

Yugang Sun

List of Publications by Year in descending order

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209
papers

49,237
citations

8159

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2274

200
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222
all docs

222
docs citations

222
times ranked

44288
citing authors

#	ARTICLE	IF	CITATIONS
1	Microwave synthesis of single-phase nanoparticles made of multi-principal element alloys. Nano Research, 2022, 15, 4886-4892.	5.8	13
2	Interfaced Ag/Cu nanostructures derived from metal thiolate nanoplates: A highly selective catalyst for electrochemical reduction of CO ₂ to ethanol. SmartMat, 2022, 3, 173-182.	6.4	7
3	Back Cover Image: Volume 3 Issue 1. SmartMat, 2022, 3, .	6.4	0
4	Geometry and surface state effects on the mechanical response of Au nanostructures. International Journal of Materials Research, 2022, 95, 416-424.	0.1	0
5	Light-Driven Dry Reforming of Methane on Metal Catalysts. Solar Rrl, 2021, 5, 2000507.	3.1	21
6	Simulated annealing fitting: a global optimization method for quantitatively analyzing growth kinetics of colloidal Ag nanoparticles. Nanoscale Horizons, 2021, 6, 568-573.	4.1	0
7	Surface chemistry of quantum-sized metal nanoparticles under light illumination. Chemical Science, 2021, 12, 1227-1239.	3.7	19
8	Deciphering Catalytic Selectivity on Uneven Terraces. Chem, 2021, 7, 281-282.	5.8	1
9	Silica-coating-assisted nitridation of TiO ₂ nanoparticles and their photothermal property. Nano Research, 2021, 14, 3228-3233.	5.8	9
10	Highly Dispersed Palladium Nanoparticles on Silica Spheres for Photocatalytic Hydrodeoxygenation of Vanillin. Journal of Physical Chemistry C, 2021, 125, 16550-16556.	1.5	8
11	Anomalous small-angle X-ray scattering for materials chemistry. Trends in Chemistry, 2021, 3, 1045-1060.	4.4	4
12	Anion replacement in silver chlorobromide nanocubes: two distinct hollowing mechanisms. Materials Chemistry Frontiers, 2020, 4, 524-531.	3.2	6
13	Quantifying Electrocatalytic Reduction of CO ₂ on Twin Boundaries. Chem, 2020, 6, 3007-3021.	5.8	41
14	Hollow Nanostructures. ChemNanoMat, 2020, 6, 1419-1420.	1.5	2
15	Hierarchically 3D Porous Ag Nanostructures Derived from Silver Benzenethiolate Nanoboxes: Enabling CO ₂ Reduction with a Near-Unity Selectivity and Mass-Specific Current Density over 500 A/g. Nano Letters, 2020, 20, 2806-2811.	4.5	53
16	Promoting reactivity of photoexcited hot electrons in small-sized plasmonic metal nanoparticles that are supported on dielectric nanospheres. Journal of Chemical Physics, 2020, 152, 084706.	1.2	9
17	Photocatalytic hot-carrier chemistry. MRS Bulletin, 2020, 45, 20-25.	1.7	21
18	Highly Dispersed RuOOH Nanoparticles on Silica Spheres: An Efficient Photothermal Catalyst for Selective Aerobic Oxidation of Benzyl Alcohol. Nano-Micro Letters, 2020, 12, 41.	14.4	6

