

Justin D Holmes

List of Publications by Year in descending order

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329
papers

11,839
citations

26630

56
h-index

43889

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.	2.6	3
2	Growth and analysis of the tetragonal (ST12) germanium nanowires. <i>Nanoscale</i> , 2022, 14, 2030-2040.	5.6	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.	5.1	9
4	Lattice dynamics of Ge _{1-x} Sn _x alloy nanowires. <i>Nanoscale</i> , 2022, , .	5.6	0
5	Controlled morphology and dimensionality evolution of NiPd bimetallic nanostructures. <i>Journal of Colloid and Interface Science</i> , 2021, 585, 480-489.	9.4	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.	5.0	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.	3.1	2
8	Structural Evolution of Nanophase Separated Block Copolymer Patterns in Supercritical CO ₂ . <i>Nanomaterials</i> , 2021, 11, 669.	4.1	2
9	Biomimetic spherical silica production using phosphatidylcholine and soy lecithin. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 1721-1735.	3.1	1
10	Can sustainable, monodisperse, spherical silica be produced from biomolecules? A review. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 1777-1804.	3.1	5
11	A Review of Self-Seeded Germanium Nanowires: Synthesis, Growth Mechanisms and Potential Applications. <i>Nanomaterials</i> , 2021, 11, 2002.	4.1	6
12	Probing lattice dynamics in STÄš12 phase germanium nanowires by Raman spectroscopy. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	3
13	Germanium tin alloy nanowires as anode materials for high performance Li-ion batteries. <i>Nanotechnology</i> , 2020, 31, 165402.	2.6	15
14	Stabilization of Black Phosphorus by SonicationÄssisted Simultaneous Exfoliation and Functionalization. <i>Chemistry - A European Journal</i> , 2020, 26, 17581-17587.	3.3	3
15	Monolayer Doping of Germanium with Arsenic: A New Chemical Route to Achieve Optimal Dopant Activation. <i>Langmuir</i> , 2020, 36, 9993-10002.	3.5	7
16	A conceptual change in crystallisation mechanisms of oxide materials from solutions in closed systems. <i>Scientific Reports</i> , 2020, 10, 18414.	3.3	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.	5.1	14
18	Two-Dimensional SnSe Nanonetworks: Growth and Evaluation for Li-Ion Battery Applications. <i>ACS Applied Energy Materials</i> , 2020, 3, 6602-6610.	5.1	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.	3.7	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.	8.0	2
21	Probing dipole and quadrupole resonance mode in non-plasmonic nanowire using Raman spectroscopy. <i>Nanotechnology</i> , 2020, 31, 425201.	2.6	1
22	Regulated phase separation in nanopatterned protein-polysaccharide thin films by spin coating. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 190, 110967.	5.0	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.	4.3	8
24	Progress on Germanium–Tin Nanoscale Alloys. <i>Chemistry of Materials</i> , 2020, 32, 4383-4408.	6.7	34
25	Field-Effect Transistor Figures of Merit for Vapor–Liquid–Solid-Grown Ge _{1-x} Sn _x ($x = 0.03\text{--}0.09$) Nanowire Devices. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1226-1234.	4.3	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, .	2.5	9
27	Investigating the mechanical properties of GeSn nanowires. <i>Nanoscale</i> , 2019, 11, 13612-13619.	5.6	12
28	Formation and characterization of Ni, Pt, and Ti stanogermanide contacts on Ge _{0.92} Sn _{0.08} . <i>Thin Solid Films</i> , 2019, 690, 137568.	1.8	9
29	One-Step Fabrication of GeSn Branched Nanowires. <i>Chemistry of Materials</i> , 2019, 31, 4016-4024.	6.7	30
30	Switching at the contacts in Ge ₉ Sb ₁ Te ₅ phase-change nanowire devices. <i>Nanotechnology</i> , 2019, 30, 335706.	2.6	5
31	Bioconjugated Gold Nanoparticles Enhance siRNA Delivery in Prostate Cancer Cells. <i>Methods in Molecular Biology</i> , 2019, 1974, 291-301.	0.9	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.	3.8	12
33	Detection of ultra-low protein concentrations with the simplest possible field effect transistor. <i>Nanotechnology</i> , 2019, 30, 324001.	2.6	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.	6.7	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.	4.3	43
36	Ni, Pt, and Ti stanogermanide formation on Ge _{0.92} 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.	3.5	41
38	Functionalization of SiO ₂ Surfaces for Si Monolayer Doping with Minimal Carbon Contamination. ACS Applied Materials & Interfaces, 2018, 10, 2191-2201.	8.0	20
39	Diagnosis of phosphorus monolayer doping in silicon based on nanowire electrical characterisation. Journal of Applied Physics, 2018, 123, 125701.	2.5	19
40	Metal-semimetal Schottky diode relying on quantum confinement. Microelectronic Engineering, 2018, 195, 21-25.	2.4	17
41	Preparation of Cytocompatible ITO Neuroelectrodes with Enhanced Electrochemical Characteristics Using a Facile Anodic Oxidation Process. Advanced Functional Materials, 2018, 28, 1605035.	14.9	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.	5.0	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.	13.7	41
45	Oxide removal and stabilization of bismuth thin films through chemically bound thiol layers. RSC Advances, 2018, 8, 33368-33373.	3.6	17
46	Phosphorus monolayer doping (MLD) of silicon on insulator (SOI) substrates. Beilstein Journal of Nanotechnology, 2018, 9, 2106-2113.	2.8	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.	9.4	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.	6.7	79
50	AsH ₃ gas-phase <i>ex situ</i> doping 3D silicon structures. Journal of Applied Physics, 2018, 124, .	2.5	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.	5.5	18
52	Nanopatterned protein-polysaccharide thin films by humidity regulated phase separation. Journal of Colloid and Interface Science, 2018, 532, 171-181.	9.4	9
53	Development of Ordered, Porous (Sub-25 nm Dimensions) Surface Membrane Structures Using a Block Copolymer Approach. Scientific Reports, 2018, 8, 7252.	3.3	11
54	Emergence of winner-takes-all connectivity paths in random nanowire networks. Nature Communications, 2018, 9, 3219.	12.8	88

