

Michael A Morris

List of Publications by Year in descending order

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333
papers

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citations

23500

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43802

91
g-index

338
all docs

338
docs citations

338
times ranked

14858
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanotechnologies in the food industry – Recent developments, risks and regulation. Trends in Food Science and Technology, 2012, 24, 30-46.	7.8	541
2	Solvent Vapor Annealing of Block Polymer Thin Films. Macromolecules, 2013, 46, 5399-5415.	2.2	470
3	PEGylated gold nanoparticles: polymer quantification as a function of PEG lengths and nanoparticle dimensions. RSC Advances, 2013, 3, 6085-6094.	1.7	262
4	Mesoporous Titania Nanotubes: Their Preparation and Application as Electrode Materials for Rechargeable Lithium Batteries. Advanced Materials, 2007, 19, 3016-3020.	11.1	240
5	Synthesis of Metal and Metal Oxide Nanowire and Nanotube Arrays within a Mesoporous Silica Template. Chemistry of Materials, 2003, 15, 3518-3522.	3.2	190
6	Antimicrobial activity of chitosan, organic acids and nano-sized solubilisates for potential use in smart antimicrobially-active packaging for potential food applications. Food Control, 2013, 34, 393-397.	2.8	190
7	Catalytic oxidation over lanthanum-transition metal perovskite materials. Catalysis Today, 1999, 47, 123-132.	2.2	183
8	Characterization of aluminium-based water treatment residual for potential phosphorus removal in engineered wetlands. Environmental Pollution, 2009, 157, 2830-2836.	3.7	183
9	Evaluation and Simulation of Silver and Copper Nanoparticle Migration from Polyethylene Nanocomposites to Food and an Associated Exposure Assessment. Journal of Agricultural and Food Chemistry, 2014, 62, 1403-1411.	2.4	168
10	Size-Related Lattice Parameter Changes and Surface Defects in Ceria Nanocrystals. Journal of Physical Chemistry C, 2010, 114, 12909-12919.	1.5	154
11	The critical size mechanism for the anatase to rutile transformation in TiO ₂ and doped-TiO ₂ . Journal of the European Ceramic Society, 2006, 26, 1527-1534.	2.8	152
12	The Formation of Dimensionally Ordered Silicon Nanowires within Mesoporous Silica. Journal of the American Chemical Society, 2001, 123, 187-188.	6.6	137
13	Strategies for Inorganic Incorporation using Neat Block Copolymer Thin Films for Etch Mask Function and Nanotechnological Application. Advanced Materials, 2016, 28, 5586-5618.	11.1	135
14	The Rapid Formation of La(OH) ₃ from La ₂ O ₃ Powders on Exposure to Water Vapor. Journal of the American Ceramic Society, 2010, 93, 1187-1194.	1.9	134
15	Enabling future nanomanufacturing through block copolymer self-assembly: A review. Nano Today, 2020, 35, 100936.	6.2	134
16	Effect of nanoclay-type and PLA optical purity on the characteristics of PLA-based nanocomposite films. Journal of Food Engineering, 2013, 117, 113-123.	2.7	132
17	Migration and exposure assessment of silver from a PVC nanocomposite. Food Chemistry, 2013, 139, 389-397.	4.2	129
18	Preparation of ordered mesoporous ceria with enhanced thermal stability. Journal of Materials Chemistry, 2002, 12, 1207-1212.	6.7	124

