Justin D Holmes

List of Publications by Year in descending order

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329 papers

11,839 citations

56 h-index 43889 91 g-index

338 all docs

338 docs citations

times ranked

338

15995 citing authors

#	Article	IF	Citations
1	Highly Luminescent Silicon Nanocrystals with Discrete Optical Transitions. Journal of the American Chemical Society, 2001, 123, 3743-3748.	13.7	466
2	Synthesis and applications of one-dimensional semiconductors. Progress in Materials Science, 2010, 55, 563-627.	32.8	450
3	Evaluating the performance of nanostructured materials as lithium-ion battery electrodes. Nano Research, 2014, 7, 1-62.	10.4	292
4	Semiconductor Nanowire Fabrication by Bottom-Up and Top-Down Paradigms. Chemistry of Materials, 2012, 24, 1975-1991.	6.7	268
5	PEGylated gold nanoparticles: polymer quantification as a function of PEG lengths and nanoparticle dimensions. RSC Advances, 2013, 3, 6085-6094.	3.6	262
6	Gold nanoparticles enlighten the future of cancer theranostics. International Journal of Nanomedicine, 2017, Volume 12, 6131-6152.	6.7	202
7	Synthesis of Metal and Metal Oxide Nanowire and Nanotube Arrays within a Mesoporous Silica Template. Chemistry of Materials, 2003, 15, 3518-3522.	6.7	190
8	Size-Related Lattice Parameter Changes and Surface Defects in Ceria Nanocrystals. Journal of Physical Chemistry C, 2010, 114, 12909-12919.	3.1	154
9	Ferroelectric nanoparticles, wires and tubes: synthesis, characterisation and applications. Journal of Materials Chemistry C, 2013, 1, 2618.	5.5	153
10	Energy-dispersive X-ray analysis of the extracellular cadmium sulfide crystallites of Klebsiella aerogenes. Archives of Microbiology, 1995, 163, 143-147.	2.2	141
11	The Formation of Dimensionally Ordered Silicon Nanowires within Mesoporous Silica. Journal of the American Chemical Society, 2001, 123, 187-188.	13.7	137
12	Ultimate-Strength Germanium Nanowires. Nano Letters, 2006, 6, 2964-2968.	9.1	135
13	Strategies for Inorganic Incorporation using Neat Block Copolymer Thin Films for Etch Mask Function and Nanotechnological Application. Advanced Materials, 2016, 28, 5586-5618.	21.0	135
14	The Rapid Formation of La(OH) < sub > 3 < / sub > from La < sub > 2 < / sub > O < sub > 3 < / sub > Powders on Exposureto Water Vapor. Journal of the American Ceramic Society, 2010, 93, 1187-1194.	3.8	134
15	Gold Nanoparticle-Modified Etched Capillaries for Open-Tubular Capillary Electrochromatography. Analytical Chemistry, 2005, 77, 1840-1846.	6.5	133
16	Water-in-CO2Microemulsions Studied by Small-Angle Neutron Scattering. Langmuir, 1997, 13, 6980-6984.	3.5	131
17	Synthesis of Cadmium Sulfide Q Particles in Water-in-CO2Microemulsions. Langmuir, 1999, 15, 6613-6615.	3.5	125
18	Steric Stabilization of Nanocrystals in Supercritical CO2 Using Fluorinated Ligands. Journal of the American Chemical Society, 2000, 122, 4245-4246.	13.7	122

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19	Size-Selective Dispersion of Dodecanethiol-Coated Nanocrystals in Liquid and Supercritical Ethane by Density Tuning. Journal of Physical Chemistry B, 2002, 106, 2545-2551.	2.6	118
20	The Origin of Shape Sensitivity in Palladiumâ€Catalyzed Suzuki–Miyaura Cross Coupling Reactions. Angewandte Chemie - International Edition, 2014, 53, 4142-4145.	13.8	116
21	Cadmium-specific formation of metal sulfide  Q-particles' by Klebsiella pneumoniae. Microbiology (United Kingdom), 1997, 143, 2521-2530.	1.8	110
22	Development of chemically engineered porous metal oxides for phosphate removal. Journal of Hazardous Materials, 2011, 185, 382-391.	12.4	106
23	New Generation Electron Beam Resists: A Review. Chemistry of Materials, 2017, 29, 1898-1917.	6.7	101
24	Supercritical Fluid Synthesis of Metal and Semiconductor Nanomaterials. Chemistry - A European Journal, 2003, 9, 2144-2150.	3.3	100
25	Non-equilibrium induction of tin in germanium: towards direct bandgap Ge1â^'xSnx nanowires. Nature Communications, 2016, 7, 11405.	12.8	100
26	Tailoring the Optical Properties of Silicon Nanowire Arrays through Strain. Nano Letters, 2002, 2, 811-816.	9.1	99
27	A facile route to synthesis of S-doped TiO2 nanoparticles for photocatalytic activity. Journal of Molecular Catalysis A, 2015, 406, 51-57.	4.8	96
28	Buffering the Aqueous Phase pH in Water-in-CO2Microemulsions. Journal of Physical Chemistry B, 1999, 103, 5703-5711.	2.6	94
29	Amine-functionalised SBA-15 of tailored pore size for heavy metal adsorption. Journal of Colloid and Interface Science, 2012, 369, 330-337.	9.4	94
30	Chemical Interactions and Their Role in the Microphase Separation of Block Copolymer Thin Films. International Journal of Molecular Sciences, 2009, 10, 3671-3712.	4.1	90
31	Synthesis and Electrical and Mechanical Properties of Silicon and Germanium Nanowires. Chemistry of Materials, 2008, 20, 5954-5967.	6.7	89
32	Emergence of winner-takes-all connectivity paths in random nanowire networks. Nature Communications, 2018, 9, 3219.	12.8	88
33	Three Dimensional Architectures of Ultra-High Density Semiconducting Nanowires Deposited on Chip. Journal of the American Chemical Society, 2003, 125, 6284-6288.	13.7	86
34	An enhanced surface passivation effect in InGaN/GaN disk-in-nanowire light emitting diodes for mitigating Shockley–Read–Hall recombination. Nanoscale, 2015, 7, 16658-16665.	5.6	84
35	Synthesis and Characterization of Dimensionally Ordered Semiconductor Nanowires within Mesoporous Silica. Journal of the American Chemical Society, 2001, 123, 7010-7016.	13.7	83
36	Enhanced Catalytic Activity of High-Index Faceted Palladium Nanoparticles in Suzuki–Miyaura Coupling Due to Efficient Leaching Mechanism. ACS Catalysis, 2014, 4, 3105-3111.	11.2	83

