

# Weiping Cai

## List of Publications by Year in descending order

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246  
papers

15,309  
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17405

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265  
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265  
docs citations

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times ranked

18004  
citing authors

#	ARTICLE	IF	CITATIONS
1	Blue Luminescence of ZnO Nanoparticles Based on Non-Equilibrium Processes: Defect Origins and Emission Controls. <i>Advanced Functional Materials</i> , 2010, 20, 561-572.	7.8	1,540
2	Nanomaterials via Laser Ablation/Irradiation in Liquid: A Review. <i>Advanced Functional Materials</i> , 2012, 22, 1333-1353.	7.8	775
3	ZnO Hierarchical Micro/Nanoarchitectures: Solvothermal Synthesis and Structurally Enhanced Photocatalytic Performance. <i>Advanced Functional Materials</i> , 2008, 18, 1047-1056.	7.8	580
4	Strong Electronic Interaction in Dual-Cation-Incorporated NiSe <sub>2</sub> Nanosheets with Lattice Distortion for Highly Efficient Overall Water Splitting. <i>Advanced Materials</i> , 2018, 30, e1802121.	11.1	361
5	Composition/Structural Evolution and Optical Properties of ZnO/Zn Nanoparticles by Laser Ablation in Liquid Media. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18260-18266.	1.2	353
6	Ag Nanoparticle Decorated Nanoporous ZnO Microrods and Their Enhanced Photocatalytic Activities. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 6030-6037.	4.0	292
7	Ordered Micro/Nanostructured Arrays Based on the Monolayer Colloidal Crystals. <i>Chemistry of Materials</i> , 2008, 20, 615-624.	3.2	240
8	From ZnO Nanorods to Nanoplates: Chemical Bath Deposition Growth and Surface-Related Emissions. <i>Journal of Physical Chemistry C</i> , 2008, 112, 680-685.	1.5	225
9	Mass production of micro/nanostructured porous ZnO plates and their strong structurally enhanced and selective adsorption performance for environmental remediation. <i>Journal of Materials Chemistry</i> , 2010, 20, 8582.	6.7	216
10	High-Yield Synthesis of Single-Crystalline Gold Nano-octahedra. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3264-3268.	7.2	209
11	Metal-organic framework derived nitrogen-doped porous carbon@graphene sandwich-like structured composites as bifunctional electrocatalysts for oxygen reduction and evolution reactions. <i>Carbon</i> , 2016, 106, 74-83.	5.4	206
12	Black Gold: Plasmonic Colloidosomes with Broadband Absorption Self-Assembled from Monodispersed Gold Nanospheres by Using a Reverse Emulsion System. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9596-9600.	7.2	189
13	Photoluminescence of indium oxide nanoparticles dispersed within pores of mesoporous silica. <i>Applied Physics Letters</i> , 1999, 75, 495-497.	1.5	186
14	Phase Diagram, Design of Monolayer Binary Colloidal Crystals, and Their Fabrication Based on Ethanol-Assisted Self-Assembly at the Air/Water Interface. <i>ACS Nano</i> , 2012, 6, 6706-6716.	7.3	186
15	Superhydrophobicity of 2D ZnO ordered pore arrays formed by solution-dipping template method. <i>Journal of Colloid and Interface Science</i> , 2005, 287, 634-639.	5.0	172
16	Physical processes-aided periodic micro/nanostructured arrays by colloidal template technique: fabrication and applications. <i>Chemical Society Reviews</i> , 2013, 42, 3614.	18.7	171
17	Silver Hierarchical Bowl-Like Array: Synthesis, Superhydrophobicity, and Optical Properties. <i>Langmuir</i> , 2007, 23, 9802-9807.	1.6	170
18	Sonochemical Processes and Formation of Gold Nanoparticles within Pores of Mesoporous Silica. <i>Journal of Colloid and Interface Science</i> , 2001, 238, 291-295.	5.0	166

