

Yugang Sun

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

201
papers

44,328
citations

72
h-index

210
g-index

222
ext. papers

46,905
ext. citations

12.1
avg. IF

7.77
L-index

#	Paper	IF	Citations
201	Interfaced Ag/Cu nanostructures derived from metal thiolate nanoplates: A highly selective catalyst for electrochemical reduction of CO ₂ to ethanol. <i>SmartMat</i> , 2022 , 3, 173-182	22.8	0
200	Geometry and surface state effects on the mechanical response of Au nanostructures. <i>International Journal of Materials Research</i> , 2022 , 95, 416-424	0.5	
199	Silica-coating-assisted nitridation of TiO ₂ nanoparticles and their photothermal property. <i>Nano Research</i> , 2021 , 14, 3228-3233	10	1
198	Highly Dispersed Palladium Nanoparticles on Silica Spheres for Photocatalytic Hydrodeoxygenation of Vanillin. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 16550-16556	3.8	2
197	Light-Driven Dry Reforming of Methane on Metal Catalysts. <i>Solar Rrl</i> , 2021 , 5, 2000507	7.1	5
196	Simulated annealing fitting: a global optimization method for quantitatively analyzing growth kinetics of colloidal Ag nanoparticles. <i>Nanoscale Horizons</i> , 2021 , 6, 568-573	10.8	
195	Deciphering Catalytic Selectivity on Uneven Terraces. <i>Chem</i> , 2021 , 7, 281-282	16.2	1
194	Hierarchically 3D Porous Ag Nanostructures Derived from Silver Benzenethiolate Nanoboxes: Enabling CO Reduction with a Near-Unity Selectivity and Mass-Specific Current Density over 500 A/g. <i>Nano Letters</i> , 2020 , 20, 2806-2811	11.5	29
193	Promoting reactivity of photoexcited hot electrons in small-sized plasmonic metal nanoparticles that are supported on dielectric nanospheres. <i>Journal of Chemical Physics</i> , 2020 , 152, 084706	3.9	6
192	Photocatalytic hot-carrier chemistry. <i>MRS Bulletin</i> , 2020 , 45, 20-25	3.2	9
191	Highly Dispersed RuOOH Nanoparticles on Silica Spheres: An Efficient Photothermal Catalyst for Selective Aerobic Oxidation of Benzyl Alcohol. <i>Nano-Micro Letters</i> , 2020 , 12, 41	19.5	5
190	Regioselective Magneto-optical Heteronanorods Enabling Chiroptical Activity. <i>Chemical Research in Chinese Universities</i> , 2020 , 36, 490-491	2.2	
189	Anion replacement in silver chlorobromide nanocubes: two distinct hollowing mechanisms. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 524-531	7.8	2
188	Quantifying Electrocatalytic Reduction of CO ₂ on Twin Boundaries. <i>Chem</i> , 2020 , 6, 3007-3021	16.2	24
187	Surface chemistry of quantum-sized metal nanoparticles under light illumination. <i>Chemical Science</i> , 2020 , 12, 1227-1239	9.4	6
186	Reduction of carbon dioxide on photoexcited nanoparticles of VIII group metals. <i>Nanoscale</i> , 2019 , 11, 16723-16732	7.7	21
185	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	3.2	

