

Jinguo Wang

List of Publications by Year in descending order

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91
papers

8,316
citations

53794

45
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49909

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95
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95
times ranked

9339
citing authors

#	ARTICLE	IF	CITATIONS
1	Unveiling interfacial structure and improving thermal conductivity of Cu/diamond composites reinforced with Zr-coated diamond particles. <i>Vacuum</i> , 2022, 202, 111133.	3.5	17
2	Detection of nucleotides in hydrated ssDNA via 2D hBN nanopore with ionic liquid/salt water interface. <i>Electrophoresis</i> , 2021, 42, 991-1002.	2.4	10
3	Microstructural evolution of sandwiched Cr interlayer in Cu/Cr/diamond subjected to heat treatment. <i>Thin Solid Films</i> , 2021, 736, 138911.	1.8	8
4	Controllable Ferromagnetism in Super-tetragonal PbTiO ₃ through Strain Engineering. <i>Nano Letters</i> , 2020, 20, 881-886.	9.1	11
5	Study on electroless Cu plating quality of in situ TiCp. <i>Scientific Reports</i> , 2020, 10, 12196.	3.3	4
6	The role of Cr interlayer in determining interfacial thermal conductance between Cu and diamond. <i>Applied Surface Science</i> , 2020, 515, 146046.	6.1	32
7	Strong Second Harmonic Generation in a Tungsten Bronze Oxide by Enhancing Local Structural Distortion. <i>Journal of the American Chemical Society</i> , 2020, 142, 7480-7486.	13.7	33
8	Interface tailoring and thermal conductivity enhancement in diamond particles reinforced metal matrix composites. , 2020, , 473-493.		0
9	Aqueous Synthesis of Pd ⁿ M (M = Pd, Pt, and Au) Decahedra with Concave Facets for Catalytic Applications. <i>Topics in Catalysis</i> , 2020, 63, 664-672.	2.8	9
10	Mo-interlayer-mediated thermal conductance at Cu/diamond interface measured by time-domain thermoreflectance. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 135, 105921.	7.6	17
11	Regulated Interfacial Thermal Conductance between Cu and Diamond by a TiC Interlayer for Thermal Management Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26507-26517.	8.0	41
12	Microstructure and Enhanced Properties of Copper-Vanadium Nanocomposites Obtained by Powder Metallurgy. <i>Materials</i> , 2019, 12, 339.	2.9	6
13	Tailoring interface structure and enhancing thermal conductivity of Cu/diamond composites by alloying boron to the Cu matrix. <i>Materials Characterization</i> , 2019, 152, 265-275.	4.4	66
14	Tunable coefficient of thermal expansion of Cu-B/diamond composites prepared by gas pressure infiltration. <i>Journal of Alloys and Compounds</i> , 2019, 794, 473-481.	5.5	16
15	Interfacial products and thermal conductivity of diamond/Al composites reinforced with ZrC-coated diamond particles. <i>Diamond and Related Materials</i> , 2019, 100, 107565.	3.9	28
16	Interfacial structure evolution and thermal conductivity of Cu-Zr/diamond composites prepared by gas pressure infiltration. <i>Journal of Alloys and Compounds</i> , 2019, 781, 800-809.	5.5	50
17	One-step <i>in situ</i> growth of ZnS nanoparticles on reduced graphene oxides and their improved lithium storage performance using sodium carboxymethyl cellulose binder. <i>RSC Advances</i> , 2018, 8, 9125-9133.	3.6	13
18	Combining Cr pre-coating and Cr alloying to improve the thermal conductivity of diamond particles reinforced Cu matrix composites. <i>Journal of Alloys and Compounds</i> , 2018, 749, 1098-1105.	5.5	78