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19	Regioselective Magneto-optical Heteronanorods Enabling Chiroptical Activity. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 490-491.	1.3	0
20	Reduction of carbon dioxide on photoexcited nanoparticles of VIII group metals. <i>Nanoscale</i> , 2019, 11, 16723-16732.	2.8	35
21	Continuous-Flow Synthesis of Thermochromic M-Phase VO ₂ Particles via Rapid One-Step Hydrothermal Reaction: Effect of Mixers. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-10.	1.5	0
22	In Situ Synchrotron X-ray Characterization Shining Light on the Nucleation and Growth Kinetics of Colloidal Nanoparticles. <i>Angewandte Chemie</i> , 2019, 131, 9083-9091.	1.6	3
23	Selective Transfer Coupling of Nitrobenzene to Azoxybenzene on Rh Nanoparticle Catalyst Promoted by Photoexcited Hot Electrons. <i>ChemNanoMat</i> , 2019, 5, 1000-1007.	1.5	16
24	In Situ Synchrotron X-ray Characterization Shining Light on the Nucleation and Growth Kinetics of Colloidal Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8987-8995.	7.2	40
25	An extreme-condition model for quantifying growth kinetics of colloidal metal nanoparticles. <i>Nano Research</i> , 2019, 12, 1339-1345.	5.8	10
26	Three-electron reversible redox for a high-energy fluorophosphate cathode: Na ₃ V ₂ O ₂ (PO ₄) ₂ F. <i>Chemical Communications</i> , 2019, 55, 3979-3982.	2.2	18
27	Silver Chlorobromide Nanocubes: A Class of Reactive Templates for Synthesizing Nanoplates and Nanocages of Silver Thiolates. <i>MRS Advances</i> , 2019, 4, 2087-2094.	0.5	4
28	Hollow-Structured Materials for Thermal Insulation. <i>Advanced Materials</i> , 2019, 31, e1801001.	11.1	197
29	(Invited) Quantum-Sized Metal Nanoparticles: Bridging Photons and Chemical Transformations. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
30	One stone, two birds: silica nanospheres significantly increase photocatalytic activity and colloidal stability of photocatalysts. <i>Nano Futures</i> , 2018, 2, 015003.	1.0	10
31	Directionally assembled MoS ₂ with significantly expanded interlayer spacing: a superior anode material for high-rate lithium-ion batteries. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1441-1448.	3.2	12
32	Synthesis of PtAu Alloy Nanocrystals in Micelle Nanoreactors Enabled by Flash Heating and Cooling. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1700413.	1.2	9
33	Highly-stable and efficient photocatalytic fuel cell based on an epitaxial TiO ₂ /WO ₃ /W nanothorn photoanode and enhanced radical reactions for simultaneous electricity production and wastewater treatment. <i>Applied Energy</i> , 2018, 220, 127-137.	5.1	87
34	Superior Capacitive Performance Enabled by Edge-Oriented and Interlayer-Expanded MoS ₂ Nanosheets Anchored on Reduced Graphene Oxide Sheets. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 4571-4576.	1.8	15
35	Tessellating tiny tetrahedrons. <i>Science</i> , 2018, 362, 1354-1355.	6.0	3
36	Photocatalysis: Quantum-Sized Metal Catalysts for Hot-Electron-Driven Chemical Transformation (<i>Adv. Mater.</i> 48/2018). <i>Advanced Materials</i> , 2018, 30, 1870366.	11.1	0