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19	Controllable Pt/ZnO Porous Nanocages with Improved Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2008, 112, 19620-19624.	1.5	157
20	Fabrication of Gold Nanoparticles by Laser Ablation in Liquid and Their Application for Simultaneous Electrochemical Detection of Cd <sup>2+</sup> , Pb <sup>2+</sup> , Cu <sup>2+</sup> , Hg <sup>2+</sup> . <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 65-71.	4.0	155
21	Defect-Mediated Formation of Ag Cluster-Doped TiO <sub>2</sub> Nanoparticles for Efficient Photodegradation of Pentachlorophenol. <i>Langmuir</i> , 2012, 28, 3938-3944.	1.6	152
22	Two-dimensional hierarchical porous silica film and its tunable superhydrophobicity. <i>Nanotechnology</i> , 2006, 17, 238-243.	1.3	144
23	Microstructure Control of Zn/ZnO Core/Shell Nanoparticles and Their Temperature-Dependent Blue Emissions. <i>Journal of Physical Chemistry B</i> , 2007, 111, 14311-14317.	1.2	143
24	Physical Deposition Improved SERS Stability of Morphology Controlled Periodic Micro/Nanostructured Arrays Based on Colloidal Templates. <i>Small</i> , 2015, 11, 844-853.	5.2	138
25	Periodic Porous Alloyed Au-Ag Nanosphere Arrays and Their Highly Sensitive SERS Performance with Good Reproducibility and High Density of Hotspots. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 9792-9801.	4.0	138
26	Ultraviolet-light-emitting ZnO nanosheets prepared by a chemical bath deposition method. <i>Nanotechnology</i> , 2005, 16, 1734-1738.	1.3	124
27	Surface Nanometer-Scale Patterning in Realizing Large-Scale Ordered Arrays of Metallic Nanoshells with Well-Defined Structures and Controllable Properties. <i>Advanced Functional Materials</i> , 2010, 20, 2527-2533.	7.8	124
28	Flexible vanadium-doped Ni <sub>2</sub> P nanosheet arrays grown on carbon cloth for an efficient hydrogen evolution reaction. <i>Nanoscale</i> , 2019, 11, 4198-4203.	2.8	122
29	Fast-Response, Sensitive and Low-Powered Chemosensors by Fusing Nanostructured Porous Thin Film and IDEs-Microheater Chip. <i>Scientific Reports</i> , 2013, 3, 1669.	1.6	121
30	Rapid Synthesis of Monodisperse Au Nanospheres through a Laser Irradiation-Induced Shape Conversion, Self-Assembly and Their Electromagnetic Coupling SERS Enhancement. <i>Scientific Reports</i> , 2015, 5, 7686.	1.6	114
31	Electrochemically induced flowerlike gold nanoarchitectures and their strong surface-enhanced Raman scattering effect. <i>Applied Physics Letters</i> , 2006, 89, 211905.	1.5	112
32	Size and Structure Control of Si Nanoparticles by Laser Ablation in Different Liquid Media and Further Centrifugation Classification. <i>Journal of Physical Chemistry C</i> , 2009, 113, 19091-19095.	1.5	112
33	Cr-Dopant Induced Breaking of Scaling Relations in CoFe Layered Double Hydroxides for Improvement of Oxygen Evolution Reaction. <i>Small</i> , 2019, 15, e1902373.	5.2	111
34	Polyacrylonitrile/ferrous chloride composite porous nanofibers and their strong Cr-removal performance. <i>Journal of Materials Chemistry</i> , 2011, 21, 991-997.	6.7	108
35	S,N-Containing Co-MOF derived Co <sub>9</sub> S <sub>8</sub> @S,N-doped carbon materials as efficient oxygen electrocatalysts and supercapacitor electrode materials. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 491-498.	3.0	108
36	Fabrication and Size-Dependent Optical Properties of FeO Nanoparticles Induced by Laser Ablation in a Liquid Medium. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3261-3266.	1.5	105