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19	The formation of atomic-level interfacial layer and its effect on thermal conductivity of W-coated diamond particles reinforced Al matrix composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 107, 164-170.	7.6	29
20	Effect of Cu-Ti-C reaction composition on reinforcing particles size of TiC x /Cu composites. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2018, 33, 43-48.	1.0	8
21	Aluminum carbide hydrolysis induced degradation of thermal conductivity and tensile strength in diamond/aluminum composite. <i>Journal of Composite Materials</i> , 2018, 52, 2709-2717.	2.4	14
22	High thermal conductivity of Cu-B/diamond composites prepared by gas pressure infiltration. <i>Journal of Alloys and Compounds</i> , 2018, 735, 1648-1653.	5.5	75
23	Probing Nanoscale Local Lattice Strains in Semiconductor Nanostructures and Devices by Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2018, 24, 972-973.	0.4	0
24	A Method to Prepare TEM Specimens by Focused Ion Beam Milling for Cu/diamond Composites. <i>Microscopy and Microanalysis</i> , 2018, 24, 838-839.	0.4	1
25	Effect of Ti interlayer on interfacial thermal conductance between Cu and diamond. <i>Acta Materialia</i> , 2018, 160, 235-246.	7.9	111
26	Enhanced thermal conductivity in Cu/diamond composites by tailoring the thickness of interfacial TiC layer. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 113, 76-82.	7.6	80
27	Giant polarization in super-tetragonal thin films through interphase strain. <i>Science</i> , 2018, 361, 494-497.	12.6	173
28	Interfacial structure evolution of Ti-coated diamond particle reinforced Al matrix composite produced by gas pressure infiltration. <i>Composites Part B: Engineering</i> , 2017, 113, 285-290.	12.0	56
29	Aberration-Corrected STEM Study of Shape Controlled Metallic Core-Shell Nanoparticles for Catalytic Applications. <i>Microscopy and Microanalysis</i> , 2017, 23, 1852-1853.	0.4	0
30	Grain Refinement and Mechanical Properties of Cu-Cr-Zr Alloys with Different Nano-Sized TiCp Addition. <i>Materials</i> , 2017, 10, 919.	2.9	10
31	Compression Properties and Electrical Conductivity of In-Situ 20 vol.% Nano-Sized TiCx/Cu Composites with Different Particle Size and Morphology. <i>Materials</i> , 2017, 10, 499.	2.9	12
32	Shape-Controlled TiCx Particles Fabricated by Combustion Synthesis in the Cu-Ti-C System. <i>Crystals</i> , 2017, 7, 205.	2.2	9
33	Pt-Ni octahedral nanocrystals as a class of highly active electrocatalysts toward the hydrogen evolution reaction in an alkaline electrolyte. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12392-12397.	10.3	103
34	Effect of diamond surface chemistry and structure on the interfacial microstructure and properties of Al/diamond composites. <i>RSC Advances</i> , 2016, 6, 67252-67259.	3.6	24
35	Simple Specimen Preparation Method for In Situ Heating Experiments. <i>Microscopy and Microanalysis</i> , 2016, 22, 132-133.	0.4	1
36	Atomic and electronic structure of Lomer dislocations at CdTe bicrystal interface. <i>Scientific Reports</i> , 2016, 6, 27009.	3.3	35

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37	Synthesis of Pt@Ni Octahedra in Continuous-Flow Droplet Reactors for the Scalable Production of Highly Active Catalysts toward Oxygen Reduction. <i>Nano Letters</i> , 2016, 16, 3850-3857.	9.1	86
38	Optimized thermal properties in diamond particles reinforced copper-titanium matrix composites produced by gas pressure infiltration. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 91, 189-194.	7.6	80
39	Nucleation and growth mechanisms of interfacial Al ₄ C ₃ in Al/diamond composites. <i>Journal of Alloys and Compounds</i> , 2016, 657, 81-89.	5.5	46
40	Aberration Corrected High Angle Annular Dark Field (HAADF) Scanning Transmission Electron Microscopy (STEM) and In Situ Transmission Electron Microscopy (TEM) Study of Transition Metal Dichalcogenides (TMDs). <i>Microscopy and Microanalysis</i> , 2015, 21, 431-432.	0.4	1
41	Photochemical Deposition of Highly Dispersed Pt Nanoparticles on Porous CeO ₂ Nanofibers for the Water-Gas Shift Reaction. <i>Advanced Functional Materials</i> , 2015, 25, 4153-4162.	14.9	75
42	Aberration-Corrected STEM and Tomography of Pd-Pt Nanoparticles: Core-Shell Cubic and Core-Frame Concave Structures. <i>Microscopy and Microanalysis</i> , 2015, 21, 1731-1732.	0.4	0
43	Atomic Layer-by-Layer Deposition of Platinum on Palladium Octahedra for Enhanced Catalysts toward the Oxygen Reduction Reaction. <i>ACS Nano</i> , 2015, 9, 2635-2647.	14.6	209
44	In Situ TEM Characterization of Shear-Stress-Induced Interlayer Sliding in the Cross Section View of Molybdenum Disulfide. <i>ACS Nano</i> , 2015, 9, 1543-1551.	14.6	93
45	Atomic Resolution Scanning Transmission Electron Microscopy of Two-Dimensional Layered Transition Metal Dichalcogenides. <i>Applied Microscopy</i> , 2015, 45, 225-229.	1.4	4
46	Site-selective sulfurization of bromide-capped palladium nanocubes by polysulfide and the underlying mechanism. <i>Nanotechnology</i> , 2014, 25, 014003.	2.6	8
47	Controlling the Size and Composition of Nanosized Pt@Ni Octahedra to Optimize Their Catalytic Activities toward the Oxygen Reduction Reaction. <i>ChemSusChem</i> , 2014, 7, 1476-1483.	6.8	72
48	Atomic Layer-by-Layer Deposition of Pt on Pd Nanocubes for Catalysts with Enhanced Activity and Durability toward Oxygen Reduction. <i>Nano Letters</i> , 2014, 14, 3570-3576.	9.1	448
49	Aberration Corrected Electron Microscopy Study of Bimetallic Pd@Pt Nanocrystal: Core-Shell Cubic and Core-Frame Concave Structures. <i>Journal of Physical Chemistry C</i> , 2014, 118, 28876-28882.	3.1	26
50	Synthesis and Characterization of Pd@Pt@Ni Core-Shell Octahedra with High Activity toward Oxygen Reduction. <i>ACS Nano</i> , 2014, 8, 10363-10371.	14.6	165
51	Continuous and Scalable Production of Well-Controlled Noble-Metal Nanocrystals in Milliliter-Sized Droplet Reactors. <i>Nano Letters</i> , 2014, 14, 6626-6631.	9.1	113
52	Creating Single Boundary between Two CdTe (111) Wafers with Controlled Orientation by Wafer Bonding. <i>Microscopy and Microanalysis</i> , 2014, 20, 516-517.	0.4	1
53	In-Situ Studies of Thermal Stability of Core-Frame Cubic Pd@Rh Nanocrystals at Elevated Temperatures. <i>Microscopy and Microanalysis</i> , 2014, 20, 1632-1633.	0.4	0
54	Facile Synthesis of Palladium Right Bipyramids and Their Use as Seeds for Overgrowth and as Catalysts for Formic Acid Oxidation. <i>Journal of the American Chemical Society</i> , 2013, 135, 15706-15709.	13.7	139