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37	Covalent Functionalization of Few-Layer Black Phosphorus Using Iodonium Salts and Comparison to Diazonium Modified Black Phosphorus. Chemistry of Materials, 2018, 30, 4667-4674.	6.7	79
38	Direct Fabrication of Well-Aligned Free-Standing Mesoporous Carbon Nanofiber Arrays on Silicon Substrates. Journal of the American Chemical Society, 2007, 129, 13388-13389.	13.7	75
39	Bistable nanoelectromechanical devices. Applied Physics Letters, 2004, 84, 4074-4076.	3.3	74
40	Sub-10 nm Feature Size PS- <i>b</i> -PDMS Block Copolymer Structures Fabricated by a Microwave-Assisted Solvothermal Process. ACS Applied Materials & Samp; Interfaces, 2013, 5, 2004-2012.	8.0	74
41	Single Crystalline Ge1-xMnxNanowires as Building Blocks for Nanoelectronics. Nano Letters, 2009, 9, 50-56.	9.1	73
42	Alkylthiol gold nanoparticles in open-tubular capillary electrochromatography. Journal of Chromatography A, 2003, 1004, 181-193.	3.7	72
43	Preparation of Oriented Mesoporous Carbon Nano-Filaments within the Pores of Anodic Alumina Membranes. Journal of the American Chemical Society, 2006, 128, 3920-3921.	13.7	72
44	Room-temperature ferromagnetism inGe1â^'xMnxnanowires. Physical Review B, 2005, 72, .	3.2	71
45	Cyclical "Flipping―of Morphology in Block Copolymer Thin Films. ACS Nano, 2011, 5, 4617-4623.	14.6	69
46	Bioconjugated gold nanoparticles enhance cellular uptake: A proof of concept study for siRNA delivery in prostate cancer cells. International Journal of Pharmaceutics, 2016, 509, 16-27.	5.2	68
47	Swift Nanopattern Formation of PS- <i>b</i> -PMMA and PS- <i>b</i> -PDMS Block Copolymer Films Using a Microwave Assisted Technique. ACS Nano, 2013, 7, 6583-6596.	14.6	67
48	Large pore bi-functionalised mesoporous silica for metal ion pollution treatment. Journal of Hazardous Materials, 2009, 164, 229-234.	12.4	66
49	Two-Terminal Nanoelectromechanical Devices Based on Germanium Nanowires. Nano Letters, 2009, 9, 1824-1829.	9.1	63
50	Chemical oxidation of mesoporous carbon foams for lead ion adsorption. Separation and Purification Technology, 2013, 104, 150-159.	7.9	63
51	Control of Pore Morphology in Mesoporous Silicas Synthesized from Triblock Copolymer Templates. Langmuir, 2002, 18, 4996-5001.	3.5	62
52	Nanoscale Ferroelectric and Piezoelectric Properties of Sb ₂ S ₃ Nanowire Arrays. Nano Letters, 2012, 12, 868-872.	9.1	61
53	Monitoring PMMA Elimination by Reactive Ion Etching from a Lamellar PS-b-PMMA Thin Film byex SituTEM Methods. Macromolecules, 2010, 43, 8651-8655.	4.8	59
54	Chemical functionalisation of silicon and germanium nanowires. Journal of Materials Chemistry, 2011, 21, 11052.	6.7	59

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55	Large-scale parallel arrays of silicon nanowires via block copolymer directed self-assembly. Nanoscale, 2012, 4, 3228.	5.6	59
56	Epitaxial lateral overgrowth of AlN on self-assembled patterned nanorods. Journal of Materials Chemistry C, 2015, 3, 431-437.	5.5	58
57	Stability, Oxidation, and Shape Evolution of PVP-Capped Pd Nanocrystals. Journal of Physical Chemistry C, 2014, 118, 6522-6530.	3.1	57
58	A general method for controlled nanopatterning of oxide dots: a microphase separated block copolymer platform. Journal of Materials Chemistry, 2012, 22, 12083.	6.7	56
59	High Density Germanium Nanowire Assemblies:Â Contact Challenges and Electrical Characterization. Journal of Physical Chemistry B, 2006, 110, 820-826.	2.6	55
60	Pegylation Increases Platelet Biocompatibility of Gold Nanoparticles. Journal of Biomedical Nanotechnology, 2014, 10, 1004-1015.	1.1	55
61	Supercritical-fluid synthesis of FeF2 and CoF2 Li-ion conversion materials. Journal of Materials Chemistry A, 2013, 1, 10667.	10.3	54
62	Preparation of Mesoporous Titania Thin Films with Remarkably High Thermal Stability. Chemistry of Materials, 2005, 17, 1269-1271.	6.7	53
63	Recent advances in the growth of germanium nanowires: synthesis, growth dynamics and morphology control. Journal of Materials Chemistry C, 2014, 2, 14-33.	5.5	53
64	Conductive films of ordered nanowire arrays. Journal of Materials Chemistry, 2004, 14, 585.	6.7	52
65	Strain induced photoluminescence from silicon and germanium nanowire arrays. Journal of Materials Chemistry, 2005, 15, 4809.	6.7	52
66	Defect Transfer from Nanoparticles to Nanowires. Nano Letters, 2011, 11, 1550-1555.	9.1	52
67	Manipulating the Growth Kinetics of Vapor–Liquid–Solid Propagated Ge Nanowires. Nano Letters, 2013, 13, 4044-4052.	9.1	51
68	Supercritical Fluid Processing of Thermally Stable Mesoporous Titania Thin Films with Enhanced Photocatalytic Activity. Chemistry of Materials, 2005, 17, 4825-4831.	6.7	49
69	Improved photocatalytic degradation rates of phenol achieved using novel porous ZrO2-doped TiO2 nanoparticulate powders. Journal of Hazardous Materials, 2011, 193, 120-127.	12.4	49
70	The morphology and structure of PSâ€bâ€P4VP block copolymer films by solvent annealing: effect of the solvent parameter. Polymers for Advanced Technologies, 2011, 22, 915-923.	3.2	49
71	Highly stable PEGylated gold nanoparticles in water: applications in biology and catalysis. RSC Advances, 2013, 3, 21016.	3.6	49
72	Diameter-Controlled Solid-Phase Seeding of Germanium Nanowires: Structural Characterization and Electrical Transport Properties. Chemistry of Materials, 2011, 23, 3335-3340.	6.7	48

