

Byron D Gates

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

150
papers

21,059
citations

41
h-index

145
g-index

181
ext. papers

22,156
ext. citations

9.9
avg, IF

6.54
L-index

#	Paper	IF	Citations
150	Nanocatalysts for proton exchange fuel cells: design, preparation, and utilization 2022 , 465-545		1
149	Review Surface Coatings for Cathodes in Lithium Ion Batteries: From Crystal Structures to Electrochemical Performance. <i>Journal of the Electrochemical Society</i> , 2022 , 169, 043504	3.9	4
148	Electrochemical Pressure Impedance Spectroscopy for Polymer Electrolyte Fuel Cells via Back-Pressure Control. <i>Journal of the Electrochemical Society</i> , 2022 , 169, 044510	3.9	1
147	Improved Resilience and Uniformity in Polysulfone Blends from an Accelerated Grafting Ring-Opening Polymerization Reaction with Benzoxazine. <i>Macromolecules</i> , 2021 , 54, 10017-10030	5.5	1
146	Lithium niobate particles with a tunable diameter and porosity for optical second harmonic generation.. <i>RSC Advances</i> , 2021 , 12, 822-833	3.7	0
145	Gel-like State of Nickel Hydroxide Created by Electrochemical Aging under Alkaline Conditions. <i>ACS Applied Energy Materials</i> , 2021 , 4, 10668-10681	6.1	0
144	Tuning the Surface Chemistry of Second-Harmonic-Active Lithium Niobate Nanoprobes Using a Silanol-Alcohol Condensation Reaction. <i>Langmuir</i> , 2021 , 37, 7689-7700	4	0
143	Single Nanoflake Hexagonal Boron Nitride Harmonic Generation with Ultralow Pump Power. <i>ACS Photonics</i> , 2021 , 8, 1922-1926	6.3	2
142	Arrays of Microscale Linear Ridges with Self-Cleaning Functionality for the Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 2399-2413	9.5	4
141	Room-temperature synthesis, growth mechanisms and opto-electronic properties of organic/inorganic halide perovskite CH ₃ NH ₃ PbX ₃ (X = I, Br, and Cl) single crystals. <i>CrystEngComm</i> , 2021 , 23, 3326-3339	3.3	2
140	Elucidating the role of precursors in synthesizing single crystalline lithium niobate nanomaterials: a study of effects of lithium precursors on nanoparticle quality. <i>Nanoscale</i> , 2021 , 13, 3214-3226	7.7	0
139	Contact transfer of engineered nanomaterials in the workplace. <i>Royal Society Open Science</i> , 2021 , 8, 210341	3.1	1
138	Enabling a High-Throughput Characterization of Microscale Interfaces within Coated Cathode Particles. <i>ACS Applied Energy Materials</i> , 2021 , 4, 9731-9741	6.1	0
137	Size Fractionation of Titania Nanoparticles in Wild Grown in a Native Environment. <i>Environmental Science & Technology</i> , 2020 , 54, 8649-8657	10.3	4
136	Differentiation of Nanoparticles Isolated from Distinct Plant Species Naturally Growing in a Heavy Metal Polluted Site. <i>Journal of Hazardous Materials</i> , 2020 , 386, 121644	12.8	8
135	Electrochemically Aged Ni Electrodes Supporting NiFe ₂ O ₄ Nanoparticles for the Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2020 , 3, 387-400	6.1	6
134	Patterning Catalyst Layers with Microscale Features by Soft Lithography Techniques for Proton Exchange Membrane Fuel Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 478-486	6.1	9