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55	New Generation Electron Beam Resists: A Review. Chemistry of Materials, 2017, 29, 1898-1917.	6.7	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.	10.4	11
58	Gate-controlled heat generation in ZnO nanowire FETs. Physical Chemistry Chemical Physics, 2017, 19, 14042-14047.	2.8	2
59	Rapid, Low-Temperature Synthesis of Germanium Nanowires from Oligosilylgermane Precursors. Chemistry of Materials, 2017, 29, 4351-4360.	6.7	25
60	Liquid-Phase Monolayer Doping of InGaAs with Si-, S-, and Sn-Containing Organic Molecular Layers. ACS Omega, 2017, 2, 1750-1759.	3.5	9
61	Photocatalytic air-purification: a low-cost, real-time gas detection method. Analytical Methods, 2017, 9, 170-175.	2.7	0
62	Modelling doping design in nanowire tunnel-FETs based on group-IV semiconductors. Materials Science in Semiconductor Processing, 2017, 62, 201-204.	4.0	7
63	Nonpolar Resistive Switching in Ag@TiO ₂ Core-Shell Nanowires. ACS Applied Materials & Interfaces, 2017, 9, 38959-38966.	8.0	44
64	Extra tension at electrode-nanowire adhesive contacts in nano-electromechanical devices. European Journal of Mechanics, A/Solids, 2017, 66, 412-422.	3.7	6
65	2D Nanosheet Paint from Solvent-Exfoliated Bi ₂ Te ₃ Ink. Chemistry of Materials, 2017, 29, 7390-7400.	6.7	16
66	Synthesis and stability of IR-820 and FITC doped silica nanoparticles. Journal of Colloid and Interface Science, 2017, 490, 294-302.	9.4	7
67	Gold nanoparticles enlighten the future of cancer theranostics. International Journal of Nanomedicine, 2017, Volume 12, 6131-6152.	6.7	202
68	Relative Humidity Dependent Resistance Switching of Bi ₂ S ₃ Nanowires. Journal of Nanomaterials, 2017, 2017, 1-6.	2.7	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.	2.8	13
70	Diameter-driven crossover in resistive behaviour of heavily doped self-seeded germanium nanowires. Beilstein Journal of Nanotechnology, 2016, 7, 1284-1288.	2.8	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.	2.8	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, .	1.2	11