184	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	3.6	3
183	Selective Transfer Coupling of Nitrobenzene to Azoxybenzene on Rh Nanoparticle Catalyst Promoted by Photoexcited Hot Electrons. <i>ChemNanoMat</i> , 2019 , 5, 1000-1007	3.5	12
182	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	16.4	28
181	An extreme-condition model for quantifying growth kinetics of colloidal metal nanoparticles. <i>Nano Research</i> , 2019 , 12, 1339-1345	10	7
180	Three-electron reversible redox for a high-energy fluorophosphate cathode: NaVO(PO)F. <i>Chemical Communications</i> , 2019 , 55, 3979-3982	5.8	16
179	Silver Chlorobromide Nanocubes: A Class of Reactive Templates for Synthesizing Nanoplates and Nanocages of Silver Thiolates. <i>MRS Advances</i> , 2019 , 4, 2087-2094	0.7	3
178	Hollow-Structured Materials for Thermal Insulation. <i>Advanced Materials</i> , 2019 , 31, e1801001	24	93
177	One stone, two birds: silica nanospheres significantly increase photocatalytic activity and colloidal stability of photocatalysts. <i>Nano Futures</i> , 2018 , 2, 015003	3.6	8
176	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	7.8	7
175	Synthesis of PtAu Alloy Nanocrystals in Micelle Nanoreactors Enabled by Flash Heating and Cooling. <i>Particle and Particle Systems Characterization</i> , 2018 , 35, 1700413	3.1	7
174	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	10.7	62
173	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	3.9	14
172	Enabling selective aerobic oxidation of alcohols to aldehydes by hot electrons in quantum-sized Rh nanocubes. <i>Materials Today Energy</i> , 2018 , 10, 15-22	7	11
171	Quantum-Sized Metal Catalysts for Hot-Electron-Driven Chemical Transformation. <i>Advanced Materials</i> , 2018 , 30, e1802082	24	39
170	In Situ Techniques for Probing Kinetics and Mechanism of Hollowing Nanostructures through Direct Chemical Transformations. <i>Small Methods</i> , 2018 , 2, 1800165	12.8	9
169	Vertically aligned MoS ₂ on Ti ₃ C ₂ (MXene) as an improved HER catalyst. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16882-16889	13	89
168	Mesoporous SiO Nanoparticles: A Unique Platform Enabling Sensitive Detection of Rare Earth Ions with Smartphone Camera. <i>Nano-Micro Letters</i> , 2018 , 10, 55	19.5	7
167	Tessellating tiny tetrahedrons. <i>Science</i> , 2018 , 362, 1354-1355	33.3	2

166	Photocatalysis: Quantum-Sized Metal Catalysts for Hot-Electron-Driven Chemical Transformation (Adv. Mater. 48/2018). <i>Advanced Materials</i> , 2018 , 30, 1870366	24	
165	Structure and Magnetism Evolution from FeCo Nanoparticles to Hollow Nanostructure Conversion for Magnetic Applications. <i>ACS Applied Nano Materials</i> , 2018 , 1, 5837-5842	5.6	8
164	Geometric Symmetry of Dielectric Antenna Influencing Light Absorption in Quantum-Sized Metal Nanocrystals: A Comparative Study. <i>Frontiers in Chemistry</i> , 2018 , 6, 494	5	10
163	Progressive Design of Plasmonic Metal-Semiconductor Ensemble toward Regulated Charge Flow and Improved Vis-NIR-Driven Solar-to-Chemical Conversion. <i>Small</i> , 2017 , 13, 1602947	11	71
162	Enhanced optical absorption in semiconductor nanoparticles enabled by nearfield dielectric scattering. <i>Nano Research</i> , 2017 , 10, 1292-1301	10	11
161	Enabling Colloidal Synthesis of Edge-Oriented MoS with Expanded Interlayer Spacing for Enhanced HER Catalysis. <i>Nano Letters</i> , 2017 , 17, 1963-1969	11.5	173
160	Quantitative 3D evolution of colloidal nanoparticle oxidation in solution. <i>Science</i> , 2017 , 356, 303-307	33.3	100
159	Revealing mechanism responsible for structural reversibility of single-crystal VO ₂ nanorods upon lithiation/delithiation. <i>Nano Energy</i> , 2017 , 36, 197-205	17.1	40
158	Ternary silver chlorobromide nanocrystals: intrinsic influence of size and morphology on photocatalytic activity. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1534-1540	7.8	7
157	Interlayer-expanded MoS ₂ . <i>Materials Today</i> , 2017 , 20, 83-91	21.8	198
156	A low-cost photoelectrochemical tandem cell for highly-stable and efficient solar water splitting. <i>Nano Energy</i> , 2017 , 41, 225-232	17.1	42
155	Multichannel Charge Transfer and Mechanistic Insight in Metal Decorated 2D-2D Bi WO ₃ -TiO ₂ Cascade with Enhanced Photocatalytic Performance. <i>Small</i> , 2017 , 13, 1702253	11	88
154	Ternary Silver Halide Nanocrystals. <i>Accounts of Chemical Research</i> , 2017 , 50, 1754-1761	24.3	33
153	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	17.1	52
152	Significant enhancement of photocatalytic water splitting enabled by elimination of surface traps in Pt-tipped CdSe nanorods. <i>Nanoscale</i> , 2016 , 8, 18621-18625	7.7	14
151	Ultrathin Co(Ni)-doped MoS ₂ nanosheets as catalytic promoters enabling efficient solar hydrogen production. <i>Nano Research</i> , 2016 , 9, 2284-2293	10	66
150	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	3.6	3
149	Quantifying the Nucleation and Growth Kinetics of Microwave Nanochemistry Enabled by in Situ High-Energy X-ray Scattering. <i>Nano Letters</i> , 2016 , 16, 715-20	11.5	41