133	Direct Photolithographic Deposition of Color-Coded Anti-Counterfeit Patterns with Titania Encapsulated Upconverting Nanoparticles. <i>Advanced Optical Materials</i> , 2020 , 8, 2000664	8.1	5
132	Microstructured membranes for improving transport resistances in proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 1304-1312	6.7	11
131	Tuning the Composition and Porosity of Structured Catalytic Supports for Electrocatalysts Used in Fuel Cells. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2162-2163	0.5	
130	Template assisted preparation of high surface area macroporous supports with uniform and tunable nanocrystal loadings. <i>Nanoscale</i> , 2019 , 11, 1937-1948	7.7	4
129	Using a Microfluidics System to Reproducibly Synthesize Protein Nanoparticles: Factors Contributing to Size, Homogeneity, and Stability. <i>Processes</i> , 2019 , 7, 290	2.9	6
128	Influence of Electrochemical Aging on Bead-Blasted Nickel Electrodes for the Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2019 , 2, 3166-3178	6.1	4
127	One-pot synthesis of sub-10 nm LiNbO ₃ nanocrystals exhibiting a tunable optical second harmonic response. <i>Nanoscale Advances</i> , 2019 , 1, 2268-2275	5.1	8
126	Mesoporous Platinum Prepared by Electrodeposition for Ultralow Loading Proton Exchange Membrane Fuel Cells. <i>Scientific Reports</i> , 2019 , 9, 4161	4.9	16
125	Novel defect-fluorite pyrochlore sodium niobate nanoparticles: solution-phase synthesis and radiation tolerance analysis. <i>Nanoscale</i> , 2019 , 11, 5489-5498	7.7	4
124	Tunable functionalization of silica coated iron oxide nanoparticles achieved through a silanol-alcohol condensation reaction. <i>Chemical Communications</i> , 2019 , 55, 10452-10455	5.8	7
123	Synthesis of Defect-Fluorite Pyrochlore Sodium Niobate Nanoparticles and Characterization of their Tolerance to Neutron Radiation. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1622-1623	0.5	
122	Green solvent assisted synthesis of cesium bismuth halide perovskite nanocrystals and the influences of slow and fast anion exchange rates. <i>Nanoscale Advances</i> , 2019 , 1, 4442-4449	5.1	11
121	Synthesis of Lithium Niobate Nanocrystals with Size Focusing through an Ostwald Ripening Process. <i>Chemistry of Materials</i> , 2018 , 30, 2028-2035	9.6	31
120	Nanoscale thin films of niobium oxide on platinum surfaces: creating a platform for optimizing material composition and electrochemical stability. <i>Canadian Journal of Chemistry</i> , 2018 , 96, 260-266	0.9	
119	Determining the thickness of aliphatic alcohol monolayers covalently attached to silicon oxide surfaces using angle-resolved X-ray photoelectron spectroscopy. <i>Applied Surface Science</i> , 2018 , 436, 907-911	6.7	2
118	Modifying the Surface Properties of Indium Tin Oxide with Alcohol-Based Monolayers for Use in Organic Electronics. <i>ACS Applied Nano Materials</i> , 2018 , 1, 2237-2248	5.6	9
117	Regular Dimpled Nickel Surfaces for Improved Efficiency of the Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2018 , 1, 1771-1782	6.1	14
116	Synthesis and Characterization of Tunable, pH-Responsive Nanoparticle-Microgel Composites for Surface-Enhanced Raman Scattering Detection. <i>ACS Omega</i> , 2018 , 3, 10572-10588	3.9	8

115	Hexagonal Arrays of Cylindrical Nickel Microstructures for Improved Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7036-7043	9.5	15
114	Covalent Surface Modification of Silicon Oxides with Alcohols in Polar Aprotic Solvents. <i>Langmuir</i> , 2017 , 33, 8707-8715	4	6
113	In situ X-ray absorption spectroscopic studies of magnetic Fe@FexOy/Pd nanoparticle catalysts for hydrogenation reactions. <i>Catalysis Today</i> , 2017 , 291, 180-186	5.3	5
112	Block copolymer templated synthesis of PtIr bimetallic nanocatalysts for the formic acid oxidation reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 21514-21527	13	24
111	Ordered Porous Electrodes by Design: Toward Enhancing the Effective Utilization of Platinum in Electrocatalysis. <i>Advanced Functional Materials</i> , 2017 , 27, 1703171	15.6	20
110	Surfactant Controlled Growth of Niobium Oxide Nanorods. <i>Crystal Growth and Design</i> , 2017 , 17, 4637-4646	16	20
109	Rapid Covalent Modification of Silicon Oxide Surfaces through Microwave-Assisted Reactions with Alcohols. <i>Langmuir</i> , 2016 , 32, 7284-93	4	12
108	Revealing 3D Information of Porous Catalytic Structures Prepared by Template Methods. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1360-1361	0.5	1
107	Fine Tuned Seed Mediated Synthesis and Photothermal Response of Gold Nanorods. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1086-1087	0.5	
106	Improving Worker Safety for Handling Nanomaterials at the Benchtop. <i>Microscopy and Microanalysis</i> , 2016 , 22, 2050-2051	0.5	
105	Altering Surface Charge of Silica Nanoparticles through Co-condensation of Choline Chloride and Tetraethyl Orthosilicate (TEOS). <i>MRS Advances</i> , 2016 , 1, 2115-2123	0.7	0
104	Tuning Oleophobicity of Silicon Oxide Surfaces with Mixed Monolayers of Aliphatic and Fluorinated Alcohols. <i>Langmuir</i> , 2016 , 32, 13030-13039	4	7
103	Hierarchical surface coatings of polystyrene nanofibers and silica microparticles with rose petal wetting properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 498, 42-49	5.1	8
102	Self-assembly of nanoparticles onto the surfaces of polystyrene spheres with a tunable composition and loading. <i>Nanotechnology</i> , 2015 , 26, 055601	3.4	5
101	Microwave assisted formation of monoreactive perfluoroalkylsilane-based self-assembled monolayers. <i>Chemical Communications</i> , 2015 , 51, 2060-3	5.8	5
100	Verifying the Structure and Composition of Prepared Porous Catalytic Supports. <i>Microscopy and Microanalysis</i> , 2015 , 21, 2131-2132	0.5	
99	Nanoparticle Safety in the Workplace: Developing a Methodology to Monitor and Remediate Spills. <i>Microscopy and Microanalysis</i> , 2015 , 21, 627-628	0.5	
98	Improved Adhesion and Compliancy of Hierarchical Fibrillar Adhesives. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 16410-7	9.5	2