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73	Steric stabilization of inorganic suspensions in carbon dioxide. Journal of Supercritical Fluids, 2000, 16, 247-260.	3.2	47
74	Supercritical Fluid Synthesis of Magnetic Hexagonal Nanoplatelets of Magnetite. Journal of the American Chemical Society, 2010, 132, 12540-12541.	13.7	47
75	Aligned silicon nanofins <i>via</i> the directed self-assembly of PS- <i>b</i> -P4VP block copolymer and metal oxide enhanced pattern transfer. Nanoscale, 2015, 7, 6712-6721.	5.6	47
76	Pore Expansion in Mesoporous Silicas Using Supercritical Carbon Dioxide. Chemistry of Materials, 2004, 16, 424-427.	6.7	45
77	"ln situ―hard mask materials: a new methodology for creation of vertical silicon nanopillar and nanowire arrays. Nanoscale, 2012, 4, 7743.	5.6	45
78	A positron annihilation spectroscopic investigation of europium-doped cerium oxide nanoparticles. Nanoscale, 2014, 6, 608-615.	5.6	45
79	Anisamide-targeted gold nanoparticles for siRNA delivery in prostate cancer – synthesis, physicochemical characterisation and in vitro evaluation. Journal of Materials Chemistry B, 2016, 4, 2242-2252.	5.8	45
80	Oriented Growth of Metal and Semiconductor Nanostructures within Aligned Mesoporous Channels. Chemistry of Materials, 2007, 19, 1376-1381.	6.7	44
81	Nonpolar Resistive Switching in Ag@TiO ₂ Core–Shell Nanowires. ACS Applied Materials & amp; Interfaces, 2017, 9, 38959-38966.	8.0	44
82	Self-assembled templates for the generation of arrays of 1-dimensional nanostructures: From molecules to devices. Journal of Colloid and Interface Science, 2010, 349, 449-472.	9.4	43
83	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. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 137, 56-67.	4.3	43
84	Preparation of MCM-48 materials with enhanced hydrothermal stability. Journal of Materials Chemistry, 2006, 16, 4051.	6.7	42
85	Synthesis and characterisation of ordered arrays of mesoporous carbon nanofibres. Journal of Materials Chemistry, 2009, 19, 1331.	6.7	42
86	Alkane and Alkanethiol Passivation of Halogenated Ge Nanowires. Chemistry of Materials, 2010, 22, 6370-6377.	6.7	42
87	Seedless Growth of Sub-10 nm Germanium Nanowires. Journal of the American Chemical Society, 2010, 132, 13742-13749.	13.7	42
88	Structural and Magnetic Characterization of Ge0.99Mn0.01 Nanowire Arrays. Chemistry of Materials, 2005, 17, 3615-3619.	6.7	41
89	Supercritical Fluid Growth of Porous Carbon Nanocages. Chemistry of Materials, 2007, 19, 3349-3354.	6.7	41
90	Revisiting Conversion Reaction Mechanisms in Lithium Batteries: Lithiation-Driven Topotactic Transformation in FeF ₂ . Journal of the American Chemical Society, 2018, 140, 17915-17922.	13.7	41

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91	Evaluating the Surface Chemistry of Black Phosphorus during Ambient Degradation. Langmuir, 2019, 35, 2172-2178.	3.5	41
92	A highly thermally stable anatase phase prepared by doping with zirconia and silica coupled to a mesoporous type synthesis technique. Journal of Materials Chemistry, 2005, 15, 3494.	6.7	39
93	Methanolysis of styrene oxide catalysed by a highly efficient zirconium-doped mesoporous silica. Applied Catalysis A: General, 2006, 304, 14-20.	4.3	39
94	Synthesis and swelling of large pore diameter mesoporous silica spheres. Journal of Materials Chemistry, 2007, 17, 3881.	6.7	39
95	Surface-Directed Dewetting of a Block Copolymer for Fabricating Highly Uniform Nanostructured Microdroplets and Concentric Nanorings. ACS Nano, 2011, 5, 1073-1085.	14.6	39
96	Carbon nanocage supported synthesis of V2O5 nanorods and V2O5/TiO2 nanocomposites for Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 12568.	10.3	39
97	Synthesis and Characterization of Highly Ordered Cobalt–Magnetite Nanocable Arrays. Small, 2006, 2, 1299-1307.	10.0	38
98	Organic Functionalization of Germanium Nanowires using Arenediazonium Salts. Chemistry of Materials, 2011, 23, 1883-1891.	6.7	38
99	Organo-arsenic Molecular Layers on Silicon for High-Density Doping. ACS Applied Materials & Samp; Interfaces, 2015, 7, 15514-15521.	8.0	38
100	Germanium Oxide Removal by Citric Acid and Thiol Passivation from Citric Acid-Terminated Ge(100). Langmuir, 2014, 30, 14123-14127.	3.5	37
101	Comparing Thermal and Chemical Removal of Nanoparticle Stabilizing Ligands: Effect on Catalytic Activity and Stability. ACS Applied Nano Materials, 2018, 1, 7129-7138.	5.0	37
102	Orientation and Alignment Control of Microphase-Separated PS-b-PDMS Substrate Patterns via Polymer Brush Chemistry. ACS Applied Materials & Samp; Interfaces, 2013, 5, 88-97.	8.0	36
103	Size and space controlled hexagonal arrays of superparamagnetic iron oxide nanodots: magnetic studies and application. Scientific Reports, 2013, 3, 2772.	3.3	36
104	Defect Chemistry and Vacancy Concentration of Luminescent Europium Doped Ceria Nanoparticles by the Solvothermal Method. Journal of Physical Chemistry C, 2014, 118, 10700-10710.	3.1	36
105	Evaluation of the physicochemical properties and the biocompatibility of polyethylene glycol-conjugated gold nanoparticles: A formulation strategy for siRNA delivery. Colloids and Surfaces B: Biointerfaces, 2015, 135, 604-612.	5.0	36
106	Pore Size Engineering in Mesoporous Silicas Using Supercritical CO2. Langmuir, 2005, 21, 4163-4167.	3.5	35
107	Germanium Nanowire Synthesis from Fluorothiolate-Capped Gold Nanoparticles in Supercritical Carbon Dioxide. Chemistry of Materials, 2010, 22, 5235-5243.	6.7	35
108	The stability of "Ce2O3―nanodots in ambient conditions: a study using block copolymer templated structures. Journal of Materials Chemistry, 2012, 22, 22949.	6.7	35

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109	Size-tuneable synthesis of nickel nanoparticles. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	35
110	Fabrication of Ordered, Large Scale, Horizontallyâ€Aligned Si Nanowire Arrays Based on an In Situ Hard Mask Block Copolymer Approach. Advanced Materials, 2014, 26, 1207-1216.	21.0	35
111	Self-Seeded Growth of Germanium Nanowires: Coalescence and Ostwald Ripening. Chemistry of Materials, 2013, 25, 215-222.	6.7	34
112	Study of the Kinetics and Mechanism of Rapid Self-Assembly in Block Copolymer Thin Films during Solvo-Microwave Annealing. Langmuir, 2014, 30, 10728-10739.	3.5	34
113	Engineering Metallic Nanoparticles for Enhancing and Probing Catalytic Reactions. Advanced Materials, 2016, 28, 5689-5695.	21.0	34
114	Progress on Germanium–Tin Nanoscale Alloys. Chemistry of Materials, 2020, 32, 4383-4408.	6.7	34
115	Supercritical fluid processing of mesoporous crystalline TiO2 thin films for highly efficient dye-sensitized solar cells. Journal of Materials Chemistry, 2007, 17, 3888.	6.7	32
116	Oriented Growth of Single-Crystalline Bi2S3 Nanowire Arrays. ChemPhysChem, 2007, 8, 235-240.	2.1	32
117	3D Vanadium Oxide Inverse Opal Growth by Electrodeposition. Journal of the Electrochemical Society, 2015, 162, D605-D612.	2.9	32
118	A Facile Route to ZnO Nanoparticle Superlattices: Synthesis, Functionalization, and Self-Assembly. Journal of Physical Chemistry C, 2010, 114 , $2003-2011$.	3.1	31
119	Inherent Control of Growth, Morphology, and Defect Formation in Germanium Nanowires. Nano Letters, 2012, 12, 5654-5663.	9.1	31
120	Fabrication of Arrays of Lead Zirconate Titanate (PZT) Nanodots via Block Copolymer Self-Assembly. Chemistry of Materials, 2013, 25, 1458-1463.	6.7	31
121	Study on the Combined Effects of Solvent Evaporation and Polymer Flow upon Block Copolymer Self-Assembly and Alignment on Topographic Patterns. Langmuir, 2009, 25, 13551-13560.	3.5	30
122	Fabrication of a sub-10 nm silicon nanowire based ethanol sensor using block copolymer lithography. Nanotechnology, 2013, 24, 065503.	2.6	30
123	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. Langmuir, 2013, 29, 2809-2820.	3.5	30
124	One-Step Fabrication of GeSn Branched Nanowires. Chemistry of Materials, 2019, 31, 4016-4024.	6.7	30
125	Bioconjugated Gold Nanoparticles Enhance siRNA Delivery in Prostate Cancer Cells. Methods in Molecular Biology, 2019, 1974, 291-301.	0.9	30
126	Probing the magnetic properties of cobalt–germanium nanocable arrays. Journal of Materials Chemistry, 2005, 15, 2408.	6.7	28

