Weiping Cai

List of Publications by Year
in descending order

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246	15,309	17440	21540
papers	citations	63 h-index	114 g-index

265	265	265	18004
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Blue Luminescence of ZnO Nanoparticles Based on Nonâ€Equilibrium Processes: Defect Origins and Emission Controls. Advanced Functional Materials, 2010, 20, 561-572.	14.9	1,540
2	Nanomaterials via Laser Ablation/Irradiation in Liquid: A Review. Advanced Functional Materials, 2012, 22, 1333-1353.	14.9	775
3	ZnO Hierarchical Micro/Nanoarchitectures: Solvothermal Synthesis and Structurally Enhanced Photocatalytic Performance. Advanced Functional Materials, 2008, 18, 1047-1056.	14.9	580
4	Strong Electronic Interaction in Dualâ€Cationâ€Incorporated NiSe₂ Nanosheets with Lattice Distortion for Highly Efficient Overall Water Splitting. Advanced Materials, 2018, 30, e1802121.	21.0	361
5	Composition/Structural Evolution and Optical Properties of ZnO/Zn Nanoparticles by Laser Ablation in Liquid Media. Journal of Physical Chemistry B, 2005, 109, 18260-18266.	2.6	353
6	Ag Nanoparticle Decorated Nanoporous ZnO Microrods and Their Enhanced Photocatalytic Activities. ACS Applied Materials & Interfaces, 2012, 4, 6030-6037.	8.0	292
7	Ordered Micro/Nanostructured Arrays Based on the Monolayer Colloidal Crystals. Chemistry of Materials, 2008, 20, 615-624.	6.7	240
8	From ZnO Nanorods to Nanoplates:â€‰ Chemical Bath Deposition Growth and Surface-Related Emissions. Journal of Physical Chemistry C, 2008, 112, 680-685.	3.1	225
9	Mass production of micro/nanostructured porous ZnO plates and their strong structurally enhanced and selective adsorption performance for environmental remediation. Journal of Materials Chemistry, 2010, 20, 8582.	6.7	216
10	High-Yield Synthesis of Single-Crystalline Gold Nano-octahedra. Angewandte Chemie - International Edition, 2007, 46, 3264-3268.	13.8	209
11	Metal-organic framework derived nitrogen-doped porous carbon@graphene sandwich-like structured composites as bifunctional electrocatalysts for oxygen reduction and evolution reactions. Carbon, 2016, 106, 74-83.	10.3	206
12	Black Gold: Plasmonic Colloidosomes with Broadband Absorption Selfâ€Assembled from Monodispersed Gold Nanospheres by Using a Reverse Emulsion System. Angewandte Chemie - International Edition, 2015, 54, 9596-9600.	13.8	189
13	Photoluminescence of indiumâ€“oxide nanoparticles dispersed within pores of mesoporous silica. Applied Physics Letters, 1999, 75, 495-497.	3.3	186
14	Phase Diagram, Design of Monolayer Binary Colloidal Crystals, and Their Fabrication Based on Ethanol-Assisted Self-Assembly at the Air/Water Interface. ACS Nano, 2012, 6, 6706-6716.	14.6	186
15	Superhydrophobicity of 2D ZnO ordered pore arrays formed by solution-dipping template method. Journal of Colloid and Interface Science, 2005, 287, 634-639.	9.4	172
16	Physical processes-aided periodic micro/nanostructured arrays by colloidal template technique: fabrication and applications. Chemical Society Reviews, 2013, 42, 3614.	38.1	171
17	Silver Hierarchical Bowl-Like Array:â€‰ Synthesis, Superhydrophobicity, and Optical Properties. Langmuir, 2007, 23, 9802-9807.	3.5	170
18	Sonochemical Processes and Formation of Gold Nanoparticles within Pores of Mesoporous Silica. Journal of Colloid and Interface Science, 2001, 238, 291-295.	9.4	166

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19	Controllable Pt/ZnO Porous Nanocages with Improved Photocatalytic Activity. Journal of Physical Chemistry C, 2008, 112, 19620-19624.	3.1	157
20	Fabrication of Gold Nanoparticles by Laser Ablation in Liquid and Their Application for Simultaneous Electrochemical Detection of Cd²⁺, Pb²⁺, Cu²⁺, Hg²⁺. ACS Applied Materials & Interfaces, 2014, 6, 65-71.	8.0	155
