanocrystal and their high activity and durability for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2016, 192, 227-233.	2.6	9
79	Biomimetic synthesis of inorganic materials and their applications. <i>Pure and Applied Chemistry</i> , 2010, 83, 111-125.	0.9	8
80	Atomic Regulation of PGM Electrocatalysts for the Oxygen Reduction Reaction. <i>Frontiers in Chemistry</i> , 2021, 9, 699861.	1.8	6
81	Recent Progress in Designing Halide-Perovskite-Based System for the Photocatalytic Applications. <i>Frontiers in Chemistry</i> , 2020, 8, 613174.	1.8	6
82	Bottom-up pore-generation strategy modulated active nitrogen species for oxygen reduction reaction. <i>Materials Chemistry Frontiers</i> , 2021, 5, 2684-2693.	3.2	4
83	Enhancing catalytic H ₂ generation by surface electronic tuning of systematically controlled Pt-Pb nanocrystals. <i>Nano Research</i> , 2019, 12, 2335-2340.	5.8	3
84	A Strategy toward New Low-Dimensional Hybrid Halide Perovskites with Anionic Spacers. <i>Small</i> , 2019, 15, e1804152.	5.2	3
85	The Role of Surface Termination in Halide Perovskites for Efficient Photocatalytic Synthesis. <i>Angewandte Chemie</i> , 2020, 132, 13031-13037.	1.6	2