

Justin D Holmes

List of Publications by Year in descending order

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329
papers

11,839
citations

26567

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43802

91
g-index

338
all docs

338
docs citations

338
times ranked

15995
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Luminescent Silicon Nanocrystals with Discrete Optical Transitions. <i>Journal of the American Chemical Society</i> , 2001, 123, 3743-3748.	6.6	466
2	Synthesis and applications of one-dimensional semiconductors. <i>Progress in Materials Science</i> , 2010, 55, 563-627.	16.0	450
3	Evaluating the performance of nanostructured materials as lithium-ion battery electrodes. <i>Nano Research</i> , 2014, 7, 1-62.	5.8	292
4	Semiconductor Nanowire Fabrication by Bottom-Up and Top-Down Paradigms. <i>Chemistry of Materials</i> , 2012, 24, 1975-1991.	3.2	268
5	PEGylated gold nanoparticles: polymer quantification as a function of PEG lengths and nanoparticle dimensions. <i>RSC Advances</i> , 2013, 3, 6085-6094.	1.7	262
6	Gold nanoparticles enlighten the future of cancer theranostics. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 6131-6152.	3.3	202
7	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
8	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
9	Ferroelectric nanoparticles, wires and tubes: synthesis, characterisation and applications. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2618.	2.7	153
10	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
11	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
12	Ultimate-Strength Germanium Nanowires. <i>Nano Letters</i> , 2006, 6, 2964-2968.	4.5	135
13	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
14	The Rapid Formation of $\text{La}(\text{OH})_3$ from La_2O_3 Powders on Exposure to Water Vapor. <i>Journal of the American Ceramic Society</i> , 2010, 93, 1187-1194.	1.9	134
15	Gold Nanoparticle-Modified Etched Capillaries for Open-Tubular Capillary Electrochromatography. <i>Analytical Chemistry</i> , 2005, 77, 1840-1846.	3.2	133
16	Water-in- CO_2 Microemulsions Studied by Small-Angle Neutron Scattering. <i>Langmuir</i> , 1997, 13, 6980-6984.	1.6	131
17	Synthesis of Cadmium Sulfide Q Particles in Water-in- CO_2 Microemulsions. <i>Langmuir</i> , 1999, 15, 6613-6615.	1.6	125
18	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

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19	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
20	The Origin of Shape Sensitivity in Palladium-Catalyzed Suzuki-Miyaura Cross Coupling Reactions. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4142-4145.	7.2	116
21	Cadmium-specific formation of metal sulfide α -Q-particles™ by <i>Klebsiella pneumoniae</i> . <i>Microbiology (United Kingdom)</i> , 1997, 143, 2521-2530.	0.7	110
22	Development of chemically engineered porous metal oxides for phosphate removal. <i>Journal of Hazardous Materials</i> , 2011, 185, 382-391.	6.5	106
23	New Generation Electron Beam Resists: A Review. <i>Chemistry of Materials</i> , 2017, 29, 1898-1917.	3.2	101
24	Supercritical Fluid Synthesis of Metal and Semiconductor Nanomaterials. <i>Chemistry - A European Journal</i> , 2003, 9, 2144-2150.	1.7	100
25	Non-equilibrium induction of tin in germanium: towards direct bandgap $\text{Ge}_{1-x}\text{Sn}_x$ nanowires. <i>Nature Communications</i> , 2016, 7, 11405.	5.8	100
26	Tailoring the Optical Properties of Silicon Nanowire Arrays through Strain. <i>Nano Letters</i> , 2002, 2, 811-816.	4.5	99
27	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
28	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
29	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
30	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
31	Synthesis and Electrical and Mechanical Properties of Silicon and Germanium Nanowires. <i>Chemistry of Materials</i> , 2008, 20, 5954-5967.	3.2	89
32	Emergence of winner-takes-all connectivity paths in random nanowire networks. <i>Nature Communications</i> , 2018, 9, 3219.	5.8	88
33	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
34	An enhanced surface passivation effect in InGaN/GaN disk-in-nanowire light emitting diodes for mitigating Shockley-Read-Hall recombination. <i>Nanoscale</i> , 2015, 7, 16658-16665.	2.8	84
35	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
36	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

