

Jiye Fang

List of Publications by Year in descending order

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82
papers

6,918
citations

61984

43
h-index

64796

79
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93
all docs

93
docs citations

93
times ranked

8075
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and Oxygen Reduction Activity of Shape-Controlled Pt ₃ Ni Nanopolyhedra. Nano Letters, 2010, 10, 638-644.	9.1	744
2	High-Index Faceted Noble Metal Nanocrystals. Accounts of Chemical Research, 2013, 46, 191-202.	15.6	501
3	Solution-Based Evolution and Enhanced Methanol Oxidation Activity of Monodisperse Platinum-Copper Nanocubes. Angewandte Chemie - International Edition, 2009, 48, 4217-4221.	13.8	367
4	Shape-Control and Electrocatalytic Activity-Enhancement of Pt-Based Bimetallic Nanocrystals. Accounts of Chemical Research, 2013, 46, 1867-1877.	15.6	366
5	A General Strategy for Preparation of Pt 3d-Transition Metal (Co, Fe, Ni) Nanocubes. Journal of the American Chemical Society, 2009, 131, 18543-18547.	13.7	332
6	Noble-Metal Based Random Alloy and Intermetallic Nanocrystals: Syntheses and Applications. Chemical Reviews, 2021, 121, 736-795.	47.7	269
7	Bismuth Telluride Hexagonal Nanoplatelets and Their Two-Step Epitaxial Growth. Journal of the American Chemical Society, 2005, 127, 10112-10116.	13.7	230
8	Superlattices with non-spherical building blocks. Nano Today, 2010, 5, 390-411.	11.9	200
9	Electrocatalysis in Alkaline Media and Alkaline Membrane-Based Energy Technologies. Chemical Reviews, 2022, 122, 6117-6321.	47.7	195
10	Study of Quasi-Monodisperse In ₂ O ₃ Nanocrystals: Synthesis and Optical Determination. Journal of the American Chemical Society, 2005, 127, 5276-5277.	13.7	189
11	Enhancing by Weakening: Electrooxidation of Methanol on Pt ₃ Co and Pt Nanocubes. Angewandte Chemie - International Edition, 2010, 49, 6848-6851.	13.8	183
12	Shape Evolution and Self Assembly of Monodisperse PbTe Nanocrystals. Journal of the American Chemical Society, 2004, 126, 11798-11799.	13.7	177
13	Composition-Dependent Electrocatalytic Activity of Pt-Cu Nanocube Catalysts for Formic Acid Oxidation. Angewandte Chemie - International Edition, 2010, 49, 1282-1285.	13.8	169
14	Synthesis and Characterization of High-Quality ZnS, ZnS:Mn ²⁺ , and ZnS:Mn ²⁺ /ZnS (Core/Shell) Luminescent Nanocrystals. Inorganic Chemistry, 2007, 46, 1354-1360.	4.0	158
15	Pressure-Dependent Polymorphism and Band-Gap Tuning of Methylammonium Lead Iodide Perovskite. Angewandte Chemie - International Edition, 2016, 55, 6540-6544.	13.8	157
16	Perfect Orientation Ordered in-Situ One-Dimensional Self-Assembly of Mn-Doped PbSe Nanocrystals. Journal of the American Chemical Society, 2004, 126, 14816-14821.	13.7	132
17	Plasmonic silver incorporated silver halides for efficient photocatalysis. Journal of Materials Chemistry A, 2016, 4, 4336-4352.	10.3	121
18	Solvent-Mediated Self-Assembly of Nanocube Superlattices. Journal of the American Chemical Society, 2014, 136, 1352-1359.	13.7	120