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37	Composition modulation of optical absorption in Ag <sub>x</sub> Au <sub>1-x</sub> alloy nanocrystals in situ formed within pores of mesoporous silica. <i>Journal of Applied Physics</i> , 2000, 87, 1572-1574.	1.1	104
38	Room temperature synthesized rutile TiO <sub>2</sub> nanoparticles induced by laser ablation in liquid and their photocatalytic activity. <i>Nanotechnology</i> , 2009, 20, 285707.	1.3	103
39	Micro/nanostructured Fe <sub>2</sub> O <sub>3</sub> spheres: synthesis, characterization, and structurally enhanced visible-light photocatalytic activity. <i>Journal of Materials Chemistry</i> , 2012, 22, 9704.	6.7	103
40	Complete Au@ZnO core-shell nanoparticles with enhanced plasmonic absorption enabling significantly improved photocatalysis. <i>Nanoscale</i> , 2016, 8, 10774-10782.	2.8	94
41	Origin of Blue Emission from Silicon Nanoparticles: Direct Transition and Interface Recombination. <i>Journal of Physical Chemistry C</i> , 2011, 115, 21056-21062.	1.5	92
42	Room temperature H <sub>2</sub> S gas sensing properties of In <sub>2</sub> O <sub>3</sub> micro/nanostructured porous thin film and hydrolyzation-induced enhanced sensing mechanism. <i>Sensors and Actuators B: Chemical</i> , 2016, 228, 74-84.	4.0	90
43	Hierarchical surface rough ordered Au particle arrays and their surface enhanced Raman scattering. <i>Applied Physics Letters</i> , 2006, 89, 181918.	1.5	89
44	Luminescent hollow carbon shells and fullerene-like carbon spheres produced by laser ablation with toluene. <i>Journal of Materials Chemistry</i> , 2011, 21, 4432.	6.7	87
45	ZnO hollow microspheres with exposed porous nanosheets surface: Structurally enhanced adsorption towards heavy metal ions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 422, 199-205.	2.3	86
46	Micro/Nanostructured Ordered Porous Films and Their Structurally Induced Control of the Gas Sensing Performances. <i>Advanced Functional Materials</i> , 2010, 20, 3765-3773.	7.8	83
47	Surface Decoration of ZnO Nanorod Arrays by Electrophoresis in the Au Colloidal Solution Prepared by Laser Ablation in Water. <i>Langmuir</i> , 2010, 26, 8925-8932.	1.6	83
48	Optical measurements of oxidation behavior of silver nanometer particle within pores of silica host. <i>Journal of Applied Physics</i> , 1998, 83, 1705-1710.	1.1	81
49	Unconventional Method for Morphology-Controlled Carbonaceous Nanoarrays Based on Electron Irradiation of a Polystyrene Colloidal Monolayer. <i>ACS Nano</i> , 2008, 2, 1108-1112.	7.3	81
50	Ultra-fine SiC quantum dots fabricated by laser ablation in reactive liquid at room temperature and their violet emission. <i>Journal of Materials Chemistry</i> , 2009, 19, 7119.	6.7	79
51	Spherical Nanoparticle Arrays with Tunable Nanogaps and Their Hydrophobicity Enhanced Rapid SERS Detection by Localized Concentration of Droplet Evaporation. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500031.	1.9	78
52	Nanosheets-built flowerlike micro/nanostructured Bi <sub>2</sub> O <sub>3</sub> and its highly efficient iodine removal performances. <i>Chemical Engineering Journal</i> , 2016, 289, 219-230.	6.6	77
53	Hierarchical Structured Ni Nanoring and Hollow Sphere Arrays by Morphology Inheritance Based on Ordered Through-Pore Template and Electrodeposition. <i>Journal of Physical Chemistry B</i> , 2006, 110, 15729-15733.	1.2	75
54	Porous zeolite imidazole framework-wrapped urchin-like Au-Ag nanocrystals for SERS detection of trace hexachlorocyclohexane pesticides via efficient enrichment. <i>Journal of Hazardous Materials</i> , 2019, 368, 429-435.	6.5	72

