

Chengmin Shen

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98
papers

4,619
citations

37
h-index

66
g-index

99
ext. papers

5,010
ext. citations

5.7
avg, IF

5.02
L-index

#	Paper	IF	Citations
98	Oleylamine as Both Reducing Agent and Stabilizer in a Facile Synthesis of Magnetite Nanoparticles. <i>Chemistry of Materials</i> , 2009 , 21, 1778-1780	9.6	458
97	Core-shell Fe ₃ O ₄ @SiO ₂ nanoparticles synthesized with well-dispersed hydrophilic Fe ₃ O ₄ seeds. <i>Nanoscale</i> , 2011 , 3, 701-5	7.7	237
96	Large-Scale Fe ₃ O ₄ Nanoparticles Soluble in Water Synthesized by a Facile Method. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 11336-11339	3.8	227
95	Highly ordered self-assembly with large area of Fe ₃ O ₄ nanoparticles and the magnetic properties. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 23233-6	3.4	206
94	Solvothermal-assisted exfoliation process to produce graphene with high yield and high quality. <i>Nano Research</i> , 2009 , 2, 706-712	10	198
93	Monodisperse Noble-Metal Nanoparticles and Their Surface Enhanced Raman Scattering Properties. <i>Chemistry of Materials</i> , 2008 , 20, 6939-6944	9.6	172
92	Controlled synthesis of large-scale, uniform, vertically standing graphene for high-performance field emitters. <i>Advanced Materials</i> , 2013 , 25, 250-5	24	147
91	Metal-like single crystalline boron nanotubes: synthesis and in situ study on electric transport and field emission properties. <i>Journal of Materials Chemistry</i> , 2010 , 20, 2197		139
90	An innovative way of etching MoS ₂ : Characterization and mechanistic investigation. <i>Nano Research</i> , 2013 , 6, 200-207	10	128
89	One-pot synthesis of graphene-supported monodisperse Pd nanoparticles as catalyst for formic acid electro-oxidation. <i>Scientific Reports</i> , 2014 , 4, 4501	4.9	109
88	Preparation and characterization of nanocrystalline Li ₄ Ti ₅ O ₁₂ by sol-gel method. <i>Materials Chemistry and Physics</i> , 2003 , 78, 437-441	4.4	104
87	Control of Superhydrophilic and Superhydrophobic Graphene Interface. <i>Scientific Reports</i> , 2013 , 3,	4.9	89
86	Fabrication of Vertically Aligned Single-Crystalline Boron Nanowire Arrays and Investigation of Their Field-Emission Behavior. <i>Advanced Materials</i> , 2008 , 20, 2609-2615	24	88
85	Synthesis and magnetic properties of E-cobalt nanoparticles. <i>Surface and Interface Analysis</i> , 2004 , 36, 155-160	1.5	86
84	Organic phase synthesis of monodisperse iron oxide nanocrystals using iron chloride as precursor. <i>Nanoscale</i> , 2010 , 2, 1027-32	7.7	83
83	Self-assembled synthesis of SERS-active silver dendrites and photoluminescence properties of a thin porous silicon layer. <i>Electrochemistry Communications</i> , 2008 , 10, 625-629	5.1	80
82	Self-assembly and magnetic properties of cobalt nanoparticles. <i>Applied Physics Letters</i> , 2003 , 82, 4729-4731	3.4	80