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37	Covalent Functionalization of Few-Layer Black Phosphorus Using Iodonium Salts and Comparison to Diazonium Modified Black Phosphorus. <i>Chemistry of Materials</i> , 2018, 30, 4667-4674.	3.2	79
38	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
39	Bistable nanoelectromechanical devices. <i>Applied Physics Letters</i> , 2004, 84, 4074-4076.	1.5	74
40	Sub-10 nm Feature Size PS- <i>b</i> -PDMS Block Copolymer Structures Fabricated by a Microwave-Assisted Solvothermal Process. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 2004-2012.	4.0	74
41	Single Crystalline Ge _{1-x} Mnx Nanowires as Building Blocks for Nanoelectronics. <i>Nano Letters</i> , 2009, 9, 50-56.	4.5	73
42	Alkylthiol gold nanoparticles in open-tubular capillary electrochromatography. <i>Journal of Chromatography A</i> , 2003, 1004, 181-193.	1.8	72
43	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
44	Room-temperature ferromagnetism in Ge _{1-x} Mnx nanowires. <i>Physical Review B</i> , 2005, 72, .	1.1	71
45	Cyclical "Flipping" of Morphology in Block Copolymer Thin Films. <i>ACS Nano</i> , 2011, 5, 4617-4623.	7.3	69
46	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
47	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
48	Large pore bi-functionalised mesoporous silica for metal ion pollution treatment. <i>Journal of Hazardous Materials</i> , 2009, 164, 229-234.	6.5	66
49	Two-Terminal Nanoelectromechanical Devices Based on Germanium Nanowires. <i>Nano Letters</i> , 2009, 9, 1824-1829.	4.5	63
50	Chemical oxidation of mesoporous carbon foams for lead ion adsorption. <i>Separation and Purification Technology</i> , 2013, 104, 150-159.	3.9	63
51	Control of Pore Morphology in Mesoporous Silicas Synthesized from Triblock Copolymer Templates. <i>Langmuir</i> , 2002, 18, 4996-5001.	1.6	62
52	Nanoscale Ferroelectric and Piezoelectric Properties of Sb ₂ S ₃ Nanowire Arrays. <i>Nano Letters</i> , 2012, 12, 868-872.	4.5	61
53	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
54	Chemical functionalisation of silicon and germanium nanowires. <i>Journal of Materials Chemistry</i> , 2011, 21, 11052.	6.7	59

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55	Large-scale parallel arrays of silicon nanowires via block copolymer directed self-assembly. <i>Nanoscale</i> , 2012, 4, 3228.	2.8	59
56	Epitaxial lateral overgrowth of AlN on self-assembled patterned nanorods. <i>Journal of Materials Chemistry C</i> , 2015, 3, 431-437.	2.7	58
57	Stability, Oxidation, and Shape Evolution of PVP-Capped Pd Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2014, 118, 6522-6530.	1.5	57
58	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
59	High Density Germanium Nanowire Assemblies: Contact Challenges and Electrical Characterization. <i>Journal of Physical Chemistry B</i> , 2006, 110, 820-826.	1.2	55
60	Pegylation Increases Platelet Biocompatibility of Gold Nanoparticles. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 1004-1015.	0.5	55
61	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
62	Preparation of Mesoporous Titania Thin Films with Remarkably High Thermal Stability. <i>Chemistry of Materials</i> , 2005, 17, 1269-1271.	3.2	53
63	Recent advances in the growth of germanium nanowires: synthesis, growth dynamics and morphology control. <i>Journal of Materials Chemistry C</i> , 2014, 2, 14-33.	2.7	53
64	Conductive films of ordered nanowire arrays. <i>Journal of Materials Chemistry</i> , 2004, 14, 585.	6.7	52
65	Strain induced photoluminescence from silicon and germanium nanowire arrays. <i>Journal of Materials Chemistry</i> , 2005, 15, 4809.	6.7	52
66	Defect Transfer from Nanoparticles to Nanowires. <i>Nano Letters</i> , 2011, 11, 1550-1555.	4.5	52
67	Manipulating the Growth Kinetics of Vapor-Liquid-Solid Propagated Ge Nanowires. <i>Nano Letters</i> , 2013, 13, 4044-4052.	4.5	51
68	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
69	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
70	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
71	Highly stable PEGylated gold nanoparticles in water: applications in biology and catalysis. <i>RSC Advances</i> , 2013, 3, 21016.	1.7	49
72	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