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55	Tunable Surface Plasmon Resonance and Strong SERS Performances of Au Opening-Nanoshell Ordered Arrays. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 1-5.	4.0	71
56	Reshaping Formation and Luminescence Evolution of ZnO Quantum Dots by Laser-Induced Fragmentation in Liquid. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5038-5043.	1.5	70
57	Semiconducting optical properties of silver/silica mesoporous composite. <i>Applied Physics Letters</i> , 1998, 73, 2709-2711.	1.5	68
58	Optical studies of polyvinylpyrrolidone reduction effect on free and complex metal ions. <i>Journal of Materials Research</i> , 2005, 20, 320-324.	1.2	68
59	Growth of ZnO Nanoneedle Arrays with Strong Ultraviolet Emissions by an Electrochemical Deposition Method. <i>Crystal Growth and Design</i> , 2006, 6, 1091-1095.	1.4	68
60	Fabrication of cuprous oxide nanoparticles by laser ablation in PVP aqueous solution. <i>RSC Advances</i> , 2011, 1, 847.	1.7	66
61	Hetero-apertured Micro/Nanostructured Ordered Porous Array: Layer-by-Layered Construction and Structure-Induced Sensing Parameter Controllability. <i>ACS Nano</i> , 2009, 3, 2697-2705.	7.3	65
62	Fabrication and Characterization of Beaded SiC Quantum Rings with Anomalous Red Spectral Shift. <i>Advanced Materials</i> , 2012, 24, 5598-5603.	11.1	65
63	Transferable Ordered Ni Hollow Sphere Arrays Induced by Electrodeposition on Colloidal Monolayer. <i>Journal of Physical Chemistry B</i> , 2006, 110, 7184-7188.	1.2	64
64	CuO@ZnO Micro/Nanoporous Array Film-Based Chemosensors: New Sensing Properties to H <sub>2</sub> S. <i>Chemistry - A European Journal</i> , 2014, 20, 6040-6046.	1.7	64
65	Leaf-like Tungsten Oxide Nanoplatelets Induced by Laser Ablation in Liquid and Subsequent Aging. <i>Crystal Growth and Design</i> , 2012, 12, 2646-2652.	1.4	62
66	Monodispersed Nb <sub>2</sub> O <sub>5</sub> Microspheres: Facile Synthesis, Air/Water Interfacial Self-Assembly, Nb <sub>2</sub> O <sub>5</sub> -Based Composite Films, and Their Selective NO <sub>2</sub> Sensing. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500167.	1.9	62
67	Copper nanoparticle@graphene composite arrays and their enhanced catalytic performance. <i>Acta Materialia</i> , 2016, 105, 59-67.	3.8	62
68	Ordered n-type ZnO nanorod arrays. <i>Applied Physics Letters</i> , 2008, 92, 132112.	1.5	61
69	Hierarchical micro/nanostructured C doped Co/Co <sub>3</sub> O <sub>4</sub> hollow spheres derived from PS@Co(OH) <sub>2</sub> for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11163-11170.	5.2	61
70	Status and demand of research to bring laser generation of nanoparticles in liquids to maturity. <i>Applied Surface Science</i> , 2019, 488, 445-454.	3.1	61
71	Bilayer Au nanoparticle-decorated WO <sub>3</sub> porous thin films: On-chip fabrication and enhanced NO <sub>2</sub> gas sensing performances with high selectivity. <i>Sensors and Actuators B: Chemical</i> , 2019, 280, 192-200.	4.0	61
72	Ultrasonically Induced Au Nanoprisms and Their Size Manipulation Based on Aging. <i>Journal of Physical Chemistry B</i> , 2006, 110, 1546-1552.	1.2	58

