Michael A Morris

List of Publications by Year in Descending Order

317 papers	10,299 citations	53 h-index	85 g-index
338 ext. papers	11,216 ext. citations	6.5 avg, IF	6.34 L-index

#	Paper	IF	Citations
317	Mechanism of liquid-phase metal infiltration into pyridine-containing polymeric thin films. *Materials Letters*, **2022**, 313, 131682	3.3	0
316	The Use of Porous Silica Particles as Carriers for a Smart Delivery of Antimicrobial Essential Oils in Food Applications. *ACS Omega*, **2021**, 6, 30376-30385	3.9	0
315	Hydroxylation methods for mesoporous silica and their impact on surface functionalisation. *Microporous and Mesoporous Materials*, **2021**, 317, 110989	5.3	5
314	Green Nanofabrication Opportunities in the Semiconductor Industry: A Life Cycle Perspective. *Nanomaterials*, **2021**, 11,	5.4	13
313	Fabrication of Graphoepitaxial Gate-All-Around Si Circuitry Patterned Nanowire Arrays Using Block Copolymer Assisted Hard Mask Approach. *ACS Nano*, **2021**, 15, 9550-9558	16.7	1
312	Optimization and Control of Large Block Copolymer Self-Assembly via Precision Solvent Vapor Annealing. *Macromolecules*, **2021**, 54, 1203-1215	5.5	9
311	Large-Area Fabrication of Vertical Silicon Nanotube Arrays Toroidal Micelle Self-Assembly. *Langmuir*, **2021**, 37, 1932-1940	4	2
310	Size controlled fabrication of ordered monodispersed iron, cobalt and cobalt iron composite oxides nanoparticles arrays: A common block copolymer methodology. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2021**, 269, 115142	3.1	2
309	Observation of ordered microphase separation of block copolymer micellar thin films under argon-plasma radiation. *Applied Surface Science*, **2021**, 561, 149800	6.7	
308	Analysing trimethylaluminum infiltration into polymer brushes using a scalable area selective vapor phase process. *Materials Advances*, **2021**, 2, 769-781	3.3	4
307	Sub-25 nm Inorganic and Dielectric Nanopattern Arrays on Substrates: A Block Copolymer-Assisted Lithography.. *ACS Omega*, **2021**, 6, 35738-35744	3.9	0
306	A novel method to deliver natural antimicrobial coating materials to extend the shelf-life of European hake (Merluccius merluccius) fillets. *Food Packaging and Shelf Life*, **2020**, 25, 100522	8.2	2
305	A cubane-type manganese complex with H2O oxidation capabilities. *Sustainable Energy and Fuels*, **2020**, 4, 4464-4468	5.8	5
304	One Dimensional AuAg Nanostructures as Anodic Catalysts in the Ethylene Glycol Oxidation. *Nanomaterials*, **2020**, 10,	5.4	3
303	Characterization of electron beam deposited NbO coatings for biomedical applications. *Journal of the Mechanical Behavior of Biomedical Materials*, **2020**, 103, 103582	4.1	14
302	Precise Definition of a "Monolayer Point" in Polymer Brush Films for Fabricating Highly Coherent TiO Thin Films by Vapor-Phase Infiltration. *Langmuir*, **2020**, 36, 12394-12402	4	5
301	Enabling future nanomanufacturing through block copolymer self-assembly: A review. *Nano Today*, **2020**, 35, 100936	17.9	52

300	A conceptual change in crystallisation mechanisms of oxide materials from solutions in closed systems. *Scientific Reports*, **2020**, 10, 18414	4.9	1
299	Antimicrobial effect of benzoic and sorbic acid salts and nano-solubilisates against Staphylococcus aureus, Pseudomonas fluorescens and chicken microbiota biofilms. *Food Control*, **2020**, 107, 106786	6.2	18
298	Optimizing Polymer Brush Coverage To Develop Highly Coherent Sub-5 nm Oxide Films by Ion Inclusion. *Chemistry of Materials*, **2019**, 31, 9338-9345	9.6	10
297	Nanosize and Shape Effects on Antimicrobial Activity of Silver Using Morphology-Controlled Nanopatterns by Block Copolymer Fabrication. *ACS Applied Nano Materials*, **2019**, 2, 6325-6333	5.6	4
296	Solvent mediated inclusion of metal oxide into block copolymer nanopatterns: Mechanism of oxide formation under UV-Ozone treatment. *Polymer*, **2019**, 173, 197-204	3.9	8
