Geoffrey A Ozin

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.

147 papers	20,027 citations	65 h-index	141 g-index
156 ext. papers	21,006 ext. citations	17 avg, IF	6.76 L-index

#	Paper	IF	Citations
147	Single-Stimulus-Induced Modulation of Multiple Optical Properties. *Advanced Materials*, **2019**, 31, e1900388	24	27
146	Enhanced photothermal reduction of gaseous CO2 over silicon photonic crystal supported ruthenium at ambient temperature. *Energy and Environmental Science*, **2018**, 11, 3443-3451	35.4	53
145	Slow Photons for Photocatalysis and Photovoltaics. *Advanced Materials*, **2017**, 29, 1605349	24	91
144	Electroactive Nanoporous Metal Oxides and Chalcogenides by Chemical Design. *Chemistry of Materials*, **2017**, 29, 3663-3670	9.6	6
143	Sandwich-Type Nanocomposite of Reduced Graphene Oxide and Periodic Mesoporous Silica with Vertically Aligned Mesochannels of Tunable Pore Depth and Size. *Advanced Functional Materials*, **2017**, 27, 1704066	15.6	10
142	Porous NIR Photoluminescent Silicon Nanocrystals-POSS Composites. *Advanced Functional Materials*, **2016**, 26, 5102-5110	15.6	18
141	Exploring the possibilities and limitations of a nanomaterials genome. *Small*, **2015**, 11, 64-9	11	14
140	Quiescent hydrothermal synthesis of reduced graphene oxide–periodic mesoporous silica sandwich nanocomposites with perpendicular mesochannel alignments. *Adsorption*, **2014**, 20, 267-274	2.6	10
139	Nanometer-Scale Precision Tuning of 3D Photonic Crystals Made Possible Using Polyelectrolytes with Controlled Short Chain Length and Narrow Polydispersity. *Advanced Materials Interfaces*, **2014**, 1, 1300051	4.6	3
138	Controlling morphology and porosity to improve performance of molecularly imprinted sol-gel silica. *Chemical Society Reviews*, **2014**, 43, 911-33	58.5	247
137	Bottom-up assembly of photonic crystals. *Chemical Society Reviews*, **2013**, 42, 2528-54	58.5	515
136	Assembling photoluminescent silicon nanocrystals into periodic mesoporous organosilica. *Journal of the American Chemical Society*, **2012**, 134, 8439-46	16.4	47
135	Small silicon, big opportunities: the development and future of colloidally-stable monodisperse silicon nanocrystals. *Advanced Materials*, **2012**, 24, 5890-8	24	77
134	Size-dependent absolute quantum yields for size-separated colloidally-stable silicon nanocrystals. *Nano Letters*, **2012**, 12, 337-42	11.5	260
133	Using shape for self-assembly. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2012**, 370, 2824-47	3	78
132	Spatially confined redox chemistry in periodic mesoporous hydridosilica-nanosilver grown in reducing nanopores. *Journal of the American Chemical Society*, **2011**, 133, 17454-62	16.4	27
131	Anomalous flow of light near a photonic crystal pseudo-gap. *Optics Express*, **2011**, 19, 25320-7	3.3	8