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73	Vertically cross-linking silver nanoplate arrays with controllable density based on seed-assisted electrochemical growth and their structurally enhanced SERS activity. <i>Journal of Materials Chemistry</i> , 2010, 20, 767-772.	6.7	58
74	Cu-Doped CoP Nanorod Arrays: Efficient and Durable Hydrogen Evolution Reaction Electrocatalysts at All pH Values. <i>ACS Applied Energy Materials</i> , 2018, 1, 3835-3842.	2.5	58
75	Trace detection of cyanide based on SERS effect of Ag nanoplate-built hollow microsphere arrays. <i>Journal of Hazardous Materials</i> , 2013, 248-249, 435-441.	6.5	57
76	Aging-Induced Self-Assembly of Zn/ZnO Treelike Nanostructures from Nanoparticles and Enhanced Visible Emission. <i>Crystal Growth and Design</i> , 2007, 7, 1092-1097.	1.4	56
77	Fabrication of large-scale zinc oxide ordered pore arrays with controllable morphology. <i>Chemical Communications</i> , 2004, , 1604.	2.2	55
78	Micro/Nano Gas Sensors: A New Strategy Towards In-Situ Wafer-Level Fabrication of High-Performance Gas Sensing Chips. <i>Scientific Reports</i> , 2015, 5, 10507.	1.6	53
79	Micro/nano-scaled carbon spheres based on hydrothermal carbonization of agarose. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 484, 386-393.	2.3	53
80	Ultrafine nickel-cobalt alloy nanoparticles incorporated into three-dimensional porous graphitic carbon as an electrode material for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17080-17086.	5.2	53
81	Mn doped porous cobalt nitride nanowires with high activity for water oxidation under both alkaline and neutral conditions. <i>Chemical Communications</i> , 2017, 53, 13237-13240.	2.2	53
82	Template-induced synthesis of hierarchical SiO <sub>2</sub> @ <i>γ</i> -AlOOH spheres and their application in Cr(VI) removal. <i>Nanotechnology</i> , 2009, 20, 155604.	1.3	52
83	SERS-based ultrasensitive detection of organophosphorus nerve agents via substrate's surface modification. <i>Journal of Hazardous Materials</i> , 2017, 324, 194-202.	6.5	52
84	Au nanochain-built 3D netlike porous films based on laser ablation in water and electrophoretic deposition. <i>Chemical Communications</i> , 2010, 46, 7223.	2.2	51
85	Standing Ag nanoplate-built hollow microsphere arrays: Controllable structural parameters and strong SERS performances. <i>Journal of Materials Chemistry</i> , 2012, 22, 3177.	6.7	51
86	Raman reporter-assisted Au nanorod arrays SERS nanoprobe for ultrasensitive detection of mercuric ion (Hg <sup>2+</sup> ) with superior anti-interference performances. <i>Journal of Hazardous Materials</i> , 2020, 398, 122890.	6.5	51
87	Ni <sub>0.33</sub> Co <sub>0.67</sub> MoS <sub>4</sub> nanosheets as a bifunctional electrolytic water catalyst for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19555-19562.	5.2	50
88	Polycrystalline Si nanoparticles and their strong aging enhancement of blue photoluminescence. <i>Journal of Applied Physics</i> , 2008, 104, 023516.	1.1	49
89	In situ self-assembly synthesis and photocatalytic performance of hierarchical Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> micro/nanostructures. <i>Journal of Materials Chemistry</i> , 2009, 19, 2253.	6.7	49
90	Capillary Gradient-Induced Self-Assembly of Periodic Au Spherical Nanoparticle Arrays on an Ultralarge Scale via a Bisolvent System at Air/Water Interface. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600976.	1.9	48