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19	High-Indexed Pt ₃ Ni Alloy Tetrahedral Nanoframes Evolved through Preferential CO Etching. <i>Nano Letters</i> , 2017, 17, 2204-2210.	9.1	113
20	Super Crystal Structures of Octahedral c-In ₂ O ₃ Nanocrystals. <i>Journal of the American Chemical Society</i> , 2008, 130, 6983-6991.	13.7	108
21	Electrooxidation of methanol and formic acid on PtCu nanoparticles. <i>Electrochimica Acta</i> , 2010, 55, 8000-8004.	5.2	97
22	Pressure-Engineered Structural and Optical Properties of Two-Dimensional (C ₄ H ₉ NH ₃) ₂ PbI ₄ Perovskite Exfoliated nm-Thin Flakes. <i>Journal of the American Chemical Society</i> , 2019, 141, 1235-1241.	13.7	95
23	High-Pressure-Induced Comminution and Recrystallization of CH ₃ NH ₃ PbBr ₃ Nanocrystals as Large Thin Nanoplates. <i>Advanced Materials</i> , 2018, 30, 1705017.	21.0	89
24	Monodisperse Pt ₃ Fe Nanocubes: Synthesis, Characterization, Self-Assembly, and Electrocatalytic Activity. <i>Advanced Functional Materials</i> , 2010, 20, 3727-3733.	14.9	88
25	Coreduction Colloidal Synthesis of III-V Nanocrystals: The Case of InP. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3540-3542.	13.8	84
26	Shape-Control of ZnTe Nanocrystal Growth in Organic Solution. <i>Journal of Physical Chemistry C</i> , 2008, 112, 5454-5458.	3.1	84
27	Simple Cubic Super Crystals Containing PbTe Nanocubes and Their Core-Shell Building Blocks. <i>Journal of the American Chemical Society</i> , 2008, 130, 15203-15209.	13.7	80
28	Phase Transitions of Formamidinium Lead Iodide Perovskite under Pressure. <i>Journal of the American Chemical Society</i> , 2018, 140, 13952-13957.	13.7	78
29	Pt-Cu nanooctahedra: synthesis and comparative study with nanocubes on their electrochemical catalytic performance. <i>Chemical Science</i> , 2012, 3, 3302.	7.4	65
30	An Obtuse Rhombohedral Superlattice Assembled by Pt Nanocubes. <i>Nano Letters</i> , 2015, 15, 6254-6260.	9.1	65
31	Enhanced ORR Kinetics on Au-Doped Pt-Cu Porous Films in Alkaline Media. <i>ACS Catalysis</i> , 2020, 10, 9967-9976.	11.2	65
32	Solution-based synthesis of III-V quantum dots and their applications in gas sensing and bio-imaging. <i>Nano Today</i> , 2014, 9, 69-84.	11.9	62
33	Pressure Processing of Nanocube Assemblies Toward Harvesting of a Metastable PbS Phase. <i>Advanced Materials</i> , 2015, 27, 4544-4549.	21.0	61
34	Tilted Face-Centered-Cubic Supercrystals of PbS Nanocubes. <i>Nano Letters</i> , 2012, 12, 4409-4413.	9.1	59
35	Synthesis of Core@Shell Cu-Ni@Pt-Cu Nano-Octahedra and Their Improved MOR Activity. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7675-7680.	13.8	58
36	Reversible Kirkwood-Alder Transition Observed in Pt ₃ Cu ₂ Nano-Octahedron Assemblies under Controlled Solvent Annealing/Drying Conditions. <i>Journal of the American Chemical Society</i> , 2012, 134, 14043-14049.	13.7	52

