

Justin D Holmes

List of Publications by Year in descending order

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329
papers

11,839
citations

26567

56
h-index

43802

91
g-index

338
all docs

338
docs citations

338
times ranked

15995
citing authors

#	ARTICLE	IF	CITATIONS
1	Solution phase growth and analysis of super-thin zigzag tin selenide nanoribbons. <i>Nanotechnology</i> , 2022, 33, 135601.	1.3	3
2	Growth and analysis of the tetragonal (ST12) germanium nanowires. <i>Nanoscale</i> , 2022, 14, 2030-2040.	2.8	3
3	One-Step Grown Carbonaceous Germanium Nanowires and Their Application as Highly Efficient Lithium-Ion Battery Anodes. <i>ACS Applied Energy Materials</i> , 2022, 5, 1922-1932.	2.5	9
4	Lattice dynamics of Ge _{1-x} Sn _x alloy nanowires. <i>Nanoscale</i> , 2022, , .	2.8	0
5	Controlled morphology and dimensionality evolution of NiPd bimetallic nanostructures. <i>Journal of Colloid and Interface Science</i> , 2021, 585, 480-489.	5.0	10
6	Stretching the Equilibrium Limit of Sn in Ge _{1-x} Sn _x Nanowires: Implications for Field Effect Transistors. <i>ACS Applied Nano Materials</i> , 2021, 4, 1048-1056.	2.4	6
7	Spherical silica particle production by combined biomimetic-StÄrber synthesis using renewable sodium caseinate without petrochemical agents. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 1151-1167.	1.6	2
8	Structural Evolution of Nanophase Separated Block Copolymer Patterns in Supercritical CO ₂ . <i>Nanomaterials</i> , 2021, 11, 669.	1.9	2
9	Biomimetic spherical silica production using phosphatidylcholine and soy lecithin. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 1721-1735.	1.6	1
10	Can sustainable, monodisperse, spherical silica be produced from biomolecules? A review. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 1777-1804.	1.6	5
11	A Review of Self-Seeded Germanium Nanowires: Synthesis, Growth Mechanisms and Potential Applications. <i>Nanomaterials</i> , 2021, 11, 2002.	1.9	6
12	Probing lattice dynamics in STÄš12 phase germanium nanowires by Raman spectroscopy. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	3
13	Germanium tin alloy nanowires as anode materials for high performance Li-ion batteries. <i>Nanotechnology</i> , 2020, 31, 165402.	1.3	15
14	Stabilization of Black Phosphorus by SonicationÄssisted Simultaneous Exfoliation and Functionalization. <i>Chemistry - A European Journal</i> , 2020, 26, 17581-17587.	1.7	3
15	Monolayer Doping of Germanium with Arsenic: A New Chemical Route to Achieve Optimal Dopant Activation. <i>Langmuir</i> , 2020, 36, 9993-10002.	1.6	7
16	A conceptual change in crystallisation mechanisms of oxide materials from solutions in closed systems. <i>Scientific Reports</i> , 2020, 10, 18414.	1.6	2
17	Directly Grown Germanium Nanowires from Stainless Steel: High-performing Anodes for Li-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 11811-11819.	2.5	14
18	Two-Dimensional SnSe Nanonetworks: Growth and Evaluation for Li-Ion Battery Applications. <i>ACS Applied Energy Materials</i> , 2020, 3, 6602-6610.	2.5	25

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19	Crystallographically Controlled Synthesis of SnSe Nanowires: Potential in Resistive Memory Devices. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000474.	1.9	19
20	Vapor-Phase Passivation of Chlorine-Terminated Ge(100) Using Self-Assembled Monolayers of Hexanethiol. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 29899-29907.	4.0	2
21	Probing dipole and quadrupole resonance mode in non-plasmonic nanowire using Raman spectroscopy. <i>Nanotechnology</i> , 2020, 31, 425201.	1.3	1
22	Regulated phase separation in nanopatterned protein-polysaccharide thin films by spin coating. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 190, 110967.	2.5	7
23	Ultrahigh Negative Infrared Photoconductance in Highly As-Doped Germanium Nanowires Induced by Hot Electron Trapping. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1934-1942.	2.0	8
24	Progress on Germanium–Tin Nanoscale Alloys. <i>Chemistry of Materials</i> , 2020, 32, 4383-4408.	3.2	34
25	Field-Effect Transistor Figures of Merit for Vapor–Liquid–Solid-Grown $\text{Ge}_{1-x}\text{Sn}_x$ ($x = 0.03\text{--}0.09$) Nanowire Devices. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1226-1234.	2.0	10
26	Monolayer doping of silicon-germanium alloys: A balancing act between phosphorus incorporation and strain relaxation. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	9
27	Investigating the mechanical properties of GeSn nanowires. <i>Nanoscale</i> , 2019, 11, 13612-13619.	2.8	12
28	Formation and characterization of Ni, Pt, and Ti stanogermanide contacts on $\text{Ge}_{0.92}\text{Sn}_{0.08}$. <i>Thin Solid Films</i> , 2019, 690, 137568.	0.8	9
29	One-Step Fabrication of GeSn Branched Nanowires. <i>Chemistry of Materials</i> , 2019, 31, 4016-4024.	3.2	30
30	Switching at the contacts in $\text{Ge}_9\text{Sb}_1\text{Te}_5$ phase-change nanowire devices. <i>Nanotechnology</i> , 2019, 30, 335706.	1.3	5
31	Bioconjugated Gold Nanoparticles Enhance siRNA Delivery in Prostate Cancer Cells. <i>Methods in Molecular Biology</i> , 2019, 1974, 291-301.	0.4	30
32	Solvent mediated inclusion of metal oxide into block copolymer nanopatterns: Mechanism of oxide formation under UV-Ozone treatment. <i>Polymer</i> , 2019, 173, 197-204.	1.8	12
33	Detection of ultra-low protein concentrations with the simplest possible field effect transistor. <i>Nanotechnology</i> , 2019, 30, 324001.	1.3	12
34	Development of anisamide-targeted PEGylated gold nanorods to deliver epirubicin for chemo-photothermal therapy in tumor-bearing mice. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 1817-1833.	3.3	26
35	Anisamide-targeted PEGylated gold nanoparticles designed to target prostate cancer mediate: Enhanced systemic exposure of siRNA, tumour growth suppression and a synergistic therapeutic response in combination with paclitaxel in mice. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 137, 56-67.	2.0	43
36	Ni, Pt, and Ti stanogermanide formation on $\text{Ge}_{0.92}\text{Sn}_{0.08}$. , 2019, , .		0