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91	Ultrasensitive and Stable Au Dimer-Based Colorimetric Sensors Using the Dynamically Tunable Gap-Dependent Plasmonic Coupling Optical Properties. <i>Advanced Functional Materials</i> , 2018, 28, 1707392.	7.8	48
92	General Synthesis of 2D Ordered Hollow Sphere Arrays Based on Nonshadow Deposition Dominated Colloidal Lithography. <i>Langmuir</i> , 2010, 26, 6295-6302.	1.6	46
93	Layer-controlled synthesis of WO <sub>3</sub> ordered nanoporous films for optimum electrochromic application. <i>Nanoscale</i> , 2013, 5, 2460.	2.8	46
94	Title is missing!. <i>Journal of Nanoparticle Research</i> , 2001, 3, 441-451.	0.8	45
95	Micro/nanostructured porous Fe-Ni binary oxide and its enhanced arsenic adsorption performances. <i>Journal of Colloid and Interface Science</i> , 2015, 458, 94-102.	5.0	45
96	A functional hydrogel film attached with a 2D Au nanosphere array and its ultrahigh optical diffraction intensity as a visualized sensor. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2117-2122.	2.7	45
97	Structure and thickness-dependent gas sensing responses to NO <sub>2</sub> under UV irradiation for the multilayered ZnO micro/nanostructured porous thin films. <i>Journal of Colloid and Interface Science</i> , 2017, 503, 150-158.	5.0	45
98	Controlled synthesis of sponge-like porous Au-Ag alloy nanocubes for surface-enhanced Raman scattering properties. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11039-11045.	2.7	45
99	From Nanoparticles to Nanoplates: Preferential Oriented Connection of Ag Colloids during Electrophoretic Deposition. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7692-7696.	1.5	44
100	Functionalized periodic Au@MOFs nanoparticle arrays as biosensors for dual-channel detection through the complementary effect of SPR and diffraction peaks. <i>Nano Research</i> , 2017, 10, 2257-2270.	5.8	44
101	Annealing of mesoporous silica loaded with silver nanoparticles within its pores from isothermal sorption. <i>Journal of Materials Research</i> , 1998, 13, 2888-2895.	1.2	43
102	Morphology-controlled 2D ordered arrays by heating-induced deformation of 2D colloidal monolayer. <i>Journal of Materials Chemistry</i> , 2006, 16, 609-612.	6.7	43
103	Metal ion-doped SnO <sub>2</sub> ordered porous films and their strong gas sensing selectivity. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	41
104	Preparation and optical absorption of gold nanoparticles within pores of mesoporous silica. <i>Materials Research Bulletin</i> , 2000, 35, 1689-1695.	2.7	40
105	One-step fabrication of high performance micro/nanostructured Fe <sub>3</sub> S <sub>4</sub> -C magnetic adsorbent with easy recovery and regeneration properties. <i>CrystEngComm</i> , 2013, 15, 2956.	1.3	40
106	Optical sensor based on hydrogel films with 2D colloidal arrays attached on both the surfaces: anti-curling performance and enhanced optical diffraction intensity. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3659-3665.	2.7	40
107	Bifunctional Hybrid Ni/Ni <sub>2</sub> P Nanoparticles Encapsulated by Graphitic Carbon Supported with N, S Modified 3D Carbon Framework for Highly Efficient Overall Water Splitting. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800473.	1.9	40
108	Optical Study of Redox Behavior of Silicon Nanoparticles Induced by Laser Ablation in Liquid. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6480-6484.	1.5	39