148	Ru Nanoframes with an fcc Structure and Enhanced Catalytic Properties. <i>Nano Letters</i> , 2016 , 16, 2812-7	11.5	148
147	Complete Au@ZnO core-shell nanoparticles with enhanced plasmonic absorption enabling significantly improved photocatalysis. <i>Nanoscale</i> , 2016 , 8, 10774-82	7.7	78
146	Visualizing Redox Dynamics of a Single Ag/AgCl Heterogeneous Nanocatalyst at Atomic Resolution. <i>ACS Nano</i> , 2016 , 10, 3738-46	16.7	49
145	Plasmonic silver incorporated silver halides for efficient photocatalysis. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4336-4352	13	97
144	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, 4952-6	16.4	57
143	Near-field dielectric scattering promotes optical absorption by platinum nanoparticles. <i>Nature Photonics</i> , 2016 , 10, 473-482	33.9	236
142	Quantitatively in Situ Imaging Silver Nanowire Hollowing Kinetics. <i>Nano Letters</i> , 2016 , 16, 6555-6559	11.5	21
141	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	7.1	8
140	Field-assisted self-assembly process: general discussion. <i>Faraday Discussions</i> , 2015 , 181, 463-79	3.6	1
139	Electron beam induced evolution in Au, Ag, and interfaced heterogeneous Au/Ag nanoparticles. <i>Nanoscale</i> , 2015 , 7, 13687-93	7.7	32
138	Edge-terminated molybdenum disulfide with a 9.4-Å interlayer spacing for electrochemical hydrogen production. <i>Nature Communications</i> , 2015 , 6, 7493	17.4	516
137	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	7.1	4
136	Mesoporous Colloidal Superparticles of Platinum-Group Nanocrystals with Surfactant-Free Surfaces and Enhanced Heterogeneous Catalysis. <i>Advanced Functional Materials</i> , 2015 , 25, 1638-1647	15.6	23
135	One-dimension-based spatially ordered architectures for solar energy conversion. <i>Chemical Society Reviews</i> , 2015 , 44, 5053-75	58.5	317
134	Deformation Twinning of a Silver Nanocrystal under High Pressure. <i>Nano Letters</i> , 2015 , 15, 7644-9	11.5	23
133	Highlights of the Faraday Discussion on Nanoparticle Synthesis and Assembly, Argonne, USA, April 2015. <i>Chemical Communications</i> , 2015 , 51, 13725-30	5.8	1
132	Waltzing with the Versatile Platform of Graphene to Synthesize Composite Photocatalysts. <i>Chemical Reviews</i> , 2015 , 115, 10307-77	68.1	903
131	Birnessite-type MnO ₂ nanosheets with layered structures under high pressure: elimination of crystalline stacking faults and oriented laminar assembly. <i>Small</i> , 2015 , 11, 300-5	11	36