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55	Confining the Nucleation and Overgrowth of Rh to the {111} Facets of Pd Nanocrystal Seeds: The Roles of Capping Agent and Surface Diffusion. <i>Journal of the American Chemical Society</i> , 2013, 135, 16658-16667.	13.7	73
56	Facile synthesis of Pd–Ir bimetallic octapods and nanocages through galvanic replacement and co-reduction, and their use for hydrazine decomposition. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11822.	2.8	42
57	Luminescent LaF ₃ :Ce-doped organically modified nanoporous silica xerogels. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	8
58	Enhanced shape stability of Pd–Rh core–frame nanocubes at elevated temperature: in situ heating transmission electron microscopy. <i>Chemical Communications</i> , 2013, 49, 11806.	4.1	33
59	Synthesis and Characterization of 9 nm Pt–Ni Octahedra with a Record High Activity of 3.3 A/mg_{Pt} for the Oxygen Reduction Reaction. <i>Nano Letters</i> , 2013, 13, 3420-3425.	9.1	542
60	Synthesis of Rhodium Concave Tetrahedrons by Collectively Manipulating the Reduction Kinetics, Facet-Selective Capping, and Surface Diffusion. <i>Nano Letters</i> , 2013, 13, 6262-6268.	9.1	66
61	On the role of surface diffusion in determining the shape or morphology of noble-metal nanocrystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6669-6673.	7.1	339
62	Creating a single twin boundary between two CdTe (111) wafers with controlled rotation angle by wafer bonding. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	21
63	Control Over the Branched Structures of Platinum Nanocrystals for Electrocatalytic Applications. <i>ACS Nano</i> , 2012, 6, 9797-9806.	14.6	126
64	Synthesis of Pd–Rh Core–Frame Concave Nanocubes and Their Conversion to Rh Cubic Nanoframes by Selective Etching of the Pd Cores. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10266-10270.	13.8	226
65	Copper Can Still Be Epitaxially Deposited on Palladium Nanocrystals To Generate Core–Shell Nanocubes Despite Their Large Lattice Mismatch. <i>ACS Nano</i> , 2012, 6, 2566-2573.	14.6	139
66	A Mechanistic Study on the Nucleation and Growth of Au on Pd Seeds with a Cubic or Octahedral Shape. <i>ChemCatChem</i> , 2012, 4, 1668-1674.	3.7	28
67	Facile Synthesis of Pd–Pt Alloy Nanocages and Their Enhanced Performance for Preferential Oxidation of CO in Excess Hydrogen. <i>ACS Nano</i> , 2011, 5, 8212-8222.	14.6	236
68	Synthesis of Pd–Pt Bimetallic Nanocrystals with a Concave Structure through a Bromide-Induced Galvanic Replacement Reaction. <i>Journal of the American Chemical Society</i> , 2011, 133, 6078-6089.	13.7	405
69	Nanocrystals Composed of Alternating Shells of Pd and Pt Can Be Obtained by Sequentially Adding Different Precursors. <i>Journal of the American Chemical Society</i> , 2011, 133, 10422-10425.	13.7	115
70	Seed-mediated synthesis of Pd–Rh bimetallic nanodendrites. <i>Chemical Physics Letters</i> , 2010, 494, 249-254.	2.6	30
71	Hydrogenated amorphous silicon nanowire transistors with Schottky barrier source/drain junctions. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	8
72	Synthesis of Pd–Au Bimetallic Nanocrystals via Controlled Overgrowth. <i>Journal of the American Chemical Society</i> , 2010, 132, 2506-2507.	13.7	252