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37	Evaluating the Surface Chemistry of Black Phosphorus during Ambient Degradation. Langmuir, 2019, 35, 2172-2178.	1.6	41
38	Functionalization of SiO ₂ Surfaces for Si Monolayer Doping with Minimal Carbon Contamination. ACS Applied Materials & Interfaces, 2018, 10, 2191-2201.	4.0	20
39	Diagnosis of phosphorus monolayer doping in silicon based on nanowire electrical characterisation. Journal of Applied Physics, 2018, 123, 125701.	1.1	19
40	Metal-semimetal Schottky diode relying on quantum confinement. Microelectronic Engineering, 2018, 195, 21-25.	1.1	17
41	Preparation of Cytocompatible ITO Neuroelectrodes with Enhanced Electrochemical Characteristics Using a Facile Anodic Oxidation Process. Advanced Functional Materials, 2018, 28, 1605035.	7.8	16
42	Neuromorphic- Inspired Behaviour in Core-Shell Nanowire Networks. , 2018, , .		0
43	Comparing Thermal and Chemical Removal of Nanoparticle Stabilizing Ligands: Effect on Catalytic Activity and Stability. ACS Applied Nano Materials, 2018, 1, 7129-7138.	2.4	37
44	Revisiting Conversion Reaction Mechanisms in Lithium Batteries: Lithiation-Driven Topotactic Transformation in FeF ₂ . Journal of the American Chemical Society, 2018, 140, 17915-17922.	6.6	41
45	Oxide removal and stabilization of bismuth thin films through chemically bound thiol layers. RSC Advances, 2018, 8, 33368-33373.	1.7	17
46	Phosphorus monolayer doping (MLD) of silicon on insulator (SOI) substrates. Beilstein Journal of Nanotechnology, 2018, 9, 2106-2113.	1.5	9
47	Monolayer doping and other strategies in high surface-to-volume ratio silicon devices. , 2018, , .		1
48	Fabrication of Si and Ge nanoarrays through graphoepitaxial directed hardmask block copolymer self-assembly. Journal of Colloid and Interface Science, 2018, 531, 533-543.	5.0	1
49	Covalent Functionalization of Few-Layer Black Phosphorus Using Iodonium Salts and Comparison to Diazonium Modified Black Phosphorus. Chemistry of Materials, 2018, 30, 4667-4674.	3.2	79
50	AsH ₃ gas-phase <i>ex situ</i> doping 3D silicon structures. Journal of Applied Physics, 2018, 124, .	1.1	4
51	Influence of growth kinetics on Sn incorporation in direct band gap Ge _{1-x} Sn _x nanowires. Journal of Materials Chemistry C, 2018, 6, 8738-8750.	2.7	18
52	Nanopatterned protein-polysaccharide thin films by humidity regulated phase separation. Journal of Colloid and Interface Science, 2018, 532, 171-181.	5.0	9
53	Development of Ordered, Porous (Sub-25 nm Dimensions) Surface Membrane Structures Using a Block Copolymer Approach. Scientific Reports, 2018, 8, 7252.	1.6	11
54	Emergence of winner-takes-all connectivity paths in random nanowire networks. Nature Communications, 2018, 9, 3219.	5.8	88

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55	New Generation Electron Beam Resists: A Review. Chemistry of Materials, 2017, 29, 1898-1917.	3.2	101
56	Optical study of strain-free GeSn nanowires. Proceedings of SPIE, 2017, , .	0.8	2
57	Inducing imperfections in germanium nanowires. Nano Research, 2017, 10, 1510-1523.	5.8	11
58	Gate-controlled heat generation in ZnO nanowire FETs. Physical Chemistry Chemical Physics, 2017, 19, 14042-14047.	1.3	2
59	Rapid, Low-Temperature Synthesis of Germanium Nanowires from Oligosilylgermane Precursors. Chemistry of Materials, 2017, 29, 4351-4360.	3.2	25
60	Liquid-Phase Monolayer Doping of InGaAs with Si-, S-, and Sn-Containing Organic Molecular Layers. ACS Omega, 2017, 2, 1750-1759.	1.6	9
61	Photocatalytic air-purification: a low-cost, real-time gas detection method. Analytical Methods, 2017, 9, 170-175.	1.3	0
62	Modelling doping design in nanowire tunnel-FETs based on group-IV semiconductors. Materials Science in Semiconductor Processing, 2017, 62, 201-204.	1.9	7
63	Nonpolar Resistive Switching in Ag@TiO ₂ Core-Shell Nanowires. ACS Applied Materials & Interfaces, 2017, 9, 38959-38966.	4.0	44
64	Extra tension at electrode-nanowire adhesive contacts in nano-electromechanical devices. European Journal of Mechanics, A/Solids, 2017, 66, 412-422.	2.1	6
65	2D Nanosheet Paint from Solvent-Exfoliated Bi ₂ Te ₃ Ink. Chemistry of Materials, 2017, 29, 7390-7400.	3.2	16
66	Synthesis and stability of IR-820 and FITC doped silica nanoparticles. Journal of Colloid and Interface Science, 2017, 490, 294-302.	5.0	7
67	Gold nanoparticles enlighten the future of cancer theranostics. International Journal of Nanomedicine, 2017, Volume 12, 6131-6152.	3.3	202
68	Relative Humidity Dependent Resistance Switching of Bi ₂ S ₃ Nanowires. Journal of Nanomaterials, 2017, 2017, 1-6.	1.5	2
69	Determination of Young's modulus of Sb ₂ S ₃ nanowires by in situ resonance and bending methods. Beilstein Journal of Nanotechnology, 2016, 7, 278-283.	1.5	13
70	Diameter-driven crossover in resistive behaviour of heavily doped self-seeded germanium nanowires. Beilstein Journal of Nanotechnology, 2016, 7, 1284-1288.	1.5	2
71	Fingerprints of a size-dependent crossover in the dimensionality of electronic conduction in Au-seeded Ge nanowires. Beilstein Journal of Nanotechnology, 2016, 7, 1574-1578.	1.5	0
72	Novel germanium surface modification for sub-10%nm patterning with electron beam lithography and hydrogen silsesquioxane resist. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, .	0.6	11

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73	Synthesis of indium nanoparticles at ambient temperature; simultaneous phase transfer and ripening. <i>Journal of Nanoparticle Research</i> , 2016, 18, 363.	0.8	7
74	Space charge limited current mechanism in Bi ₂ S ₃ nanowires. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	15
75	Bioconjugated gold nanoparticles enhance cellular uptake: A proof of concept study for siRNA delivery in prostate cancer cells. <i>International Journal of Pharmaceutics</i> , 2016, 509, 16-27.	2.6	68
76	Morphological evolution of lamellar forming polystyrene-block-poly(4-vinylpyridine) copolymers under solvent annealing. <i>Soft Matter</i> , 2016, 12, 5429-5437.	1.2	19
77	Development of a facile block copolymer method for creating hard mask patterns integrated into semiconductor manufacturing. <i>Nano Research</i> , 2016, 9, 3116-3128.	5.8	9
78	Assessing Charge Contribution from Thermally Treated Ni Foam as Current Collectors for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2016, 163, A1805-A1811.	1.3	14
79	Embedding colloidal nanoparticles inside mesoporous silica using gas expanded liquids for high loading recyclable catalysts. <i>Catalysis Science and Technology</i> , 2016, 6, 7212-7219.	2.1	11
80	Chemical approaches for doping nanodevice architectures. <i>Nanotechnology</i> , 2016, 27, 342002.	1.3	22
81	Non-equilibrium induction of tin in germanium: towards direct bandgap Ge _{1-x} Sn _x nanowires. <i>Nature Communications</i> , 2016, 7, 11405.	5.8	100
82	Self-Healing Thermal Annealing: Surface Morphological Restructuring Control of GaN Nanorods. <i>Crystal Growth and Design</i> , 2016, 16, 6769-6775.	1.4	10
83	Engineering Metallic Nanoparticles for Enhancing and Probing Catalytic Reactions. <i>Advanced Materials</i> , 2016, 28, 5689-5695.	11.1	34
84	Strategies for Inorganic Incorporation using Neat Block Copolymer Thin Films for Etch Mask Function and Nanotechnological Application. <i>Advanced Materials</i> , 2016, 28, 5586-5618.	11.1	135
85	Fabrication of MoS ₂ Nanowire Arrays and Layered Structures via the Self-Assembly of Block Copolymers. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500596.	1.9	23
86	Monolayer Doping of Si with Improved Oxidation Resistance. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4101-4108.	4.0	28
87	Lead-supported germanium nanowire growth. <i>Materials Letters</i> , 2016, 173, 248-251.	1.3	6
88	Anisamide-targeted gold nanoparticles for siRNA delivery in prostate cancer – synthesis, physicochemical characterisation and in vitro evaluation. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2242-2252.	2.9	45
89	Fabrication of ultra-dense sub-10 nm in-plane Si nanowire arrays by using a novel block copolymer method: optical properties. <i>Nanoscale</i> , 2016, 8, 2177-2187.	2.8	16
90	Ultra-High-Density Arrays of Defect-Free AlN Nanorods: A “Space-Filling” Approach. <i>ACS Nano</i> , 2016, 10, 1988-1994.	7.3	20