130	Nanoparticle films and photonic crystal multilayers from colloidally stable, size-controllable zinc and iron oxide nanoparticles. *ACS Nano*, **2011**, 5, 2861-9	16.7	46
129	Photonic-Crystal Display Materials. *Information Display*, **2011**, 27, 26-29	0.8	4
128	5.2: Photonic Crystal Display Materials. *Digest of Technical Papers SID International Symposium*, **2011**, 42, 40-41	0.5	1
127	The effect of solvent in evaporation-induced self-assembly: A case study of benzene periodic mesoporous organosilica. *Science China Chemistry*, **2011**, 54, 1920-1925	7.9	1
126	From ideas to innovation: nanochemistry as a case study. *Small*, **2011**, 7, 49-54	11	5
125	Germanium nanocrystal doped inverse crystalline silicon opal. *Journal of Materials Chemistry*, **2011**, 21, 15895		13
124	Low-k periodic mesoporous organosilica with air walls: POSS-PMO. *Journal of the American Chemical Society*, **2011**, 133, 18082-5	16.4	102
123	Molecularly imprinted mesoporous organosilica. *ACS Nano*, **2011**, 5, 2277-87	16.7	77
122	Water repellent periodic mesoporous organosilicas. *ACS Nano*, **2011**, 5, 1267-75	16.7	41
121	Organic light-emitting diode microcavities from transparent conducting metal oxide photonic crystals. *Nano Letters*, **2011**, 11, 1457-62	11.5	48
120	Photoconductivity in inverse silicon opals enhanced by slow photon effect: Yet another step towards optically amplified silicon photonic crystal solar cells. *Applied Physics Letters*, **2011**, 98, 072106	3.4	17
119	Stimuli-responsive Bragg stacks for chemo-optical sensing applications **2010**,		7
118	Graphene oxide-periodic mesoporous silica sandwich nanocomposites with vertically oriented channels. *ACS Nano*, **2010**, 4, 7437-50	16.7	143
117	Emerging strategies for the synthesis of highly monodisperse colloidal nanostructures. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2010**, 368, 4229-48	3	20
116	Vacuum-assisted aerosol deposition of a low-dielectric-constant periodic mesoporous organosilica film. *Advanced Materials*, **2010**, 22, 99-102	24	50
115	Why PMO? Towards functionality and utility of periodic mesoporous organosilicas. *Small*, **2010**, 6, 2634-42	11	173
114	Distributed feedback lasing from a composite poly(phenylene vinylene)-nanoparticle one-dimensional photonic crystal. *Nano Letters*, **2009**, 9, 4273-8	11.5	46
113	Silicon Inverse-Opal-Based Macroporous Materials as Negative Electrodes for Lithium Ion Batteries. *Advanced Functional Materials*, **2009**, 19, 1999-2010	15.6	240

112	Tailoring the electrical properties of inverse silicon opals - a step towards optically amplified silicon solar cells. *Advanced Materials*, **2009**, 21, 559-63	24	38
111	Electroactive inverse opal: a single material for all colors. *Angewandte Chemie - International Edition* , **2009**, 48, 943-7	16.4	231
110	Nanofabrication by self-assembly. *Materials Today*, **2009**, 12, 12-23	21.8	239
109	A step towards optically encoded silver release in 1D photonic crystals. *Small*, **2009**, 5, 1498-503	11	31
108	Nanochemistry: what is next?. *Small*, **2009**, 5, 1240-4	11	38
107	Nanoparticle one-dimensional photonic-crystal dye laser. *Small*, **2009**, 5, 2048-52	11	80
106	Controlling the Morphologies of Organometallic Block Copolymers in the 3-Dimensional Spatial Confinement of Colloidal and Inverse Colloidal Crystals. *Macromolecules*, **2008**, 41, 2250-2259	5.5	74
105	Slow photons in the fast lane in chemistry. *Journal of Materials Chemistry*, **2008**, 18, 369-373		114
104	Photonic clays: a new family of functional 1D photonic crystals. *ACS Nano*, **2008**, 2, 2065-74	16.7	96
103	Exceptional reduction of the diffusion constant in partially disordered photonic crystals. *Physical Review Letters*, **2008**, 101, 123901	7.4	38
102	P-Ink and Elast-Ink from lab to market. *Materials Today*, **2008**, 11, 44-51	21.8	84
101	Large-scale synthesis of ultrathin Bi2S3 necklace nanowires. *Angewandte Chemie - International Edition*, **2008**, 47, 3814-7	16.4	123
100	C60-PMO: periodic mesoporous buckyballsilica. *Journal of the American Chemical Society*, **2007**, 129, 15644-9	16.4	48
99	Organosilicas with Chiral Bridges and Self-Generating Mesoporosity. *Chemistry of Materials*, **2007**, 19, 2649-2657	9.6	58
98	Micro-optical Spectroscopy of Stacking Faults in Colloidal Photonic Crystal Films. *AIP Conference Proceedings*, **2007**,	0	1
97	Photonic-crystal full-colour displays. *Nature Photonics*, **2007**, 1, 468-472	33.9	708
96	Multigram scale, solventless, and diffusion-controlled route to highly monodisperse PbS nanocrystals. *Journal of Physical Chemistry B*, **2006**, 110, 671-3	3.4	251
95	Fabry-Perot etalons using colloidal photonic crystal mirrors. *Optics Letters*, **2006**, 31, 3591-3	3	