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73	Steric stabilization of inorganic suspensions in carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2000, 16, 247-260.	1.6	47
74	Supercritical Fluid Synthesis of Magnetic Hexagonal Nanoplatelets of Magnetite. <i>Journal of the American Chemical Society</i> , 2010, 132, 12540-12541.	6.6	47
75	Aligned silicon nanofins via the directed self-assembly of PS-P4VP block copolymer and metal oxide enhanced pattern transfer. <i>Nanoscale</i> , 2015, 7, 6712-6721.	2.8	47
76	Pore Expansion in Mesoporous Silicas Using Supercritical Carbon Dioxide. <i>Chemistry of Materials</i> , 2004, 16, 424-427.	3.2	45
77	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
78	A positron annihilation spectroscopic investigation of europium-doped cerium oxide nanoparticles. <i>Nanoscale</i> , 2014, 6, 608-615.	2.8	45
79	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
80	Oriented Growth of Metal and Semiconductor Nanostructures within Aligned Mesoporous Channels. <i>Chemistry of Materials</i> , 2007, 19, 1376-1381.	3.2	44
81	Nonpolar Resistive Switching in Ag@TiO ₂ Core-Shell Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 38959-38966.	4.0	44
82	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
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. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 137, 56-67.	2.0	43
84	Preparation of MCM-48 materials with enhanced hydrothermal stability. <i>Journal of Materials Chemistry</i> , 2006, 16, 4051.	6.7	42
85	Synthesis and characterisation of ordered arrays of mesoporous carbon nanofibres. <i>Journal of Materials Chemistry</i> , 2009, 19, 1331.	6.7	42
86	Alkane and Alkanethiol Passivation of Halogenated Ge Nanowires. <i>Chemistry of Materials</i> , 2010, 22, 6370-6377.	3.2	42
87	Seedless Growth of Sub-10 nm Germanium Nanowires. <i>Journal of the American Chemical Society</i> , 2010, 132, 13742-13749.	6.6	42
88	Structural and Magnetic Characterization of Ge _{0.99} Mn _{0.01} Nanowire Arrays. <i>Chemistry of Materials</i> , 2005, 17, 3615-3619.	3.2	41
89	Supercritical Fluid Growth of Porous Carbon Nanocages. <i>Chemistry of Materials</i> , 2007, 19, 3349-3354.	3.2	41
90	Revisiting Conversion Reaction Mechanisms in Lithium Batteries: Lithiation-Driven Topotactic Transformation in FeF ₂ . <i>Journal of the American Chemical Society</i> , 2018, 140, 17915-17922.	6.6	41

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91	Evaluating the Surface Chemistry of Black Phosphorus during Ambient Degradation. <i>Langmuir</i> , 2019, 35, 2172-2178.	1.6	41
92	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
93	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
94	Synthesis and swelling of large pore diameter mesoporous silica spheres. <i>Journal of Materials Chemistry</i> , 2007, 17, 3881.	6.7	39
95	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
96	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
97	Synthesis and Characterization of Highly Ordered Cobalt-Magnetite Nanocable Arrays. <i>Small</i> , 2006, 2, 1299-1307.	5.2	38
98	Organic Functionalization of Germanium Nanowires using Arenediazonium Salts. <i>Chemistry of Materials</i> , 2011, 23, 1883-1891.	3.2	38
99	Organo-arsenic Molecular Layers on Silicon for High-Density Doping. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 15514-15521.	4.0	38
100	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
101	Comparing Thermal and Chemical Removal of Nanoparticle Stabilizing Ligands: Effect on Catalytic Activity and Stability. <i>ACS Applied Nano Materials</i> , 2018, 1, 7129-7138.	2.4	37
102	Orientation and Alignment Control of Microphase-Separated PS-b-PDMS Substrate Patterns via Polymer Brush Chemistry. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 88-97.	4.0	36
103	Size and space controlled hexagonal arrays of superparamagnetic iron oxide nanodots: magnetic studies and application. <i>Scientific Reports</i> , 2013, 3, 2772.	1.6	36
104	Defect Chemistry and Vacancy Concentration of Luminescent Europium Doped Ceria Nanoparticles by the Solvothermal Method. <i>Journal of Physical Chemistry C</i> , 2014, 118, 10700-10710.	1.5	36
105	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
106	Pore Size Engineering in Mesoporous Silicas Using Supercritical CO ₂ . <i>Langmuir</i> , 2005, 21, 4163-4167.	1.6	35
107	Germanium Nanowire Synthesis from Fluorothiolate-Capped Gold Nanoparticles in Supercritical Carbon Dioxide. <i>Chemistry of Materials</i> , 2010, 22, 5235-5243.	3.2	35
108	The stability of CeO ₂ -nanodots in ambient conditions: a study using block copolymer templated structures. <i>Journal of Materials Chemistry</i> , 2012, 22, 22949.	6.7	35