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91	Mesoporosity in doped silicon nanowires from metal assisted chemical etching monitored by phonon scattering. <i>Semiconductor Science and Technology</i> , 2016, 31, 014003.	1.0	14
92	A Highly Efficient Sensor Platform Using Simply Manufactured Nanodot Patterned Substrates. <i>Scientific Reports</i> , 2015, 5, 13270.	1.6	12
93	Correlation of lithographic performance of the electron beam resists SML and ZEP with their chemical structure. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2015, 33, .	0.6	4
94	Gold Nanoparticles: Synthesis, Characterization, and Bioconjugation. , 2015, , 1-11.		8
95	Elucidating Structureâ€“Property Relationships in the Design of Metal Nanoparticle Catalysts for the Activation of Molecular Oxygen. <i>ACS Catalysis</i> , 2015, 5, 3807-3816.	5.5	26
96	A facile route to synthesis of S-doped TiO ₂ nanoparticles for photocatalytic activity. <i>Journal of Molecular Catalysis A</i> , 2015, 406, 51-57.	4.8	96
97	Block Co-Polymers for Nanolithography: Rapid Microwave Annealing for Pattern Formation on Substrates. <i>Polymers</i> , 2015, 7, 592-609.	2.0	3
98	Paintable Films from Chemically Exfoliated 2D Bismuth Telluride Nanosheets. <i>ECS Transactions</i> , 2015, 64, 1-11.	0.3	2
99	Absence of Evidence â‰” Evidence of Absence: Statistical Analysis of Inclusions in Multiferroic Thin Films. <i>Scientific Reports</i> , 2015, 4, 5712.	1.6	23
100	Positively charged, surfactant-free gold nanoparticles for nucleic acid delivery. <i>RSC Advances</i> , 2015, 5, 17862-17871.	1.7	28
101	Epitaxial lateral overgrowth of AlN on self-assembled patterned nanorods. <i>Journal of Materials Chemistry C</i> , 2015, 3, 431-437.	2.7	58
102	Solvent Vapor Annealing of Block Copolymers in Confined Topographies: Commensurability Considerations for Nanolithography. <i>Macromolecular Rapid Communications</i> , 2015, 36, 762-767.	2.0	18
103	Nanophase separation and structural evolution of block copolymer films: A â€œgreenâ€•and â€œcleanâ€• supercritical fluid approach. <i>Nano Research</i> , 2015, 8, 1279-1292.	5.8	4
104	Aligned silicon nanofins <i>via</i> the directed self-assembly of PS- <i>b</i> -P4VP block copolymer and metal oxide enhanced pattern transfer. <i>Nanoscale</i> , 2015, 7, 6712-6721.	2.8	47
105	An enhanced surface passivation effect in InGaN/GaN disk-in-nanowire light emitting diodes for mitigating Shockleyâ€“Readâ€“Hall recombination. <i>Nanoscale</i> , 2015, 7, 16658-16665.	2.8	84
106	Diameter-Controlled Germanium Nanowires with Lamellar Twinning and Polytypes. <i>Chemistry of Materials</i> , 2015, 27, 3408-3416.	3.2	19
107	A vertical lamellae arrangement of sub-16 nm pitch (domain spacing) in a microphase separated PS- <i>b</i> -PEO thin film by salt addition. <i>Journal of Materials Chemistry C</i> , 2015, 3, 7216-7227.	2.7	14
108	Organo-arsenic Molecular Layers on Silicon for High-Density Doping. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 15514-15521.	4.0	38

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109	Reduction and control of domain spacing by additive inclusion: Morphology and orientation effects of glycols on microphase separated PS-b-PEO. <i>Journal of Colloid and Interface Science</i> , 2015, 450, 141-150.	5.0	0
110	Application of Electrochemical Impedance for Characterising Arrays of Bi ₂ S ₃ Nanowires. <i>Electrochimica Acta</i> , 2015, 170, 33-38.	2.6	6
111	Nanosize effect in Germanium Nanowire Growth with Binary Metal Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1751, 13.	0.1	0
112	Variation of Self-Seeded Germanium Nanowire Electronic Device Functionality due to Synthesis Condition Determined Surface States. <i>Advanced Materials Interfaces</i> , 2015, 2, 1400469.	1.9	5
113	Biomimetic gold nanocomplexes for gene knockdown: Will gold deliver dividends for small interfering RNA nanomedicines?. <i>Nano Research</i> , 2015, 8, 3111-3140.	5.8	22
114	In operandi observation of dynamic annealing: A case study of boron in germanium nanowire devices. <i>Applied Physics Letters</i> , 2015, 106, 233109.	1.5	3
115	Parallel Arrays of Sub-10 nm Aligned Germanium Nanofins from an In Situ Metal Oxide Hardmask using Directed Self-Assembly of Block Copolymers. <i>Chemistry of Materials</i> , 2015, 27, 6091-6096.	3.2	23
116	3D Vanadium Oxide Inverse Opal Growth by Electrodeposition. <i>Journal of the Electrochemical Society</i> , 2015, 162, D605-D612.	1.3	32
117	Probing Thermal Flux in Twinned Ge Nanowires through Raman Spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 24679-24685.	4.0	23
118	Evaluation of the physicochemical properties and the biocompatibility of polyethylene glycol-conjugated gold nanoparticles: A formulation strategy for siRNA delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 135, 604-612.	2.5	36
119	Epitaxial Post-Implant Recrystallization in Germanium Nanowires. <i>Crystal Growth and Design</i> , 2015, 15, 4581-4590.	1.4	8
120	In-situ Observations of Nanoscale Effects in Germanium Nanowire Growth with Ternary Eutectic Alloys. <i>Small</i> , 2015, 11, 103-111.	5.2	10
121	Application of a Nanoelectromechanical Mass Sensor for the Manipulation and Characterisation of Graphene and Graphite Flakes. <i>Science of Advanced Materials</i> , 2015, 7, 552-557.	0.1	5
122	Graphoepitaxial Directed Self-Assembly of Polystyrene-Block-Polydimethylsiloxane Block Copolymer on Substrates Functionalized with Hexamethyldisilazane to Fabricate Nanoscale Silicon Patterns. <i>Advanced Materials Interfaces</i> , 2014, 1, 1300102.	1.9	3
123	Junctionless nanowire transistor fabricated with high mobility Ge channel. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 8, 65-68.	1.2	16
124	Pegylation Increases Platelet Biocompatibility of Gold Nanoparticles. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 1004-1015.	0.5	55
125	Germanium Oxide Removal by Citric Acid and Thiol Passivation from Citric Acid-Terminated Ge(100). <i>Langmuir</i> , 2014, 30, 14123-14127.	1.6	37
126	An in situ hard mask block copolymer approach for the fabrication of ordered, large scale, horizontally aligned, Si nanowire arrays on Si substrate. , 2014, , .		0