21	Defect-Mediated Formation of Ag Cluster-Doped TiO₂ Nanoparticles for Efficient Photodegradation of Pentachlorophenol. Langmuir, 2012, 28, 3938-3944.	3.5	152
22	Two-dimensional hierarchical porous silica film and its tunable superhydrophobicity. Nanotechnology, 2006, 17, 238-243.	2.6	144
23	Microstructure Control of Zn/ZnO Core/Shell Nanoparticles and Their Temperature-Dependent Blue Emissions. Journal of Physical Chemistry B, 2007, 111, 14311-14317.	2.6	143
24	Physical Deposition Improved SERS Stability of Morphology Controlled Periodic Micro/Nanostructured Arrays Based on Colloidal Templates. Small, 2015, 11, 844-853.	10.0	138
25	Periodic Porous Alloyed Auâ€“Ag Nanosphere Arrays and Their Highly Sensitive SERS Performance with Good Reproducibility and High Density of Hotspots. ACS Applied Materials & Interfaces, 2018, 10, 9792-9801.	8.0	138
26	Ultraviolet-light-emitting ZnO nanosheets prepared by a chemical bath deposition method. Nanotechnology, 2005, 16, 1734-1738.	2.6	124
27	Surface Nanometerâ€Scale Patterning in Realizing Largeâ€Scale Ordered Arrays of Metallic Nanoshells with Wellâ€Defined Structures and Controllable Properties. Advanced Functional Materials, 2010, 20, 2527-2533.	14.9	124
28	Flexible vanadium-doped Ni₂P nanosheet arrays grown on carbon cloth for an efficient hydrogen evolution reaction. Nanoscale, 2019, 11, 4198-4203.	5.6	122
29	Fast-Response, Sensitivitive and Low-Powered Chemosensors by Fusing Nanostructured Porous Thin Film and IDEs-Microheater Chip. Scientific Reports, 2013, 3, 1669.	3.3	121
30	Rapid Synthesis of Monodisperse Au Nanospheres through a Laser Irradiation -Induced Shape Conversion, Self-Assembly and Their Electromagnetic Coupling SERS Enhancement. Scientific Reports, 2015, 5, 7686.	3.3	114
31	Electrochemically induced flowerlike gold nanoarchitectures and their strong surface-enhanced Raman scattering effect. Applied Physics Letters, 2006, 89, 211905.	3.3	112
32	Size and Structure Control of Si Nanoparticles by Laser Ablation in Different Liquid Media and Further Centrifugation Classification. Journal of Physical Chemistry C, 2009, 113, 19091-19095.	3.1	112
33	Crâ€Dopant Induced Breaking of Scaling Relations in CoFe Layered Double Hydroxides for Improvement of Oxygen Evolution Reaction. Small, 2019, 15, e1902373.	10.0	111
34	Polyacrylonitrile/ferrous chloride composite porous nanofibers and their strong Cr-removal performance. Journal of Materials Chemistry, 2011, 21, 991-997.	6.7	108
35	S,N-Containing Co-MOF derived Co₉S₈@S,N-doped carbon materials as efficient oxygen electrocatalysts and supercapacitor electrode materials. Inorganic Chemistry Frontiers, 2017, 4, 491-498.	6.0	108
36	Fabrication and Size-Dependent Optical Properties of FeO Nanoparticles Induced by Laser Ablation in a Liquid Medium. Journal of Physical Chemistry C, 2008, 112, 3261-3266.	3.1	105

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37	Composition modulation of optical absorption in AgxAu1â^'x alloy nanocrystals in situ formed within pores of mesoporous silica. Journal of Applied Physics, 2000, 87, 1572-1574.	2.5	104
38	Room temperature synthesized rutile TiO₂nanoparticles induced by laser ablation in liquid and their photocatalytic activity. Nanotechnology, 2009, 20, 285707.	2.6	103
39	Micro/nanostructured Î±-Fe2O3 spheres: synthesis, characterization, and structurally enhanced visible-light photocatalytic activity. Journal of Materials Chemistry, 2012, 22, 9704.	6.7	103
40	Complete Au@ZnO coreâ€“shell nanoparticles with enhanced plasmonic absorption enabling significantly improved photocatalysis. Nanoscale, 2016, 8, 10774-10782.	5.6	94
41	Origin of Blue Emission from Silicon Nanoparticles: Direct Transition and Interface Recombination. Journal of Physical Chemistry C, 2011, 115, 21056-21062.	3.1	92
42	Room temperature H2S gas sensing properties of In2O3 micro/nanostructured porous thin film and hydrolyzation-induced enhanced sensing mechanism. Sensors and Actuators B: Chemical, 2016, 228, 74-84.	7.8	90