295	Surface characterization of poly-2-vinylpyridine□ polymer for area selective deposition techniques. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2019**, 37, 050601	2.9	4
294	A Novel Electrochemical Sensor Based on Metal Ion Infiltrated Block Copolymer Thin Films for Sensitive and Selective Determination of Dopamine. *ACS Applied Nano Materials*, **2019**, 2, 7311-7318	5.6	17
293	Using block copolymers as infiltration sites for development of future nanoelectronic devices: Achievements, barriers, and opportunities. *Microelectronic Engineering*, **2018**, 195, 74-85	2.5	29
292	Morphology evolution of PS- b -PDMS block copolymer and its hierarchical directed self-assembly on block copolymer templates. *Microelectronic Engineering*, **2018**, 192, 1-7	2.5	9
291	Migration assessment of silver from nanosilver spray coated low density polyethylene or polyester films into milk. *Food Packaging and Shelf Life*, **2018**, 15, 144-150	8.2	15
290	Spray coating application for the development of nanocoated antimicrobial low-density polyethylene films to increase the shelf life of chicken breast fillets. *Food Science and Technology International*, **2018**, 24, 688-698	2.6	7
289	Nanopatterning via Self-Assembly of a Lamellar-Forming Polystyrene-block-Poly(dimethylsiloxane) Diblock Copolymer on Topographical Substrates Fabricated by Nanoimprint Lithography. *Nanomaterials*, **2018**, 8,	5.4	12
288	Synthesis of monodisperse chitosan nanoparticles. *Food Hydrocolloids*, **2018**, 83, 355-364	10.6	49
287	Development of Ordered, Porous (Sub-25 nm Dimensions) Surface Membrane Structures Using a Block Copolymer Approach. *Scientific Reports*, **2018**, 8, 7252	4.9	5
286	Enabling Large-Area Selective Deposition on Metal-Dielectric Patterns using Polymer Brush Deactivation. *Journal of Physical Chemistry C*, **2018**, 122, 14698-14705	3.8	14
285	Electrochemical Sensing of Hydrogen Peroxide Using Block Copolymer Templated Iron Oxide Nanopatterns. *Analytical Chemistry*, **2018**, 90, 1122-1128	7.8	27
284	Highly Ordered Titanium Dioxide Nanostructures via a Simple One-Step Vapor-Inclusion Method in Block Copolymer Films. *ACS Applied Nano Materials*, **2018**, 1, 3426-3434	5.6	13
283	Food Packaging: Surface Engineering and Commercialization **2018**, 301-328		1

282	Natural Antimicrobial Materials for Use in Food Packaging **2018**, 181-233		2
281	Fabrication of Si and Ge nanoarrays through graphoepitaxial directed hardmask block copolymer self-assembly. *Journal of Colloid and Interface Science*, **2018**, 531, 533-543	9.3	0
280	Controlled solvent vapor annealing of a high block copolymer thin film. *Physical Chemistry Chemical Physics*, **2017**, 19, 2805-2815	3.6	35
279	Development of active, nanoparticle, antimicrobial technologies for muscle-based packaging applications. *Meat Science*, **2017**, 132, 163-178	6.4	19
278	Photocatalytic air-purification: a low-cost, real-time gas detection method. *Analytical Methods*, **2017**, 9, 170-175	3.2	
277	Large Block Copolymer Self-Assembly for Fabrication of Subwavelength Nanostructures for Applications in Optics. *Nano Letters*, **2017**, 17, 2973-2978	11.5	53
276	Nanoscale silicon substrate patterns from self-assembly of cylinder forming poly(styrene)-block-poly(dimethylsiloxane) block copolymer on silane functionalized surfaces. *Nanotechnology*, **2017**, 28, 044001	3.4	4
275	Area Selective Polymer Brush Deposition. *Macromolecular Rapid Communications*, **2017**, 38, 1700252	4.8	12
274	Self-Assembled Nanofeatures in Complex Three-Dimensional Topographies via Nanoimprint and Block Copolymer Lithography Methods. *ACS Omega*, **2017**, 2, 4417-4423	3.9	4
273	Kinetic desorption models for the release of nanosilver from an experimental nanosilver coating on polystyrene food packaging. *Innovative Food Science and Emerging Technologies*, **2017**, 44, 149-158	6.8	17