94	Materials chemistry for low-k materials. *Materials Today*, **2006**, 9, 22-31	21.8	208
93	From colour fingerprinting to the control of photoluminescence in elastic photonic crystals. *Nature Materials*, **2006**, 5, 179-184	27	346
92	Size-dependent extinction coefficients of PbS quantum dots. *Journal of the American Chemical Society*, **2006**, 128, 10337-46	16.4	362
91	Past, present, and future of periodic mesoporous organosilicas-the PMOs. *Accounts of Chemical Research*, **2005**, 38, 305-12	24.3	400
90	Tailoring photonic crystals with nanometer-scale precision using polyelectrolyte multilayers. *Langmuir*, **2005**, 21, 499-503	4	32
89	Engineering porosity in bifunctional periodic mesoporous organosilicas with MT- and DT-type silica building blocks. *Journal of Materials Chemistry*, **2005**, 15, 764		12
88	Block copolymers under periodic, strong three-dimensional confinement. *Journal of the American Chemical Society*, **2005**, 127, 9954-5	16.4	131
87	Colloidal photonic crystal cladded optical fibers: Towards a new type of photonic band gap fiber. *Optics Express*, **2005**, 13, 6454-9	3.3	24
86	Synthesis and characterization of highly amine functionalized mesoporous organosilicas by an "all-in-one" approach. *Journal of Materials Chemistry*, **2005**, 15, 4010		40
85	Challenges and advances in the chemistry of periodic mesoporous organosilicas (PMOs). *Journal of Materials Chemistry*, **2005**, 15, 3716		241
84	Vapor swellable colloidal photonic crystals with pressure tunability. *Journal of Materials Chemistry*, **2005**, 15, 133-138		38
83	Periodic mesoporous organosilicas: self-assembly from bridged cyclic silsesquioxane precursors. *Angewandte Chemie - International Edition*, **2005**, 44, 2107-9	16.4	22
82	Periodic Mesoporous Organosilicas: Self-Assembly from Bridged Cyclic Silsesquioxane Precursors. *Angewandte Chemie*, **2005**, 117, 2145-2147	3.6	
81	Nanocrystals as precursors for flexible functional films. *Small*, **2005**, 1, 1184-7	11	39
80	Measurement of group velocity dispersion for finite size three-dimensional photonic crystals in the near-infrared spectral region. *Applied Physics Letters*, **2005**, 86, 053108	3.4	43
79	Promises and problems of mesoscale materials chemistry or why meso?. *Chemistry - A European Journal*, **2004**, 10, 28-41	4.8	300
78	Sub-nanometer precision modification of the optical properties of three-dimensional polymer-based photonic crystals. *Photonics and Nanostructures - Fundamentals and Applications*, **2004**, 2, 191-198	2.6	8
77	Periodic mesoporous phenylenesilicas with ether or sulfide hinge groups--a new class of PMOs with ligand channels. *Chemical Communications*, **2004**, 2426-7	5.8	50