43	Hierarchical surface rough ordered Au particle arrays and their surface enhanced Raman scattering. Applied Physics Letters, 2006, 89, 181918.	3.3	89
44	Luminescent hollow carbon shells and fullerene-like carbon spheres produced by laser ablation with toluene. Journal of Materials Chemistry, 2011, 21, 4432.	6.7	87
45	ZnO hollow microspheres with exposed porous nanosheets surface: Structurally enhanced adsorption towards heavy metal ions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 422, 199-205.	4.7	86
46	Micro/Nanostructured Ordered Porous Films and Their Structurally Induced Control of the Gas Sensing Performances. Advanced Functional Materials, 2010, 20, 3765-3773.	14.9	83
47	Surface Decoration of ZnO Nanorod Arrays by Electrophoresis in the Au Colloidal Solution Prepared by Laser Ablation in Water. Langmuir, 2010, 26, 8925-8932.	3.5	83
48	Optical measurements of oxidation behavior of silver nanometer particle within pores of silica host. Journal of Applied Physics, 1998, 83, 1705-1710.	2.5	81
49	Unconventional Method for Morphology-Controlled Carbonaceous Nanoarrays Based on Electron Irradiation of a Polystyrene Colloidal Monolayer. ACS Nano, 2008, 2, 1108-1112.	14.6	81
50	Ultra-fine Î²-SiC quantum dots fabricated by laser ablation in reactive liquid at room temperature and their violet emission. Journal of Materials Chemistry, 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. Advanced Materials Interfaces, 2015, 2, 1500031.	3.7	78
52	Nanosheets-built flowerlike micro/nanostructured Bi 2 O 2.33 and its highly efficient iodine removal performances. Chemical Engineering Journal, 2016, 289, 219-230.	12.7	77
53	Hierarchical Structured Ni Nanoring and Hollow Sphere Arrays by Morphology Inheritance Based on Ordered Through-Pore Template and Electrodeposition. Journal of Physical Chemistry B, 2006, 110, 15729-15733.	2.6	75
54	Porous zeolite imidazole framework-wrapped urchin-like Au-Ag nanocrystals for SERS detection of trace hexachlorocyclohexane pesticides via efficient enrichment. Journal of Hazardous Materials, 2019, 368, 429-435.	12.4	72

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55	Tunable Surface Plasmon Resonance and Strong SERS Performances of Au Opening-Nanoshell Ordered Arrays. ACS Applied Materials & Interfaces, 2012, 4, 1-5.	8.0	71
56	Reshaping Formation and Luminescence Evolution of ZnO Quantum Dots by Laser-Induced Fragmentation in Liquid. Journal of Physical Chemistry C, 2011, 115, 5038-5043.	3.1	70
57	Semiconducting optical properties of silver/silica mesoporous composite. Applied Physics Letters, 1998, 73, 2709-2711.	3.3	68
58	Optical studies of polyvinylpyrrolidone reduction effect on free and complex metal ions. Journal of Materials Research, 2005, 20, 320-324.	2.6	68
59	Growth of ZnO Nanoneedle Arrays with Strong Ultraviolet Emissions by an Electrochemical Deposition Method. Crystal Growth and Design, 2006, 6, 1091-1095.	3.0	68
60	Fabrication of cuprous oxide nanoparticles by laser ablation in PVP aqueous solution. RSC Advances, 2011, 1, 847.	3.6	66
61	Hetero-apertured Micro/Nanostructured Ordered Porous Array: Layer-by-Layered Construction and Structure-Induced Sensing Parameter Controllability. ACS Nano, 2009, 3, 2697-2705.	14.6	65
62	Fabrication and Characterization of Beaded SiC Quantum Rings with Anomalous Red Spectral Shift. Advanced Materials, 2012, 24, 5598-5603.	21.0	65
63	Transferable Ordered Ni Hollow Sphere Arrays Induced by Electrodeposition on Colloidal Monolayer. Journal of Physical Chemistry B, 2006, 110, 7184-7188.	2.6	64
64	CuOâ€“ZnO Micro/Nanoporous Arrayâ€Filmâ€Based Chemosensors: New Sensing Properties to H₂S. Chemistry - A European Journal, 2014, 20, 6040-6046.	3.3	64
65	Leaf-like Tungsten Oxide Nanoplatelets Induced by Laser Ablation in Liquid and Subsequent Aging. Crystal Growth and Design, 2012, 12, 2646-2652.	3.0	62