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19	Advances and challenges for the use of engineered nanoparticles in food contact materials. Trends in Food Science and Technology, 2015, 43, 43-62.	7.8	118
20	The reactive chemisorption of carbon dioxide at magnesium and copper surfaces at low temperature. Catalysis Letters, 1988, 1, 11-19.	1.4	115
21	Structural Control of Mesoporous Silica Nanowire Arrays in Porous Alumina Membranes. Chemistry of Materials, 2004, 16, 4851-4855.	3.2	110
22	Development of chemically engineered porous metal oxides for phosphate removal. Journal of Hazardous Materials, 2011, 185, 382-391.	6.5	106
23	Directed self-assembly of block copolymers for nanocircuitry fabrication. Microelectronic Engineering, 2015, 132, 207-217.	1.1	103
24	Effects of a combination of antimicrobial silver low density polyethylene nanocomposite films and modified atmosphere packaging on the shelf life of chicken breast fillets. Food Packaging and Shelf Life, 2015, 4, 26-35.	3.3	100
25	Non-equilibrium induction of tin in germanium: towards direct bandgap Ge _{1-x} Sn _x nanowires. Nature Communications, 2016, 7, 11405.	5.8	100
26	Tailoring the Optical Properties of Silicon Nanowire Arrays through Strain. Nano Letters, 2002, 2, 811-816.	4.5	99
27	A facile route to synthesis of S-doped TiO ₂ nanoparticles for photocatalytic activity. Journal of Molecular Catalysis A, 2015, 406, 51-57.	4.8	96
28	Amine-functionalised SBA-15 of tailored pore size for heavy metal adsorption. Journal of Colloid and Interface Science, 2012, 369, 330-337.	5.0	94
29	Chemical Interactions and Their Role in the Microphase Separation of Block Copolymer Thin Films. International Journal of Molecular Sciences, 2009, 10, 3671-3712.	1.8	90
30	Preparation and morphology of niobium oxide fibres by electrospinning. Chemical Physics Letters, 2003, 374, 79-84.	1.2	88
31	Large pore diameter MCM-41 and its application for lead removal from aqueous media. Journal of Hazardous Materials, 2011, 185, 898-904.	6.5	88
32	Conditions in which Cu-ZSM-5 outperforms supported vanadia catalysts in SCR of NO _x by NH ₃ . Applied Catalysis B: Environmental, 1995, 7, 137-151.	10.8	86
33	Three Dimensional Architectures of Ultra-High Density Semiconducting Nanowires Deposited on Chip. Journal of the American Chemical Society, 2003, 125, 6284-6288.	6.6	86
34	Synthesis and Characterization of Dimensionally Ordered Semiconductor Nanowires within Mesoporous Silica. Journal of the American Chemical Society, 2001, 123, 7010-7016.	6.6	83
35	Adsorption kinetic study: Effect of adsorbent pore size distribution on the rate of Cr (VI) uptake. Microporous and Mesoporous Materials, 2013, 165, 99-105.	2.2	82
36	Plasma etch technologies for the development of ultra-small feature size transistor devices. Journal Physics D: Applied Physics, 2011, 44, 174012.	1.3	80

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37	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
38	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
39	Single Crystalline Ge _{1-x} Mnx Nanowires as Building Blocks for Nanoelectronics. <i>Nano Letters</i> , 2009, 9, 50-56.	4.5	73
40	Synthesis of monodisperse chitosan nanoparticles. <i>Food Hydrocolloids</i> , 2018, 83, 355-364.	5.6	73
41	X-ray photoelectron spectroscopic study of the oxidation and reduction of a cerium(III) oxide/cerium foil substrate. <i>Catalysis Letters</i> , 1994, 23, 13-24.	1.4	72
42	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
43	Large Block Copolymer Self-Assembly for Fabrication of Subwavelength Nanostructures for Applications in Optics. <i>Nano Letters</i> , 2017, 17, 2973-2978.	4.5	72
44	Removal of Formaldehyde from Air Using Functionalized Silica Supports. <i>Environmental Science & Technology</i> , 2012, 46, 13354-13360.	4.6	71
45	Cyclical "Flipping" of Morphology in Block Copolymer Thin Films. <i>ACS Nano</i> , 2011, 5, 4617-4623.	7.3	69
46	The potential use of a layer-by-layer strategy to develop LDPE antimicrobial films coated with silver nanoparticles for packaging applications. <i>Journal of Colloid and Interface Science</i> , 2016, 461, 239-248.	5.0	69
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	Preparation of a highly thermally stable titania anatase phase by addition of mixed zirconia and silica dopants. <i>Ceramics International</i> , 2006, 32, 235-239.	2.3	66
49	Large pore bi-functionalised mesoporous silica for metal ion pollution treatment. <i>Journal of Hazardous Materials</i> , 2009, 164, 229-234.	6.5	66
50	High-Density Arrays of Germanium Nanowire Photoresistors. <i>Advanced Materials</i> , 2006, 18, 1812-1816.	11.1	64
51	Chemical oxidation of mesoporous carbon foams for lead ion adsorption. <i>Separation and Purification Technology</i> , 2013, 104, 150-159.	3.9	63
52	Characterisation of cobalt-zinc hydroxycarbonates and their products of decomposition. <i>Journal of Materials Chemistry</i> , 1997, 7, 319-330.	6.7	62
53	Cobalt-zinc oxide absorbents for low temperature gas desulfurisation. <i>Journal of Materials Chemistry</i> , 1999, 9, 599-605.	6.7	62
54	Control of Pore Morphology in Mesoporous Silicas Synthesized from Triblock Copolymer Templates. <i>Langmuir</i> , 2002, 18, 4996-5001.	1.6	62