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73	Synthesis of indium nanoparticles at ambient temperature; simultaneous phase transfer and ripening. Journal of Nanoparticle Research, 2016, 18, 363.	1.9	7
74	Space charge limited current mechanism in Bi ₂ S ₃ nanowires. Journal of Applied Physics, 2016, 119, .	2.5	15
75	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
76	Morphological evolution of lamellar forming polystyrene-block-poly(4-vinylpyridine) copolymers under solvent annealing. Soft Matter, 2016, 12, 5429-5437.	2.7	19
77	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
78	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
79	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
80	Chemical approaches for doping nanodevice architectures. Nanotechnology, 2016, 27, 342002.	2.6	22
81	Non-equilibrium induction of tin in germanium: towards direct bandgap Ge _{1-x} Sn _x nanowires. Nature Communications, 2016, 7, 11405.	12.8	100
82	Self-Healing Thermal Annealing: Surface Morphological Restructuring Control of GaN Nanorods. Crystal Growth and Design, 2016, 16, 6769-6775.	3.0	10
83	Engineering Metallic Nanoparticles for Enhancing and Probing Catalytic Reactions. Advanced Materials, 2016, 28, 5689-5695.	21.0	34
84	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
85	Fabrication of MoS ₂ Nanowire Arrays and Layered Structures via the Self-Assembly of Block Copolymers. Advanced Materials Interfaces, 2016, 3, 1500596.	3.7	23
86	Monolayer Doping of Si with Improved Oxidation Resistance. ACS Applied Materials & Interfaces, 2016, 8, 4101-4108.	8.0	28
87	Lead-supported germanium nanowire growth. Materials Letters, 2016, 173, 248-251.	2.6	6
88	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
89	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
90	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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91	Mesoporosity in doped silicon nanowires from metal assisted chemical etching monitored by phonon scattering. <i>Semiconductor Science and Technology</i> , 2016, 31, 014003.	2.0	14
92	A Highly Efficient Sensor Platform Using Simply Manufactured Nanodot Patterned Substrates. <i>Scientific Reports</i> , 2015, 5, 13270.	3.3	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, .	1.2	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.	11.2	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.	4.5	3
98	Paintable Films from Chemically Exfoliated 2D Bismuth Telluride Nanosheets. <i>ECS Transactions</i> , 2015, 64, 1-11.	0.5	2
99	Absence of Evidence â‰” Evidence of Absence: Statistical Analysis of Inclusions in Multiferroic Thin Films. <i>Scientific Reports</i> , 2015, 4, 5712.	3.3	23
100	Positively charged, surfactant-free gold nanoparticles for nucleic acid delivery. <i>RSC Advances</i> , 2015, 5, 17862-17871.	3.6	28
101	Epitaxial lateral overgrowth of AlN on self-assembled patterned nanorods. <i>Journal of Materials Chemistry C</i> , 2015, 3, 431-437.	5.5	58
102	Solvent Vapor Annealing of Block Copolymers in Confined Topographies: Commensurability Considerations for Nanolithography. <i>Macromolecular Rapid Communications</i> , 2015, 36, 762-767.	3.9	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.	10.4	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.	5.6	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.	5.6	84
106	Diameter-Controlled Germanium Nanowires with Lamellar Twinning and Polytypes. <i>Chemistry of Materials</i> , 2015, 27, 3408-3416.	6.7	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.	5.5	14
108	Organo-arsenic Molecular Layers on Silicon for High-Density Doping. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 15514-15521.	8.0	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.	9.4	0
110	Application of Electrochemical Impedance for Characterising Arrays of Bi ₂ S ₃ Nanowires. <i>Electrochimica Acta</i> , 2015, 170, 33-38.	5.2	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.	3.7	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.	10.4	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.	3.3	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.	6.7	23
116	3D Vanadium Oxide Inverse Opal Growth by Electrodeposition. <i>Journal of the Electrochemical Society</i> , 2015, 162, D605-D612.	2.9	32