66	Monodispersed Nb₂O₅ Microspheres: Facile Synthesis, Air/Water Interfacial Selfâ€Assembly, Nb₂O₅â€Based Composite Films, and Their Selective NO₂ Sensing. Advanced Materials Interfaces, 2015, 2, 1500167.	3.7	62
67	Copper nanoparticle@graphene composite arrays and their enhanced catalytic performance. Acta Materialia, 2016, 105, 59-67.	7.9	62
68	Ordered n-type ZnO nanorod arrays. Applied Physics Letters, 2008, 92, 132112.	3.3	61
69	Hierarchical micro/nanostructured C doped Co/Co₃O₄ hollow spheres derived from PS@Co(OH)₂ for the oxygen evolution reaction. Journal of Materials Chemistry A, 2017, 5, 11163-11170.	10.3	61
70	Status and demand of research to bring laser generation of nanoparticles in liquids to maturity. Applied Surface Science, 2019, 488, 445-454.	6.1	61
71	Bilayer Au nanoparticle-decorated WO3 porous thin films: On-chip fabrication and enhanced NO2 gas sensing performances with high selectivity. Sensors and Actuators B: Chemical, 2019, 280, 192-200.	7.8	61
72	Ultrasonically Induced Au Nanoprisms and Their Size Manipulation Based on Aging. Journal of Physical Chemistry B, 2006, 110, 1546-1552.	2.6	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. Journal of Materials Chemistry, 2010, 20, 767-772.	6.7	58
74	Cu-Doped CoP Nanorod Arrays: Efficient and Durable Hydrogen Evolution Reaction Electrocatalysts at All pH Values. ACS Applied Energy Materials, 2018, 1, 3835-3842.	5.1	58
75	Trace detection of cyanide based on SERS effect of Ag nanoplate-built hollow microsphere arrays. Journal of Hazardous Materials, 2013, 248-249, 435-441.	12.4	57
76	Aging-Induced Self-Assembly of Zn/ZnO Treelike Nanostructures from Nanoparticles and Enhanced Visible Emission. Crystal Growth and Design, 2007, 7, 1092-1097.	3.0	56
77	Fabrication of large-scale zinc oxide ordered pore arrays with controllable morphology. Chemical Communications, 2004, , 1604.	4.1	55
78	Micro/Nano Gas Sensors: A New Strategy Towards In-Situ Wafer-Level Fabrication of High-Performance Gas Sensing Chips. Scientific Reports, 2015, 5, 10507.	3.3	53
79	Micro/nano-scaled carbon spheres based on hydrothermal carbonization of agarose. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 484, 386-393.	4.7	53
80	Ultrafine nickelâ€“cobalt alloy nanoparticles incorporated into three-dimensional porous graphitic carbon as an electrode material for supercapacitors. Journal of Materials Chemistry A, 2016, 4, 17080-17086.	10.3	53
81	Mn doped porous cobalt nitride nanowires with high activity for water oxidation under both alkaline and neutral conditions. Chemical Communications, 2017, 53, 13237-13240.	4.1	53
82	Template-induced synthesis of hierarchical SiO₂@Î³-AlOOH spheres and their application in Cr(VI) removal. Nanotechnology, 2009, 20, 155604.	2.6	52
83	SERS-based ultrasensitive detection of organophosphorus nerve agents via substrateâ€™s surface modification. Journal of Hazardous Materials, 2017, 324, 194-202.	12.4	52
84	Au nanochain-built 3D netlike porous films based on laser ablation in water and electrophoretic deposition. Chemical Communications, 2010, 46, 7223.	4.1	51
85	Standing Ag nanoplate-built hollow microsphere arrays: Controllable structural parameters and strong SERS performances. Journal of Materials Chemistry, 2012, 22, 3177.	6.7	51
86	Raman reporter-assisted Au nanorod arrays SERS nanoprobe for ultrasensitive detection of mercuric ion (Hg2+) with superior anti-interference performances. Journal of Hazardous Materials, 2020, 398, 122890.	12.4	51
87	Ni_{0.33}Co_{0.67}MoS₄ nanosheets as a bifunctional electrolytic water catalyst for overall water splitting. Journal of Materials Chemistry A, 2018, 6, 19555-19562.	10.3	50
88	Polycrystalline Si nanoparticles and their strong aging enhancement of blue photoluminescence. Journal of Applied Physics, 2008, 104, 023516.	2.5	49