272	Synthesis and stability of IR-820 and FITC doped silica nanoparticles. *Journal of Colloid and Interface Science*, **2017**, 490, 294-302	9.3	5
271	Creating Active Device Materials for Nanoelectronics Using Block Copolymer Lithography. *Nanomaterials*, **2017**, 7,	5.4	20
270	The potential use of a layer-by-layer strategy to develop LDPE antimicrobial films coated with silver nanoparticles for packaging applications. *Journal of Colloid and Interface Science*, **2016**, 461, 239-248	9.3	49
269	Characteristics, interactions and coating adherence of heterogeneous polymer/drug coatings for biomedical devices. *Materials Science and Engineering C*, **2016**, 59, 102-108	8.3	11
268	Assessment of the migration potential of nanosilver from nanoparticle-coated low-density polyethylene food packaging into food simulants. *Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment*, **2016**, 33, 167-78	3.2	14
267	Nanoporous membrane production via block copolymer lithography for high heat dissipation systems **2016**,		2
266	In-depth TEM characterization of block copolymer pattern transfer at germanium surfaces. *Nanotechnology*, **2016**, 27, 484003	3.4	4
265	Non-equilibrium induction of tin in germanium: towards direct bandgap Ge(1-x)Sn(x) nanowires. *Nature Communications*, **2016**, 7, 11405	17.4	84

264	The Potential Application of Antimicrobial Silver Polyvinyl Chloride Nanocomposite Films to Extend the Shelf-Life of Chicken Breast Fillets. *Food and Bioprocess Technology*, **2016**, 9, 1661-1673	5.1	41
263	Strategies for Inorganic Incorporation using Neat Block Copolymer Thin Films for Etch Mask Function and Nanotechnological Application. *Advanced Materials*, **2016**, 28, 5586-618	24	107
262	Fabrication of MoS2 Nanowire Arrays and Layered Structures via the Self-Assembly of Block Copolymers. *Advanced Materials Interfaces*, **2016**, 3, 1500596	4.6	20
261	Solvothermal Vapor Annealing of Lamellar Poly(styrene)-block-poly(d,l-lactide) Block Copolymer Thin Films for Directed Self-Assembly Application. *ACS Applied Materials & Interfaces*, **2016**, 8, 8295-304	9.5	23
260	Fabrication of ultra-dense sub-10 nm in-plane Si nanowire arrays by using a novel block copolymer method: optical properties. *Nanoscale*, **2016**, 8, 2177-87	7.7	11
259	Human exposure assessment of silver and copper migrating from an antimicrobial nanocoated packaging material into an acidic food simulant. *Food and Chemical Toxicology*, **2016**, 95, 128-36	4.7	19
258	Morphological evolution of lamellar forming polystyrene-block-poly(4-vinylpyridine) copolymers under solvent annealing. *Soft Matter*, **2016**, 12, 5429-37	3.6	13
257	Development of a facile block copolymer method for creating hard mask patterns integrated into semiconductor manufacturing. *Nano Research*, **2016**, 9, 3116-3128	10	6
256	Mechanical properties and biocompatibility of the sputtered Ti doped hydroxyapatite. *Journal of the Mechanical Behavior of Biomedical Materials*, **2016**, 63, 314-325	4.1	47
255	Solvent vapor annealing of block copolymers in confined topographies: commensurability considerations for nanolithography. *Macromolecular Rapid Communications*, **2015**, 36, 762-7	4.8	18
254	Nanophase separation and structural evolution of block copolymer films: A □green□and □clean□ supercritical fluid approach. *Nano Research*, **2015**, 8, 1279-1292	10	3
253	Advances and challenges for the use of engineered nanoparticles in food contact materials. *Trends in Food Science and Technology*, **2015**, 43, 43-62	15.3	101
252	Aligned silicon nanofins via the directed self-assembly of PS-b-P4VP block copolymer and metal oxide enhanced pattern transfer. *Nanoscale*, **2015**, 7, 6712-21	7.7	35
251	Linking Precursor Alterations to Nanoscale Structure and Optical Transparency in Polymer Assisted Fast-Rate Dip-Coating of Vanadium Oxide Thin Films. *Scientific Reports*, **2015**, 5, 11574	4.9	10