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127	Formation of sub-7 nm feature size PS-b-P4VP block copolymer structures by solvent vapour process. Proceedings of SPIE, 2014, , .	0.8	17
128	The Origin of Shape Sensitivity in Palladium-Catalyzed Suzuki-Miyaura Cross Coupling Reactions. Angewandte Chemie - International Edition, 2014, 53, 4142-4145.	7.2	116
129	Component design and testing for a miniaturised autonomous sensor based on a nanowire materials platform. Microsystem Technologies, 2014, 20, 971-988.	1.2	1
130	Selective etching of polylactic acid in poly(styrene)-block-poly(ϵ -caprolactide) diblock copolymer for nanoscale patterning. Journal of Applied Polymer Science, 2014, 131, .	1.3	21
131	Defect Chemistry and Vacancy Concentration of Luminescent Europium Doped Ceria Nanoparticles by the Solvothermal Method. Journal of Physical Chemistry C, 2014, 118, 10700-10710.	1.5	36
132	Fully CMOS-compatible top-down fabrication of sub-50nm silicon nanowire sensing devices. Microelectronic Engineering, 2014, 118, 47-53.	1.1	14
133	Optimizing Vanadium Pentoxide Thin Films and Multilayers from Dip-Coated Nanofluid Precursors. ACS Applied Materials & Interfaces, 2014, 6, 2031-2038.	4.0	21
134	Recent advances in the growth of germanium nanowires: synthesis, growth dynamics and morphology control. Journal of Materials Chemistry C, 2014, 2, 14-33.	2.7	53
135	Evaluating the performance of nanostructured materials as lithium-ion battery electrodes. Nano Research, 2014, 7, 1-62.	5.8	292
136	Visualising discrete structural transformations in germanium nanowires during ion beam irradiation and subsequent annealing. Nanoscale, 2014, 6, 12890-12897.	2.8	11
137	A positron annihilation spectroscopic investigation of europium-doped cerium oxide nanoparticles. Nanoscale, 2014, 6, 608-615.	2.8	45
138	Size-controlled growth of germanium nanowires from ternary eutectic alloy catalysts. Journal of Materials Chemistry C, 2014, 2, 4597-4605.	2.7	10
139	Stability, Oxidation, and Shape Evolution of PVP-Capped Pd Nanocrystals. Journal of Physical Chemistry C, 2014, 118, 6522-6530.	1.5	57
140	Access resistance reduction in Ge nanowires and substrates based on non-destructive gas-source dopant in-diffusion. Journal of Materials Chemistry C, 2014, 2, 9248-9257.	2.7	18
141	On the Use of Gas Diffusion Layers as Current Collectors in Li-O ₂ Battery Cathodes. Journal of the Electrochemical Society, 2014, 161, A1964-A1968.	1.3	18
142	Attomolar streptavidin and pH, low power sensor based on 3D vertically stacked SiNW FETs. , 2014, , .		4
143	Characterisation of a novel electron beam lithography resist, SML and its comparison to PMMA and ZEP resists. Microelectronic Engineering, 2014, 123, 126-130.	1.1	24
144	Study of the Kinetics and Mechanism of Rapid Self-Assembly in Block Copolymer Thin Films during Solvo-Microwave Annealing. Langmuir, 2014, 30, 10728-10739.	1.6	34

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145	Enhanced Catalytic Activity of High-Index Faceted Palladium Nanoparticles in Suzuki-Miyaura Coupling Due to Efficient Leaching Mechanism. <i>ACS Catalysis</i> , 2014, 4, 3105-3111.	5.5	83
146	Electrical characterization of high performance, liquid gated vertically stacked SiNW-based 3D FET biosensors. <i>Sensors and Actuators B: Chemical</i> , 2014, 199, 291-300.	4.0	23
147	Fabrication of Ordered, Large Scale, Horizontally Aligned Si Nanowire Arrays Based on an In Situ Hard Mask Block Copolymer Approach. <i>Advanced Materials</i> , 2014, 26, 1207-1216.	11.1	35
148	Fabrication of 3D Nanodimensioned Electric Double Layer Capacitor Structures Using Block Copolymer Templates. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 5221-5227.	0.9	3
149	Swift Nanopattern Formation of PS- <i>b</i> -PMMA and PS- <i>b</i> -PDMS Block Copolymer Films Using a Microwave Assisted Technique. <i>ACS Nano</i> , 2013, 7, 6583-6596.	7.3	67
150	Supercritical-fluid synthesis of FeF ₂ and CoF ₂ Li-ion conversion materials. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10667.	5.2	54
151	Engineering the Growth of Germanium Nanowires by Tuning the Supersaturation of Au/Ge Binary Alloy Catalysts. <i>Chemistry of Materials</i> , 2013, 25, 3096-3104.	3.2	22
152	Manipulating the Growth Kinetics of Vapor-Liquid-Solid Propagated Ge Nanowires. <i>Nano Letters</i> , 2013, 13, 4044-4052.	4.5	51
153	Highly stable PEGylated gold nanoparticles in water: applications in biology and catalysis. <i>RSC Advances</i> , 2013, 3, 21016.	1.7	49
154	Carbon nanocage supported synthesis of V ₂ O ₅ nanorods and V ₂ O ₅ /TiO ₂ nanocomposites for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12568.	5.2	39
155	An AC-assisted single-nanowire electromechanical switch. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7134.	2.7	13
156	Palladium-Catalyzed Coupling Reactions for the Functionalization of Si Surfaces: Superior Stability of Alkenyl Monolayers. <i>Langmuir</i> , 2013, 29, 11950-11958.	1.6	15
157	Containing the catalyst: diameter controlled Ge nanowire growth. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4450.	2.7	11
158	Fabrication of a sub-10 nm silicon nanowire based ethanol sensor using block copolymer lithography. <i>Nanotechnology</i> , 2013, 24, 065503.	1.3	30
159	Fabrication of Arrays of Lead Zirconate Titanate (PZT) Nanodots via Block Copolymer Self-Assembly. <i>Chemistry of Materials</i> , 2013, 25, 1458-1463.	3.2	31
160	Chemical oxidation of mesoporous carbon foams for lead ion adsorption. <i>Separation and Purification Technology</i> , 2013, 104, 150-159.	3.9	63
161	Molecularly Functionalized Silicon Substrates for Orientation Control of the Microphase Separation of PS- <i>b</i> -PMMA and PS- <i>b</i> -PDMS Block Copolymer Systems. <i>Langmuir</i> , 2013, 29, 2809-2820.	1.6	30
162	Ferroelectric nanoparticles, wires and tubes: synthesis, characterisation and applications. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2618.	2.7	153