81	Nearly quantized conductance plateau of vortex zero mode in an iron-based superconductor. <i>Science</i> , 2020 , 367, 189-192	33.3	80
80	Graphene nanosheets-polypyrrole hybrid material as a highly active catalyst support for formic acid electro-oxidation. <i>Nanoscale</i> , 2011 , 3, 3277-84	7.7	79
79	Single Crystalline Boron Nanocones: Electric Transport and Field Emission Properties. <i>Advanced Materials</i> , 2007 , 19, 4480-4485	24	76
78	Well-aligned zinc oxide nanorods and nanowires prepared without catalyst. <i>Journal of Crystal Growth</i> , 2005 , 274, 126-131	1.6	76
77	Novel Nanopyramid Arrays of Magnetite. <i>Advanced Materials</i> , 2005 , 17, 1893-1897	24	75
76	Preparation and electrochemistry of graphene nanosheets-multiwalled carbon nanotubes hybrid nanomaterials as Pd electrocatalyst support for formic acid oxidation. <i>Electrochimica Acta</i> , 2012 , 62, 242-249	6.7	71
75	Synthesis and characterization of n-octadecyl mercaptan-protected palladium nanoparticles. <i>Chemical Physics Letters</i> , 2003 , 373, 39-45	2.5	70
74	Synthesis of high-ordered LiCoO ₂ nanowire arrays by AAO template. <i>Solid State Ionics</i> , 2002 , 146, 81-86	3.3	68
73	Stable cobalt nanoparticles passivated with oleic acid and triphenylphosphine. <i>Nanotechnology</i> , 2004 , 15, 70-74	3.4	67
72	Morphologies and microstructures of nano-sized Cu(2)O particles using a cetyltrimethylammonium template. <i>Nanotechnology</i> , 2005 , 16, 267-72	3.4	61
71	Controlled synthesis of highly ordered CuO nanowire arrays by template-based sol-gel route. <i>Transactions of Nonferrous Metals Society of China</i> , 2007 , 17, 783-786	3.3	59
70	One-dimensional boron nanostructures: Prediction, synthesis, characterizations, and applications. <i>Nanoscale</i> , 2010 , 2, 1375-89	7.7	56
69	Synthesis of Pt nanoparticles anchored on graphene-encapsulated Fe ₃ O ₄ magnetic nanospheres and their use as catalysts for methanol oxidation. <i>Carbon</i> , 2013 , 53, 112-119	10.4	54
68	Controllable growth of silver nanostructures by a simple replacement reaction and their SERS studies. <i>Solid State Sciences</i> , 2009 , 11, 1088-1093	3.4	49
67	Wet chemical synthesis of gold nanoparticles using silver seeds: a shape control from nanorods to hollow spherical nanoparticles. <i>Nanotechnology</i> , 2007 , 18, 115608	3.4	48
66	Shape-Controlled Synthesis of Palladium Nanorods and Their Magnetic Properties. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 13466-13469	3.8	44
65	Synthesis of cubic and spherical Pd nanoparticles on graphene and their electrocatalytic performance in the oxidation of formic acid. <i>Nanoscale</i> , 2014 , 6, 13154-62	7.7	40
64	Influence of different deposition potentials on morphology and structure of CdSe films. <i>Applied Surface Science</i> , 2005 , 240, 34-41	6.7	40

63	DC electrochemical deposition of CdSe nanorods array using porous anodic aluminum oxide template. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 303, 19-23	5.3	40
62	Increase in thermal stability induced by organic coatings on nanoparticles. <i>Physical Review B</i> , 2004 , 70,	3.3	39
61	Large scale SiCBiOx nanocables: Synthesis, photoluminescence, and field emission properties. <i>Journal of Applied Physics</i> , 2007 , 102, 014309	2.5	33
60	Synthesis of high-ordered LiMn2O4 nanowire arrays by AAO template and its structural properties. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002 , 95, 77-82	3.1	30
59	Synthesis of monodisperse palladium nanocubes and their catalytic activity for methanol electrooxidation. <i>Chinese Physics B</i> , 2010 , 19, 106104	1.2	29
58	Fabrication of gold nanorod self-assemblies from rod and sphere mixtures via shape self-selective behavior. <i>Chemical Physics Letters</i> , 2006 , 432, 222-225	2.5	28
57	Boron nanowires for flexible electronics. <i>Applied Physics Letters</i> , 2008 , 93, 122105	3.4	27
56	The size-dependent phonon frequency of semiconductor nanocrystals. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 267-272	1.8	27
55	Quasi-2D Transport and Weak Antilocalization Effect in Few-layered VSe. <i>Nano Letters</i> , 2019 , 19, 4551-4559	5.5	26
54	Observation of the Kondo Effect in Multilayer Single-Crystalline VTe Nanoplates. <i>Nano Letters</i> , 2019 , 19, 8572-8580	11.5	24
53	Controlled growth of large-scale silver nanowires. <i>Chinese Physics B</i> , 2005 , 14, 2269-2275		24
52	Effect of pH on the electrochemical deposition of cadmium selenide nanocrystal films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001 , 84, 265-270	3.1	24
51	Plasmon-induced hot electron transfer in Au-ZnO heterogeneous nanorods for enhanced SERS. <i>Nanoscale</i> , 2019 , 11, 11782-11788	7.7	23
50	Electrodeposition of Sb2Se3 on indium-doped tin oxides substrate: Nucleation and growth. <i>Applied Surface Science</i> , 2012 , 258, 2169-2173	6.7	23
49	Epitaxy of Ultrathin SnSe Single Crystals on Polydimethylsiloxane: In-Plane Electrical Anisotropy and Gate-Tunable Thermopower. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600292	6.4	23
48	Synthesis and photoluminescence property of boron carbide nanowires. <i>Chinese Physics B</i> , 2008 , 17, 4585-4591	4.5	21
47	Monodisperse CoPt Nanoparticles Synthesized Using Chemical Reduction Method. <i>Chinese Physics Letters</i> , 2008 , 25, 1479-1481	1.8	20
46	Impurity-induced formation of bilayered graphene on copper by chemical vapor deposition. <i>Nano Research</i> , 2016 , 9, 2803-2810	10	19