97	Harnessing tunable scanning probe techniques to measure shear enhanced adhesion of gecko-inspired fibrillar arrays. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 2340-8	9.5	2
96	Material versatility using replica molding for large-scale fabrication of high aspect-ratio, high density arrays of nano-pillars. <i>Nanotechnology</i> , 2014 , 25, 285303	3.4	9
95	Electrochemically active nickel foams as support materials for nanoscopic platinum electrocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 12046-61	9.5	58
94	Colloidal core-shell materials with spiky surfaces assembled from gold nanorods. <i>Chemical Communications</i> , 2014 , 50, 8157-60	5.8	12
93	Simultaneous patterning of two different types of nanoparticles into alternating domains of a striped array of a polymer blend in a single spin-casting step. <i>Journal of Colloid and Interface Science</i> , 2014 , 433, 123-132	9.3	2
92	A proposed mechanism of the influence of gold nanoparticles on DNA hybridization. <i>ACS Nano</i> , 2014 , 8, 6765-77	16.7	31
91	Determining adhesion of nonuniform arrays of fibrils. <i>Journal of Adhesion Science and Technology</i> , 2014 , 28, 320-336	2	5
90	Ordered Porous Gold Electrodes to Enhance the Sensitivity of Enzyme-Based Glucose Sensors. <i>Journal of the Electrochemical Society</i> , 2014 , 161, B3103-B3106	3.9	14
89	Platinum Ordered Porous Electrodes: Developing a Platform for Fundamental Electrochemical Characterization. <i>Electrocatalysis</i> , 2013 , 4, 179-186	2.7	22
88	Measuring Shear-Induced Adhesion of Gecko-Inspired Fibrillar Arrays Using Scanning Probe Techniques. <i>Macromolecular Reaction Engineering</i> , 2013 , 7, 638-645	1.5	4
87	SU-8- and PDMS-based hybrid fabrication technology for combination of permanently bonded flexible and rigid features on a single device. <i>Journal of Micromechanics and Microengineering</i> , 2013 , 23, 065029	2	11
86	Comprehensive structural, surface-chemical and electrochemical characterization of nickel-based metallic foams. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 6712-22	9.5	55
85	Tunable loading of single-stranded DNA on gold nanorods through the displacement of polyvinylpyrrolidone. <i>Analytical Chemistry</i> , 2013 , 85, 9960-7	7.8	26
84	Surface-initiated atom transfer radical polymerization-induced transformation of selenium nanowires into copper selenide@polystyrene core-shell nanowires. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 9546-53	9.5	7
83	Optically Active Nanoparticle Coated Polystyrene Spheres. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1546, 1		1
82	Optimizing the quality of monoreactive perfluoroalkylsilane-based self-assembled monolayers. <i>Langmuir</i> , 2012 , 28, 11790-801	4	15
81	Synthesis of selenium nano-composite (t-Se@PS) by surface initiated atom transfer radical polymerization. <i>Chemical Communications</i> , 2012 , 48, 8589-91	5.8	7
80	Photothermal release of small molecules from gold nanoparticles in live cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012 , 8, 908-15	6	25