#	ARTICLE	IF	CITATIONS
163	PEGylated gold nanoparticles: polymer quantification as a function of PEG lengths and nanoparticle dimensions. RSC Advances, 2013, 3, 6085-6094.	1.7	262
164	Sub-10 nm Feature Size PS- <i>b</i> -PDMS Block Copolymer Structures Fabricated by a Microwave-Assisted Solvothermal Process. ACS Applied Materials & Interfaces, 2013, 5, 2004-2012.	4.0	74
165	Directed self-assembly of PS- <i>b</i> -PMMA block copolymer using HSQ lines for translational alignment. Journal of Materials Chemistry C, 2013, 1, 1192-1196.	2.7	13
166	Orientation and Alignment Control of Microphase-Separated PS- <i>b</i> -PDMS Substrate Patterns via Polymer Brush Chemistry. ACS Applied Materials & Interfaces, 2013, 5, 88-97.	4.0	36
167	The sensitivity of random polymer brush-lamellar polystyrene- <i>b</i> -polymethylmethacrylate block copolymer systems to process conditions. Journal of Colloid and Interface Science, 2013, 393, 192-202.	5.0	12
168	Tuning PDMS Brush Chemistry by UV ³ Exposure for PS- <i>b</i> -PDMS Microphase Separation and Directed Self-assembly. Langmuir, 2013, 29, 8959-8968.	1.6	13
169	Functionalized 3D 7x20-array of vertically stacked SiNW FET for streptavidin sensing. , 2013, , .		2
170	Self-Seeded Growth of Germanium Nanowires: Coalescence and Ostwald Ripening. Chemistry of Materials, 2013, 25, 215-222.	3.2	34
171	Electrical properties of platinum interconnects deposited by electron beam induced deposition of the carbon-free precursor, Pt(PF ₃) ₄ . Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2013, 31, .	0.6	9
172	Probing the origin of in situ generated nanoparticles as sustainable oxidation catalysts. Dalton Transactions, 2013, 42, 12600.	1.6	10
173	FIB Patterning of Stainless Steel for the Development of Nano-structured Stent Surfaces for Cardiovascular Applications. Lecture Notes in Nanoscale Science and Technology, 2013, , 391-416.	0.4	0
174	Size and space controlled hexagonal arrays of superparamagnetic iron oxide nanodots: magnetic studies and application. Scientific Reports, 2013, 3, 2772.	1.6	36
175	Application of Ge Nanowire for Two-Input Bistable Nanoelectromechanical Switch. Medziagotyra, 2013, 19, .	0.1	6
176	Contact resistivity and suppression of Fermi level pinning in side-contacted germanium nanowires. Applied Physics Letters, 2013, 103, .	1.5	12
177	A miniaturised autonomous sensor based on nanowire materials platform: the SiNAPS mote. , 2013, , .		2
178	Fabrication of Germanium Nanowire Arrays by Block Copolymer Lithography. Science of Advanced Materials, 2013, 5, 782-787.	0.1	3
179	Resistive substrate interface tailoring for generating high-density arrays of Ge and Bi ₂ Se ₃ nanowires by electron beam lithography. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2012, 30, .	0.6	17
180	Block Copolymer Self-assembly on Ethylene Glycol (EG) Self-assembled Monolayer (SAM) for Nanofabrication. Materials Research Society Symposia Proceedings, 2012, 1450, 1.	0.1	0

#	ARTICLE	IF	CITATIONS
181	Correlative Microscopy Study of FIB Patterned Stainless Steel Surfaces as Novel Nano-Structured Stents for Cardiovascular Applications. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1466, 26.	0.1	1
182	In situ hard mask materials: a new methodology for creation of vertical silicon nanopillar and nanowire arrays. <i>Nanoscale</i> , 2012, 4, 7743.	2.8	45
183	The stability of Ce_2O_3 nanodots in ambient conditions: a study using block copolymer templated structures. <i>Journal of Materials Chemistry</i> , 2012, 22, 22949.	6.7	35
184	Block copolymer lithography: Feature size control and extension by an over-etch technique. <i>Thin Solid Films</i> , 2012, 522, 318-323.	0.8	21
185	Porous to Nonporous Transition in the Morphology of Metal Assisted Etched Silicon Nanowires. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 11PE03.	0.8	5
186	Surface Roughness Assisted Growth of Vertically Oriented Ferroelectric SbSI Nanorods. <i>Chemistry of Materials</i> , 2012, 24, 3279-3284.	3.2	28
187	Non-solvolytic synthesis of aqueous soluble TiO ₂ nanoparticles and real-time dynamic measurements of the nanoparticle formation. <i>Nanoscale Research Letters</i> , 2012, 7, 297.	3.1	10
188	Large-scale parallel arrays of silicon nanowires via block copolymer directed self-assembly. <i>Nanoscale</i> , 2012, 4, 3228.	2.8	59
189	Mechanical constraint and release generates long, ordered horizontal pores in anodic alumina templates. <i>Nanotechnology</i> , 2012, 23, 175602.	1.3	5
190	Freestanding bucky paper with high strength from multi-wall carbon nanotubes. <i>Materials Chemistry and Physics</i> , 2012, 135, 921-927.	2.0	22
191	Selective Sidewall Wetting of Polymer Blocks in Hydrogen Silsesquioxane Directed Self-Assembly of PS- <i>b</i> -PDMS. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 4637-4642.	4.0	28
192	Nanoscale Ferroelectric and Piezoelectric Properties of Sb_2S_3 Nanowire Arrays. <i>Nano Letters</i> , 2012, 12, 868-872.	4.5	61
193	A general method for controlled nanopatterning of oxide dots: a microphase separated block copolymer platform. <i>Journal of Materials Chemistry</i> , 2012, 22, 12083.	6.7	56
194	Inherent Control of Growth, Morphology, and Defect Formation in Germanium Nanowires. <i>Nano Letters</i> , 2012, 12, 5654-5663.	4.5	31
195	Semiconductor Nanowire Fabrication by Bottom-Up and Top-Down Paradigms. <i>Chemistry of Materials</i> , 2012, 24, 1975-1991.	3.2	268
196	Brushless and controlled microphase separation of lamellar polystyrene- <i>b</i> -polyethylene oxide thin films for block copolymer nanolithography. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 904-909.	2.4	5
197	Amine-functionalised SBA-15 of tailored pore size for heavy metal adsorption. <i>Journal of Colloid and Interface Science</i> , 2012, 369, 330-337.	5.0	94
198	Unusual trend of increasing selectivity and decreasing flux with decreasing thickness in pervaporation separation of ethanol/water mixtures using sodium alginate blend membranes. <i>Journal of Colloid and Interface Science</i> , 2012, 370, 176-182.	5.0	13

#	ARTICLE	IF	CITATIONS
199	Size-tuneable synthesis of nickel nanoparticles. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	35
200	Porous to Nonporous Transition in the Morphology of Metal Assisted Etched Silicon Nanowires. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 11PE03.	0.8	5
201	Microwave-assisted synthesis of icosahedral nickel nanocrystals. <i>CrystEngComm</i> , 2011, 13, 2023.	1.3	15
202	Chemical functionalisation of silicon and germanium nanowires. <i>Journal of Materials Chemistry</i> , 2011, 21, 11052.	6.7	59
203	Proximal oxidation as a director of self-organisation. <i>Journal of Materials Chemistry</i> , 2011, 21, 8772.	6.7	3
204	Planarized and Nanopatterned Mesoporous Silica Thin Films by Chemical-Mechanical Polishing of Gap-Filled Topographically Patterned Substrates. <i>IEEE Nanotechnology Magazine</i> , 2011, 10, 451-461.	1.1	3
205	Surface Energy Driven Agglomeration and Growth of Single Crystal Metal Wires. <i>Nano Letters</i> , 2011, 11, 1294-1299.	4.5	22
206	Defect Transfer from Nanoparticles to Nanowires. <i>Nano Letters</i> , 2011, 11, 1550-1555.	4.5	52
207	Synthesis and Magnetic Characterization of Coaxial Ge _{1-x} Mn _x /a-Si Heterostructures. <i>Crystal Growth and Design</i> , 2011, 11, 5253-5259.	1.4	4
208	Fabrication and Characterization of Single-Crystal Metal-Assisted Chemically Etched Rough Si Nanowires for Lithium-Ion Battery Anodes. <i>ECS Transactions</i> , 2011, 35, 25-34.	0.3	7
209	Raman Scattering Spectroscopy of Metal-Assisted Chemically Etched Rough Si Nanowires. <i>ECS Transactions</i> , 2011, 35, 73-86.	0.3	4
210	Organic Functionalization of Germanium Nanowires using Arenediazonium Salts. <i>Chemistry of Materials</i> , 2011, 23, 1883-1891.	3.2	38
211	Cyclical "Flipping" of Morphology in Block Copolymer Thin Films. <i>ACS Nano</i> , 2011, 5, 4617-4623.	7.3	69
212	Surface-Directed Dewetting of a Block Copolymer for Fabricating Highly Uniform Nanostructured Microdroplets and Concentric Nanorings. <i>ACS Nano</i> , 2011, 5, 1073-1085.	7.3	39
213	Diameter-Controlled Solid-Phase Seeding of Germanium Nanowires: Structural Characterization and Electrical Transport Properties. <i>Chemistry of Materials</i> , 2011, 23, 3335-3340.	3.2	48
214	Improved photocatalytic degradation rates of phenol achieved using novel porous ZrO ₂ -doped TiO ₂ nanoparticulate powders. <i>Journal of Hazardous Materials</i> , 2011, 193, 120-127.	6.5	49
215	Carbon nanocages as heavy metal ion adsorbents. <i>Desalination</i> , 2011, 280, 87-94.	4.0	18
216	Development of chemically engineered porous metal oxides for phosphate removal. <i>Journal of Hazardous Materials</i> , 2011, 185, 382-391.	6.5	106

