

# 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  
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93  
docs citations

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times ranked

8075  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoscale Design of Pd-Based Electrocatalysts for Oxygen Reduction Reaction Enhancement in Alkaline Media. <i>Small Structures</i> , 2022, 3, .	12.0	40
2	Electrocatalysis in Alkaline Media and Alkaline Membrane-Based Energy Technologies. <i>Chemical Reviews</i> , 2022, 122, 6117-6321.	47.7	195
3	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
4	Noble-Metal Based Random Alloy and Intermetallic Nanocrystals: Syntheses and Applications. <i>Chemical Reviews</i> , 2021, 121, 736-795.	47.7	269
5	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
6	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
7	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
8	Construction of Lattice Strain in Bimetallic Nanostructures and Its Effectiveness in Electrochemical Applications. <i>Small</i> , 2021, 17, e2102244.	10.0	34
9	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
10	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
11	Enhanced ORR Kinetics on Au-Doped Pt-Cu Porous Films in Alkaline Media. <i>ACS Catalysis</i> , 2020, 10, 9967-9976.	11.2	65
12	Facet-dependent Catalysis of CuNi Nanocatalysts toward 4-Nitrophenol Reduction Reaction. <i>MRS Advances</i> , 2020, 5, 1491-1496.	0.9	5
13	Facile Synthesis of Ceria Nanocrystals with Tuneable Size and Shape. <i>MRS Advances</i> , 2020, 5, 523-529.	0.9	2
14	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
15	Generalized Synthesis of Uniform Metal Nanoparticles Assisted with Tungsten Hexacarbonyl. <i>Chemistry of Materials</i> , 2019, 31, 4325-4329.	6.7	15
16	Pressure-Engineered Structural and Optical Properties of Two-Dimensional (C <sub>4</sub> H <sub>9</sub> NH <sub>3</sub> ) <sub>2</sub> PbI <sub>4</sub> Perovskite Exfoliated nm-Thin Flakes. <i>Journal of the American Chemical Society</i> , 2019, 141, 1235-1241.	13.7	95
17	The Effects of Dynamic Transformation on the Formation of Pt-M (M = Ni, Fe) Nanocrystals. <i>MRS Advances</i> , 2019, 4, 1377-1382.	0.9	1
18	Pressure-Induced Phase Transitions and Bandgap-Tuning Effect of Methylammonium Lead Iodide Perovskite. <i>MRS Advances</i> , 2018, 3, 1825-1830.	0.9	7

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19	Manipulation of Pt-Ni Tetrahedral Nanoframes Using a Gaseous Etching Method. <i>MRS Advances</i> , 2018, 3, 943-948.	0.9	3
20	High-Pressure-Induced Comminution and Recrystallization of $\text{CH}_3\text{NH}_3\text{PbBr}_3$ Nanocrystals as Large Thin Nanoplates. <i>Advanced Materials</i> , 2018, 30, 1705017.	21.0	89
21	Phase Transitions of Formamidinium Lead Iodide Perovskite under Pressure. <i>Journal of the American Chemical Society</i> , 2018, 140, 13952-13957.	13.7	78
22	High-Indexed $\text{Pt}_3\text{Ni}$ Alloy Tetrahedral Nanoframes Evolved through Preferential CO Etching. <i>Nano Letters</i> , 2017, 17, 2204-2210.	9.1	113
23	One further step to cell behaviour understanding. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 761-763.	6.0	0
24	Entropy-Driven $\text{Pt}_3\text{Co}$ 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
25	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
26	Pressure-Dependent Polymorphism and Band-Gap Tuning of Methylammonium Lead Iodide Perovskite. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6540-6544.	13.8	157
27	Pressure-Dependent Polymorphism and Band-Gap Tuning of Methylammonium Lead Iodide Perovskite. <i>Angewandte Chemie</i> , 2016, 128, 6650-6654.	2.0	24
28	Plasmonic silver incorporated silver halides for efficient photocatalysis. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4336-4352.	10.3	121
29	Nanocontact Disorder in Nanoelectronics for Modulation of Light and Gas Sensitivities. <i>Scientific Reports</i> , 2015, 5, 13035.	3.3	9
30	TEM and EDX Studies on the Structural and Compositional Evolution of $\text{PtNi}_3$ Concave Nanocubes. <i>Microscopy and Microanalysis</i> , 2015, 21, 1061-1062.	0.4	0
31	Pressure Processing of Nanocube Assemblies Toward Harvesting of a Metastable PbS Phase. <i>Advanced Materials</i> , 2015, 27, 4544-4549.	21.0	61
32	High-Indexed $\text{Pt}_3\text{Fe}$ Nanocatalysts and Their Enhanced Catalytic Performance in Dual Organic Reactions. <i>ChemNanoMat</i> , 2015, 1, 331-337.	2.8	14
33	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
34	Facet-controlled facilitation of PbS nanoarchitectures by understanding nanocrystal growth. <i>Nanoscale</i> , 2015, 7, 19047-19052.	5.6	9
35	An Obtuse Rhombohedral Superlattice Assembled by Pt Nanocubes. <i>Nano Letters</i> , 2015, 15, 6254-6260.	9.1	65
36	$\text{Pt}_3\text{Co}$ 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