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109	General and Simple Route to Micro/Nanostructured Hollow-Sphere Arrays Based on Electrophoresis of Colloids Induced by Laser Ablation in Liquid. <i>Langmuir</i> , 2009, 25, 8287-8291.	1.6	39
110	Rutile TiO <sub>2</sub> films with 100% exposed pyramid-shaped (111) surface: photoelectron transport properties under UV and visible light irradiation. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2646.	5.2	39
111	Dramatic excitation dependence of strong and stable blue luminescence of ZnO hollow nanoparticles. <i>Applied Physics Letters</i> , 2009, 95, 191904.	1.5	38
112	Self-curved coral-like $\text{Al}_2\text{O}_3$ nanoplates for use as an adsorbent. <i>Journal of Colloid and Interface Science</i> , 2015, 453, 244-251.	5.0	38
113	Convective Self-Assembly of 2D Nonclose-Packed Binary Au Nanoparticle Arrays with Tunable Optical Properties. <i>Chemistry of Materials</i> , 2021, 33, 310-319.	3.2	38
114	Reversible transition between transparency and opacity for the porous silica host dispersed with silver nanometer particles within its pores. <i>Applied Physics Letters</i> , 1996, 69, 2980-2982.	1.5	37
115	Optical absorption of ZnS nanocrystals inside pores of silica. <i>Applied Physics Letters</i> , 1997, 71, 3697-3699.	1.5	37
116	Trapeziform Ag Nanosheet Arrays Induced by Electrochemical Deposition on Au-Coated Substrate. <i>Crystal Growth and Design</i> , 2008, 8, 2748-2752.	1.4	37
117	Au@NP Decorated Crystalline FeOCl Nanosheet: Facile Synthesis by Laser Ablation in Liquid and its Exclusive Gas Sensing Response to HCl at Room Temperature. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500801.	1.9	37
118	Highly efficient removal of hexavalent chromium in aqueous solutions via chemical reduction of plate-like micro/nanostructured zero valent iron. <i>RSC Advances</i> , 2017, 7, 55905-55911.	1.7	37
119	Fabrication of silver nanoplate hierarchical turreted ordered array and its application in trace analyses. <i>Chemical Communications</i> , 2015, 51, 6609-6612.	2.2	36
120	Three-dimensional hierarchically structured PAN@AlOOH fiber films based on a fiber templated hydrothermal route and their recyclable strong Cr(vi)-removal performance. <i>RSC Advances</i> , 2012, 2, 1769.	1.7	35
121	An Invisible Template Method toward Gold Regular Arrays of Nanoflowers by Electrodeposition. <i>Langmuir</i> , 2013, 29, 3512-3517.	1.6	35
122	Air-Liquid Interfacial Self-Assembly of Two-Dimensional Periodic Nanostructured Arrays. <i>ChemNanoMat</i> , 2019, 5, 1338-1360.	1.5	34
123	Controllable superhydrophobic and lipophobic properties of ordered pore indium oxide array films. <i>Journal of Colloid and Interface Science</i> , 2007, 314, 615-620.	5.0	33
124	Wet Etching-Assisted Colloidal Lithography: A General Strategy toward Nanodisk and Nanohole Arrays on Arbitrary Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 9207-9213.	4.0	32
125	Laser-irradiation induced synthesis of spongy AuAgPt alloy nanospheres with high-index facets, rich grain boundaries and subtle lattice distortion for enhanced electrocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13735-13742.	5.2	32
126	Orientable pore-size-distribution of ZnO nanostructures and their superior photocatalytic activity. <i>CrystEngComm</i> , 2010, 12, 2821.	1.3	31



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127	Organization of Mn <sub>3</sub> O <sub>4</sub> nanoparticles into $\hat{I}^3$ -MnOOH nanowires via hydrothermal treatment of the colloids induced by laser ablation in water. <i>CrystEngComm</i> , 2011, 13, 1063-1066.	1.3	31
128	Crack-free Periodic Porous Thin Films Assisted by Plasma Irradiation at Low Temperature and Their Enhanced Gas Sensing Performance. <i>Chemistry - A European Journal</i> , 2013, 19, 13387-13395.	1.7	31
129	Janus gas: reversible redox transition of Sarin enables its selective detection by an ethanol modified nanoporous SnO <sub>2</sub> chemiresistor. <i>Chemical Communications</i> , 2015, 51, 8193-8196.	2.2	31
130	Reduction effect of pore wall and formation of Au nanowires inside monolithic mesoporous silica. <i>Chemical Physics Letters</i> , 2003, 382, 318-324.	1.2	30
131	Gold quasi rod-shaped nanoparticle-built hierarchically micro/nanostructured pore array via clean electrodeposition on a colloidal monolayer and its structurally enhanced SERS performance. <i>Journal of Materials Chemistry</i> , 2011, 21, 8816.	6.7	30
132	A General Strategy for Fabricating Unique Carbide Nanostructures with Excitation Wavelength-Dependent Light Emissions. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7279-7284.	1.5	30
133	Enhanced degradation performances of plate-like micro/nanostructured zero valent iron to DDT. <i>Journal of Hazardous Materials</i> , 2016, 307, 145-153.	6.5	30
134	Controllable optical properties of Au/SiO <sub>2</sub> nanocomposite induced by ultrasonic irradiation and thermal annealing. <i>Applied Physics Letters</i> , 2003, 83, 36-38.	1.5	29
135	Two-dimensional flower-shaped Au@Ag nanoparticle arrays as effective SERS substrates with high sensitivity and reproducibility for detection of thiram. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3838-3845.	2.7	29
136	One-Pot Synthesis of Ultrasoft, Precisely Shaped Gold Nanospheres via Surface Self-Polishing Etching and Regrowth. <i>Chemistry of Materials</i> , 2021, 33, 2593-2603.	3.2	29
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