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127	Surface Roughness Assisted Growth of Vertically Oriented Ferroelectric SbSI Nanorods. Chemistry of Materials, 2012, 24, 3279-3284.	6.7	28
128	Selective Sidewall Wetting of Polymer Blocks in Hydrogen Silsesquioxane Directed Self-Assembly of PS- <i>b</i> -PDMS. ACS Applied Materials & Interfaces, 2012, 4, 4637-4642.	8.0	28
129	Positively charged, surfactant-free gold nanoparticles for nucleic acid delivery. RSC Advances, 2015, 5, 17862-17871.	3.6	28
130	Monolayer Doping of Si with Improved Oxidation Resistance. ACS Applied Materials & Earn; Interfaces, 2016, 8, 4101-4108.	8.0	28
131	Large Pore Methylene-Bridged Periodic Mesoporous Organosilicas:  Synthesis, Bifunctionalization and Their Use as Nanotemplates. Chemistry of Materials, 2005, 17, 6407-6415.	6.7	26
132	Nitrogenâ€Doped Carbon Nanotubes: Growth, Mechanism and Structure. ChemPhysChem, 2011, 12, 2995-3001.	2.1	26
133	Elucidating Structure–Property Relationships in the Design of Metal Nanoparticle Catalysts for the Activation of Molecular Oxygen. ACS Catalysis, 2015, 5, 3807-3816.	11.2	26
134	Oevelopment of anisamide-targeted PEGylated gold nanorods to deliver epirubicin for chemo-photothermal therapy in tumor-bearing mice. International Journal of Nanomedicine, 2019, Volume 14, 1817-1833.	6.7	26
135	Confined Growth and Crystallography of One-Dimensional Bi ₂ S ₃ , CdS, and SnS <i>_x</i> Nanostructures within Channeled Substrates. Journal of Physical Chemistry C, 2008, 112, 7345-7355.	3.1	25
136	Rapid, Low-Temperature Synthesis of Germanium Nanowires from Oligosilylgermane Precursors. Chemistry of Materials, 2017, 29, 4351-4360.	6.7	25
137	Two-Dimensional SnSe Nanonetworks: Growth and Evaluation for Li-Ion Battery Applications. ACS Applied Energy Materials, 2020, 3, 6602-6610.	5.1	25
138	pH Switching for the Selective Extraction of Metal lons into Supercritical CO2. Langmuir, 2003, 19, 3145-3150.	3.5	24
139	Tunable magnetic properties of metal/metal oxide nanoscale coaxial cables. Physical Review B, 2006, 74,	3.2	24
140	Copper/Molybdenum Nanocomposite Particles as Catalysts for the Growth of Bamboo-Structured Carbon Nanotubes. Journal of Physical Chemistry C, 2008, 112, 12201-12206.	3.1	24
141	Characterisation of a novel electron beam lithography resist, SML and its comparison to PMMA and ZEP resists. Microelectronic Engineering, 2014, 123, 126-130.	2.4	24
142	Syntheses of complex mesoporous silicas using mixtures of nonionic block copolymer surfactants: Understanding formation of different structures using solubility parameters. Journal of Colloid and Interface Science, 2011, 353, 169-180.	9.4	23
143	Electrical characterization of high performance, liquid gated vertically stacked SiNW-based 3D FET biosensors. Sensors and Actuators B: Chemical, 2014, 199, 291-300.	7.8	23
144	Absence of Evidence ≠Evidence of Absence: Statistical Analysis of Inclusions in Multiferroic Thin Films. Scientific Reports, 2015, 4, 5712.	3.3	23

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145	Parallel Arrays of Sub-10 nm Aligned Germanium Nanofins from an In Situ Metal Oxide Hardmask using Directed Self-Assembly of Block Copolymers. Chemistry of Materials, 2015, 27, 6091-6096.	6.7	23
146	Probing Thermal Flux in Twinned Ge Nanowires through Raman Spectroscopy. ACS Applied Materials & Lamp; Interfaces, 2015, 7, 24679-24685.	8.0	23
147	Fabrication of MoS ₂ Nanowire Arrays and Layered Structures via the Selfâ€Assembly of Block Copolymers. Advanced Materials Interfaces, 2016, 3, 1500596.	3.7	23
148	Diels–Alder reactions between maleic anhydride and furan derivatives in supercritical CO2. Green Chemistry, 2005, 7, 105-110.	9.0	22
149	Surface Energy Driven Agglomeration and Growth of Single Crystal Metal Wires. Nano Letters, 2011, 11, 1294-1299.	9.1	22
150	Freestanding bucky paper with high strength from multi-wall carbon nanotubes. Materials Chemistry and Physics, 2012, 135, 921-927.	4.0	22
151	Engineering the Growth of Germanium Nanowires by Tuning the Supersaturation of Au/Ge Binary Alloy Catalysts. Chemistry of Materials, 2013, 25, 3096-3104.	6.7	22
152	Biomimetic gold nanocomplexes for gene knockdown: Will gold deliver dividends for small interfering RNA nanomedicines?. Nano Research, 2015, 8, 3111-3140.	10.4	22
153	Chemical approaches for doping nanodevice architectures. Nanotechnology, 2016, 27, 342002.	2.6	22
154	The formation of ordered bismuth nanowire arrays within mesoporous silica templates. Materials Chemistry and Physics, 2007, 104, 50-55.	4.0	21
155	Growth of Ordered Arrangements of One-Dimensional Germanium Nanostructures with Controllable Crystallinities. Chemistry of Materials, 2008, 20, 1902-1908.	6.7	21
156	Block copolymer lithography: Feature size control and extension by an over-etch technique. Thin Solid Films, 2012, 522, 318-323.	1.8	21
157	Selective etching of polylactic acid in poly(styrene)â€blockâ€poly(<scp>d,l</scp>)lactide diblock copolymer for nanoscale patterning. Journal of Applied Polymer Science, 2014, 131, .	2.6	21
158	Optimizing Vanadium Pentoxide Thin Films and Multilayers from Dip-Coated Nanofluid Precursors. ACS Applied Materials & Dip-Coated Nanofluid Precursors. ACS Applied Nanoflu	8.0	21
159	Polymer nanostructures in sub-micron lithographically defined channels: film-thickness effects on structural alignment of a small feature size polystyrene–polyisoprene–polystyrene block copolymer. Soft Matter, 2007, 3, 916-921.	2.7	20
160	Thermally stable nanocrystallised mesoporous zirconia thin films. Microporous and Mesoporous Materials, 2009, 117, 161-164.	4.4	20
161	Growth of Carbon Nanotubes from Heterometallic Palladium and Copper Catalysts. Journal of Physical Chemistry C, 2010, 114, 8115-8119.	3.1	20
162	Ultra-High-Density Arrays of Defect-Free AlN Nanorods: A "Space-Filling―Approach. ACS Nano, 2016, 10, 1988-1994.	14.6	20