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109	Size-tuneable synthesis of nickel nanoparticles. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	35
110	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
111	Self-Seeded Growth of Germanium Nanowires: Coalescence and Ostwald Ripening. <i>Chemistry of Materials</i> , 2013, 25, 215-222.	3.2	34
112	Study of the Kinetics and Mechanism of Rapid Self-Assembly in Block Copolymer Thin Films during Solvo-Microwave Annealing. <i>Langmuir</i> , 2014, 30, 10728-10739.	1.6	34
113	Engineering Metallic Nanoparticles for Enhancing and Probing Catalytic Reactions. <i>Advanced Materials</i> , 2016, 28, 5689-5695.	11.1	34
114	Progress on Germanium-Tin Nanoscale Alloys. <i>Chemistry of Materials</i> , 2020, 32, 4383-4408.	3.2	34
115	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
116	Oriented Growth of Single-Crystalline Bi ₂ S ₃ Nanowire Arrays. <i>ChemPhysChem</i> , 2007, 8, 235-240.	1.0	32
117	3D Vanadium Oxide Inverse Opal Growth by Electrodeposition. <i>Journal of the Electrochemical Society</i> , 2015, 162, D605-D612.	1.3	32
118	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
119	Inherent Control of Growth, Morphology, and Defect Formation in Germanium Nanowires. <i>Nano Letters</i> , 2012, 12, 5654-5663.	4.5	31
120	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
121	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
122	Fabrication of a sub-10 nm silicon nanowire based ethanol sensor using block copolymer lithography. <i>Nanotechnology</i> , 2013, 24, 065503.	1.3	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. <i>Langmuir</i> , 2013, 29, 2809-2820.	1.6	30
124	One-Step Fabrication of GeSn Branched Nanowires. <i>Chemistry of Materials</i> , 2019, 31, 4016-4024.	3.2	30
125	Bioconjugated Gold Nanoparticles Enhance siRNA Delivery in Prostate Cancer Cells. <i>Methods in Molecular Biology</i> , 2019, 1974, 291-301.	0.4	30
126	Probing the magnetic properties of cobalt-germanium nanowire arrays. <i>Journal of Materials Chemistry</i> , 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.	3.2	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.	4.0	28
129	Positively charged, surfactant-free gold nanoparticles for nucleic acid delivery. RSC Advances, 2015, 5, 17862-17871.	1.7	28
130	Monolayer Doping of Si with Improved Oxidation Resistance. ACS Applied Materials & Interfaces, 2016, 8, 4101-4108.	4.0	28
131	Large Pore Methylene-Bridged Periodic Mesoporous Organosilicas: Synthesis, Bifunctionalization and Their Use as Nanotemplates. Chemistry of Materials, 2005, 17, 6407-6415.	3.2	26
132	Nitrogen-Doped Carbon Nanotubes: Growth, Mechanism and Structure. ChemPhysChem, 2011, 12, 2995-3001.	1.0	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.	5.5	26
134	Development 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.	3.3	26
135	Confined Growth and Crystallography of One-Dimensional Bi ₂ S ₃ , CdS, and SnS _x Nanostructures within Channeled Substrates. Journal of Physical Chemistry C, 2008, 112, 7345-7355.	1.5	25
136	Rapid, Low-Temperature Synthesis of Germanium Nanowires from Oligosilylgermane Precursors. Chemistry of Materials, 2017, 29, 4351-4360.	3.2	25
137	Two-Dimensional SnSe Nanonetworks: Growth and Evaluation for Li-Ion Battery Applications. ACS Applied Energy Materials, 2020, 3, 6602-6610.	2.5	25
138	pH Switching for the Selective Extraction of Metal Ions into Supercritical CO ₂ . Langmuir, 2003, 19, 3145-3150.	1.6	24
139	Tunable magnetic properties of metal/metal oxide nanoscale coaxial cables. Physical Review B, 2006, 74, .	1.1	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.	1.5	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.	1.1	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.	5.0	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.	4.0	23
144	Absence of Evidence ≠ Evidence of Absence: Statistical Analysis of Inclusions in Multiferroic Thin Films. Scientific Reports, 2015, 4, 5712.	1.6	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. <i>Chemistry of Materials</i> , 2015, 27, 6091-6096.	3.2	23
146	Probing Thermal Flux in Twinned Ge Nanowires through Raman Spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 24679-24685.	4.0	23
147	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
148	Diels-Alder reactions between maleic anhydride and furan derivatives in supercritical CO ₂ . <i>Green Chemistry</i> , 2005, 7, 105-110.	4.6	22
149	Surface Energy Driven Agglomeration and Growth of Single Crystal Metal Wires. <i>Nano Letters</i> , 2011, 11, 1294-1299.	4.5	22
150	Freestanding bucky paper with high strength from multi-wall carbon nanotubes. <i>Materials Chemistry and Physics</i> , 2012, 135, 921-927.	2.0	22
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152	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
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