130	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	8.1	7
129	Reversible Modulation of Surface Plasmons in Gold Nanoparticles Enabled by Surface Redox Chemistry. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 8948-51	16.4	16
128	Reversible Modulation of Surface Plasmons in Gold Nanoparticles Enabled by Surface Redox Chemistry. <i>Angewandte Chemie</i> , 2015 , 127, 9076-9079	3.6	14
127	Silver chlorobromide nanocubes with significantly improved uniformity: synthesis and assembly into photonic crystals. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 58-65	7.1	20
126	Interfaced heterogeneous nanodimers. <i>National Science Review</i> , 2015 , 2, 329-348	10.8	68
125	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	15.6	44
124	Silver nanowire/thermoplastic polyurethane elastomer nanocomposites: Thermal, mechanical, and dielectric properties. <i>Materials & Design</i> , 2014 , 56, 398-404		86
123	Promoting photocatalytic multiple-electron reduction in aerobic solutions using Au-tipped CdSe nanorod clusters. <i>Chemical Communications</i> , 2014 , 50, 1411-3	5.8	15
122	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, 365-70	7.7	19
121	Enhanced photocatalysis by hybrid hierarchical assembly of plasmonic nanocrystals with high surface areas. <i>Catalysis Today</i> , 2014 , 225, 177-184	5.3	8
120	Concaving AgI sub-microparticles for enhanced photocatalysis. <i>Nano Energy</i> , 2014 , 9, 204-211	17.1	39
119	Interfaced metal heterodimers in the quantum size regime. <i>Nano Letters</i> , 2013 , 13, 3958-64	11.5	45
118	Hollow AgI:Ag nanoframes as solar photocatalysts for hydrogen generation from water reduction. <i>ChemSusChem</i> , 2013 , 6, 1931-7	8.3	20
117	In Situ Synchrotron X-Ray Techniques for Real-Time Probing of Colloidal Nanoparticle Synthesis. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 399-419	3.1	58
116	Controlled synthesis of colloidal silver nanoparticles in organic solutions: empirical rules for nucleation engineering. <i>Chemical Society Reviews</i> , 2013 , 42, 2497-511	58.5	163
115	In situ visualization of self-assembly of charged gold nanoparticles. <i>Journal of the American Chemical Society</i> , 2013 , 135, 3764-7	16.4	164
114	Silver chlorobromide nanoparticles with highly pure phases: synthesis and characterization. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6786	13	14
113	A generic approach for the synthesis of dimer nanoclusters and asymmetric nanoassemblies. <i>Journal of the American Chemical Society</i> , 2013 , 135, 2213-21	16.4	46

112	Lithium ion conducting membranes for lithium-air batteries. <i>Nano Energy</i> , 2013 , 2, 801-816	17.1	91
111	Watching nanoparticle kinetics in liquid. <i>Materials Today</i> , 2012 , 15, 140-147	21.8	33
110	Morphological and crystalline evolution of nanostructured MnO ₂ and its application in lithium-air batteries. <i>ACS Nano</i> , 2012 , 6, 8067-77	16.7	239
109	Real-Time Probing of the Synthesis of Colloidal Silver Nanocubes with Time-Resolved High-Energy Synchrotron X-ray Diffraction. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 11842-11847	3.8	35
108	Thermal transformation of MnO ₂ nanoflowers studied by in-situ TEM. <i>Science China Chemistry</i> , 2012 , 55, 2346-2352	7.9	9
107	Stable Magnetic Hot Spots for Simultaneous Concentration and Ultrasensitive Surface-Enhanced Raman Scattering Detection of Solution Analytes. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 13329-13335 ^{3,8}	3.8	30
106	Graphene formed on SiC under various environments: comparison of Si-face and C-face. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 154001	3	41
105	Propagation lengths and group velocities of plasmons in chemically synthesized gold and silver nanowires. <i>ACS Nano</i> , 2012 , 6, 472-82	16.7	132
104	Ambient-stable tetragonal phase in silver nanostructures. <i>Nature Communications</i> , 2012 , 3, 971	17.4	106
103	Monitoring of galvanic replacement reaction between silver nanowires and HAuCl ₄ by in situ transmission X-ray microscopy. <i>Nano Letters</i> , 2011 , 11, 4386-92	11.5	80
102	Shaped gold and silver nanoparticles. <i>Frontiers of Materials Science</i> , 2011 , 5, 1-24	2.5	24
101	Multiple-step phase transformation in silver nanoplates under high pressure. <i>Small</i> , 2011 , 7, 606-11	11	31
100	Single-crystal silicon membranes with high lithium conductivity and application in lithium-air batteries. <i>Advanced Materials</i> , 2011 , 23, 4947-52	24	45
99	Plasmonic/Magnetic Bifunctional Nanoparticles. <i>Angewandte Chemie</i> , 2011 , 123, 3216-3221	3.6	1
98	Plasmonic/magnetic bifunctional nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3158-63	16.4	103
97	Growth of silver nanowires on GaAs wafers. <i>Nanoscale</i> , 2011 , 3, 2247-55	7.7	8
96	Ripening of bimodally distributed AgCl nanoparticles. <i>Journal of Materials Chemistry</i> , 2011 , 21, 11644		28
95	Surface chemistry: a non-negligible parameter in determining optical properties of small colloidal metal nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 11814-26	3.6	37