250	Diameter-Controlled Germanium Nanowires with Lamellar Twinning and Polytypes. *Chemistry of Materials*, **2015**, 27, 3408-3416	9.6	18
249	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	7.1	10
248	Organo-arsenic molecular layers on silicon for high-density doping. *ACS Applied Materials & Interfaces*, **2015**, 7, 15514-21	9.5	31
247	Soft Graphoepitaxy for Large Area Directed Self-Assembly of Polystyrene-block-Poly(dimethylsiloxane) Block Copolymer on Nanopatterned POSS Substrates Fabricated by Nanoimprint Lithography. *Advanced Functional Materials*, **2015**, 25, 3425-3432	15.6	16

246	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	8.3	
245	Nanoscale neuroelectrode modification via sub-20□hm silicon nanowires through self-assembly of block copolymers. *Journal of Materials Science: Materials in Medicine*, **2015**, 26, 120	4.5	4
244	Nanosize effect in Germanium Nanowire Growth with Binary Metal Alloys. *Materials Research Society Symposia Proceedings*, **2015**, 1751, 13		
243	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	8.2	86
242	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	9.6	17
241	Directed self-assembly of block copolymers for nanocircuitry fabrication. *Microelectronic Engineering*, **2015**, 132, 207-217	2.5	90
240	Application of silver nanodots for potential use in antimicrobial packaging applications. *Innovative Food Science and Emerging Technologies*, **2015**, 27, 136-143	6.8	37
239	In-situ observations of nanoscale effects in germanium nanowire growth with ternary eutectic alloys. *Small*, **2015**, 11, 103-11	11	9
238	High quality sub-10 nm graphene nanoribbons by on-chip PS-b-PDMS block copolymer lithography. *RSC Advances*, **2015**, 5, 66711-66717	3.7	17
237	A Highly Efficient Sensor Platform Using Simply Manufactured Nanodot Patterned Substrates. *Scientific Reports*, **2015**, 5, 13270	4.9	10
236	Dimensional and defectivity nanometrology of directed self-assembly patterns. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2015**, 12, 267-270		3
235	Microphase Separation of a PS-b-PFS Block CopolymerviaSolvent Annealing: Effect of Solvent, Substrate, and Exposure Time on Morphology. *International Journal of Polymer Science*, **2015**, 2015, 1-10	2.4	
234	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. *Innovative Food Science and Emerging Technologies*, **2015**, 30, 15-23	6.8	29
233	A facile route to synthesis of S-doped TiO2 nanoparticles for photocatalytic activity. *Journal of Molecular Catalysis A*, **2015**, 406, 51-57		71
232	Block Co-Polymers for Nanolithography: Rapid Microwave Annealing for Pattern Formation on Substrates. *Polymers*, **2015**, 7, 592-609	4.5	3
231	The development and advantages of helium ion microscopy for the study of block copolymer nanopatterns **2015**,		2
230	Electrochemical Fabrication of Multi-Nanolayers **2015**, 1-27		
229	Electrochemical Fabrication of Multi-Nanolayers **2015**, 1-27		

228	Selective etching of polylactic acid in poly(styrene)-block-poly(d,l)lactide diblock copolymer for nanoscale patterning. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	16
227	Defect Chemistry and Vacancy Concentration of Luminescent Europium Doped Ceria Nanoparticles by the Solvothermal Method. *Journal of Physical Chemistry C*, **2014**, 118, 10700-10710	3.8	34
226	A positron annihilation spectroscopic investigation of europium-doped cerium oxide nanoparticles. *Nanoscale*, **2014**, 6, 608-15	7.7	39
225	Size-controlled growth of germanium nanowires from ternary eutectic alloy catalysts. *Journal of Materials Chemistry C*, **2014**, 2, 4597-4605	7.1	9
224	Interfacial characteristics and determination of cohesive and adhesive strength of plasma-coated hydroxyapatite via nanoindentation and microscratch techniques. *Langmuir*, **2014**, 30, 11412-20	4	15
223	Study of the kinetics and mechanism of rapid self-assembly in block copolymer thin films during solvo-microwave annealing. *Langmuir*, **2014**, 30, 10728-39	4	32