79	Directed polystyrene/poly(methyl methacrylate) phase separation and nanoparticle ordering on transparent chemically patterned substrates. <i>Langmuir</i> , 2012 , 28, 10838-48	4	10
78	p-type doping of GaAs nanowires using carbon. <i>Journal of Applied Physics</i> , 2012 , 112, 094323	2.5	14
77	The Stress and Microstructure analysis of Polycrystalline Silicon Films Deposited by LPCVD. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1426, 263-268		2
76	Multifunctional photo- and thermo-responsive copolymer nanoparticles. <i>Dyes and Pigments</i> , 2011 , 89, 230-235	4.6	29
75	Flexible three-dimensional electrochemical glucose sensor with improved sensitivity realized in hybrid polymer microelectromechanical systems technique. <i>Journal of Diabetes Science and Technology</i> , 2011 , 5, 1036-43	4.1	12
74	Patterning block copolymer aggregates via Langmuir-Blodgett transfer to microcontact-printed substrates. <i>Langmuir</i> , 2010 , 26, 5998-6008	4	31
73	Photothermal release of single-stranded DNA from the surface of gold nanoparticles through controlled denaturing and Au-S bond breaking. <i>ACS Nano</i> , 2010 , 4, 6395-403	16.7	117
72	Two-way photoswitching using one type of near-infrared light, upconverting nanoparticles, and changing only the light intensity. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15766-72	16.4	255
71	Electrokinetic assembly of selenium and silver nanowires into macroscopic fibers. <i>ACS Nano</i> , 2010 , 4, 2607-14	16.7	29
70	Mechanism of Calcium Oxalate Monohydrate Kidney Stones Formation: Layered Spherulitic Growth. <i>Chemistry of Materials</i> , 2010 , 22, 1318-1329	9.6	22
69	An efficient method based on the photothermal effect for the release of molecules from metal nanoparticle surfaces. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4166-9	16.4	108
68	Directed assembly of nanowires. <i>Materials Today</i> , 2009 , 12, 34-43	21.8	150
67	Development and characterization of oral lipid-based amphotericin B formulations with enhanced drug solubility, stability and antifungal activity in rats infected with <i>Aspergillus fumigatus</i> or <i>Candida albicans</i> . <i>International Journal of Pharmaceutics</i> , 2009 , 372, 76-84	6.5	99
66	Monitoring and mapping imperfections in silane-based self-assembled monolayers by chemical amplification. <i>Langmuir</i> , 2009 , 25, 9078-84	4	16
65	Hollow metal nanorods with tunable dimensions, porosity, and photonic properties. <i>ACS Nano</i> , 2009 , 3, 1365-72	16.7	64
64	Selective Water Uptake in Calcium Oxalate Monohydrate Kidney Stones. <i>Chemistry of Materials</i> , 2009 , 21, 5016-5021	9.6	1
63	Materials science. Flexible electronics. <i>Science</i> , 2009 , 323, 1566-7	33.3	193
62	A sacrificial SU-8 mask for direct metallization on PDMS. <i>Journal of Micromechanics and Microengineering</i> , 2009 , 19, 115014	2	23