94	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, 14530-4	11.5	348
93	Imaging of complex density in silver nanocubes by coherent x-ray diffraction. <i>New Journal of Physics</i> , 2010 , 12, 035019	2.9	37
92	Synthesis of Silver Nanocubes in a Hydrophobic Binary Organic Solvent. <i>Chemistry of Materials</i> , 2010 , 22, 6272-6279	9.6	39
91	Nanophase evolution at semiconductor/electrolyte interface in situ probed by time-resolved high-energy synchrotron X-ray diffraction. <i>Nano Letters</i> , 2010 , 10, 3747-53	11.5	20
90	Synthesis of Ag Nanoplates on GaAs Wafers: Evidence for Growth Mechanism. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 857-863	3.8	9
89	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	3.8	89
88	Silver nanowires--unique templates for functional nanostructures. <i>Nanoscale</i> , 2010 , 2, 1626-42	7.7	193
87	Nanoscale, electrified liquid jets for high-resolution printing of charge. <i>Nano Letters</i> , 2010 , 10, 584-91	11.5	106
86	Metal Nanoplates on Semiconductor Substrates. <i>Advanced Functional Materials</i> , 2010 , 20, 3646-3657	15.6	39
85	Tailored synthesis of superparamagnetic gold nanoshells with tunable optical properties. <i>Advanced Materials</i> , 2010 , 22, 1905-9	24	123
84	Facile synthesis of sunlight-driven AgCl:Ag plasmonic nanophotocatalyst. <i>Advanced Materials</i> , 2010 , 22, 2570-4	24	518
83	Morphology of graphene on SiC(0001) surfaces. <i>Applied Physics Letters</i> , 2009 , 95, 073101	3.4	32
82	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	3.8	10
81	Synthesis of Out-of-Substrate Au/Ag Nanoplates with Enhanced Stability for Catalysis. <i>Angewandte Chemie</i> , 2009 , 121, 6956-6959	3.6	13
80	Synthesis of out-of-substrate Au-Ag nanoplates with enhanced stability for catalysis. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 6824-7	16.4	42
79	Temperature Dependence of Epitaxial Graphene Formation on SiC(0001). <i>Journal of Electronic Materials</i> , 2009 , 38, 718-724	1.9	35
78	Fluorescence studies of electrospun MEH-PPV/PEO nanofibers. <i>Synthetic Metals</i> , 2009 , 159, 1454-1459	3.6	29
77	Recombination rates for single colloidal quantum dots near a smooth metal film. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 5867-70	3.6	18