222	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, 1403-11	5.7	140
221	Fabrication of ordered, large scale, horizontally-aligned si nanowire arrays based on an in situ hard mask block copolymer approach. *Advanced Materials*, **2014**, 26, 1207-16	24	29
220	Fabrication of 3-D nanodimensioned electric double layer capacitor structures using block copolymer templates. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 5221-7	1.3	2
219	Rapid, Brushless Self-assembly of a PS-b-PDMS Block Copolymer for Nanolithography. *Colloids and Interface Science Communications*, **2014**, 2, 1-5	5.4	14
218	Order quantification of hexagonal periodic arrays fabricated by in situ solvent-assisted nanoimprint lithography of block copolymers. *Nanotechnology*, **2014**, 25, 175703	3.4	15
217	Graphoepitaxial Directed Self-Assembly of Polystyrene-Block-Polydimethylsiloxane Block Copolymer on Substrates Functionalized with Hexamethyldisilazane to Fabricate Nanoscale Silicon Patterns. *Advanced Materials Interfaces*, **2014**, 1, 1300102	4.6	2
216	Eu-Doped Cerium Oxide Nanoparticles Studied by Positron Annihilation. *Acta Physica Polonica A*, **2014**, 125, 756-759	0.6	1
215	Defect analysis and alignment quantification of line arrays prepared by directed self-assembly of a block copolymer **2014**,		2
214	Silver migration from nanosilver and a commercially available zeolite filler polyethylene composites to food simulants. *Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment*, **2014**, 31, 1132-40	3.2	49
213	Self-assembled nanostructures as templates for patterned surfaces with non-microelectronic applications **2014**,		1
212	Formation of sub-7 nm feature size PS-b-P4VP block copolymer structures by solvent vapour process **2014**,		14
211	The Morphology of Ordered Block Copolymer Patterns as Probed by High Resolution Imaging. *Nanomaterials and Nanotechnology*, **2014**, 4, 25	2.9	12

210	Swift nanopattern formation of PS-b-PMMA and PS-b-PDMS block copolymer films using a microwave assisted technique. *ACS Nano*, **2013**, 7, 6583-96	16.7	65
209	Supercritical-fluid synthesis of FeF2 and CoF2 Li-ion conversion materials. *Journal of Materials Chemistry A*, **2013**, 1, 10667	13	46
208	Fabrication of highly ordered sub-20 nm silicon nanopillars by block copolymer lithography combined with resist design. *Journal of Materials Chemistry C*, **2013**, 1, 3544	7.1	24
207	Manipulating the growth kinetics of vapor-liquid-solid propagated Ge nanowires. *Nano Letters*, **2013**, 13, 4044-52	11.5	46
206	Highly stable PEGylated gold nanoparticles in water: applications in biology and catalysis. *RSC Advances*, **2013**, 3, 21016	3.7	41
205	Pervaporation performance enhancement through the incorporation of mesoporous silica spheres into PVA membranes. *Separation and Purification Technology*, **2013**, 118, 73-80	8.3	35
204	Self-assembly of polystyrene-block-poly(4-vinylpyridine) block copolymer on molecularly functionalized silicon substrates: fabrication of inorganic nanostructured etchmask for lithographic use. *Journal of Materials Chemistry C*, **2013**, 1, 7941	7.1	27
203	Palladium-catalyzed coupling reactions for the functionalization of Si surfaces: superior stability of alkenyl monolayers. *Langmuir*, **2013**, 29, 11950-8	4	14
202	Achieving structural control with thin polystyrene-b-polydimethylsiloxane block copolymer films: The complex relationship of interface chemistry, annealing methodology and process conditions. *European Polymer Journal*, **2013**, 49, 3445-3454	5.2	25
201	Soft-graphoepitaxy using nanoimprinted polyhedral oligomeric silsesquioxane substrates for the directed self-assembly of PS-b-PDMS. *European Polymer Journal*, **2013**, 49, 3512-3521	5.2	9
200	Containing the catalyst: diameter controlled Ge nanowire growth. *Journal of Materials Chemistry C*, **2013**, 1, 4450	7.1	10