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55	Lattice parameter changes in the mixed-oxide system $Ce_{1-x}La_xO_{2-x/2}$: a combined experimental and theoretical study. <i>Journal of Materials Chemistry</i> , 1993, 3, 1007-1013.	6.7	61
56	New ceria-based catalysts for pollution abatement. <i>Catalysis Today</i> , 2000, 59, 387-393.	2.2	61
57	Monitoring PMMA Elimination by Reactive Ion Etching from a Lamellar PS-b-PMMA Thin Film by ex Situ TEM Methods. <i>Macromolecules</i> , 2010, 43, 8651-8655.	2.2	59
58	Large-scale parallel arrays of silicon nanowires via block copolymer directed self-assembly. <i>Nanoscale</i> , 2012, 4, 3228.	2.8	59
59	Large Scale Monodisperse Hexagonal Arrays of Superparamagnetic Iron Oxides Nanodots: A Facile Block Copolymer Inclusion Method. <i>Advanced Materials</i> , 2012, 24, 2390-2397.	11.1	59
60	Mechanical properties and biocompatibility of the sputtered Ti doped hydroxyapatite. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 63, 314-325.	1.5	59
61	The Potential Application of Antimicrobial Silver Polyvinyl Chloride Nanocomposite Films to Extend the Shelf-Life of Chicken Breast Fillets. <i>Food and Bioprocess Technology</i> , 2016, 9, 1661-1673.	2.6	58
62	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
63	Silver migration from nanosilver and a commercially available zeolite filler polyethylene composites to food simulants. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2014, 31, 1132-1140.	1.1	56
64	High Density Germanium Nanowire Assemblies: Contact Challenges and Electrical Characterization. <i>Journal of Physical Chemistry B</i> , 2006, 110, 820-826.	1.2	55
65	Manufacture and characterization of gelatin films derived from beef, pork and fish sources using twin screw extrusion. <i>Journal of Food Engineering</i> , 2012, 113, 606-614.	2.7	55
66	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
67	Preparation of Mesoporous Titania Thin Films with Remarkably High Thermal Stability. <i>Chemistry of Materials</i> , 2005, 17, 1269-1271.	3.2	53
68	Conductive films of ordered nanowire arrays. <i>Journal of Materials Chemistry</i> , 2004, 14, 585.	6.7	52
69	Strain induced photoluminescence from silicon and germanium nanowire arrays. <i>Journal of Materials Chemistry</i> , 2005, 15, 4809.	6.7	52
70	Manipulating the Growth Kinetics of Vapor-Liquid-Solid Propagated Ge Nanowires. <i>Nano Letters</i> , 2013, 13, 4044-4052.	4.5	51
71	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
72	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