45	Synthesis of highly ordered LiNiO ₂ nanowire arrays in AAO templates and their structural properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 335, 260-267	5.3	19
44	Room-Temperature, Low-Barrier Boron Doping of Graphene. <i>Nano Letters</i> , 2015 , 15, 6464-8	11.5	18
43	Synthesis, characterization and self-assemblies of magnetite nanoparticles. <i>Surface and Interface Analysis</i> , 2006 , 38, 1063-1067	1.5	18
42	Effect of Contact Mode on the Electrical Transport and Field-Emission Performance of Individual Boron Nanowires. <i>Advanced Functional Materials</i> , 2010 , 20, 1994-2003	15.6	17
41	Pressure-induced superconducting state in crystalline boron nanowires. <i>Physical Review B</i> , 2009 , 79,	3.3	15
40	Patterned boron nanowires and field emission properties. <i>Applied Physics Letters</i> , 2009 , 94, 083101	3.4	15
39	Boron Carbide and Silicon Oxide Hetero-nanonecklaces via Temperature Modulation. <i>Crystal Growth and Design</i> , 2008 , 8, 3160-3164	3.5	15
38	A new route to single crystalline vanadium dioxide nanoflakes via thermal reduction. <i>Journal of Materials Research</i> , 2007 , 22, 1921-1926	2.5	15
37	The dependence of Co nanoparticle sizes on the ratio of surfactants and the influence of different crystal sizes on magnetic properties. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 81, 569-572	2.6	15
36	Facile synthesis of hollow nano-spheres and hemispheres of cobalt by polyol reduction. <i>Nanotechnology</i> , 2010 , 21, 375602	3.4	14
35	Cathodoluminescent and electrical properties of an individual ZnO nanowire with oxygen vacancies. <i>Chinese Physics B</i> , 2008 , 17, 3444-3447	1.2	14
34	Preparation of graphene nanowalls on nickel foam as supercapacitor electrodes. <i>Micro and Nano Letters</i> , 2018 , 13, 842-844	0.9	12
33	Surface-enhanced Raman scattering properties of highly ordered self-assemblies of gold nanorods with different aspect ratios. <i>Chinese Physics B</i> , 2011 , 20, 076103	1.2	12
32	GrapheneSilicon Layered Structures on Single-Crystalline Ir(111) Thin Films. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1400543	4.6	11
31	From aqueous to organic: A step-by-step strategy for shape evolution of gold nanoparticles. <i>Chemical Physics Letters</i> , 2005 , 415, 342-345	2.5	11
30	Fabrication of patterned boron carbide nanowires and their electrical, field emission, and flexibility properties. <i>Nano Research</i> , 2012 , 5, 896-902	10	10
29	Synthesis of monodisperse CoPt ₃ nanocrystals and their catalytic behavior for growth of boron nanowires. <i>Nano Research</i> , 2011 , 4, 780-787	10	10
28	Atomic-scale tuning of self-assembled ZnO microscopic patterns: from dendritic fractals to compact island. <i>Nanoscale</i> , 2010 , 2, 2557-60	7.7	10