199	Fabrication of a sub-10 nm silicon nanowire based ethanol sensor using block copolymer lithography. *Nanotechnology*, **2013**, 24, 065503	3.4	22
198	Fabrication of Arrays of Lead Zirconate Titanate (PZT) Nanodots via Block Copolymer Self-Assembly. *Chemistry of Materials*, **2013**, 25, 1458-1463	9.6	28
197	Chemical oxidation of mesoporous carbon foams for lead ion adsorption. *Separation and Purification Technology*, **2013**, 104, 150-159	8.3	53
196	Photocatalytic properties of metal and non-metal doped novel sub 10nm titanium dioxide nanoparticles on methyl orange. *Journal of Colloid and Interface Science*, **2013**, 411, 169-72	9.3	13
195	Molecularly functionalized silicon substrates for orientation control of the microphase separation of PS-b-PMMA and PS-b-PDMS block copolymer systems. *Langmuir*, **2013**, 29, 2809-20	4	28
194	Comparison of the preparation of cerium oxide nanocrystallites by forward (base to acid) and reverse (acid to base) precipitation. *Chemical Engineering Science*, **2013**, 91, 102-110	4.4	14
193	PEGylated gold nanoparticles: polymer quantification as a function of PEG lengths and nanoparticle dimensions. *RSC Advances*, **2013**, 3, 6085-6094	3.7	222

192	Sub-10 nm feature size PS-b-PDMS block copolymer structures fabricated by a microwave-assisted solvothermal process. *ACS Applied Materials & Interfaces*, **2013**, 5, 2004-12	9.5	69
191	Effect of nanoclay-type and PLA optical purity on the characteristics of PLA-based nanocomposite films. *Journal of Food Engineering*, **2013**, 117, 113-123	6	111
190	Depth profiling of PLGA copolymer in a novel biomedical bilayer using confocal Raman spectroscopy. *Langmuir*, **2013**, 29, 5905-10	4	4
189	Directed self-assembly of PS-b-PMMA block copolymer using HSQ lines for translational alignment. *Journal of Materials Chemistry C*, **2013**, 1, 1192-1196	7.1	11
188	Migration and exposure assessment of silver from a PVC nanocomposite. *Food Chemistry*, **2013**, 139, 389-97	8.5	116
187	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	6.2	170
186	Solvent Vapor Annealing of Block Polymer Thin Films. *Macromolecules*, **2013**, 46, 5399-5415	5.5	409
185	Orientation and alignment control of microphase-separated PS-b-PDMS substrate patterns via polymer brush chemistry. *ACS Applied Materials & Interfaces*, **2013**, 5, 88-97	9.5	35
184	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	9.3	11
183	Adsorption kinetic study: Effect of adsorbent pore size distribution on the rate of Cr (VI) uptake. *Microporous and Mesoporous Materials*, **2013**, 165, 99-105	5.3	69
182	Tuning PDMS brush chemistry by UV-O3 exposure for PS-b-PDMS microphase separation and directed self-assembly. *Langmuir*, **2013**, 29, 8959-68	4	12
181	Sub-15 nm Silicon Lines Fabrication via PS-b-PDMS Block Copolymer Lithography. *Journal of Nanomaterials*, **2013**, 2013, 1-7	3.2	4
180	Size and space controlled hexagonal arrays of superparamagnetic iron oxide nanodots: magnetic studies and application. *Scientific Reports*, **2013**, 3, 2772	4.9	32
179	Fabrication of Germanium Nanowire Arrays by Block Copolymer Lithography. *Science of Advanced Materials*, **2013**, 5, 782-787	2.3	3
178	The formation of surface stable anion vacancy states at CeO2 ultra-small crystallite dimensions. *Chemical Physics Letters*, **2012**, 536, 109-112	2.5	2
177	Amine-functionalised SBA-15 of tailored pore size for heavy metal adsorption. *Journal of Colloid and Interface Science*, **2012**, 369, 330-7	9.3	87
176	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, 176-82	9.3	12
175	Random Poly(methyl methacrylate-co-styrene) Brushes by ATRP to Create Neutral Surfaces for Block Copolymer Self-Assembly. *Macromolecular Chemistry and Physics*, **2012**, 213, 108-115	2.6	18

174	Size-tuneable synthesis of nickel nanoparticles. *Journal of Nanoparticle Research*, **2012**, 14, 1	2.3	28