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73	Effects of Al substitution on the spontaneous polarization and lattice dynamics of the $\text{PbTi}_{1-x}\text{Al}_x\text{O}_3$. Dalton Transactions, 2010, 39, 5183.	3.3	12
74	Microstructure and Superconductivity of Zn and Au-Sn Junction Nanowires. Journal of Nanoscience and Nanotechnology, 2009, 9, 946-950.	0.9	0
75	Twin-Induced Growth of Palladium-Platinum Alloy Nanocrystals. Angewandte Chemie - International Edition, 2009, 48, 6304-6308.	13.8	119
76	Facile Synthesis of Bimetallic Nanoplates Consisting of Pd Cores and Pt Shells through Seeded Epitaxial Growth. Nano Letters, 2008, 8, 2535-2540.	9.1	221
77	Proton-Conducting Films of Nanoscale Ribbons Formed by Exfoliation of the Layer Perovskite $\text{H}_2\text{SrTa}_2\text{O}_7$. Chemistry of Materials, 2008, 20, 213-219.	6.7	21
78	Effects of metal gate-induced strain on the performance of metal-oxide-semiconductor field effect transistors with titanium nitride gate electrode and hafnium oxide dielectric. Applied Physics Letters, 2007, 91, .	3.3	18
79	Synthesis and Mechanistic Study of Palladium Nanobars and Nanorods. Journal of the American Chemical Society, 2007, 129, 3665-3675.	13.7	570
80	Synthesis of silver nanoplates at high yields by slowing down the polyol reduction of silver nitrate with polyacrylamide. Journal of Materials Chemistry, 2007, 17, 2600.	6.7	201
81	Template-Grown Metal Nanowires. Inorganic Chemistry, 2006, 45, 7555-7565.	4.0	194
82	Observation of Superconductivity in Granular Bi Nanowires Fabricated by Electrodeposition. Nano Letters, 2006, 6, 2773-2780.	9.1	79
83	Influence of a bulk superconducting environment on the superconductivity of one-dimensional zinc nanowires. Physical Review B, 2006, 74, .	3.2	30
84	Nanometer-Scale Modification and Welding of Silicon and Metallic Nanowires with a High-Intensity Electron Beam. Small, 2005, 1, 1221-1229.	10.0	171
85	Dissipation in quasi-one-dimensional superconducting single-crystal Sn nanowires. Physical Review B, 2005, 71, .	3.2	172
86	Penetrating the Oxide Barrier in Situ and Separating Freestanding Porous Anodic Alumina Films in One Step. Nano Letters, 2005, 5, 697-703.	9.1	128
87	Suppression of Superconductivity in Zinc Nanowires by Bulk Superconductors. Physical Review Letters, 2005, 95, 076802.	7.8	96
88	Raman Scattering from Surface Phonons in Rectangular Cross-sectional w-ZnS Nanowires. Nano Letters, 2004, 4, 1991-1996.	9.1	190
89	Microtwinning in Template-Synthesized Single-Crystal Metal Nanowires. Journal of Physical Chemistry B, 2004, 108, 841-845.	2.6	130
90	Electrochemical Growth of Single-Crystal Metal Nanowires via a Two-Dimensional Nucleation and Growth Mechanism. Nano Letters, 2003, 3, 919-923.	9.1	362

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91	Synthesis and characterization of superconducting single-crystal Sn nanowires. Applied Physics Letters, 2003, 83, 1620-1622.	3.3	120