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37	Solvent-Mediated Self-Assembly of Nanocube Superlattices. <i>Journal of the American Chemical Society</i> , 2014, 136, 1352-1359.	13.7	120
38	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
39	High-Index Faceted Noble Metal Nanocrystals. <i>Accounts of Chemical Research</i> , 2013, 46, 191-202.	15.6	501
40	Octahedral Noble-Metal Nanoparticles and Their Electrocatalytic Properties. <i>ChemSusChem</i> , 2013, 6, 1848-1857.	6.8	7
41	Is CO adequate to facilitate the formation of Pt <sub>3</sub> M (M = Fe, Ni and Co) nanocubes?. <i>Chemical Communications</i> , 2013, 49, 3955.	4.1	9
42	Shape-Control and Electrocatalytic Activity-Enhancement of Pt-Based Bimetallic Nanocrystals. <i>Accounts of Chemical Research</i> , 2013, 46, 1867-1877.	15.6	366
43	Precursor Investigation in the Synthesis of PtPb Nanocatalysts. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1491, 40.	0.1	0
44	Electrocatalytic Evaluation of Shape-Dependent Platinum Nanocatalysts towards Methanol Oxidation Reaction. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1491, 7.	0.1	0
45	Reversible Kirkwood-Alder Transition Observed in Pt <sub>3</sub> Cu <sub>2</sub> Nanooctahedron Assemblies under Controlled Solvent Annealing/Drying Conditions. <i>Journal of the American Chemical Society</i> , 2012, 134, 14043-14049.	13.7	52
46	Pt-Cu nanooctahedra: synthesis and comparative study with nanocubes on their electrochemical catalytic performance. <i>Chemical Science</i> , 2012, 3, 3302.	7.4	65
47	Tilted Face-Centered-Cubic Supercrystals of PbS Nanocubes. <i>Nano Letters</i> , 2012, 12, 4409-4413.	9.1	59
48	Low Packing Density Self-Assembled Superstructure of Octahedral Pt <sub>3</sub> Ni Nanocrystals. <i>Nano Letters</i> , 2011, 11, 2912-2918.	9.1	50
49	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
50	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
51	Self-Assembly of Lead Chalcogenide Nanocrystals. <i>Chemistry - an Asian Journal</i> , 2011, 6, 1126-1136.	3.3	16
52	Selective Epitaxial Growth of Silver Nanoplates. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 992-993.	13.8	12
53	Electrooxidation of methanol and formic acid on PtCu nanoparticles. <i>Electrochimica Acta</i> , 2010, 55, 8000-8004.	5.2	97
54	Monodisperse Pt <sub>3</sub> Fe Nanocubes: Synthesis, Characterization, Self-Assembly, and Electrocatalytic Activity. <i>Advanced Functional Materials</i> , 2010, 20, 3727-3733.	14.9	88