#	ARTICLE	IF	CITATIONS
217	The morphology and structure of PS- <i>b</i> -P4VP block copolymer films by solvent annealing: effect of the solvent parameter. <i>Polymers for Advanced Technologies</i> , 2011, 22, 915-923.	1.6	49
218	Nitrogen-Doped Carbon Nanotubes: Growth, Mechanism and Structure. <i>ChemPhysChem</i> , 2011, 12, 2995-3001.	1.0	26
219	Syntheses of complex mesoporous silicas using mixtures of nonionic block copolymer surfactants: Understanding formation of different structures using solubility parameters. <i>Journal of Colloid and Interface Science</i> , 2011, 353, 169-180.	5.0	23
220	Facile Synthesis of Monodisperse ZnO Nanocrystals by Direct Liquid Phase Precipitation. <i>Journal of Nanomaterials</i> , 2011, 2011, 1-9.	1.5	5
221	(Invited) Functionalization of Germanium Nanowires. <i>ECS Transactions</i> , 2011, 35, 89-99.	0.3	2
222	Self-assembled templates for the generation of arrays of 1-dimensional nanostructures: From molecules to devices. <i>Journal of Colloid and Interface Science</i> , 2010, 349, 449-472.	5.0	43
223	Synthesis and applications of one-dimensional semiconductors. <i>Progress in Materials Science</i> , 2010, 55, 563-627.	16.0	450
224	Magnetic properties of Ni nanoparticles on microporous silica spheres. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 1269-1274.	1.0	13
225	Time-resolved SAXS studies of periodic mesoporous organosilicas in anodic alumina membranes. <i>Microporous and Mesoporous Materials</i> , 2010, 130, 203-207.	2.2	11
226	The Rapid Formation of La(OH) ₃ from La ₂ O ₃ Powders on Exposure to Water Vapor. <i>Journal of the American Ceramic Society</i> , 2010, 93, 1187-1194.	1.9	134
227	Growth of Carbon Nanotubes from Heterometallic Palladium and Copper Catalysts. <i>Journal of Physical Chemistry C</i> , 2010, 114, 8115-8119.	1.5	20
228	Monitoring PMMA Elimination by Reactive Ion Etching from a Lamellar PS- <i>b</i> -PMMA Thin Film by ex Situ TEM Methods. <i>Macromolecules</i> , 2010, 43, 8651-8655.	2.2	59
229	Unusual magnetism in templated NiS nanoparticles. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 076001.	0.7	13
230	Germanium Nanowire Synthesis from Fluorothiolate-Capped Gold Nanoparticles in Supercritical Carbon Dioxide. <i>Chemistry of Materials</i> , 2010, 22, 5235-5243.	3.2	35
231	Alkane and Alkanethiol Passivation of Halogenated Ge Nanowires. <i>Chemistry of Materials</i> , 2010, 22, 6370-6377.	3.2	42
232	Seedless Growth of Sub-10 nm Germanium Nanowires. <i>Journal of the American Chemical Society</i> , 2010, 132, 13742-13749.	6.6	42
233	Supercritical Fluid Synthesis of Magnetic Hexagonal Nanoplatelets of Magnetite. <i>Journal of the American Chemical Society</i> , 2010, 132, 12540-12541.	6.6	47
234	Size-Related Lattice Parameter Changes and Surface Defects in Ceria Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12909-12919.	1.5	154

#	ARTICLE	IF	CITATIONS
235	A Facile Route to ZnO Nanoparticle Superlattices: Synthesis, Functionalization, and Self-Assembly. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2003-2011.	1.5	31
236	Swelling of Ionic and Nonionic Surfactant Micelles by High Pressure Gases. <i>Langmuir</i> , 2010, 26, 7725-7731.	1.6	5
237	Porous silica spheres as indoor air pollutant scavengers. <i>Journal of Environmental Monitoring</i> , 2010, 12, 2244.	2.1	11
238	Chemical Interactions and Their Role in the Microphase Separation of Block Copolymer Thin Films. <i>International Journal of Molecular Sciences</i> , 2009, 10, 3671-3712.	1.8	90
239	Magnetic Properties of Single Crystalline Ge _{1-x} Mn _x Nanowires. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 4085-4088.	1.2	6
240	One-Step Synthesis of Stoichiometrically Defined Metal Oxide Nanoparticles at Room Temperature. <i>Chemistry - A European Journal</i> , 2009, 15, 440-448.	1.7	14
241	The role of etched silicon channels on the pore ordering of mesoporous silica: The importance of film thickness on providing highly orientated and defect-free thin films. <i>Applied Surface Science</i> , 2009, 255, 9333-9342.	3.1	2
242	Synthesis of Porous Silica Foams via a Novel Vacuum-Induced Sol-Gel Method. <i>Journal of the American Ceramic Society</i> , 2009, 92, 2798-2800.	1.9	3
243	Thermally stable nanocrystallised mesoporous zirconia thin films. <i>Microporous and Mesoporous Materials</i> , 2009, 117, 161-164.	2.2	20
244	Large pore bi-functionalised mesoporous silica for metal ion pollution treatment. <i>Journal of Hazardous Materials</i> , 2009, 164, 229-234.	6.5	66
245	Toroid formation in polystyrene-block-poly(4-vinyl pyridine) diblock copolymers: Combined substrate and solvent control. <i>Chemical Physics Letters</i> , 2009, 476, 65-68.	1.2	15
246	Two-Terminal Nanoelectromechanical Devices Based on Germanium Nanowires. <i>Nano Letters</i> , 2009, 9, 1824-1829.	4.5	63
247	Single Crystalline Ge _{1-x} Mn _x Nanowires as Building Blocks for Nanoelectronics. <i>Nano Letters</i> , 2009, 9, 50-56.	4.5	73
248	Pore Directionality and Correlation Lengths of Mesoporous Silica Channels Aligned by Physical Epitaxy. <i>ACS Nano</i> , 2009, 3, 2311-2319.	7.3	14
249	Study on the Combined Effects of Solvent Evaporation and Polymer Flow upon Block Copolymer Self-Assembly and Alignment on Topographic Patterns. <i>Langmuir</i> , 2009, 25, 13551-13560.	1.6	30
250	Synthesis and characterisation of ordered arrays of mesoporous carbon nanofibres. <i>Journal of Materials Chemistry</i> , 2009, 19, 1331.	6.7	42
251	Single step synthesis of Ge-SiO _x core-shell heterostructured nanowires. <i>Journal of Materials Chemistry</i> , 2009, 19, 954.	6.7	13
252	Orientation and Translational Control of PS-b-PEO/PS Thin Films via Solvent Annealing and Graphoepitaxy Techniques. <i>E-Journal of Surface Science and Nanotechnology</i> , 2009, 7, 471-475.	0.1	6