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37	Structure and Magnetism Evolution from FeCo Nanoparticles to Hollow Nanostructure Conversion for Magnetic Applications. ACS Applied Nano Materials, 2018, 1, 5837-5842.	2.4	11
38	Geometric Symmetry of Dielectric Antenna Influencing Light Absorption in Quantum-Sized Metal Nanocrystals: A Comparative Study. Frontiers in Chemistry, 2018, 6, 494.	1.8	15
39	Enabling selective aerobic oxidation of alcohols to aldehydes by hot electrons in quantum-sized Rh nanocubes. Materials Today Energy, 2018, 10, 15-22.	2.5	14
40	Quantum-Sized Metal Catalysts for Hot-Electron-Driven Chemical Transformation. Advanced Materials, 2018, 30, e1802082.	11.1	55
41	In Situ Techniques for Probing Kinetics and Mechanism of Hollowing Nanostructures through Direct Chemical Transformations. Small Methods, 2018, 2, 1800165.	4.6	13
42	Vertically aligned MoS ₂ on Ti ₃ C ₂ (MXene) as an improved HER catalyst. Journal of Materials Chemistry A, 2018, 6, 16882-16889.	5.2	146
43	Mesoporous SiO ₂ Nanoparticles: A Unique Platform Enabling Sensitive Detection of Rare Earth Ions with Smartphone Camera. Nano-Micro Letters, 2018, 10, 55.	14.4	9
44	Progressive Design of Plasmonic Metal-Semiconductor Ensemble toward Regulated Charge Flow and Improved Visible-NIR-Driven Solar-Driven Chemical Conversion. Small, 2017, 13, 1602947.	5.2	88
45	Enhanced optical absorption in semiconductor nanoparticles enabled by nearfield dielectric scattering. Nano Research, 2017, 10, 1292-1301.	5.8	14
46	Enabling Colloidal Synthesis of Edge-Oriented MoS ₂ with Expanded Interlayer Spacing for Enhanced HER Catalysis. Nano Letters, 2017, 17, 1963-1969.	4.5	225
47	Quantitative 3D evolution of colloidal nanoparticle oxidation in solution. Science, 2017, 356, 303-307.	6.0	125
48	Revealing mechanism responsible for structural reversibility of single-crystal VO ₂ nanorods upon lithiation/delithiation. Nano Energy, 2017, 36, 197-205.	8.2	65
49	Semiconductors: Progressive Design of Plasmonic Metal-Semiconductor Ensemble toward Regulated Charge Flow and Improved Visible-NIR-Driven Solar-Driven Chemical Conversion (Small 14/2017). Small, 2017, 13, 1602947.	5.2	0
50	Ternary silver chlorobromide nanocrystals: intrinsic influence of size and morphology on photocatalytic activity. Materials Chemistry Frontiers, 2017, 1, 1534-1540.	3.2	8
51	Interlayer-expanded MoS ₂ . Materials Today, 2017, 20, 83-91.	8.3	276
52	A low-cost photoelectrochemical tandem cell for highly-stable and efficient solar water splitting. Nano Energy, 2017, 41, 225-232.	8.2	62
53	Multichannel Charge Transfer and Mechanistic Insight in Metal Decorated 2D Bi ₂ WO ₆ -TiO ₂ Cascade with Enhanced Photocatalytic Performance. Small, 2017, 13, 1702253.	5.2	117
54	Plasmonic Particles - Now Tailored to Your Needs. Particle and Particle Systems Characterization, 2017, 34, 1700103.	1.2	2

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55	Ternary Silver Halide Nanocrystals. <i>Accounts of Chemical Research</i> , 2017, 50, 1754-1761.	7.6	40
56	Hierarchical Ru-doped sodium vanadium fluorophosphates hollow microspheres as a cathode of enhanced superior rate capability and ultralong stability for sodium-ion batteries. <i>Nano Energy</i> , 2017, 31, 64-73.	8.2	70
57	Microfluidic Synthesis Enables Dense and Uniform Loading of Surfactant-free PtSn Nanocrystals on Carbon Supports for Enhanced Ethanol Oxidation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4952-4956.	7.2	73
58	Near-field dielectric scattering promotes optical absorption by platinum nanoparticles. <i>Nature Photonics</i> , 2016, 10, 473-482.	15.6	298
59	Quantitatively in Situ Imaging Silver Nanowire Hollowing Kinetics. <i>Nano Letters</i> , 2016, 16, 6555-6559.	4.5	25
60	Significant enhancement of photocatalytic water splitting enabled by elimination of surface traps in Pt-tipped CdSe nanorods. <i>Nanoscale</i> , 2016, 8, 18621-18625.	2.8	16
61	Ultrathin Co(Ni)-doped MoS ₂ nanosheets as catalytic promoters enabling efficient solar hydrogen production. <i>Nano Research</i> , 2016, 9, 2284-2293.	5.8	80
62	Microfluidic Synthesis Enables Dense and Uniform Loading of Surfactant-free PtSn Nanocrystals on Carbon Supports for Enhanced Ethanol Oxidation. <i>Angewandte Chemie</i> , 2016, 128, 5036-5040.	1.6	3
63	Quantifying the Nucleation and Growth Kinetics of Microwave Nanochemistry Enabled by in Situ High-Energy X-ray Scattering. <i>Nano Letters</i> , 2016, 16, 715-720.	4.5	50
64	Ru Nanoframes with an fcc Structure and Enhanced Catalytic Properties. <i>Nano Letters</i> , 2016, 16, 2812-2817.	4.5	187
65	Complete Au@ZnO core-shell nanoparticles with enhanced plasmonic absorption enabling significantly improved photocatalysis. <i>Nanoscale</i> , 2016, 8, 10774-10782.	2.8	94
66	Visualizing Redox Dynamics of a Single Ag/AgCl Heterogeneous Nanocatalyst at Atomic Resolution. <i>ACS Nano</i> , 2016, 10, 3738-3746.	7.3	61
67	Plasmonic silver incorporated silver halides for efficient photocatalysis. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4336-4352.	5.2	121
68	Reversible Modulation of Surface Plasmons in Gold Nanoparticles Enabled by Surface Redox Chemistry. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8948-8951.	7.2	20
69	Silver chlorobromide nanocubes with significantly improved uniformity: synthesis and assembly into photonic crystals. <i>Journal of Materials Chemistry C</i> , 2015, 3, 58-65.	2.7	24
70	Interfaced heterogeneous nanodimers. <i>National Science Review</i> , 2015, 2, 329-348.	4.6	79
71	In situ high-energy synchrotron X-ray diffraction revealing precipitation reaction kinetics of silver ions with mixed halide ions. <i>Journal of Materials Chemistry C</i> , 2015, 3, 7492-7498.	2.7	8
72	Field-assisted self-assembly process: general discussion. <i>Faraday Discussions</i> , 2015, 181, 463-479.	1.6	1