76	Towards the synthetic all-optical computer: science fiction or reality?. *Journal of Materials Chemistry*, **2004**, 14, 781-794		106
75	Periodic Mesoporous Organosilicas with Phenylene Bridging Groups, 1,4-(CH2)nC6H4 (n = 0⍰). *Chemistry of Materials*, **2004**, 16, 5465-5472	9.6	71
74	Periodic mesoporous organosilicas containing interconnected [Si(CH2)]3 rings. *Science*, **2003**, 302, 266-9	33.3	213
73	Optical Properties of Colloidal Photonic Crystals Confined in Rectangular Microchannels. *Langmuir*, **2003**, 19, 3479-3485	4	32
72	Colloidal crystal films: advances in universality and perfection. *Journal of the American Chemical Society*, **2003**, 125, 15589-98	16.4	515
71	Novel route to periodic mesoporous aminosilicas, PMAs: ammonolysis of periodic mesoporous organosilicas. *Journal of the American Chemical Society*, **2003**, 125, 11662-73	16.4	57
70	Metamorphosis of ordered mesopores to micropores: periodic silica with unprecedented loading of pendant reactive organic groups transforms to periodic microporous silica with tailorable pore size. *Journal of the American Chemical Society*, **2002**, 124, 6383-92	16.4	113
69	Synthesis and characterization of methyl- and vinyl-functionalized ordered mesoporous silicas with high organic content. *Studies in Surface Science and Catalysis*, **2002**, 141, 197-204	1.8	14
68	Recent developments in the synthesis and chemistry of periodic mesoporous organosilicas. *Studies in Surface Science and Catalysis*, **2002**, 1-26	1.8	20
67	Synthesis and properties of 1,3,5-benzene periodic mesoporous organosilica (PMO): novel aromatic PMO with three point attachments and unique thermal transformations. *Journal of the American Chemical Society*, **2002**, 124, 13886-95	16.4	137
66	Polyferrocenylsilane microspheres: synthesis, mechanism of formation, size and charge tunability, electrostatic self-assembly, and pyrolysis to spherical magnetic ceramic particles. *Journal of the American Chemical Society*, **2002**, 124, 12522-34	16.4	105
65	Mechanical stability enhancement by pore size and connectivity control in colloidal crystals by layer-by-layer growth of oxide. *Chemical Communications*, **2002**, 2736-7	5.8	115
64	Periodic Mesoporous Organosilica with Large Cagelike Pores. *Chemistry of Materials*, **2002**, 14, 1903-1905	9.6	147
63	Novel bifunctional periodic mesoporous organosilicas, BPMOs: synthesis, characterization, properties and in-situ selective hydroboration-alcoholysis reactions of functional groups. *Journal of the American Chemical Society*, **2001**, 123, 8520-30	16.4	244
62	Aromatic PMOs: tolyl, xylyl and dimethoxyphenyl groups integrated within the channel walls of hexagonal mesoporous silicas. *Journal of Materials Chemistry*, **2001**, 11, 3202-3206		93
61	Bio-Inspired Nanocomposites: From Synthesis Toward Potential Applications. *Materials Research Society Symposia Proceedings*, **2001**, 707, 551		1
60	Bio-Inspired Nanocomposites: From Synthesis Toward Potential Applications. *Materials Research Society Symposia Proceedings*, **2001**, 711, 1		
59	Metamorphic Channels in Periodic Mesoporous Methylenesilica This work was supported by the NSERC of Canada. M.J.M. is grateful to NSERC for postgraduate (1995-1999) and postdoctoral fellowships (1999-2001). G.A.O. thanks the Killam Foundation for the award of an Isaac Walton Killam research fellowship (1995-1997). *Angewandte Chemie - International Edition*, **2000**, 39, 1808-1811	16.4	208