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55	Composition-Dependent Electrocatalytic Activity of Pt-Cu Nanocube Catalysts for Formic Acid Oxidation. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1282-1285.	13.8	169
56	Enhancing by Weakening: Electrooxidation of Methanol on Pt <sub>3</sub> Co and Pt Nanocubes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6848-6851.	13.8	183
57	Superlattices with non-spherical building blocks. <i>Nano Today</i> , 2010, 5, 390-411.	11.9	200
58	Electron transport properties of ZnO, InP, GaP, and Pb <sub>1-x</sub> Mn <sub>x</sub> Se nanowires by two-probe measurements. , 2010, , .		0
59	Synthesis and Oxygen Reduction Activity of Shape-Controlled Pt <sub>3</sub> Ni Nanopolyhedra. <i>Nano Letters</i> , 2010, 10, 638-644.	9.1	744
60	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
61	Composition and size tailored synthesis of iron selenide nanoflakes. <i>CrystEngComm</i> , 2010, 12, 4386.	2.6	30
62	Electron transport in high-resistance semiconductor nanowires through two-probe measurements. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 10928.	2.8	10
63	Synthesis and Cytotoxicity of Luminescent InP Quantum Dots. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1241, 1.	0.1	1
64	Linear Electrogyration Study on Eu:In <sub>2</sub> O <sub>3</sub> Nanocrystals. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1207, 1.	0.1	0
65	Monodisperse Pt-Cu Nanocubes <sup>1/4</sup> Synthesis, Characterization, and Electrochemical Properties. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1217, 1.	0.1	0
66	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
67	Solution-Based Evolution and Enhanced Methanol Oxidation Activity of Monodisperse Platinum-Copper Nanocubes. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4217-4221.	13.8	367
68	A General Strategy for Preparation of Pt 3d-Transition Metal (Co, Fe, Ni) Nanocubes. <i>Journal of the American Chemical Society</i> , 2009, 131, 18543-18547.	13.7	332
69	Coreduction Colloidal Synthesis of III-V Nanocrystals: The Case of InP. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3540-3542.	13.8	84
70	p- $\mu$ type Field-Effect Transistors of Single-Crystal Zinc Telluride Nanobelts. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9469-9471.	13.8	41
71	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
72	Shape-Control of ZnTe Nanocrystal Growth in Organic Solution. <i>Journal of Physical Chemistry C</i> , 2008, 112, 5454-5458.	3.1	84

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73	Super Crystal Structures of Octahedral $c\text{-In}_2\text{O}_3$ Nanocrystals. Journal of the American Chemical Society, 2008, 130, 6983-6991.	13.7	108
74	Synthesis of III-V Nanocrystals by Co-reduction Reactions. Materials Research Society Symposia Proceedings, 2007, 1056, 1.	0.1	0
75	Synthesis and Characterization of High-Quality ZnS, ZnS:Mn <sup>2+</sup> , and ZnS:Mn <sup>2+</sup> /ZnS (Core/Shell) Luminescent Nanocrystals. Inorganic Chemistry, 2007, 46, 1354-1360.	4.0	158
76	Syntheses of Ag, PbSe, and PbTe Nanocrystals and Their Binary Self-Assembly Exploration at Low Size-ratio. Journal of Nanoscience and Nanotechnology, 2006, 6, 1662-1666.	0.9	6
77	Wet-Chemical Synthesis of ZnTe Quantum Dots. Materials Research Society Symposia Proceedings, 2006, 942, 1.	0.1	0
78	Bismuth Telluride Hexagonal Nanoplatelets and Their Two-Step Epitaxial Growth. Journal of the American Chemical Society, 2005, 127, 10112-10116.	13.7	230
79	Study of Quasi-Monodisperse In <sub>2</sub> O <sub>3</sub> Nanocrystals: Synthesis and Optical Determination. Journal of the American Chemical Society, 2005, 127, 5276-5277.	13.7	189
80	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
81	Shape Evolution and Self Assembly of Monodisperse PbTe Nanocrystals. Journal of the American Chemical Society, 2004, 126, 11798-11799.	13.7	177
82	Self-assembled bismuth nanocrystallites. Chemical Communications, 2001, , 1872-1873.	4.1	47