61	Flexible glucose sensor utilizing multilayer PDMS process. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 5749-52	0.9	4
60	PDMS as a sacrificial substrate for SU-8-based biomedical and microfluidic applications. <i>Journal of Micromechanics and Microengineering</i> , 2008 , 18, 095028	2	36
59	Non-Hydrolytic Solution-Phase Synthesis of Anisotropic LiNbO ₃ and Nb ₂ O ₅ Nanostructures. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1087, 82101		1
58	Selective Transfer of Insoluble Particles from a Liquid/Liquid Interface. <i>Advanced Materials</i> , 2008 , 20, 1376-1380	24	4
57	Solution-Phase Synthesis of Crystalline Lithium Niobate Nanostructures. <i>Advanced Materials</i> , 2008 , 20, 4552-4556	24	37
56	Effect of self-assembled monolayers (SAMs) in binding glucose oxidase for electro-enzymatic glucose sensor with gold electrodes. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 2677-80		1
55	Optimizing Growth Rates and Thermal Stability of Silver Nanowires. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1017, 165		2
54	Electro-Enzymatic Sensor for Non-Invasive Glucose Measurement 2007 ,		1
53	A General Approach to Patterning Micron-Scale Particles. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 947, 1		
52	New approaches to nanofabrication: molding, printing, and other techniques. <i>Chemical Reviews</i> , 2005 , 105, 1171-96	68.1	1680
51	Directed Self-Assembly of Spherical Particles on Patterned Electrodes by an Applied Electric Field. <i>Advanced Materials</i> , 2005 , 17, 1507-1511	24	82
50	New Approaches to Nanofabrication: Molding, Printing, and Other Techniques. <i>ChemInform</i> , 2005 , 36, no		2
49	Nanofabrication with molds & stamps. <i>Materials Today</i> , 2005 , 8, 44-49	21.8	35
48	Water-soluble sacrificial layers for surface micromachining. <i>Small</i> , 2005 , 1, 730-6	11	149
47	Fabrication of planar optical waveguides by electrical microcontact printing. <i>Applied Physics Letters</i> , 2004 , 84, 1623-1625	3.4	37
46	One-dimensional nanostructures of chalcogens and chalcogenides. <i>International Journal of Nanotechnology</i> , 2004 , 1, 86	1.5	18
45	Shear patterning of microdominos: a new class of procedures for making micro- and nanostructures. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 2780-3	16.4	26
44	Shear Patterning of Microdominos: A New Class of Procedures for Making Micro- and Nanostructures. <i>Angewandte Chemie</i> , 2004 , 116, 2840-2843	3.6	4

43	Fabrication of metal structures with nanometer-scale lateral dimensions by sectioning using a microtome. <i>Journal of the American Chemical Society</i> , 2004 , 126, 1332-3	16.4	77
42	UNCONVENTIONAL NANOFABRICATION. <i>Annual Review of Materials Research</i> , 2004 , 34, 339-372	12.8	310
41	MACROPOROUS MATERIALS CONTAINING THREE-DIMENSIONALLY PERIODIC STRUCTURES 2003 , 69-100		10
40	Fabrication and characterization of photonic crystals with well-controlled thickness and stop-band attenuation. <i>Applied Physics A: Materials Science and Processing</i> , 2003 , 76, 509-513	2.6	23
39	One-Dimensional Nanostructures: Synthesis, Characterization, and Applications. <i>Advanced Materials</i> , 2003 , 15, 353-389	24	7667
38	One-Dimensional Nanostructures: Synthesis, Characterization, and Applications. <i>ChemInform</i> , 2003 , 34, no		4
37	Replication of vertical features smaller than 2 nm by soft lithography. <i>Journal of the American Chemical Society</i> , 2003 , 125, 14986-7	16.4	102
36	A Sonochemical Approach to the Synthesis of Crystalline Selenium Nanowires in Solutions and on Solid Supports. <i>Advanced Materials</i> , 2002 , 14, 1749-1752	24	193
35	Synthesis and Characterization of Uniform Nanowires of Trigonal Selenium. <i>Advanced Functional Materials</i> , 2002 , 12, 219	15.6	340
34	Synthesis and Characterization of Crystalline Ag ₂ Se Nanowires Through a Template-Engaged Reaction at Room Temperature. <i>Advanced Functional Materials</i> , 2002 , 12, 679-686	15.6	131
33	Fabrication and Wetting Properties of Metallic Half-Shells with Submicron Diameters. <i>Nano Letters</i> , 2002 , 2, 891-894	11.5	319
32	Crystalline Silver Nanowires by Soft Solution Processing. <i>Nano Letters</i> , 2002 , 2, 165-168	11.5	1304
31	Synthesis and characterization of stable aqueous dispersions of silver nanoparticles through the Tollens process. <i>Journal of Materials Chemistry</i> , 2002 , 12, 522-527		403
30	Chalcogen nanowires: synthesis and properties 2002 , 4807, 208		
29	Current Chemistry: Building Complex Structures from Monodisperse Spherical Colloids. <i>Australian Journal of Chemistry</i> , 2001 , 54, 287	1.2	10
28	Large-Scale Synthesis of Monodisperse Nanorods of Se/Te Alloys Through a Homogeneous Nucleation and Solution Growth Process. <i>Advanced Materials</i> , 2001 , 13, 1380-1384	24	101
27	Functionalized Carbon Nanotubes for Molecular Hydrogen Sensors. <i>Advanced Materials</i> , 2001 , 13, 1384-1386	24	887
26	Photonic Crystals That Can Be Addressed with an External Magnetic Field. <i>Advanced Materials</i> , 2001 , 13, 1605-1608	24	82