58	Large-scale synthesis of a silicon photonic crystal with a complete three-dimensional bandgap near 1.5 micrometres. *Nature*, **2000**, 405, 437-40	50.4	1323
57	Writing on the wall with a new synthetic quill. *Chemistry - A European Journal*, **2000**, 6, 2507-11	4.8	112
56	Superparamagnetic Ceramic Nanocomposites: Synthesis and Pyrolysis of Ring-Opened Poly(ferrocenylsilanes) inside Periodic Mesoporous Silica. *Journal of the American Chemical Society*, **2000**, 122, 3878-3891	16.4	97
55	Periodic Mesoporous Organosilicas (PMOs): Nanostructured Organic-Inorganic Hybrid Materials. *Materials Research Society Symposia Proceedings*, **2000**, 628, 1		3
54	New directions in self-assembly:: materials synthesis over all length scales. *Current Opinion in Colloid and Interface Science*, **1999**, 4, 325-337	7.6	56
53	Non-aqueous supramolecular assembly of mesostructured metal germanium sulphides from (Ge4S10)4 clusters. *Nature*, **1999**, 397, 681-684	50.4	228
52	Periodic mesoporous organosilicas with organic groups inside the channel walls. *Nature*, **1999**, 402, 867-871	50.4	1535
51	Photoluminescent Silicon Clusters in Oriented Hexagonal Mesoporous Silica Film. *Advanced Materials*, **1999**, 11, 474-480	24	77
50	1999 Pure or Applied Inorganic Chemistry Award Lecture Curves in chemistry: supramolecular materials taking shape. *Canadian Journal of Chemistry*, **1999**, 77, 2001-2014	0.9	25
49	Synthesis of metal sulfide materials with controlled architecture. *Current Opinion in Solid State and Materials Science*, **1999**, 4, 113-121	12	42
48	Mesostructured Metal Germanium Sulfides. *Journal of the American Chemical Society*, **1999**, 121, 12005-12017	12.1	66
47	Mesochemistry. *Current Opinion in Colloid and Interface Science*, **1998**, 3, 181-193	7.6	50
46	Crystal Structures of a Series of Novel Alkylammonium Phosphates and Their Formation in Aluminophosphate Synthesis Mixtures. *Inorganic Chemistry*, **1998**, 37, 5021-5028	5.1	23
45	Chalcogenide Distribution in Microporous Layered Tin(IV) Thioselenide, TMA2Sn3SxSe7-x, Materials. *Journal of Physical Chemistry B*, **1998**, 102, 2356-2366	3.4	15
44	Nucleation, growth and form of mesoporous silica: role of defects and a language of shape. *Studies in Surface Science and Catalysis*, **1998**, 119-127	1.8	22
43	Morphogenesis of Biomineral and Morphosynthesis of Biomimetic Forms. *Accounts of Chemical Research*, **1997**, 30, 17-27	24.3	190
42	Morphogenesis of shapes and surface patterns in mesoporous silica. *Nature*, **1997**, 386, 692-695	50.4	596
41	Shell mimetics. *Advanced Materials*, **1997**, 9, 662-667	24	92

40	Mesoporous silica with micrometer-scale designs. *Advanced Materials*, **1997**, 9, 811-814	24	84
39	Beyond the hemicylindrical micellar monolayer on graphite: AFM evidence for a lyotropic liquid crystal film. *Advanced Materials*, **1997**, 9, 917-921	24	27
38	Does Microgravity Influence Self-Assembly??. *Advanced Materials*, **1997**, 9, 1133-1149	24	18
37	Hierarchical Inorganic Materials: Stealing Nature Best Secrets **1997**, 323-333		
36	Aluminophosphate Chain-to-Layer Transformation. *Chemistry of Materials*, **1996**, 8, 2391-2398	9.6	130
35	New forms of luminescent silicon: Silicon ilica composite mesostructures. *Chemical Vapor Deposition*, **1996**, 2, 8-13		40
34	Chemical Vapor Deposition Topotaxy in Porous Hosts. *Chemical Vapor Deposition*, **1996**, 2, 97-103		23
33	Self-Assembling Frameworks: Beyond microporous oxides. *Advanced Materials*, **1996**, 8, 13-28	24	245
32	Bones about skeletons. *Advanced Materials*, **1996**, 8, 184-184	24	1
31	Thermally Stable Self-assembling Open-Frameworks: Isostructural Cs+ and (CH3)4N+ Iron Germanium Sulfides. *Chemische Berichte*, **1996**, 129, 283-287		45
30	Synthesis of oriented films of mesoporous silica on mica. *Nature*, **1996**, 379, 703-705	50.4	625
29	Free-standing and oriented mesoporous silica films grown at the air ater interface. *Nature*, **1996**, 381, 589-592	50.4	493
28	Synthesis of inorganic materials with complex form. *Nature*, **1996**, 382, 313-318	50.4	1031
27	Lamellar aluminophosphates with surface patterns that mimic diatom and radiolarian microskeletons. *Nature*, **1995**, 378, 47-50	50.4	316
26	Imaging the surfaces of nanoporous semiconductors by atomic force microscopy. *Advanced Materials*, **1995**, 7, 64-68	24	28
25	Nanoporous tin(IV) sulfides: Thermochemical properties. *Advanced Materials*, **1995**, 7, 166-170	24	21
24	Synthesis and compositional tuning of the band properties of isostructural TMA nSxSe1 Nanoporous Materials. *Advanced Materials*, **1995**, 7, 370-374	24	33
23	Nanoporous tin(IV) chalcogenides: Flexible open-framework nanbmaterials for chemical sensing. *Advanced Materials*, **1995**, 7, 375-378	24	47