117	Probing Thermal Flux in Twinned Ge Nanowires through Raman Spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 24679-24685.	8.0	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.	5.0	36
119	Epitaxial Post-Implant Recrystallization in Germanium Nanowires. <i>Crystal Growth and Design</i> , 2015, 15, 4581-4590.	3.0	8
120	In-situ Observations of Nanoscale Effects in Germanium Nanowire Growth with Ternary Eutectic Alloys. <i>Small</i> , 2015, 11, 103-111.	10.0	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.	0.7	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.	3.7	3
123	Junctionless nanowire transistor fabricated with high mobility Ge channel. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 8, 65-68.	2.4	16
124	Pegylation Increases Platelet Biocompatibility of Gold Nanoparticles. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 1004-1015.	1.1	55
125	Germanium Oxide Removal by Citric Acid and Thiol Passivation from Citric Acid-Terminated Ge(100). <i>Langmuir</i> , 2014, 30, 14123-14127.	3.5	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.	13.8	116
129	Component design and testing for a miniaturised autonomous sensor based on a nanowire materials platform. Microsystem Technologies, 2014, 20, 971-988.	2.0	1
130	Selective etching of polylactic acid in poly(styrene)-block-poly(ϵ -lactide) diblock copolymer for nanoscale patterning. Journal of Applied Polymer Science, 2014, 131, .	2.6	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.	3.1	36
132	Fully CMOS-compatible top-down fabrication of sub-50nm silicon nanowire sensing devices. Microelectronic Engineering, 2014, 118, 47-53.	2.4	14
133	Optimizing Vanadium Pentoxide Thin Films and Multilayers from Dip-Coated Nanofluid Precursors. ACS Applied Materials & Interfaces, 2014, 6, 2031-2038.	8.0	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.	5.5	53
135	Evaluating the performance of nanostructured materials as lithium-ion battery electrodes. Nano Research, 2014, 7, 1-62.	10.4	292
136	Visualising discrete structural transformations in germanium nanowires during ion beam irradiation and subsequent annealing. Nanoscale, 2014, 6, 12890-12897.	5.6	11
137	A positron annihilation spectroscopic investigation of europium-doped cerium oxide nanoparticles. Nanoscale, 2014, 6, 608-615.	5.6	45
138	Size-controlled growth of germanium nanowires from ternary eutectic alloy catalysts. Journal of Materials Chemistry C, 2014, 2, 4597-4605.	5.5	10
139	Stability, Oxidation, and Shape Evolution of PVP-Capped Pd Nanocrystals. Journal of Physical Chemistry C, 2014, 118, 6522-6530.	3.1	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.	5.5	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.	2.9	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.	2.4	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.	3.5	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.	11.2	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.	7.8	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.	21.0	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.	14.6	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.	10.3	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.	6.7	22
152	Manipulating the Growth Kinetics of Vapor-Liquid-Solid Propagated Ge Nanowires. <i>Nano Letters</i> , 2013, 13, 4044-4052.	9.1	51
153	Highly stable PEGylated gold nanoparticles in water: applications in biology and catalysis. <i>RSC Advances</i> , 2013, 3, 21016.	3.6	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.	10.3	39
155	An AC-assisted single-nanowire electromechanical switch. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7134.	5.5	13
156	Palladium-Catalyzed Coupling Reactions for the Functionalization of Si Surfaces: Superior Stability of Alkenyl Monolayers. <i>Langmuir</i> , 2013, 29, 11950-11958.	3.5	15
157	Containing the catalyst: diameter controlled Ge nanowire growth. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4450.	5.5	11
158	Fabrication of a sub-10 nm silicon nanowire based ethanol sensor using block copolymer lithography. <i>Nanotechnology</i> , 2013, 24, 065503.	2.6	30
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