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73	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
74	Highly stable PEGylated gold nanoparticles in water: applications in biology and catalysis. <i>RSC Advances</i> , 2013, 3, 21016.	1.7	49
75	Controlled solvent vapor annealing of a high Γ block copolymer thin film. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 2805-2815.	1.3	48
76	Supercritical Fluid Synthesis of Magnetic Hexagonal Nanoplatelets of Magnetite. <i>Journal of the American Chemical Society</i> , 2010, 132, 12540-12541.	6.6	47
77	Aligned silicon nanofins <i>via</i> the directed self-assembly of PS- <i>b</i> -P4VP block copolymer and metal oxide enhanced pattern transfer. <i>Nanoscale</i> , 2015, 7, 6712-6721.	2.8	47
78	Surface Studies of Ceria and Mesoporous Ceria Powders by Solid-State ^{13}C MAS NMR. <i>Journal of Physical Chemistry B</i> , 2003, 107, 4607-4617.	1.2	46
79	The formation of dimensionally ordered germanium nanowires within mesoporous silica. <i>Chemical Physics Letters</i> , 2001, 343, 1-6.	1.2	45
80	Pore Expansion in Mesoporous Silicas Using Supercritical Carbon Dioxide. <i>Chemistry of Materials</i> , 2004, 16, 424-427.	3.2	45
81	<i>In situ</i> hard mask materials: a new methodology for creation of vertical silicon nanopillar and nanowire arrays. <i>Nanoscale</i> , 2012, 4, 7743.	2.8	45
82	A positron annihilation spectroscopic investigation of europium-doped cerium oxide nanoparticles. <i>Nanoscale</i> , 2014, 6, 608-615.	2.8	45
83	Oriented Growth of Metal and Semiconductor Nanostructures within Aligned Mesoporous Channels. <i>Chemistry of Materials</i> , 2007, 19, 1376-1381.	3.2	44
84	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
85	A 3D miniaturised programmable transceiver. <i>Microelectronics International</i> , 2005, 22, 8-12.	0.4	42
86	Preparation of MCM-48 materials with enhanced hydrothermal stability. <i>Journal of Materials Chemistry</i> , 2006, 16, 4051.	6.7	42
87	Synthesis and characterisation of ordered arrays of mesoporous carbon nanofibres. <i>Journal of Materials Chemistry</i> , 2009, 19, 1331.	6.7	42
88	Alkane and Alkanethiol Passivation of Halogenated Ge Nanowires. <i>Chemistry of Materials</i> , 2010, 22, 6370-6377.	3.2	42
89	Seedless Growth of Sub-10 nm Germanium Nanowires. <i>Journal of the American Chemical Society</i> , 2010, 132, 13742-13749.	6.6	42
90	Structural and Magnetic Characterization of $\text{Ge}_{0.99}\text{Mn}_{0.01}$ Nanowire Arrays. <i>Chemistry of Materials</i> , 2005, 17, 3615-3619.	3.2	41