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163	Functionalization of SiO ₂ Surfaces for Si Monolayer Doping with Minimal Carbon Contamination. ACS Applied Materials & Samp; Interfaces, 2018, 10, 2191-2201.	8.0	20
164	Temperature dependence of magnetization reversal in Co and Fe3O4 nanowire arrays. Journal of Magnetism and Magnetic Materials, 2005, 286, 171-176.	2.3	19
165	Diameter-Controlled Germanium Nanowires with Lamellar Twinning and Polytypes. Chemistry of Materials, 2015, 27, 3408-3416.	6.7	19
166	Morphological evolution of lamellar forming polystyrene-block-poly(4-vinylpyridine) copolymers under solvent annealing. Soft Matter, 2016, 12, 5429-5437.	2.7	19
167	Diagnosis of phosphorus monolayer doping in silicon based on nanowire electrical characterisation. Journal of Applied Physics, 2018, 123, 125701.	2.5	19
168	Crystallographically Controlled Synthesis of SnSe Nanowires: Potential in Resistive Memory Devices. Advanced Materials Interfaces, 2020, 7, 2000474.	3.7	19
169	Carbon nanocages as heavy metal ion adsorbents. Desalination, 2011, 280, 87-94.	8.2	18
170	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.	5.5	18
171	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.	2.9	18
172	Solvent Vapor Annealing of Block Copolymers in Confined Topographies: Commensurability Considerations for Nanolithography. Macromolecular Rapid Communications, 2015, 36, 762-767.	3.9	18
173	Influence of growth kinetics on Sn incorporation in direct band gap Ge _{1â^x} Sn _x nanowires. Journal of Materials Chemistry C, 2018, 6, 8738-8750.	5.5	18
174	Engineering the magnetic properties of Gelâ^'xMnx nanowires. Journal of Applied Physics, 2007, 101, 09H108.	2.5	17
175	Size dependent thermal properties of embedded crystalline germanium nanowires. Journal of Materials Chemistry, 2007, 17, 1608.	6.7	17
176	Resist–substrate interface tailoring for generating high-density arrays of Ge and Bi2Se3 nanowires by electron beam lithography. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2012, 30, .	1.2	17
177	Formation of sub-7 nm feature size PS-b-P4VP block copolymer structures by solvent vapour process. Proceedings of SPIE, 2014, , .	0.8	17
178	Metal-semimetal Schottky diode relying on quantum confinement. Microelectronic Engineering, 2018, 195, 21-25.	2.4	17
179	Oxide removal and stabilization of bismuth thin films through chemically bound thiol layers. RSC Advances, 2018, 8, 33368-33373.	3.6	17
180	Electrical Characterization of Bismuth Sulfide Nanowire Arrays by Conductive Atomic Force Microscopy. Journal of Physical Chemistry C, 2008, 112, 19680-19685.	3.1	16

#	Article	IF	CITATIONS
181	Junctionless nanowire transistor fabricated with high mobility Ge channel. Physica Status Solidi - Rapid Research Letters, 2014, 8, 65-68.	2.4	16
182	Fabrication of ultra-dense sub-10 nm in-plane Si nanowire arrays by using a novel block copolymer method: optical properties. Nanoscale, 2016, 8, 2177-2187.	5.6	16
183	2D Nanosheet Paint from Solvent-Exfoliated Bi ₂ Te ₃ Ink. Chemistry of Materials, 2017, 29, 7390-7400.	6.7	16
184	Preparation of Cytocompatible ITO Neuroelectrodes with Enhanced Electrochemical Characteristics Using a Facile Anodic Oxidation Process. Advanced Functional Materials, 2018, 28, 1605035.	14.9	16
185	Producing â€~pH switches' in biphasic water–CO2 systems. Journal of Supercritical Fluids, 2003, 27, 109-117.	3.2	15
186	The Synthesis and Characterisation of Ferromagnetic CaMn ₂ O ₄ Nanowires. ChemPhysChem, 2007, 8, 1694-1700.	2.1	15
187	BACTERIAL PHOTOPROTECTION THROUGH EXTRACELLULAR CADMIUM SULFIDE CRYSTALLITES. Photochemistry and Photobiology, 1995, 62, 1022-1026.	2.5	15
188	Toroid formation in polystyrene-block-poly(4-vinyl pyridine) diblock copolymers: Combined substrate and solvent control. Chemical Physics Letters, 2009, 476, 65-68.	2.6	15
189	Microwave-assisted synthesis of icosahedral nickel nanocrystals. CrystEngComm, 2011, 13, 2023.	2.6	15
190	Palladium-Catalyzed Coupling Reactions for the Functionalization of Si Surfaces: Superior Stability of Alkenyl Monolayers. Langmuir, 2013, 29, 11950-11958.	3.5	15
191	Space charge limited current mechanism in Bi2S3 nanowires. Journal of Applied Physics, 2016, 119, .	2.5	15
192	Germanium tin alloy nanowires as anode materials for high performance Li-ion batteries. Nanotechnology, 2020, 31, 165402.	2.6	15
193	Supercritical Fluid Generated Stationary Phases for Liquid Chromatography and Capillary Electrochromatography. Analytical Chemistry, 2003, 75, 5860-5869.	6.5	14
194	Oneâ€Step Synthesis of Stoichiometrically Defined Metal Oxide Nanoparticles at Room Temperature. Chemistry - A European Journal, 2009, 15, 440-448.	3.3	14
195	Pore Directionality and Correlation Lengths of Mesoporous Silica Channels Aligned by Physical Epitaxy. ACS Nano, 2009, 3, 2311-2319.	14.6	14
196	Fully CMOS-compatible top-down fabrication of sub-50nm silicon nanowire sensing devices. Microelectronic Engineering, 2014, 118, 47-53.	2.4	14
197	A vertical lamellae arrangement of sub-16 nm pitch (domain spacing) in a microphase separated PS-b-PEO thin film by salt addition. Journal of Materials Chemistry C, 2015, 3, 7216-7227.	5.5	14
198	Assessing Charge Contribution from Thermally Treated Ni Foam as Current Collectors for Li-Ion Batteries. Journal of the Electrochemical Society, 2016, 163, A1805-A1811.	2.9	14