#	ARTICLE	IF	CITATIONS
253	Facile and Controlled Synthesis of Ultra-Thin Low Dielectric Constant Meso/Microporous Silica Films. <i>ChemPhysChem</i> , 2008, 9, 1524-1527.	1.0	12
254	MnS doped mesoporous silica catalysts for the generation of novel carbon nanocages. <i>Applied Catalysis A: General</i> , 2008, 341, 8-11.	2.2	2
255	Synthesis and Electrical and Mechanical Properties of Silicon and Germanium Nanowires. <i>Chemistry of Materials</i> , 2008, 20, 5954-5967.	3.2	89
256	Confined Growth and Crystallography of One-Dimensional Bi ₂ S ₃ , CdS, and SnS _x Nanostructures within Channeled Substrates. <i>Journal of Physical Chemistry C</i> , 2008, 112, 7345-7355.	1.5	25
257	Copper/Molybdenum Nanocomposite Particles as Catalysts for the Growth of Bamboo-Structured Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12201-12206.	1.5	24
258	Thin and continuous films with controlled bi- and tri-modal porosities by embedment of zeolite nanoparticles in a mesoporous matrix. <i>Journal of Materials Chemistry</i> , 2008, 18, 2213.	6.7	10
259	Supercritical Fluid Swelling of Liquid Crystal Films. <i>Langmuir</i> , 2008, 24, 6959-6964.	1.6	7
260	Dynamic Stable Nanostructured Metal Oxide Fractal Films Grown on Flat Substrates. <i>Journal of Physical Chemistry C</i> , 2008, 112, 14286-14291.	1.5	10
261	Growth of Ordered Arrangements of One-Dimensional Germanium Nanostructures with Controllable Crystallinities. <i>Chemistry of Materials</i> , 2008, 20, 1902-1908.	3.2	21
262	Electrical Characterization of Bismuth Sulfide Nanowire Arrays by Conductive Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2008, 112, 19680-19685.	1.5	16
263	SUPERCritical FLUID PROCESSING OF FUNCTIONAL OXIDE CORE-SHELL NANOCABLE ARRAYS. <i>Integrated Ferroelectrics</i> , 2007, 92, 77-86.	0.3	0
264	The application of supercritical fluids in the preparation and processing of mesoporous materials. <i>Studies in Surface Science and Catalysis</i> , 2007, , 1796-1803.	1.5	2
265	In situ studies of order-disorder phenomena in the synthesis of mesoporous silica. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 4823-4829.	1.5	6
266	Polymer nanostructures in sub-micron lithographically defined channels: film-thickness effects on structural alignment of a small feature size polystyrene-polyisoprene-polystyrene block copolymer. <i>Soft Matter</i> , 2007, 3, 916-921.	1.2	20
267	Engineering the magnetic properties of Ge _{1-x} Mnx nanowires. <i>Journal of Applied Physics</i> , 2007, 101, 09H108.	1.1	17
268	Size dependent thermal properties of embedded crystalline germanium nanowires. <i>Journal of Materials Chemistry</i> , 2007, 17, 1608.	6.7	17
269	Oriented Growth of Metal and Semiconductor Nanostructures within Aligned Mesoporous Channels. <i>Chemistry of Materials</i> , 2007, 19, 1376-1381.	3.2	44
270	Supercritical fluid processing of mesoporous crystalline TiO ₂ thin films for highly efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2007, 17, 3888.	6.7	32

#	ARTICLE	IF	CITATIONS
271	Direct Fabrication of Well-Aligned Free-Standing Mesoporous Carbon Nanofiber Arrays on Silicon Substrates. <i>Journal of the American Chemical Society</i> , 2007, 129, 13388-13389.	6.6	75
272	Supercritical Fluid Growth of Porous Carbon Nanocages. <i>Chemistry of Materials</i> , 2007, 19, 3349-3354.	3.2	41
273	Synthesis and swelling of large pore diameter mesoporous silica spheres. <i>Journal of Materials Chemistry</i> , 2007, 17, 3881.	6.7	39
274	Oriented Growth of Single-Crystalline Bi ₂ S ₃ Nanowire Arrays. <i>ChemPhysChem</i> , 2007, 8, 235-240.	1.0	32
275	The Synthesis and Characterisation of Ferromagnetic CaMn ₂ O ₄ Nanowires. <i>ChemPhysChem</i> , 2007, 8, 1694-1700.	1.0	15
276	Synthesis and characterization of nanoparticulate MnS within the pores of mesoporous silica. <i>Journal of Solid State Chemistry</i> , 2007, 180, 3443-3449.	1.4	9
277	The formation of ordered bismuth nanowire arrays within mesoporous silica templates. <i>Materials Chemistry and Physics</i> , 2007, 104, 50-55.	2.0	21
278	Probing of Nanocontacts Inside a Transmission Electron Microscope. <i>Nanoscience and Technology</i> , 2007, , 73-100.	1.5	2
279	Preparation of MCM-48 materials with enhanced hydrothermal stability. <i>Journal of Materials Chemistry</i> , 2006, 16, 4051.	6.7	42
280	Preparation of Oriented Mesoporous Carbon Nano-Filaments within the Pores of Anodic Alumina Membranes. <i>Journal of the American Chemical Society</i> , 2006, 128, 3920-3921.	6.6	72
281	Structural investigation of germanium-cobalt core shell nanocable arrays. <i>Journal of Materials Chemistry</i> , 2006, 16, 3861-3866.	6.7	8
282	Tunable magnetic properties of metal/metal oxide nanoscale coaxial cables. <i>Physical Review B</i> , 2006, 74, .	1.1	24
283	Ultimate-Strength Germanium Nanowires. <i>Nano Letters</i> , 2006, 6, 2964-2968.	4.5	135
284	Synthesis and Characterization of Highly Ordered Cobalt-Magnetite Nanocable Arrays. <i>Small</i> , 2006, 2, 1299-1307.	5.2	38
285	High Density Germanium Nanowire Assemblies: Contact Challenges and Electrical Characterization. <i>Journal of Physical Chemistry B</i> , 2006, 110, 820-826.	1.2	55
286	Methanolysis of styrene oxide catalysed by a highly efficient zirconium-doped mesoporous silica. <i>Applied Catalysis A: General</i> , 2006, 304, 14-20.	2.2	39
287	Controlling morphological, orientational and material properties of mesoporous aluminosilicate films: enabling supercritical fluid deposition of perpendicularly ordered nanowire arrays. <i>Studies in Surface Science and Catalysis</i> , 2005, , 303-314.	1.5	0
288	Temperature dependence of magnetization reversal in Co and Fe ₃ O ₄ nanowire arrays. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 286, 171-176.	1.0	19