173	"In situ" hard mask materials: a new methodology for creation of vertical silicon nanopillar and nanowire arrays. *Nanoscale*, **2012**, 4, 7743-50	7.7	36
172	The stability of Ce2O3 nanodots in ambient conditions: a study using block copolymer templated structures. *Journal of Materials Chemistry*, **2012**, 22, 22949		33
171	Block copolymer lithography: Feature size control and extension by an over-etch technique. *Thin Solid Films*, **2012**, 522, 318-323	2.2	20
170	Potential overpressure of tetrachlorosilane when sealed with rubber septa. *Journal of Chemical Health and Safety*, **2012**, 19, 37-38	1.7	
169	Nanotechnologies in the food industry Recent developments, risks and regulation. *Trends in Food Science and Technology*, **2012**, 24, 30-46	15.3	458
168	Nanoporous polymeric nanofibers based on selectively etched PS-b-PDMS block copolymers. *ACS Applied Materials & Interfaces*, **2012**, 4, 280-5	9.5	18
167	Non-solvolytic synthesis of aqueous soluble TiO2 nanoparticles and real-time dynamic measurements of the nanoparticle formation. *Nanoscale Research Letters*, **2012**, 7, 297	5	10
166	Large-scale parallel arrays of silicon nanowires via block copolymer directed self-assembly. *Nanoscale*, **2012**, 4, 3228-36	7.7	56
165	Manufacture and characterization of gelatin films derived from beef, pork and fish sources using twin screw extrusion. *Journal of Food Engineering*, **2012**, 113, 606-614	6	47
164	Freestanding bucky paper with high strength from multi-wall carbon nanotubes. *Materials Chemistry and Physics*, **2012**, 135, 921-927	4.4	18
163	Selective sidewall wetting of polymer blocks in hydrogen silsesquioxane directed self-assembly of PS-b-PDMS. *ACS Applied Materials & Interfaces*, **2012**, 4, 4637-42	9.5	25
162	Removal of formaldehyde from air using functionalized silica supports. *Environmental Science & Technology*, **2012**, 46, 13354-60	10.3	59
161	A general method for controlled nanopatterning of oxide dots: a microphase separated block copolymer platform. *Journal of Materials Chemistry*, **2012**, 22, 12083		47
160	Inherent control of growth, morphology, and defect formation in germanium nanowires. *Nano Letters*, **2012**, 12, 5654-63	11.5	27
159	Brushless and controlled microphase separation of lamellar polystyrene-b-polyethylene oxide thin films for block copolymer nanolithography. *Journal of Polymer Science, Part B: Polymer Physics*, **2012**, 50, 904-909	2.6	4
158	Large scale monodisperse hexagonal arrays of superparamagnetic iron oxides nanodots: a facile block copolymer inclusion method. *Advanced Materials*, **2012**, 24, 2390-7	24	52
157	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, 041602	1.3	12

156	Quantified Comparison of Ordering in Self-Assembled Block Copolymer Films of Different Molecular Weights by Image Analysis Method. *Materials Research Society Symposia Proceedings*, **2012**, 1412, 20		1
155	Block Copolymer Self-assembly on Ethylene Glycol (EG) Self-assembled Monolayer (SAM) for Nanofabrication. *Materials Research Society Symposia Proceedings*, **2012**, 1450, 1		
154	Soft Graphoepitaxy of Hexagonal PS-b-PDMS on Nanopatterned POSS Surfaces fabricated by Nanoimprint Lithography. *Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]*, **2012**, 25, 239-244	0.7	11
153	Plasma etch technologies for the development of ultra-small feature size transistor devices. *Journal Physics D: Applied Physics*, **2011**, 44, 174012	3	73
152	Cyclical "flipping" of morphology in block copolymer thin films. *ACS Nano*, **2011**, 5, 4617-23	16.7	62
151	Surface-directed dewetting of a block copolymer for fabricating highly uniform nanostructured microdroplets and concentric nanorings. *ACS Nano*, **2011**, 5, 1073-85	16.7	34
150	A new methodology for studying nanoparticle interactions in biological systems: dispersing titania in biocompatible media using chemical stabilisers. *Nanoscale*, **2011**, 3, 4617-24	7.7	20
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