#	Article	IF	CITATIONS
199	Mesoporosity in doped silicon nanowires from metal assisted chemical etching monitored by phonon scattering. Semiconductor Science and Technology, 2016, 31, 014003.	2.0	14
200	Directly Grown Germanium Nanowires from Stainless Steel: High-performing Anodes for Li-lon Batteries. ACS Applied Energy Materials, 2020, 3, 11811-11819.	5.1	14
201	Water-in-CO2Emulsions:Â Reaction Vessels for the Production of Tetra-Ethyl Pyrone. Langmuir, 2004, 20, 4386-4390.	3.5	13
202	Single step synthesis of Ge–SiOx core-shell heterostructured nanowires. Journal of Materials Chemistry, 2009, 19, 954.	6.7	13
203	Magnetic properties of Ni nanoparticles on microporous silica spheres. Journal of Magnetism and Magnetic Materials, 2010, 322, 1269-1274.	2.3	13
204	Unusual magnetism in templated NiS nanoparticles. Journal of Physics Condensed Matter, 2010, 22, 076001.	1.8	13
205	Unusual trend of increasing selectivity and decreasing flux with decreasing thickness in pervaporation separation of ethanol/water mixtures using sodium alginate blend membranes. Journal of Colloid and Interface Science, 2012, 370, 176-182.	9.4	13
206	An AC-assisted single-nanowire electromechanical switch. Journal of Materials Chemistry C, 2013, 1, 7134.	5 . 5	13
207	Directed self-assembly of PS-b-PMMA block copolymer using HSQ lines for translational alignment. Journal of Materials Chemistry C, 2013, 1, 1192-1196.	5.5	13
208	Tuning PDMS Brush Chemistry by UV–O ₃ Exposure for PS- <i>b</i> -PDMS Microphase Separation and Directed Self-assembly. Langmuir, 2013, 29, 8959-8968.	3. 5	13
209	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.	2.8	13
210	The synthesis of matrices of embedded semiconducting nanowires. Faraday Discussions, 2004, 125, 311.	3.2	12
211	Facile and Controlled Synthesis of Ultraâ€Thin Low Dielectric Constant Meso/Microporous Silica Films. ChemPhysChem, 2008, 9, 1524-1527.	2.1	12
212	The sensitivity of random polymer brush-lamellar polystyrene-b-polymethylmethacrylate block copolymer systems to process conditions. Journal of Colloid and Interface Science, 2013, 393, 192-202.	9.4	12
213	Contact resistivity and suppression of Fermi level pinning in side-contacted germanium nanowires. Applied Physics Letters, 2013, 103, .	3.3	12
214	A Highly Efficient Sensor Platform Using Simply Manufactured Nanodot Patterned Substrates. Scientific Reports, 2015, 5, 13270.	3.3	12
215	Investigating the mechanical properties of GeSn nanowires. Nanoscale, 2019, 11, 13612-13619.	5. 6	12
216	Solvent mediated inclusion of metal oxide into block copolymer nanopatterns: Mechanism of oxide formation under UV-Ozone treatment. Polymer, 2019, 173, 197-204.	3.8	12

#	Article	IF	CITATIONS
217	Detection of ultra-low protein concentrations with the simplest possible field effect transistor. Nanotechnology, 2019, 30, 324001.	2.6	12
218	Time-resolved SAXS studies of periodic mesoporous organosilicas in anodic alumina membranes. Microporous and Mesoporous Materials, 2010, 130, 203-207.	4.4	11
219	Porous silica spheres as indoor air pollutant scavengers. Journal of Environmental Monitoring, 2010, 12, 2244.	2.1	11
220	Containing the catalyst: diameter controlled Ge nanowire growth. Journal of Materials Chemistry C, 2013, 1, 4450.	5.5	11
221	Visualising discrete structural transformations in germanium nanowires during ion beam irradiation and subsequent annealing. Nanoscale, 2014, 6, 12890-12897.	5.6	11
222	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, .	1.2	11
223	Embedding colloidal nanoparticles inside mesoporous silica using gas expanded liquids for high loading recyclable catalysts. Catalysis Science and Technology, 2016, 6, 7212-7219.	4.1	11
224	Inducing imperfections in germanium nanowires. Nano Research, 2017, 10, 1510-1523.	10.4	11
225	Development of Ordered, Porous (Sub-25 nm Dimensions) Surface Membrane Structures Using a Block Copolymer Approach. Scientific Reports, 2018, 8, 7252.	3.3	11
226	Thin and continuous films with controlled bi- and tri-modal porosities by embedment of zeolite nanoparticles in a mesoporous matrix. Journal of Materials Chemistry, 2008, 18, 2213.	6.7	10
227	Dynamic Stable Nanostructured Metal Oxide Fractal Films Grown on Flat Substrates. Journal of Physical Chemistry C, 2008, 112, 14286-14291.	3.1	10
228	Non-solvolytic synthesis of aqueous soluble TiO2 nanoparticles and real-time dynamic measurements of the nanoparticle formation. Nanoscale Research Letters, 2012, 7, 297.	5.7	10
229	Probing the origin of in situ generated nanoparticles as sustainable oxidation catalysts. Dalton Transactions, 2013, 42, 12600.	3.3	10
230	Size-controlled growth of germanium nanowires from ternary eutectic alloy catalysts. Journal of Materials Chemistry C, 2014, 2, 4597-4605.	5.5	10
231	Inâ€situ Observations of Nanoscale Effects in Germanium Nanowire Growth with Ternary Eutectic Alloys. Small, 2015, 11, 103-111.	10.0	10
232	Self-Healing Thermal Annealing: Surface Morphological Restructuring Control of GaN Nanorods. Crystal Growth and Design, 2016, 16, 6769-6775.	3.0	10
233	Field-Effect Transistor Figures of Merit for Vapor–Liquid–Solid-Grown Ge _{1-x} Sn <i>_x</i> (<i>x</i> = 0.03–0.09) Nanowire Devices. ACS Applied Electronic Materials, 2020, 2, 1226-1234.	4.3	10
234	Controlled morphology and dimensionality evolution of NiPd bimetallic nanostructures. Journal of Colloid and Interface Science, 2021, 585, 480-489.	9.4	10

#	Article	IF	CITATIONS
235	Synthesis and characterization of nanoparticulate MnS within the pores of mesoporous silica. Journal of Solid State Chemistry, 2007, 180, 3443-3449.	2.9	9
236	Electrical properties of platinum interconnects deposited by electron beam induced deposition of the carbon-free precursor, Pt(PF3)4. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2013, 31, .	1.2	9
237	Development of a facile block copolymer method for creating hard mask patterns integrated into semiconductor manufacturing. Nano Research, 2016, 9, 3116-3128.	10.4	9
238	Liquid-Phase Monolayer Doping of InGaAs with Si-, S-, and Sn-Containing Organic Molecular Layers. ACS Omega, 2017, 2, 1750-1759.	3.5	9
239	Phosphorus monolayer doping (MLD) of silicon on insulator (SOI) substrates. Beilstein Journal of Nanotechnology, 2018, 9, 2106-2113.	2.8	9
240	Nanopatterned protein-polysaccharide thin films by humidity regulated phase separation. Journal of Colloid and Interface Science, 2018, 532, 171-181.	9.4	9
241	Monolayer doping of silicon-germanium alloys: A balancing act between phosphorus incorporation and strain relaxation. Journal of Applied Physics, 2019, 126, .	2.5	9
242	Formation and characterization of Ni, Pt, and Ti stanogermanide contacts on Ge0.92Sn0.08. Thin Solid Films, 2019, 690, 137568.	1.8	9
243	One-Step Grown Carbonaceous Germanium Nanowires and Their Application as Highly Efficient Lithium-Ion Battery Anodes. ACS Applied Energy Materials, 2022, 5, 1922-1932.	5.1	9
244	Bacterial Cadmium Sulfide Semiconductor Particles: An Assessment of their Photoactivity by EPR Spectroscopy. Photochemistry and Photobiology, 1997, 65, 811-817.	2.5	8
245	Structural investigation of germanium–cobalt core shell nanocable arrays. Journal of Materials Chemistry, 2006, 16, 3861-3866.	6.7	8
246	Gold Nanoparticles: Synthesis, Characterization, and Bioconjugation., 2015, , 1-11.		8
247	Epitaxial Post-Implant Recrystallization in Germanium Nanowires. Crystal Growth and Design, 2015, 15, 4581-4590.	3.0	8
248	Ultrahigh Negative Infrared Photoconductance in Highly As-Doped Germanium Nanowires Induced by Hot Electron Trapping. ACS Applied Electronic Materials, 2020, 2, 1934-1942.	4.3	8
249	Supercritical Fluid Swelling of Liquid Crystal Films. Langmuir, 2008, 24, 6959-6964.	3.5	7
250	Fabrication and Characterization of Single-Crystal Metal-Assisted Chemically Etched Rough Si Nanowires for Lithium-Ion Battery Anodes. ECS Transactions, 2011, 35, 25-34.	0.5	7
251	Synthesis of indium nanoparticles at ambient temperature; simultaneous phase transfer and ripening. Journal of Nanoparticle Research, 2016, 18, 363.	1.9	7
252	Modelling doping design in nanowire tunnel-FETs based on group-IV semiconductors. Materials Science in Semiconductor Processing, 2017, 62, 201-204.	4.0	7