#	ARTICLE	IF	CITATIONS
289	Room-temperature ferromagnetism in $\text{Ge}_{1-x}\text{Mn}_x$ nanowires. <i>Physical Review B</i> , 2005, 72, .	1.1	71
290	Strain induced photoluminescence from silicon and germanium nanowire arrays. <i>Journal of Materials Chemistry</i> , 2005, 15, 4809.	6.7	52
291	Probing the magnetic properties of cobalt-germanium nanowire arrays. <i>Journal of Materials Chemistry</i> , 2005, 15, 2408.	6.7	28
292	A highly thermally stable anatase phase prepared by doping with zirconia and silica coupled to a mesoporous type synthesis technique. <i>Journal of Materials Chemistry</i> , 2005, 15, 3494.	6.7	39
293	Large Pore Methylene-Bridged Periodic Mesoporous Organosilicas: Synthesis, Bifunctionalization and Their Use as Nanotemplates. <i>Chemistry of Materials</i> , 2005, 17, 6407-6415.	3.2	26
294	Pore Size Engineering in Mesoporous Silicas Using Supercritical CO_2 . <i>Langmuir</i> , 2005, 21, 4163-4167.	1.6	35
295	Preparation of Mesoporous Titania Thin Films with Remarkably High Thermal Stability. <i>Chemistry of Materials</i> , 2005, 17, 1269-1271.	3.2	53
296	Diels-Alder reactions between maleic anhydride and furan derivatives in supercritical CO_2 . <i>Green Chemistry</i> , 2005, 7, 105-110.	4.6	22
297	Gold Nanoparticle-Modified Etched Capillaries for Open-Tubular Capillary Electrochromatography. <i>Analytical Chemistry</i> , 2005, 77, 1840-1846.	3.2	133
298	Supercritical Fluid Processing of Thermally Stable Mesoporous Titania Thin Films with Enhanced Photocatalytic Activity. <i>Chemistry of Materials</i> , 2005, 17, 4825-4831.	3.2	49
299	Structural and Magnetic Characterization of $\text{Ge}_{0.99}\text{Mn}_{0.01}$ Nanowire Arrays. <i>Chemistry of Materials</i> , 2005, 17, 3615-3619.	3.2	41
300	Bistable nanoelectromechanical devices. <i>Applied Physics Letters</i> , 2004, 84, 4074-4076.	1.5	74
301	The synthesis of matrices of embedded semiconducting nanowires. <i>Faraday Discussions</i> , 2004, 125, 311.	1.6	12
302	Water-in- CO_2 Emulsions: Reaction Vessels for the Production of Tetra-Ethyl Pyrone. <i>Langmuir</i> , 2004, 20, 4386-4390.	1.6	13
303	Pore Expansion in Mesoporous Silicas Using Supercritical Carbon Dioxide. <i>Chemistry of Materials</i> , 2004, 16, 424-427.	3.2	45
304	Conductive films of ordered nanowire arrays. <i>Journal of Materials Chemistry</i> , 2004, 14, 585.	6.7	52
305	Supercritical Fluid Synthesis of Metal and Semiconductor Nanomaterials. <i>ChemInform</i> , 2003, 34, no.	0.1	0
306	Supercritical Fluid Synthesis of Metal and Semiconductor Nanomaterials. <i>Chemistry - A European Journal</i> , 2003, 9, 2144-2150.	1.7	100

#	ARTICLE	IF	CITATIONS
307	Alkylthiol gold nanoparticles in open-tubular capillary electrochromatography. <i>Journal of Chromatography A</i> , 2003, 1004, 181-193.	1.8	72
308	Producing "pH switches"™ in biphasic water-CO ₂ systems. <i>Journal of Supercritical Fluids</i> , 2003, 27, 109-117.	1.6	15
309	pH Switching for the Selective Extraction of Metal Ions into Supercritical CO ₂ . <i>Langmuir</i> , 2003, 19, 3145-3150.	1.6	24
310	Supercritical Fluid Generated Stationary Phases for Liquid Chromatography and Capillary Electrochromatography. <i>Analytical Chemistry</i> , 2003, 75, 5860-5869.	3.2	14
311	Synthesis of Metal and Metal Oxide Nanowire and Nanotube Arrays within a Mesoporous Silica Template. <i>Chemistry of Materials</i> , 2003, 15, 3518-3522.	3.2	190
312	Three Dimensional Architectures of Ultra-High Density Semiconducting Nanowires Deposited on Chip. <i>Journal of the American Chemical Society</i> , 2003, 125, 6284-6288.	6.6	86
313	<title>Metallic and semiconducting nanowires: properties and architectures</title> . , 2003, 5123, 248.		6
314	Control of Pore Morphology in Mesoporous Silicas Synthesized from Triblock Copolymer Templates. <i>Langmuir</i> , 2002, 18, 4996-5001.	1.6	62
315	Size-Selective Dispersion of Dodecanethiol-Coated Nanocrystals in Liquid and Supercritical Ethane by Density Tuning. <i>Journal of Physical Chemistry B</i> , 2002, 106, 2545-2551.	1.2	118
316	Tailoring the Optical Properties of Silicon Nanowire Arrays through Strain. <i>Nano Letters</i> , 2002, 2, 811-816.	4.5	99
317	Synthesis and Characterization of Dimensionally Ordered Semiconductor Nanowires within Mesoporous Silica. <i>Journal of the American Chemical Society</i> , 2001, 123, 7010-7016.	6.6	83
318	Highly Luminescent Silicon Nanocrystals with Discrete Optical Transitions. <i>Journal of the American Chemical Society</i> , 2001, 123, 3743-3748.	6.6	466
319	The Formation of Dimensionally Ordered Silicon Nanowires within Mesoporous Silica. <i>Journal of the American Chemical Society</i> , 2001, 123, 187-188.	6.6	137
320	Steric stabilization of inorganic suspensions in carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2000, 16, 247-260.	1.6	47
321	Steric Stabilization of Nanocrystals in Supercritical CO ₂ Using Fluorinated Ligands. <i>Journal of the American Chemical Society</i> , 2000, 122, 4245-4246.	6.6	122
322	Synthesis of Cadmium Sulfide Q Particles in Water-in-CO ₂ Microemulsions. <i>Langmuir</i> , 1999, 15, 6613-6615.	1.6	125
323	Buffering the Aqueous Phase pH in Water-in-CO ₂ Microemulsions. <i>Journal of Physical Chemistry B</i> , 1999, 103, 5703-5711.	1.2	94
324	Aggregation and solubilisation in near critical CO ₂ studied by scattering methods. <i>Current Opinion in Colloid and Interface Science</i> , 1998, 3, 299-304.	3.4	4

#	ARTICLE	IF	CITATIONS
325	Water-in-CO ₂ Microemulsions Studied by Small-Angle Neutron Scattering. <i>Langmuir</i> , 1997, 13, 6980-6984.	1.6	131
326	Cadmium-specific formation of metal sulfide α -Q-particles TM by <i>Klebsiella pneumoniae</i> . <i>Microbiology (United Kingdom)</i> , 1997, 143, 2521-2530.	0.7	110
327	Bacterial Cadmium Sulfide Semiconductor Particles: An Assessment of their Photoactivity by EPR Spectroscopy. <i>Photochemistry and Photobiology</i> , 1997, 65, 811-817.	1.3	8
328	Energy-dispersive X-ray analysis of the extracellular cadmium sulfide crystallites of <i>Klebsiella aerogenes</i> . <i>Archives of Microbiology</i> , 1995, 163, 143-147.	1.0	141
329	BACTERIAL PHOTOPROTECTION THROUGH EXTRACELLULAR CADMIUM SULFIDE CRYSTALLITES. <i>Photochemistry and Photobiology</i> , 1995, 62, 1022-1026.	1.3	15