89	In situ self-assembly synthesis and photocatalytic performance of hierarchical Bi0.5Na0.5TiO3 micro/nanostructures. Journal of Materials Chemistry, 2009, 19, 2253.	6.7	49
90	Capillary Gradientâ€Induced Selfâ€Assembly of Periodic Au Spherical Nanoparticle Arrays on an Ultralarge Scale via a Bisolvent System at Air/Water Interface. Advanced Materials Interfaces, 2017, 4, 1600976.	3.7	48

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91	Ultrasensitive and Stable Au Dimerâ€Based Colorimetric Sensors Using the Dynamically Tunable Gapâ€Dependent Plasmonic Coupling Optical Properties. Advanced Functional Materials, 2018, 28, 1707392.	14.9	48
92	General Synthesis of 2D Ordered Hollow Sphere Arrays Based on Nonshadow Deposition Dominated Colloidal Lithography. Langmuir, 2010, 26, 6295-6302.	3.5	46
93	Layer-controlled synthesis of WO3 ordered nanoporous films for optimum electrochromic application. Nanoscale, 2013, 5, 2460.	5.6	46
94	Title is missing!. Journal of Nanoparticle Research, 2001, 3, 441-451.	1.9	45
95	Micro/nanostructured porous Feâ€“Ni binary oxide and its enhanced arsenic adsorption performances. Journal of Colloid and Interface Science, 2015, 458, 94-102.	9.4	45
96	A functional hydrogel film attached with a 2D Au nanosphere array and its ultrahigh optical diffraction intensity as a visualized sensor. Journal of Materials Chemistry C, 2016, 4, 2117-2122.	5.5	45
97	Structure and thickness-dependent gas sensing responses to NO 2 under UV irradiation for the multilayered ZnO micro/nanostructured porous thin films. Journal of Colloid and Interface Science, 2017, 503, 150-158.	9.4	45
98	Controlled synthesis of sponge-like porous Auâ€“Ag alloy nanocubes for surface-enhanced Raman scattering properties. Journal of Materials Chemistry C, 2017, 5, 11039-11045.	5.5	45
99	From Nanoparticles to Nanoplates: Preferential Oriented Connection of Ag Colloids during Electrophoretic Deposition. Journal of Physical Chemistry C, 2009, 113, 7692-7696.	3.1	44
100	Functionalized periodic Au@MOFs nanoparticle arrays as biosensors for dual-channel detection through the complementary effect of SPR and diffraction peaks. Nano Research, 2017, 10, 2257-2270.	10.4	44
101	Annealing of mesoporous silica loaded with silver nanoparticles within its pores from isothermal sorption. Journal of Materials Research, 1998, 13, 2888-2895.	2.6	43
102	Morphology-controlled 2D ordered arrays by heating-induced deformation of 2D colloidal monolayer. Journal of Materials Chemistry, 2006, 16, 609-612.	6.7	43
103	Metal ion-doped SnO2 ordered porous films and their strong gas sensing selectivity. Applied Physics Letters, 2010, 96, .	3.3	41
104	Preparation and optical absorption of gold nanoparticles within pores of mesoporous silica. Materials Research Bulletin, 2000, 35, 1689-1695.	5.2	40
105	One-step fabrication of high performance micro/nanostructured Fe3S4â€“C magnetic adsorbent with easy recovery and regeneration properties. CrystEngComm, 2013, 15, 2956.	2.6	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. Journal of Materials Chemistry C, 2015, 3, 3659-3665.	5.5	40
107	Bifunctional Hybrid Ni/Ni₂P Nanoparticles Encapsulated by Graphitic Carbon Supported with N, S Modified 3D Carbon Framework for Highly Efficient Overall Water Splitting. Advanced Materials Interfaces, 2018, 5, 1800473.	3.7	40
108	Optical Study of Redox Behavior of Silicon Nanoparticles Induced by Laser Ablation in Liquid. Journal of Physical Chemistry C, 2009, 113, 6480-6484.	3.1	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. Langmuir, 2009, 25, 8287-8291.	3.5	39
110	Rutile TiO2 films with 100% exposed pyramid-shaped (111) surface: photoelectron transport properties under UV and visible light irradiation. Journal of Materials Chemistry A, 2013, 1, 2646.	10.3	39