76	Gold nanocages: synthesis, properties, and applications. <i>Accounts of Chemical Research</i> , 2008 , 41, 1587-95	4.3	1191
75	Single-Walled Carbon Nanotubes Modified with Pd Nanoparticles: Unique Building Blocks for High-Performance, Flexible Hydrogen Sensors. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 1250-1259	3.8	78
74	Formation of oxides and their role in the growth of Ag nanoplates on GaAs substrates. <i>Langmuir</i> , 2008 , 24, 11928-34	4	24
73	Effects of visible and synchrotron x-ray radiation on the growth of silver nanoplates on n-GaAs wafers: A comparative study. <i>Applied Physics Letters</i> , 2008 , 92, 183109	3.4	9
72	Comparative Study on the Growth of Silver Nanoplates on GaAs Substrates by Electron Microscopy, Synchrotron X-ray Diffraction, and Optical Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 8928-8938	3.8	16
71	Facile tuning of superhydrophobic states with Ag nanoplates. <i>Nano Research</i> , 2008 , 1, 292-302	10	21
70	Semiconductor wires and ribbons for high-performance flexible electronics. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 5524-42	16.4	253
69	Halbleiterdröte und -bänder als flexible Bauelemente für die Hochleistungselektronik. <i>Angewandte Chemie</i> , 2008 , 120, 5606-5624	3.6	5
68	Post-buckling analysis for the precisely controlled buckling of thin film encapsulated by elastomeric substrates. <i>International Journal of Solids and Structures</i> , 2008 , 45, 2014-2023	3.1	55
67	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]. <i>International Journal of Solids and Structures</i> , 2008 , 45, 3858-3867	3.1	8
66	Metal Nanostructures 2008 , 2105-2115		
65	Semiconductor Nanowires 2008 , 3896-3900		
64	Structural forms of single crystal semiconductor nanoribbons for high-performance stretchable electronics. <i>Journal of Materials Chemistry</i> , 2007 , 17, 832		99
63	Direct Growth of Dense, Pristine Metal Nanoplates with Well-Controlled Dimensions on Semiconductor Substrates. <i>Chemistry of Materials</i> , 2007 , 19, 5845-5847	9.6	57
62	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, 15607-12	11.5	542
61	Electrodeposition of Pd nanoparticles on single-walled carbon nanotubes for flexible hydrogen sensors. <i>Applied Physics Letters</i> , 2007 , 90, 213107	3.4	147
60	A self-templated approach to TiO ₂ microcapsules. <i>Nano Letters</i> , 2007 , 7, 1832-6	11.5	130
59	Inorganic Semiconductors for Flexible Electronics. <i>Advanced Materials</i> , 2007 , 19, 1897-1916	24	695

58	High-Performance, Flexible Hydrogen Sensors That Use Carbon Nanotubes Decorated with Palladium Nanoparticles. <i>Advanced Materials</i> , 2007 , 19, 2818-2823	24	311
57	Surfactantless synthesis of silver nanoplates and their application in SERS. <i>Small</i> , 2007 , 3, 1964-75	11	141
56	Synthesis of silver nanostructures with controlled shapes and properties. <i>Accounts of Chemical Research</i> , 2007 , 40, 1067-76	24.3	961
55	Mechanics of precisely controlled thin film buckling on elastomeric substrate. <i>Applied Physics Letters</i> , 2007 , 90, 133119	3.4	101
54	Micro- and nanopatterning techniques for organic electronic and optoelectronic systems. <i>Chemical Reviews</i> , 2007 , 107, 1117-60	68.1	564
53	Nano- and Microstructured Semiconductor Materials for Macroelectronics 2007 , 375-400		1
52	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	24	315
51	Buckled and Wavy Ribbons of GaAs for High-Performance Electronics on Elastomeric Substrates. <i>Advanced Materials</i> , 2006 , 18, 2857-2862	24	127
50	Tubes, Ribbons and Wires for Flexible Electronics. <i>International Power Modulator Symposium and High-Voltage Workshop</i> , 2006 ,		1
49	Gigahertz operation in flexible transistors on plastic substrates. <i>Applied Physics Letters</i> , 2006 , 88, 183509	3.4	60
48	Heterogeneous three-dimensional electronics by use of printed semiconductor nanomaterials. <i>Science</i> , 2006 , 314, 1754-7	33.3	577
47	Printed arrays of aligned GaAs wires for flexible transistors, diodes, and circuits on plastic substrates. <i>Small</i> , 2006 , 2, 1330-4	11	67
46	Controlled buckling of semiconductor nanoribbons for stretchable electronics. <i>Nature Nanotechnology</i> , 2006 , 1, 201-7	28.7	719
45	Processing dependent behavior of soft imprint lithography on the 1-10-nm scale. <i>IEEE Nanotechnology Magazine</i> , 2006 , 5, 301-308	2.6	44
44	Shape-Controlled Synthesis of Silver and Gold Nanostructures. <i>MRS Bulletin</i> , 2005 , 30, 356-361	3.2	245
43	Polyol synthesis of silver nanostructures: control of product morphology with Fe(II) or Fe(III) species. <i>Langmuir</i> , 2005 , 21, 8077-80	4	320
42	Photolithographic Route to the Fabrication of Micro/Nanowires of III-V Semiconductors. <i>Advanced Functional Materials</i> , 2005 , 15, 30-40	15.6	98
41	Shape-controlled synthesis of metal nanostructures: the case of silver. <i>Chemistry - A European Journal</i> , 2005 , 11, 454-63	4.8	1261

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