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73	Electron beam induced evolution in Au, Ag, and interfaced heterogeneous Au/Ag nanoparticles. <i>Nanoscale</i> , 2015, 7, 13687-13693.	2.8	41
74	Edge-terminated molybdenum disulfide with a 9.4-Å... interlayer spacing for electrochemical hydrogen production. <i>Nature Communications</i> , 2015, 6, 7493.	5.8	628
75	Exceptional enhancement of Raman scattering on silver chlorobromide nanocube photonic crystals: chemical and photonic contributions. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2455-2461.	2.7	5
76	Mesoporous Colloidal Superparticles of Platinum-Group Nanocrystals with Surfactant-Free Surfaces and Enhanced Heterogeneous Catalysis. <i>Advanced Functional Materials</i> , 2015, 25, 1638-1647.	7.8	23
77	One-dimension-based spatially ordered architectures for solar energy conversion. <i>Chemical Society Reviews</i> , 2015, 44, 5053-5075.	18.7	367
78	Deformation Twinning of a Silver Nanocrystal under High Pressure. <i>Nano Letters</i> , 2015, 15, 7644-7649.	4.5	27
79	Highlights of the Faraday Discussion on Nanoparticle Synthesis and Assembly, Argonne, USA, April 2015. <i>Chemical Communications</i> , 2015, 51, 13725-13730.	2.2	2
80	Waltzing with the Versatile Platform of Graphene to Synthesize Composite Photocatalysts. <i>Chemical Reviews</i> , 2015, 115, 10307-10377.	23.0	1,017
81	Birnessite-Type MnO ₂ Nanosheets with Layered Structures Under High Pressure: Elimination of Crystalline Stacking Faults and Oriented Lamellar Assembly. <i>Small</i> , 2015, 11, 300-305.	5.2	41
82	Encapsulation of superparamagnetic Fe ₃ O ₄ @SiO ₂ core/shell nanoparticles in MnO ₂ microflowers with high surface areas. <i>Chinese Chemical Letters</i> , 2015, 26, 233-237.	4.8	7
83	Concaving AgI sub-microparticles for enhanced photocatalysis. <i>Nano Energy</i> , 2014, 9, 204-211.	8.2	45
84	Highly Asymmetric, Interfaced Dimers Made of Au Nanoparticles and Bimetallic Nanoshells: Synthesis and Photo-Enhanced Catalysis. <i>Advanced Functional Materials</i> , 2014, 24, 2828-2836.	7.8	47
85	Silver nanowire/thermoplastic polyurethane elastomer nanocomposites: Thermal, mechanical, and dielectric properties. <i>Materials & Design</i> , 2014, 56, 398-404.	5.1	101
86	Promoting photocatalytic multiple-electron reduction in aerobic solutions using Au-tipped CdSe nanorod clusters. <i>Chemical Communications</i> , 2014, 50, 1411.	2.2	15
87	Quantitative determination of fragmentation kinetics and thermodynamics of colloidal silver nanowires by in situ high-energy synchrotron X-ray diffraction. <i>Nanoscale</i> , 2014, 6, 365-370.	2.8	19
88	Enhanced photocatalysis by hybrid hierarchical assembly of plasmonic nanocrystals with high surface areas. <i>Catalysis Today</i> , 2014, 225, 177-184.	2.2	9
89	Interfaced Metal Heterodimers in the Quantum Size Regime. <i>Nano Letters</i> , 2013, 13, 3958-3964.	4.5	53
90	Hollow AgI:Ag Nanoframes as Solar Photocatalysts for Hydrogen Generation from Water Reduction. <i>ChemSusChem</i> , 2013, 6, 1931-1937.	3.6	25