111	Dramatic excitation dependence of strong and stable blue luminescence of ZnO hollow nanoparticles. Applied Physics Letters, 2009, 95, 191904.	3.3	38
112	Self-curled coral-like Î³-Al 2 O 3 nanoplates for use as an adsorbent. Journal of Colloid and Interface Science, 2015, 453, 244-251.	9.4	38
113	Convective Self-Assembly of 2D Nonclose-Packed Binary Au Nanoparticle Arrays with Tunable Optical Properties. Chemistry of Materials, 2021, 33, 310-319.	6.7	38
114	Reversible transition between transparency and opacity for the porous silica host dispersed with silver nanometer particles within its pores. Applied Physics Letters, 1996, 69, 2980-2982.	3.3	37
115	Optical absorption of ZnS nanocrystals inside pores of silica. Applied Physics Letters, 1997, 71, 3697-3699.	3.3	37
116	Trapeziform Ag Nanosheet Arrays Induced by Electrochemical Deposition on Au-Coated Substrate. Crystal Growth and Design, 2008, 8, 2748-2752.	3.0	37
117	Auâ€NPâ€Decorated Crystalline FeOCl Nanosheet: Facile Synthesis by Laser Ablation in Liquid and its Exclusive Gas Sensing Response to HCl at Room Temperature. Advanced Materials Interfaces, 2016, 3, 1500801.	3.7	37
118	Highly efficient removal of hexavalent chromium in aqueous solutionsviachemical reduction of plate-like micro/nanostructured zero valent iron. RSC Advances, 2017, 7, 55905-55911.	3.6	37
119	Fabrication of silver nanoplate hierarchical turreted ordered array and its application in trace analyses. Chemical Communications, 2015, 51, 6609-6612.	4.1	36
120	Three-dimensional hierarchically structured PAN@Î³â€“AlOOH fiber films based on a fiber templated hydrothermal route and their recyclable strong Cr(vi)-removal performance. RSC Advances, 2012, 2, 1769.	3.6	35
121	An Invisible Template Method toward Gold Regular Arrays of Nanoflowers by Electrodeposition. Langmuir, 2013, 29, 3512-3517.	3.5	35
122	Airâ€Liquid Interfacial Selfâ€Assembly of Twoâ€Dimensional Periodic Nanostructured Arrays. ChemNanoMat, 2019, 5, 1338-1360.	2.8	34
123	Controllable superhydrophobic and lipophobic properties of ordered pore indium oxide array films. Journal of Colloid and Interface Science, 2007, 314, 615-620.	9.4	33
124	Wet Etching-Assisted Colloidal Lithography: A General Strategy toward Nanodisk and Nanohole Arrays on Arbitrary Substrates. ACS Applied Materials & Interfaces, 2014, 6, 9207-9213.	8.0	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. Journal of Materials Chemistry A, 2018, 6, 13735-13742.	10.3	32
126	Orientable pore-size-distribution of ZnO nanostructures and their superior photocatalytic activity. CrystEngComm, 2010, 12, 2821.	2.6	31

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127	Organization of Mn3O4nanoparticles into Î³-MnOOHnanowiresvia hydrothermal treatment of the colloids induced by laser ablation in water. CrystEngComm, 2011, 13, 1063-1066.	2.6	31
128	Crackâ€Free Periodic Porous Thin Films Assisted by Plasma Irradiation at Low Temperature and Their Enhanced Gasâ€Sensing Performance. Chemistry - A European Journal, 2013, 19, 13387-13395.	3.3	31
129	Janus gas: reversible redox transition of Sarin enables its selective detection by an ethanol modified nanoporous SnO₂ chemiresistor. Chemical Communications, 2015, 51, 8193-8196.	4.1	31
130	Reduction effect of pore wall and formation of Au nanowires inside monolithic mesoporous silica. Chemical Physics Letters, 2003, 382, 318-324.	2.6	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. Journal of Materials Chemistry, 2011, 21, 8816.	6.7	30
132	A General Strategy for Fabricating Unique Carbide Nanostructures with Excitation Wavelength-Dependent Light Emissions. Journal of Physical Chemistry C, 2011, 115, 7279-7284.	3.1	30
133	Enhanced degradation performances of plate-like micro/nanostructured zero valent iron to DDT. Journal of Hazardous Materials, 2016, 307, 145-153.	12.4	30