#	Article	IF	CITATIONS
253	Synthesis and stability of IR-820 and FITC doped silica nanoparticles. Journal of Colloid and Interface Science, 2017, 490, 294-302.	9.4	7
254	Monolayer Doping of Germanium with Arsenic: A New Chemical Route to Achieve Optimal Dopant Activation. Langmuir, 2020, 36, 9993-10002.	3.5	7
255	Regulated phase separation in nanopatterned protein-polysaccharide thin films by spin coating. Colloids and Surfaces B: Biointerfaces, 2020, 190, 110967.	5.0	7
256	<title>Metallic and semiconducting nanowires: properties and architectures</title> ., 2003, 5123, 248.		6
257	In situ studies of order–disorder phenomena in the synthesis of mesoporous silica. Journal of Non-Crystalline Solids, 2007, 353, 4823-4829.	3.1	6
258	Magnetic Properties of Single Crystalline Ge $\{1 - \{m x\}\}$ Mn $\{m x\}$ Nanowires. IEEE Transactions on Magnetics, 2009, 45, 4085-4088.	2.1	6
259	Application of Ge Nanowire for Two-Input Bistable Nanoelectromechanical Switch. Medziagotyra, 2013, 19, .	0.2	6
260	Application of Electrochemical Impedance for Characterising Arrays of Bi2S3 Nanowires. Electrochimica Acta, 2015, 170, 33-38.	5.2	6
261	Lead-supported germanium nanowire growth. Materials Letters, 2016, 173, 248-251.	2.6	6
262	Extra tension at electrode-nanowire adhesive contacts in nano-electromechanical devices. European Journal of Mechanics, A/Solids, 2017, 66, 412-422.	3.7	6
263	Stretching the Equilibrium Limit of Sn in Ge _{1–<i>></i>} Sn _{<i>></i>} Nanowires: Implications for Field Effect Transistors. ACS Applied Nano Materials, 2021, 4, 1048-1056.	5.0	6
264	A Review of Self-Seeded Germanium Nanowires: Synthesis, Growth Mechanisms and Potential Applications. Nanomaterials, 2021, 11, 2002.	4.1	6
265	Orientation and Translational Control of PS-b-PEO/PS Thin Films via Solvent Annealing and Graphoepitaxy Techniques. E-Journal of Surface Science and Nanotechnology, 2009, 7, 471-475.	0.4	6
266	Swelling of Ionic and Nonionic Surfactant Micelles by High Pressure Gases. Langmuir, 2010, 26, 7725-7731.	3.5	5
267	Facile Synthesis of Monodisperse ZnO Nanocrystals by Direct Liquid Phase Precipitation. Journal of Nanomaterials, 2011, 2011, 1-9.	2.7	5
268	Porous to Nonporous Transition in the Morphology of Metal Assisted Etched Silicon Nanowires. Japanese Journal of Applied Physics, 2012, 51, 11PE03.	1.5	5
269	Mechanical constraint and release generates long, ordered horizontal pores in anodic alumina templates. Nanotechnology, 2012, 23, 175602.	2.6	5
270	Brushless and controlled microphase separation of lamellar polystyreneâ€∢i>b⟨li>â€polyethylene oxide thin films for block copolymer nanolithography. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 904-909.	2.1	5

#	Article	IF	CITATIONS
271	Variation of Selfâ€6eeded Germanium Nanowire Electronic Device Functionality due to Synthesis Condition Determined Surface States. Advanced Materials Interfaces, 2015, 2, 1400469.	3.7	5
272	Switching at the contacts in Ge ₉ Sb ₁ Te ₅ phase-change nanowire devices. Nanotechnology, 2019, 30, 335706.	2.6	5
273	Can sustainable, monodisperse, spherical silica be produced from biomolecules? A review. Applied Nanoscience (Switzerland), 2021, 11, 1777-1804.	3.1	5
274	Application of a Nanoelectromechanical Mass Sensor for the Manipulation and Characterisation of Graphene and Graphite Flakes. Science of Advanced Materials, 2015, 7, 552-557.	0.7	5
275	Porous to Nonporous Transition in the Morphology of Metal Assisted Etched Silicon Nanowires. Japanese Journal of Applied Physics, 2012, 51, 11PE03.	1.5	5
276	Aggregation and solubilisation in near critical CO2 studied by scattering methods. Current Opinion in Colloid and Interface Science, 1998, 3, 299-304.	7.4	4
277	Synthesis and Magnetic Characterization of Coaxial Ge _{1â€"<i>x</i>y} Mn _{<i>x</i>>} /a-Si Heterostructures. Crystal Growth and Design, 2011, 11, 5253-5259.	3.0	4
278	Raman Scattering Spectroscopy of Metal-Assisted Chemically Etched Rough Si Nanowires. ECS Transactions, 2011, 35, 73-86.	0.5	4
279	Attomolar streptavidin and pH, low power sensor based on 3D vertically stacked SiNW FETs., 2014, , .		4
280	Correlation of lithographic performance of the electron beam resists SML and ZEP with their chemical structure. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2015, 33, .	1.2	4
281	Nanophase separation and structural evolution of block copolymer films: A â€ægreen―and â€æclean― supercritical fluid approach. Nano Research, 2015, 8, 1279-1292.	10.4	4
282	AsH3 gas-phase <i>ex situ</i> doping 3D silicon structures. Journal of Applied Physics, 2018, 124, .	2.5	4
283	Synthesis of Porous Silica Foams via a Novel Vacuumâ€Induced Sol–Gel Method. Journal of the American Ceramic Society, 2009, 92, 2798-2800.	3.8	3
284	Proximal oxidation as a director of self-organisation. Journal of Materials Chemistry, 2011, 21, 8772.	6.7	3
285	Planarized and Nanopatterned Mesoporous Silica Thin Films by Chemical-Mechanical Polishing of Gap-Filled Topographically Patterned Substrates. IEEE Nanotechnology Magazine, 2011, 10, 451-461.	2.0	3
286	Graphoepitaxial Directed Selfâ€Assembly of Polystyreneâ€ <i>Block</i> â€Polydimethylsiloxane Block Copolymer on Substrates Functionalized with Hexamethyldisilazane to Fabricate Nanoscale Silicon Patterns. Advanced Materials Interfaces, 2014, 1, 1300102.	3.7	3
287	Fabrication of <i>3</i> - <i>D</i> Nanodimensioned Electric Double Layer Capacitor Structures Using Block Copolymer Templates. Journal of Nanoscience and Nanotechnology, 2014, 14, 5221-5227.	0.9	3
288	Block Co-Polymers for Nanolithography: Rapid Microwave Annealing for Pattern Formation on Substrates. Polymers, 2015, 7, 592-609.	4.5	3