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91	In Situ Synchrotron X-ray Techniques for Real-time Probing of Colloidal Nanoparticle Synthesis. Particle and Particle Systems Characterization, 2013, 30, 399-419.	1.2	65
92	Controlled synthesis of colloidal silver nanoparticles in organic solutions: empirical rules for nucleation engineering. Chemical Society Reviews, 2013, 42, 2497-2511.	18.7	183
93	In Situ Visualization of Self-Assembly of Charged Gold Nanoparticles. Journal of the American Chemical Society, 2013, 135, 3764-3767.	6.6	183
94	Silver chlorobromide nanoparticles with highly pure phases: synthesis and characterization. Journal of Materials Chemistry A, 2013, 1, 6786.	5.2	20
95	A Generic Approach for the Synthesis of Dimer Nanoclusters and Asymmetric Nanoassemblies. Journal of the American Chemical Society, 2013, 135, 2213-2221.	6.6	53
96	Lithium ion conducting membranes for lithium-air batteries. Nano Energy, 2013, 2, 801-816.	8.2	97
97	Ambient-stable tetragonal phase in silver nanostructures. Nature Communications, 2012, 3, 971.	5.8	119
98	Morphological and Crystalline Evolution of Nanostructured MnO ₂ and Its Application in Lithium-Air Batteries. ACS Nano, 2012, 6, 8067-8077.	7.3	266
99	Real-Time Probing of the Synthesis of Colloidal Silver Nanocubes with Time-Resolved High-Energy Synchrotron X-ray Diffraction. Journal of Physical Chemistry C, 2012, 116, 11842-11847.	1.5	38
100	Thermal transformation of γ -MnO ₂ nanoflowers studied by in-situ TEM. Science China Chemistry, 2012, 55, 2346-2352.	4.2	12
101	Stable Magnetic Hot Spots for Simultaneous Concentration and Ultrasensitive Surface-Enhanced Raman Scattering Detection of Solution Analytes. Journal of Physical Chemistry C, 2012, 116, 13329-13335.	1.5	36
102	Graphene formed on SiC under various environments: comparison of Si-face and C-face. Journal Physics D: Applied Physics, 2012, 45, 154001.	1.3	44
103	Propagation Lengths and Group Velocities of Plasmons in Chemically Synthesized Gold and Silver Nanowires. ACS Nano, 2012, 6, 472-482.	7.3	148
104	Watching nanoparticle kinetics in liquid. Materials Today, 2012, 15, 140-147.	8.3	35
105	Growth of silver nanowires on GaAs wafers. Nanoscale, 2011, 3, 2247.	2.8	8
106	Ripening of bimodally distributed AgCl nanoparticles. Journal of Materials Chemistry, 2011, 21, 11644.	6.7	29
107	Surface chemistry: a non-negligible parameter in determining optical properties of small colloidal metal nanoparticles. Physical Chemistry Chemical Physics, 2011, 13, 11814.	1.3	40
108	Monitoring of Galvanic Replacement Reaction between Silver Nanowires and H ₂ AuCl ₄ by In Situ Transmission X-ray Microscopy. Nano Letters, 2011, 11, 4386-4392.	4.5	95