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37	Understanding the forces acting in self-assembly and the implications for constructing three-dimensional (3D) supercrystals. <i>Nano Research</i> , 2015, 8, 2445-2466.	10.4	51
38	Low Packing Density Self-Assembled Superstructure of Octahedral Pt ₃ Ni Nanocrystals. <i>Nano Letters</i> , 2011, 11, 2912-2918.	9.1	50
39	Self-assembled bismuth nanocrystallites. <i>Chemical Communications</i> , 2001, , 1872-1873.	4.1	47
40	Improvement of Oxygen Reduction Performance in Alkaline Media by Tuning Phase Structure of Pd-Bi Nanocatalysts. <i>Journal of the American Chemical Society</i> , 2021, 143, 15891-15897.	13.7	47
41	Gate Field Effect Transistors of Single-Crystal Zinc Telluride Nanobelts. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9469-9471.	13.8	41
42	Nanoscale Design of Pd-Based Electrocatalysts for Oxygen Reduction Reaction Enhancement in Alkaline Media. <i>Small Structures</i> , 2022, 3, .	12.0	40
43	Reversal of Hall-Petch Effect in Structural Stability of PbTe Nanocrystals and Associated Variation of Phase Transformation. <i>Nano Letters</i> , 2011, 11, 5531-5536.	9.1	39
44	Synthesis of PbSeTe Single Ternary Alloy and Core/Shell Heterostructured Nanocubes. <i>Journal of the American Chemical Society</i> , 2011, 133, 17590-17593.	13.7	39
45	Pt ₃ Co Concave Nanocubes: Synthesis, Formation Understanding, and Enhanced Catalytic Activity toward Hydrogenation of Styrene. <i>Chemistry - A European Journal</i> , 2014, 20, 1753-1759.	3.3	37
46	Construction of Lattice Strain in Bimetallic Nanostructures and Its Effectiveness in Electrochemical Applications. <i>Small</i> , 2021, 17, e2102244.	10.0	34
47	Composition and size tailored synthesis of iron selenide nanoflakes. <i>CrystEngComm</i> , 2010, 12, 4386.	2.6	30
48	Entropy-Driven Pt ₃ Co Nanocube Assembles and Thermally Mediated Electrical Conductivity with Anisotropic Variation of the Rhombohedral Superlattice. <i>Nano Letters</i> , 2017, 17, 362-367.	9.1	29
49	Pressure-Dependent Polymorphism and Band-Gap Tuning of Methylammonium Lead Iodide Perovskite. <i>Angewandte Chemie</i> , 2016, 128, 6650-6654.	2.0	24
50	Assembling Nonspherical 2D Binary Nanoparticle Superlattices by Opposite Electrical Charges: The Role of Coulomb Forces. <i>ACS Nano</i> , 2010, 4, 1821-1828.	14.6	22
51	Soluble InP and GaP Nanowires: Self-Seeded, Solution-Liquid-Solid Synthesis and Electrical Properties. <i>Chemistry - A European Journal</i> , 2009, 15, 4546-4552.	3.3	19
52	Self-Assembly of Lead Chalcogenide Nanocrystals. <i>Chemistry - an Asian Journal</i> , 2011, 6, 1126-1136.	3.3	16
53	Synthesis of Nanoporous Au-Cu-Pt Alloy as a Superior Catalyst for the Methanol Oxidation Reaction. <i>ChemElectroChem</i> , 2020, 7, 569-580.	3.4	16
54	Generalized Synthesis of Uniform Metal Nanoparticles Assisted with Tungsten Hexacarbonyl. <i>Chemistry of Materials</i> , 2019, 31, 4325-4329.	6.7	15