#	Article	IF	CITATIONS
289	In operandi observation of dynamic annealing: A case study of boron in germanium nanowire devices. Applied Physics Letters, 2015, 106, 233109.	3.3	3
290	Stabilization of Black Phosphorus by Sonicationâ€Assisted Simultaneous Exfoliation and Functionalization. Chemistry - A European Journal, 2020, 26, 17581-17587.	3.3	3
291	Fabrication of Germanium Nanowire Arrays by Block Copolymer Lithography. Science of Advanced Materials, 2013, 5, 782-787.	0.7	3
292	Solution phase growth and analysis of super-thin zigzag tin selenide nanoribbons. Nanotechnology, 2022, 33, 135601.	2.6	3
293	Growth and analysis of the tetragonal (ST12) germanium nanowires. Nanoscale, 2022, 14, 2030-2040.	5.6	3
294	Probing lattice dynamics in ST 12 phase germanium nanowires by Raman spectroscopy. Applied Physics Letters, 2021, 119, .	3.3	3
295	The application of supercritical fluids in the preparation and processing of mesoporous materials. Studies in Surface Science and Catalysis, 2007, , 1796-1803.	1.5	2
296	MnS doped mesoporous silica catalysts for the generation of novel carbon nanocages. Applied Catalysis A: General, 2008, 341, 8-11.	4.3	2
297	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. Applied Surface Science, 2009, 255, 9333-9342.	6.1	2
298	(Invited) Functionalization of Germanium Nanowires. ECS Transactions, 2011, 35, 89-99.	0.5	2
299	Functionalized 3D 7×20-array of vertically stacked SiNW FET for streptavidin sensing. , 2013, , .		2
300	A miniaturised autonomous sensor based on nanowire materials platform: the SiNAPS mote. , 2013, , .		2
301	Paintable Films from Chemically Exfoliated 2D Bismuth Telluride Nanosheets. ECS Transactions, 2015, 64, 1-11.	0.5	2
302	Diameter-driven crossover in resistive behaviour of heavily doped self-seeded germanium nanowires. Beilstein Journal of Nanotechnology, 2016, 7, 1284-1288.	2.8	2
303	Optical study of strain-free GeSn nanowires. Proceedings of SPIE, 2017, , .	0.8	2
304	Gate-controlled heat generation in ZnO nanowire FETs. Physical Chemistry Chemical Physics, 2017, 19, 14042-14047.	2.8	2
305	Relative Humidity Dependent Resistance Switching of Bi ₂ S ₃ Nanowires. Journal of Nanomaterials, 2017, 2017, 1-6.	2.7	2
306	A conceptual change in crystallisation mechanisms of oxide materials from solutions in closed systems. Scientific Reports, 2020, 10, 18414.	3.3	2

#	Article	IF	Citations
307	Vapor-Phase Passivation of Chlorine-Terminated Ge(100) Using Self-Assembled Monolayers of Hexanethiol. ACS Applied Materials & Samp; Interfaces, 2020, 12, 29899-29907.	8.0	2
308	Spherical silica particle production by combined biomimetic-Stöber synthesis using renewable sodium caseinate without petrochemical agents. Applied Nanoscience (Switzerland), 2021, 11, 1151-1167.	3.1	2
309	Structural Evolution of Nanophase Separated Block Copolymer Patterns in Supercritical CO2. Nanomaterials, 2021, 11, 669.	4.1	2
310	Probing of Nanocontacts Inside a Transmission Electron Microscope. Nanoscience and Technology, 2007, , 73-100.	1.5	2
311	Correlative Microscopy Study of FIB Patterned Stainless Steel Surfaces as Novel Nano-Structured Stents for Cardiovascular Applications. Materials Research Society Symposia Proceedings, 2012, 1466, 26.	0.1	1
312	Component design and testing for a miniaturised autonomous sensor based on a nanowire materials platform. Microsystem Technologies, 2014, 20, 971-988.	2.0	1
313	Monolayer doping and other strategies in high surface-to-volume ratio silicon devices. , $2018, \ldots$		1
314	Fabrication of Si and Ge nanoarrays through graphoepitaxial directed hardmask block copolymer self-assembly. Journal of Colloid and Interface Science, 2018, 531, 533-543.	9.4	1
315	Probing dipole and quadrupole resonance mode in non-plasmonic nanowire using Raman spectroscopy. Nanotechnology, 2020, 31, 425201.	2.6	1
316	Biomimetic spherical silica production using phosphatidylcholine and soy lecithin. Applied Nanoscience (Switzerland), 2021, 11, 1721-1735.	3.1	1
317	Supercritical Fluid Synthesis of Metal and Semiconductor Nanomaterials. ChemInform, 2003, 34, no.	0.0	0
318	Controlling morphological, orientational and material properties of mesoporous aluminosilicate films: enabling supercritical fluid deposition of perpendicularly ordered nanowire arrays. Studies in Surface Science and Catalysis, 2005, , 303-314.	1.5	0
319	SUPERCRITICAL FLUID PROCESSING OF FUNCTIONAL OXIDE CORE-SHELL NANOCABLE ARRAYS. Integrated Ferroelectrics, 2007, 92, 77-86.	0.7	0
320	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
321	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.	0.8	0
322	Aninsituhard mask block copolymer approach for the fabrication of ordered, large scale, horizontally aligned, Si nanowire arrays on Si substrate. , 2014, , .		0
323	Reduction and control of domain spacing by additive inclusion: Morphology and orientation effects of glycols on microphase separated PS-b-PEO. Journal of Colloid and Interface Science, 2015, 450, 141-150.	9.4	0
324	Nanosize effect in Germanium Nanowire Growth with Binary Metal Alloys. Materials Research Society Symposia Proceedings, 2015, 1751, 13.	0.1	0

#	Article	IF	CITATIONS
325	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.	2.8	O
326	Photocatalytic air-purification: a low-cost, real-time gas detection method. Analytical Methods, 2017, 9, 170-175.	2.7	0
327	Neuromorphic- Inspired Behaviour in Core-Shell Nanowire Networks. , 2018, , .		0
328	Ni, Pt, and Ti stanogermanide formation on Ge0.92Sn0.08. , 2019, , .		0
329	Lattice dynamics of Ge1â^'xSnx alloy nanowires. Nanoscale, 2022, , .	5. 6	0