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109	Shaped gold and silver nanoparticles. <i>Frontiers of Materials Science</i> , 2011, 5, 1-24.	1.1	27
110	Multiple-Step Phase Transformation in Silver Nanoplates Under High Pressure. <i>Small</i> , 2011, 7, 606-611.	5.2	43
111	Single-Crystal Silicon Membranes with High Lithium Conductivity and Application in Lithium-Air Batteries. <i>Advanced Materials</i> , 2011, 23, 4947-4952.	11.1	46
112	Plasmonic/Magnetic Bifunctional Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3158-3163.	7.2	111
113	Metal Nanoplates on Semiconductor Substrates. <i>Advanced Functional Materials</i> , 2010, 20, 3646-3657.	7.8	41
114	Tailored Synthesis of Superparamagnetic Gold Nanoshells with Tunable Optical Properties. <i>Advanced Materials</i> , 2010, 22, 1905-1909.	11.1	128
115	Facile Synthesis of Sunlight-Driven AgCl:Ag Plasmonic Nanophotocatalyst. <i>Advanced Materials</i> , 2010, 22, 2570-2574.	11.1	549
116	Reversing the size-dependence of surface plasmon resonances. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14530-14534.	3.3	408
117	Imaging of complex density in silver nanocubes by coherent x-ray diffraction. <i>New Journal of Physics</i> , 2010, 12, 035019.	1.2	40
118	Synthesis of Silver Nanocubes in a Hydrophobic Binary Organic Solvent. <i>Chemistry of Materials</i> , 2010, 22, 6272-6279.	3.2	41
119	Nanophase Evolution at Semiconductor/Electrolyte Interface in Situ Probed by Time-Resolved High-Energy Synchrotron X-ray Diffraction. <i>Nano Letters</i> , 2010, 10, 3747-3753.	4.5	22
120	Synthesis of Ag Nanoplates on GaAs Wafers: Evidence for Growth Mechanism. <i>Journal of Physical Chemistry C</i> , 2010, 114, 857-863.	1.5	12
121	Conversion of Ag Nanowires to AgCl Nanowires Decorated with Au Nanoparticles and Their Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2127-2133.	1.5	95
122	Silver nanowires – unique templates for functional nanostructures. <i>Nanoscale</i> , 2010, 2, 1626.	2.8	220
123	Nanoscale, Electrified Liquid Jets for High-Resolution Printing of Charge. <i>Nano Letters</i> , 2010, 10, 584-591.	4.5	120
124	Morphology of graphene on SiC(0001 \bar{A}) surfaces. <i>Applied Physics Letters</i> , 2009, 95, 073101.	1.5	33
125	Laser-Driven Growth of Silver Nanoplates on p-Type GaAs Substrates and Their Surface-Enhanced Raman Scattering Activity. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6061-6067.	1.5	12
126	Synthesis of Out-of-Substrate Au-Ag Nanoplates with Enhanced Stability for Catalysis. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6824-6827.	7.2	46

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127	Temperature Dependence of Epitaxial Graphene Formation on SiC(0001). Journal of Electronic Materials, 2009, 38, 718-724.	1.0	35
128	Fluorescence studies of electrospun MEH-PPV/PEO nanofibers. Synthetic Metals, 2009, 159, 1454-1459.	2.1	31
129	Recombination rates for single colloidal quantum dots near a smooth metal film. Physical Chemistry Chemical Physics, 2009, 11, 5867.	1.3	20
130	Facile tuning of superhydrophobic states with Ag nanoplates. Nano Research, 2008, 1, 292-302.	5.8	24
131	Semiconductor Wires and Ribbons for High-Performance Flexible Electronics. Angewandte Chemie - International Edition, 2008, 47, 5524-5542.	7.2	279
132	Post-buckling analysis for the precisely controlled buckling of thin film encapsulated by elastomeric substrates. International Journal of Solids and Structures, 2008, 45, 2014-2023.	1.3	65
133	Reprint of "Post-buckling analysis for the precisely controlled buckling of thin film encapsulated by elastomeric substrates" [In. J. Solids Struct. 45 (2008) 2014-2023]. International Journal of Solids and Structures, 2008, 45, 3858-3867.	1.3	9
134	Gold Nanocages: Synthesis, Properties, and Applications. Accounts of Chemical Research, 2008, 41, 1587-1595.	7.6	1,336
135	Single-Walled Carbon Nanotubes Modified with Pd Nanoparticles: Unique Building Blocks for High-Performance, Flexible Hydrogen Sensors. Journal of Physical Chemistry C, 2008, 112, 1250-1259.	1.5	87
136	Formation of Oxides and Their Role in the Growth of Ag Nanoplates on GaAs Substrates. Langmuir, 2008, 24, 11928-11934.	1.6	24
137	Effects of visible and synchrotron x-ray radiation on the growth of silver nanoplates on n-GaAs wafers: A comparative study. Applied Physics Letters, 2008, 92, 183109.	1.5	9
138	Comparative Study on the Growth of Silver Nanoplates on GaAs Substrates by Electron Microscopy, Synchrotron X-ray Diffraction, and Optical Spectroscopy. Journal of Physical Chemistry C, 2008, 112, 8928-8938.	1.5	16
139	Metal Nanostructures. , 2008, , 2105-2115.		0
140	Semiconductor Nanowires. , 2008, , 3896-3900.		0
141	Mechanics of precisely controlled thin film buckling on elastomeric substrate. Applied Physics Letters, 2007, 90, 133119.	1.5	113
142	Micro- and Nanopatterning Techniques for Organic Electronic and Optoelectronic Systems. Chemical Reviews, 2007, 107, 1117-1160.	23.0	612
143	Nano- and Microstructured Semiconductor Materials for Macroelectronics. , 2007, , 375-400.		1
144	Structural forms of single crystal semiconductor nanoribbons for high-performance stretchable electronics. Journal of Materials Chemistry, 2007, 17, 832.	6.7	126