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55	Highly Indexed Pt ₃ Fe Nanocatalysts and Their Enhanced Catalytic Performance in Dual Organic Reactions. <i>ChemNanoMat</i> , 2015, 1, 331-337.	2.8	14
56	Nanoporous Pd-Cu thin films as highly active and durable catalysts for oxygen reduction in alkaline media. <i>Electrochimica Acta</i> , 2021, 385, 138306.	5.2	13
57	Selective Epitaxial Growth of Silver Nanoplates. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 992-993.	13.8	12
58	Electron transport in high-resistance semiconductor nanowires through two-probe measurements. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 10928.	2.8	10
59	Composition-dependent ordering transformations in Pt-Fe nanoalloys. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2117899119.	7.1	10
60	Is CO adequate to facilitate the formation of Pt ₃ M (M = Fe, Ni and Co) nanocubes?. <i>Chemical Communications</i> , 2013, 49, 3955.	4.1	9
61	Nanocontact Disorder in Nanoelectronics for Modulation of Light and Gas Sensitivities. <i>Scientific Reports</i> , 2015, 5, 13035.	3.3	9
62	Facet-controlled facilitation of PbS nanoarchitectures by understanding nanocrystal growth. <i>Nanoscale</i> , 2015, 7, 19047-19052.	5.6	9
63	Octahedral Noble-Metal Nanoparticles and Their Electrocatalytic Properties. <i>ChemSusChem</i> , 2013, 6, 1848-1857.	6.8	7
64	Pressure-Induced Phase Transitions and Bandgap-Tuning Effect of Methylammonium Lead Iodide Perovskite. <i>MRS Advances</i> , 2018, 3, 1825-1830.	0.9	7
65	Syntheses of Ag, PbSe, and PbTe Nanocrystals and Their Binary Self-Assembly Exploration at Low Size-ratio. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 1662-1666.	0.9	6
66	Synthesis of Core@Shell Cu@Ni@Pt@Cu Nano-Octahedra and Their Improved MOR Activity. <i>Angewandte Chemie</i> , 2021, 133, 7753-7758.	2.0	6
67	Size-Controlled Synthesis of CuNi Nano-Octahedra and Their Catalytic Performance towards 4-Nitrophenol Reduction Reaction. <i>MRS Advances</i> , 2019, 4, 263-269.	0.9	5
68	Facet-dependent Catalysis of CuNi Nanocatalysts toward 4-Nitrophenol Reduction Reaction. <i>MRS Advances</i> , 2020, 5, 1491-1496.	0.9	5
69	Manipulation of Pt-Ni Tetrahedral Nanoframes Using a Gaseous Etching Method. <i>MRS Advances</i> , 2018, 3, 943-948.	0.9	3
70	Facile Synthesis of Ceria Nanocrystals with Tuneable Size and Shape. <i>MRS Advances</i> , 2020, 5, 523-529.	0.9	2
71	Synthesis and Cytotoxicity of Luminescent InP Quantum Dots. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1241, 1.	0.1	1
72	Nanocontact Disorder in InP Nanowire Devices for the Enhancement of Visible Light and Oxygen Gas Sensitivities. <i>Procedia IUTAM</i> , 2017, 21, 33-39.	1.2	1

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73	The Effects of Dynamic Transformation on the Formation of Pt-M (M = Ni, Fe) Nanocrystals. MRS Advances, 2019, 4, 1377-1382.	0.9	1
74	Wet-Chemical Synthesis of ZnTe Quantum Dots. Materials Research Society Symposia Proceedings, 2006, 942, 1.	0.1	0
75	Synthesis of III-V Nanocrystals by Co-reduction Reactions. Materials Research Society Symposia Proceedings, 2007, 1056, 1.	0.1	0
76	Linear Electrogyration Study on Eu:In ₂ O ₃ Nanocrystals. Materials Research Society Symposia Proceedings, 2009, 1207, 1.	0.1	0
77	Monodisperse Pt-Cu Nanocubes ^{1/4} Synthesis, Characterization, and Electrochemical Properties. Materials Research Society Symposia Proceedings, 2009, 1217, 1.	0.1	0
78	Electron transport properties of ZnO, InP, GaP, and Pb _{1-x} Mn _x Se nanowires by two-probe measurements. , 2010, , .		0
79	Precursor Investigation in the Synthesis of PtPb Nanocatalysts. Materials Research Society Symposia Proceedings, 2013, 1491, 40.	0.1	0
80	Electrocatalytic Evaluation of Shape-Dependent Platinum Nanocatalysts towards Methanol Oxidation Reaction. Materials Research Society Symposia Proceedings, 2013, 1491, 7.	0.1	0
81	TEM and EDX Studies on the Structural and Compositional Evolution of PtNi ₃ Concave Nanocubes. Microscopy and Microanalysis, 2015, 21, 1061-1062.	0.4	0
82	One further step to cell behaviour understanding. Inorganic Chemistry Frontiers, 2017, 4, 761-763.	6.0	0