22	Metamorphic materials: Restructuring siliceous mesoporous materials*. *Advanced Materials*, **1995**, 7, 842-846	24	188
21	Synthetic hollow aluminophosphate microspheres**. *Advanced Materials*, **1995**, 7, 931-935	24	34
20	Nanoporous tin(IV) sulfides: Mode of formation. *Advanced Materials*, **1994**, 6, 860-865	24	74
19	New Insights into the Mode of Formation of AlPO4-n Molecular Sieves. *Studies in Surface Science and Catalysis*, **1994**, 219-225	1.8	17
18	Nonaqueous Synthesis of Large Zeolite and Molecular Sieve Crystals. *Studies in Surface Science and Catalysis*, **1994**, 84, 93-100	1.8	13
17	The zeolate ligand; zeolite encapsulated semiconductor nanomaterials. *Macromolecular Symposia*, **1994**, 80, 45-61	0.8	8
16	Non-aqueous synthesis of giant crystals of zeolites and molecular sieves. *Nature*, **1993**, 365, 239-242	50.4	267
15	Intrazeolite topotaxy: sodium-23 double-rotation NMR study of transition-metal hexacarbonyls and oxides encapsulated in sodium zeolite Y. *The Journal of Physical Chemistry*, **1992**, 96, 5949-5953		28
14	Zeolates: A Coordination Chemistry View of Metal-Ligand Bonding in Intrazeolite MOCVD Type Precursors and Semiconductor Nanoclusters. *Materials Research Society Symposia Proceedings*, **1992**, 277, 105		4
13	Nanomaterials: Tin(IV) Sulfide Endo-and Exosemiconductors. *Materials Research Society Symposia Proceedings*, **1992**, 286, 93		8
12	Zeolates: a coordination chemistry view of metal-ligand bonding in zeolite guest-host inclusion compounds. *Chemistry of Materials*, **1992**, 4, 511-521	9.6	47
11	Nanochemistry: Synthesis in diminishing dimensions. *Advanced Materials*, **1992**, 4, 612-649	24	1132
10	Doping and Band-Gap Engineering of an Intrazeolite Tungsten(Vi) Oxide Supralatiice. *Materials Research Society Symposia Proceedings*, **1991**, 233, 109		2
9	Mixed semiconductor component quantum supralattices: Silver, sodium chloro, iodo-sodalites. *Advanced Materials*, **1991**, 3, 306-309	24	9
8	Intrazeolite Semiconductor Quantum Dots and Quantum Supralattices. *ACS Symposium Series*, **1991**, 554-581	0.4	9
7	Sodium-23 MAS-NMR and FT-mid-far-IR cation/proton probes of the phototopotactic oxidation of intrazeolite hexacarbonyltungsten(0) to tungsten(VI) oxide quantum dots and supralattices: exploring anchoring sites and aggregation processes. *The Journal of Physical Chemistry*, **1990**, 94, 6939-6943		18
6	Assembling a semiconductor quantum supralattice one atom at a time: nonstoichiometric silver, sodium bromosodalites. *The Journal of Physical Chemistry*, **1990**, 94, 6943-6948		16
5	Intrazeolite metal carbonyl phototopotaxy: from tungsten(VI) oxide quantum dots to a zero-dimensional semiconductor quantum supralattice. *The Journal of Physical Chemistry*, **1990**, 94, 7556-7561		28

4	Intrazeolite metal carbonyl topotaxy. A comprehensive structural and spectroscopic study of intrazeolite Group VI metal hexacarbonyls and subcarbonyls. *Journal of the American Chemical Society*, **1990**, 112, 9575-9586	16.4	79
3	From the molecule to an expanded I-VII semiconductor quantum superlattice: silver, sodium halo-sodalites. *Journal of the American Chemical Society*, **1990**, 112, 904-905	16.4	37
2	Advanced Zeolite, Materials Science. *Angewandte Chemie International Edition in English*, **1989**, 28, 359-376		286
1	Direct Probe Fourier Transform Far-Infrared Spectroscopy of Metal Atoms, Metal Ions, and Metal Clusters in Zeolites. *Catalysis Reviews - Science and Engineering*, **1985**, 27, 591-651	12.6	52