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91	Pervaporation performance enhancement through the incorporation of mesoporous silica spheres into PVA membranes. <i>Separation and Purification Technology</i> , 2013, 118, 73-80.	3.9	41
92	Application of silver nanodots for potential use in antimicrobial packaging applications. <i>Innovative Food Science and Emerging Technologies</i> , 2015, 27, 136-143.	2.7	41
93	Electrochemical Sensing of Hydrogen Peroxide Using Block Copolymer Templated Iron Oxide Nanopatterns. <i>Analytical Chemistry</i> , 2018, 90, 1122-1128.	3.2	41
94	Lattice Constant Dependence on Particle Size for Ceria prepared from a Citrate Sol-Gel. <i>Journal of Physics: Conference Series</i> , 2006, 26, 119-122.	0.3	40
95	The defect chemistry of lanthana-ceria mixed oxides by MASNMR. <i>Chemical Physics Letters</i> , 1999, 305, 389-394.	1.2	39
96	Measurements of the lattice constant of ceria when doped with lanthana and praseodymia - the possibility of local defect ordering and the observation of extensive phase separation. <i>Journal of Physics Condensed Matter</i> , 2003, 15, L49-L58.	0.7	39
97	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
98	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
99	Synthesis and swelling of large pore diameter mesoporous silica spheres. <i>Journal of Materials Chemistry</i> , 2007, 17, 3881.	6.7	39
100	Low temperature germanium to silicon direct wafer bonding using free radical exposure. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	39
101	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
102	Using block copolymers as infiltration sites for development of future nanoelectronic devices: Achievements, barriers, and opportunities. <i>Microelectronic Engineering</i> , 2018, 195, 74-85.	1.1	39
103	Synthesis and Characterization of Highly Ordered Cobalt-Magnetite Nanocable Arrays. <i>Small</i> , 2006, 2, 1299-1307.	5.2	38
104	Organic Functionalization of Germanium Nanowires using Arenediazonium Salts. <i>Chemistry of Materials</i> , 2011, 23, 1883-1891.	3.2	38
105	Organo-arsenic Molecular Layers on Silicon for High-Density Doping. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 15514-15521.	4.0	38
106	The preparation of the single-phase perovskite LaNiO ₃ . <i>Journal of Materials Processing Technology</i> , 1999, 92-93, 91-96.	3.1	37
107	Combination of high-pressure treatment, mild heating and holding time effects as a means of improving the barrier properties of gelatin-based packaging films using response surface modeling. <i>Innovative Food Science and Emerging Technologies</i> , 2015, 30, 15-23.	2.7	37
108	Green Nanofabrication Opportunities in the Semiconductor Industry: A Life Cycle Perspective. <i>Nanomaterials</i> , 2021, 11, 1085.	1.9	37

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109	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
110	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
111	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
112	Pore Size Engineering in Mesoporous Silicas Using Supercritical CO ₂ . <i>Langmuir</i> , 2005, 21, 4163-4167.	1.6	35
113	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
114	Size-tuneable synthesis of nickel nanoparticles. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	35
115	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
116	Self-assembly of polystyrene-block-poly(4-vinylpyridine) block copolymer on molecularly functionalized silicon substrates: fabrication of inorganic nanostructured etchmask for lithographic use. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7941.	2.7	34
117	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
118	A Novel Electrochemical Sensor Based on Metal Ion Infiltrated Block Copolymer Thin Films for Sensitive and Selective Determination of Dopamine. <i>ACS Applied Nano Materials</i> , 2019, 2, 7311-7318.	2.4	34
119	Iron oxide nanoparticle impregnated mesoporous silicas as platforms for the growth of carbon nanotubes. <i>Microporous and Mesoporous Materials</i> , 2007, 103, 142-149.	2.2	33
120	Spectroscopic observation of a catalyst surface in a reactive atmosphere at high pressure. <i>Nature</i> , 1992, 358, 658-660.	13.7	32
121	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
122	Oriented Growth of Single-Crystalline Bi ₂ S ₃ Nanowire Arrays. <i>ChemPhysChem</i> , 2007, 8, 235-240.	1.0	32
123	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
124	An XPS study of the oxidation of reduced ceria-lanthana nanocrystals. <i>Chemical Physics Letters</i> , 2011, 509, 51-57.	1.2	31
125	Inherent Control of Growth, Morphology, and Defect Formation in Germanium Nanowires. <i>Nano Letters</i> , 2012, 12, 5654-5663.	4.5	31
126	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