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145	Direct Growth of Dense, Pristine Metal Nanoplates with Well-Controlled Dimensions on Semiconductor Substrates. <i>Chemistry of Materials</i> , 2007, 19, 5845-5847.	3.2	59
146	Finite deformation mechanics in buckled thin films on compliant supports. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 15607-15612.	3.3	626
147	Electrodeposition of Pd nanoparticles on single-walled carbon nanotubes for flexible hydrogen sensors. <i>Applied Physics Letters</i> , 2007, 90, 213107.	1.5	161
148	A Self-Templated Approach to TiO ₂ Microcapsules. <i>Nano Letters</i> , 2007, 7, 1832-1836.	4.5	135
149	Inorganic Semiconductors for Flexible Electronics. <i>Advanced Materials</i> , 2007, 19, 1897-1916.	11.1	794
150	High-Performance, Flexible Hydrogen Sensors That Use Carbon Nanotubes Decorated with Palladium Nanoparticles. <i>Advanced Materials</i> , 2007, 19, 2818-2823.	11.1	334
151	Surfactantless Synthesis of Silver Nanoplates and Their Application in SERS. <i>Small</i> , 2007, 3, 1964-1975.	5.2	147
152	Synthesis of Silver Nanostructures with Controlled Shapes and Properties. <i>Accounts of Chemical Research</i> , 2007, 40, 1067-1076.	7.6	1,063
153	Heterogeneous Three-Dimensional Electronics by Use of Printed Semiconductor Nanomaterials. <i>Science</i> , 2006, 314, 1754-1757.	6.0	632
154	Printed Arrays of Aligned GaAs Wires for Flexible Transistors, Diodes, and Circuits on Plastic Substrates. <i>Small</i> , 2006, 2, 1330-1334.	5.2	76
155	Controlled buckling of semiconductor nanoribbons for stretchable electronics. <i>Nature Nanotechnology</i> , 2006, 1, 201-207.	15.6	817
156	Processing dependent behavior of soft imprint lithography on the 1-10-nm scale. <i>IEEE Nanotechnology Magazine</i> , 2006, 5, 301-308.	1.1	52
157	Shape-Controlled Synthesis of Metal Nanostructures: The Case of Silver. <i>ChemInform</i> , 2006, 37, no.	0.1	0
158	Highly Bendable, Transparent Thin-Film Transistors That Use Carbon-Nanotube-Based Conductors and Semiconductors with Elastomeric Dielectrics. <i>Advanced Materials</i> , 2006, 18, 304-309.	11.1	338
159	Buckled and Wavy Ribbons of GaAs for High-Performance Electronics on Elastomeric Substrates. <i>Advanced Materials</i> , 2006, 18, 2857-2862.	11.1	146
160	Tubes, Ribbons and Wires for Flexible Electronics. <i>International Power Modulator Symposium and High-Voltage Workshop</i> , 2006, , .	0.0	1
161	Gigahertz operation in flexible transistors on plastic substrates. <i>Applied Physics Letters</i> , 2006, 88, 183509.	1.5	67
162	Photolithographic Route to the Fabrication of Micro/Nanowires of III-V Semiconductors. <i>Advanced Functional Materials</i> , 2005, 15, 30-40.	7.8	107

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