134	Controllable optical properties of Au/SiO2 nanocomposite induced by ultrasonic irradiation and thermal annealing. Applied Physics Letters, 2003, 83, 36-38.	3.3	29
135	Two-dimensional flower-shaped Au@Ag nanoparticle arrays as effective SERS substrates with high sensitivity and reproducibility for detection of thiram. Journal of Materials Chemistry C, 2020, 8, 3838-3845.	5.5	29
136	One-Pot Synthesis of Ultrasmooth, Precisely Shaped Gold Nanospheres via Surface Self-Polishing Etching and Regrowth. Chemistry of Materials, 2021, 33, 2593-2603.	6.7	29
137	Fabrication of the periodic nanopillar arrays by heat-induced deformation of 2D polymer colloidal monolayer. Polymer, 2005, 46, 12033-12036.	3.8	28
138	Layer-by-layer strategy for the general synthesis of 2D ordered micro/nanostructured porous arrays: structural, morphological and compositional controllability. Journal of Materials Chemistry, 2009, 19, 7301.	6.7	28
139	Protein assisted hydrothermal synthesis of ultrafine magnetite nanoparticle built-porous oriented fibers and their structurally enhanced adsorption to toxic chemicals in solution. Journal of Materials Chemistry, 2011, 21, 11188.	6.7	28
140	Tungsten oxide nanostructures based on laser ablation in water and a hydrothermal route. CrystEngComm, 2014, 16, 2491-2498.	2.6	28
141	Optical absorption of Ag oligomers dispersed within pores of mesoporous silica. Chemical Physics Letters, 2002, 357, 249-254.	2.6	27
142	Coreâ€“shell TaxO@Ta2O5 structured nanoparticles: laser ablation synthesis in liquid, structure and photocatalytic property. CrystEngComm, 2012, 14, 3236.	2.6	27
143	Sodiumâ€Doped ZnO Nanowires Grown by Highâ€pressure <scp>PLD</scp> and their Acceptorâ€Related Optical Properties. Journal of the American Ceramic Society, 2014, 97, 2177-2184.	3.8	26
144	Optical Absorption of Copper Nanoparticles Dispersed within Pores of Monolithic Mesoporous Silica. Journal of Materials Research, 2002, 17, 1125-1128.	2.6	25

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145	A controlled Agâ€“Au bimetallic nanoshelled microsphere array and its improved surface-enhanced Raman scattering effect. RSC Advances, 2014, 4, 8758.	3.6	25
146	Gold Binaryâ€Structured Arrays Based on Monolayer Colloidal Crystals and Their Optical Properties. Small, 2014, 10, 2374-2381.	10.0	25
147	In situ synthesis of porous array films on a filament induced micro-gap electrode pair and their use as resistance-type gas sensors with enhanced performances. Nanoscale, 2015, 7, 14264-14271.	5.6	24
148	Surface enhanced Raman scattering properties of dynamically tunable nanogaps between Au nanoparticles self-assembled on hydrogel microspheres controlled by pH. Journal of Colloid and Interface Science, 2017, 505, 467-475.	9.4	23
149	Temperature regulation growth of Au nanocrystals: from concave trisoctahedron to dendritic structures and their ultrasensitive SERS-based detection of lindane. Journal of Materials Chemistry C, 2017, 5, 10399-10405.	5.5	23
150	Quantitative Surface-Enhanced Raman Spectroscopy for Field Detections Based on Structurally Homogeneous Silver-Coated Silicon Nanocone Arrays. ACS Omega, 2021, 6, 18928-18938.	3.5	22
151	Two-dimensional ordered polymer hollow sphere and convex structure arrays based on monolayer pore films. Journal of Materials Research, 2005, 20, 338-343.	2.6	21
152	Design and Electrochemical Fabrication of Gold Binary Ordered Micro/Nanostructured Porous Arrays via Step-by-Step Colloidal Lithography. Langmuir, 2009, 25, 2558-2562.	3.5	21
153	Water bath synthesis and enhanced photocatalytic performances of urchin-like micro/nanostructured Î±-FeOOH. Journal of Materials Research, 2015, 30, 1629-1638.	2.6	21
154	Green and Tunable Decoration of Graphene with Spherical Nanoparticles Based on Laser Ablation in Water: A Case of Ag Nanoparticle/Graphene Oxide Sheet Composites. Langmuir, 2016, 32, 1667-1673.	3.5	21
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