25	Single-crystalline nanowires of Ag(2)Se can be synthesized by templating against nanowires of trigonal Se. <i>Journal of the American Chemical Society</i> , 2001 , 123, 11500-1	16.4	229
24	Photonic band-gap properties of opaline lattices of spherical colloids doped with various concentrations of smaller colloids. <i>Applied Physics Letters</i> , 2001 , 78, 3178-3180	3.4	56
23	Synthesis and Characterization of Mesoscopic Hollow Spheres of Ceramic Materials with Functionalized Interior Surfaces. <i>Chemistry of Materials</i> , 2001 , 13, 1146-1148	9.6	163
22	Template-assisted self-assembly: a practical route to complex aggregates of monodispersed colloids with well-defined sizes, shapes, and structures. <i>Journal of the American Chemical Society</i> , 2001 , 123, 8718-29	16.4	740
21	Growth of Large Crystals of Monodispersed Spherical Colloids in Fluidic Cells Fabricated Using Non-photolithographic Methods. <i>Langmuir</i> , 2001 , 17, 6344-6350	4	86
20	A Soft Lithographic Approach to the Fabrication of Single Crystalline Silicon Nanostructures with Well-Defined Dimensions and Shapes. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 636, 421		1
19	Fabrication of Micro- and Nanostructures with Monodispersed Colloidal Spheres as the Active Components. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 636, 9151		1
18	Preparation of Mesoscale Hollow Spheres of TiO ₂ and SnO ₂ by Templating Against Crystalline Arrays of Polystyrene Beads. <i>Advanced Materials</i> , 2000 , 12, 206-209	24	744
17	Monodispersed Colloidal Spheres: Old Materials with New Applications. <i>Advanced Materials</i> , 2000 , 12, 693-713	24	1754
16	Tuning the Photonic Bandgap Properties of Crystalline Arrays of Polystyrene Beads by Annealing at Elevated Temperatures. <i>Advanced Materials</i> , 2000 , 12, 653-656	24	97
15	Fabrication and Characterization of Chirped 3D Photonic Crystals. <i>Advanced Materials</i> , 2000 , 12, 1329-1332	24	42
14	A Soft Lithography Approach to the Fabrication of Nanostructures of Single Crystalline Silicon with Well-Defined Dimensions and Shapes. <i>Advanced Materials</i> , 2000 , 12, 1426-1430	24	66
13	Self-assembly of colloidal particles into three-dimensionally ordered arrays and its applications 2000 , 3937, 36		1
12	A Solution-Phase Approach to the Synthesis of Uniform Nanowires of Crystalline Selenium with Lateral Dimensions in the Range of 1000 nm. <i>Journal of the American Chemical Society</i> , 2000 , 122, 12582-12583	16.4	300
11	Soft Lithographic Approach to the Fabrication of Highly Ordered 2D Arrays of Magnetic Nanoparticles on the Surfaces of Silicon Substrates. <i>Langmuir</i> , 2000 , 16, 10369-10375	4	86
10	A Three-Dimensional Photonic Crystal Operating in the Visible Region. <i>Advanced Materials</i> , 1999 , 11, 462-466	24	75
9	Assembly of Nanoparticles into Opaline Structures over Large Areas. <i>Advanced Materials</i> , 1999 , 11, 466-469	24	123
8	Fabrication and Characterization of Porous Membranes with Highly Ordered Three-Dimensional Periodic Structures. <i>Chemistry of Materials</i> , 1999 , 11, 2827-2836	9.6	190

7	Fabrication of three-dimensional photonic crystals for use in the spectral region from ultraviolet to near-infrared. <i>Journal of Lightwave Technology</i> , 1999 , 17, 1956-1962	4	4 ¹
6	Fabrication and Characterization of 2D and 3D Ordered Arrays of Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 571, 115		
5	Self-Assembly of Meso- and Nanoparticles into 3d Ordered Arrays and its Applications. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 576, 149		1
4	Synthesis, Characterization, and Utilization of Single Crystalline Nanoparticles of Silver. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 581, 83		
3	A Three-Dimensional Photonic Crystal Operating in the Visible Region 1999 , 11, 462		1
2	Assembly of Nanoparticles into Opaline Structures over Large Areas 1999 , 11, 466		3
1	Thiophene hydrodesulfurization over bimetallic and promoted nitride catalysts. <i>Catalysis Letters</i> , 1998 , 56, 165-171	2.8	26