27	Single crystalline boron carbide nanobelts: synthesis and characterization. <i>Chinese Physics B</i> , 2008 , 17, 4247-4252	1.2	10
26	Anomalous aggregation growth of palladium nanosphere with SPR band in visible range. <i>Chinese Physics B</i> , 2008 , 17, 2066-2071	1.2	10
25	Self-assembled stripes on the anodic aluminum oxide by atomic force microscope observation. <i>Applied Surface Science</i> , 2003 , 219, 282-289	6.7	10
24	Fabrication and field emission properties of boron nanowire bundles. <i>Ultramicroscopy</i> , 2009 , 109, 447-503	3.1	9
23	Synthesis and properties of Au ₃ Fe ₃ O ₄ and Ag ₃ Fe ₃ O ₄ heterodimeric nanoparticles. <i>Chinese Physics B</i> , 2010 , 19, 066102	1.2	9
22	Synthesis and characterization of aniline and o-toluidine conducting copolymer microtubes with the template-synthesis method. <i>Journal of Applied Polymer Science</i> , 2005 , 96, 1539-1543	2.9	9
21	Preparation of EMnO ₂ /carbon composite material by a wet chemical method. <i>Materials Research Bulletin</i> , 2001 , 36, 541-546	5.1	9
20	Probing Field Emission from Boron Carbide Nanowires. <i>Chinese Physics Letters</i> , 2008 , 25, 3463-3466	1.8	8
19	Formation and photoluminescence properties of boron nanocones. <i>Chinese Physics B</i> , 2008 , 17, 3827-3835	3.5	8
18	Growth of Au Nanowires at the Interface of Air/Water. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 15196-15200	3.8	7
17	Observation of magnetic adatom-induced Majorana vortex and its hybridization with field-induced Majorana vortex in an iron-based superconductor. <i>Nature Communications</i> , 2021 , 12, 1348	17.4	7
16	TEM study on hollow and porous Cu ₂ O nanoparticles prepared from solution phase. <i>Chinese Physics B</i> , 2006 , 15, 1290-1295		6
15	Copper vapor-assisted growth of hexagonal graphene domains on silica islands. <i>Applied Physics Letters</i> , 2016 , 109, 023106	3.4	5
14	A facile fabrication of Cu ₂ O nanowire arrays on Cu substrates. <i>Open Engineering</i> , 2012 , 2,	1.7	5
13	Field emission properties of patterned boron nanocones. <i>Nanotechnology</i> , 2010 , 21, 325705	3.4	5
12	Highly dispersed Pd nanoparticles on chemically modified graphene with aminophenyl groups for formic acid oxidation. <i>Chinese Physics B</i> , 2011 , 20, 113301	1.2	5
11	Local field emission of electrons from an individual boron nanowire at nanometer electrode separation. <i>Applied Surface Science</i> , 2012 , 258, 2149-2152	6.7	4
10	High-quality graphene grown on polycrystalline PtRh ₂₀ alloy foils by low pressure chemical vapor deposition and its electrical transport properties. <i>Applied Physics Letters</i> , 2016 , 108, 063102	3.4	3

9	Low-temperature controllable preparation of vertically standing graphene sheets on indium tin oxide glass and their field emission properties. <i>Chemical Physics Letters</i> , 2016 , 664, 29-32	2.5	3
8	Synthesis of graphene-supported monodisperse AuPd bimetallic nanoparticles for electrochemical oxidation of methanol. <i>Chinese Physics B</i> , 2015 , 24, 078109	1.2	2
7	Modulation of field emission by small AC signals. <i>Science China Technological Sciences</i> , 2017 , 60, 1897-1902	3.5	2
6	Influence of Si Co-doping on electrical transport properties of magnesium-doped boron nanowires. <i>Applied Physics Letters</i> , 2012 , 100, 103112	3.4	2
5	Organic molecules modified palladium nanowires arrays prepared by high temperature liquid phase reduction. <i>Chinese Physics B</i> , 2008 , 17, 2191-2196	1.2	2
4	A low-temperature scanning probe microscopy system with molecular beam epitaxy and optical access. <i>Review of Scientific Instruments</i> , 2018 , 89, 113705	1.7	2
3	Boron Nanowires for Flexible Electronics and Field Emission 2009 ,		1
2	Electrostatic gating of solid-ion-conductor on InSe flakes and InSe/h-BN heterostructures. <i>Chinese Physics B</i> , 2020 , 29, 118501	1.2	1
1	Surface atomic manipulation of low-dimensional structures. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022 ,	0.6	