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127	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
128	Advances in Ultra Low Dielectric Constant Ordered Porous Materials. <i>Electrochemical Society Interface</i> , 2011, 20, 39-46.	0.3	30
129	Fabrication of a sub-10 nm silicon nanowire based ethanol sensor using block copolymer lithography. <i>Nanotechnology</i> , 2013, 24, 065503.	1.3	30
130	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
131	Ordered Mesoporous Silicate Structures as Potential Templates for Nanowire Growth. <i>Advanced Functional Materials</i> , 2007, 17, 133-141.	7.8	29
132	A comparative study of selected sorbents for sampling of aromatic VOCs from indoor air. <i>Analytical Methods</i> , 2010, 2, 1803.	1.3	29
133	Achieving structural control with thin polystyrene- <i>b</i> -polydimethylsiloxane block copolymer films: The complex relationship of interface chemistry, annealing methodology and process conditions. <i>European Polymer Journal</i> , 2013, 49, 3445-3454.	2.6	29
134	Solvothermal Vapor Annealing of Lamellar Poly(styrene)- <i>b</i> -poly(<i>d</i> -lactide) Block Copolymer Thin Films for Directed Self-Assembly Application. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8295-8304.	4.0	29
135	Development of active, nanoparticle, antimicrobial technologies for muscle-based packaging applications. <i>Meat Science</i> , 2017, 132, 163-178.	2.7	29
136	Antimicrobial effect of benzoic and sorbic acid salts and nano-solubilisates against <i>Staphylococcus aureus</i> , <i>Pseudomonas fluorescens</i> and chicken microbiota biofilms. <i>Food Control</i> , 2020, 107, 106786.	2.8	29
137	Probing the magnetic properties of cobalt-germanium nanocable arrays. <i>Journal of Materials Chemistry</i> , 2005, 15, 2408.	6.7	28
138	Selective Sidewall Wetting of Polymer Blocks in Hydrogen Silsesquioxane Directed Self-Assembly of PS- <i>b</i> -PDMS. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 4637-4642.	4.0	28
139	Fabrication of highly ordered sub-20 nm silicon nanopillars by block copolymer lithography combined with resist design. <i>Journal of Materials Chemistry C</i> , 2013, 1, 3544.	2.7	28
140	Supercritical fluid preparation of copper nanotubes and nanowires using mesoporous templates. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 8303-8314.	0.7	26
141	Large Pore Methylene-Bridged Periodic Mesoporous Organosilicas: Synthesis, Bifunctionalization and Their Use as Nanotemplates. <i>Chemistry of Materials</i> , 2005, 17, 6407-6415.	3.2	26
142	Nitrogen-Doped Carbon Nanotubes: Growth, Mechanism and Structure. <i>ChemPhysChem</i> , 2011, 12, 2995-3001.	1.0	26
143	Human exposure assessment of silver and copper migrating from an antimicrobial nanocoated packaging material into an acidic food simulant. <i>Food and Chemical Toxicology</i> , 2016, 95, 128-136.	1.8	26
144	Confined Growth and Crystallography of One-Dimensional Bi ₂ S ₃ , CdS, and SnS _x Nanostructures within Channeled Substrates. <i>Journal of Physical Chemistry C</i> , 2008, 112, 7345-7355.	1.5	25

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145	Creating Active Device Materials for Nanoelectronics Using Block Copolymer Lithography. <i>Nanomaterials</i> , 2017, 7, 304.	1.9	25
146	Analysis of the Acid Passivation of Stainless Steel. <i>Analytical Letters</i> , 2006, 39, 2255-2271.	1.0	24
147	Copper/Molybdenum Nanocomposite Particles as Catalysts for the Growth of Bamboo-Structured Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12201-12206.	1.5	24
148	A modified Stober process for the production of mesoporous Sub 2 micron silica microspheres; applications in HPLC. <i>Journal of Porous Materials</i> , 2010, 17, 145-152.	1.3	24
149	Syntheses of complex mesoporous silicas using mixtures of nonionic block copolymer surfactants: Understanding formation of different structures using solubility parameters. <i>Journal of Colloid and Interface Science</i> , 2011, 353, 169-180.	5.0	23
150	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
151	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
152	Kinetic desorption models for the release of nanosilver from an experimental nanosilver coating on polystyrene food packaging. <i>Innovative Food Science and Emerging Technologies</i> , 2017, 44, 149-158.	2.7	23
153	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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