Mark J Maclachlan

List of Publications by Year
in descending order

258	17,481	13827 67	17055 122
papers	citations	h-index	g-index

283	283	283	13991
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Periodic mesoporous organosilicas with organic groups inside the channel walls. Nature, 1999, 402, 867-871.	13.7	1,686
2	Sustainable carbon materials. Chemical Society Reviews, 2015, 44, 250-290.	18.7	997
3	Free-standing mesoporous silica films with tunable chiral nematic structures. Nature, 2010, 468, 422-425.	13.7	837
4	Periodic mesoporous organosilicas, PMOs: fusion of organic and inorganic chemistry â€˜insideâ€™ the channel walls of hexagonal mesoporous silica. Chemical Communications, 1999, , 2539-2540.	2.2	375
5	Responsive Photonic Hydrogels Based on Nanocrystalline Cellulose. Angewandte Chemie - International Edition, 2013, 52, 8912-8916.	7.2	325
6	Functional Materials from Celluloseâ€Đerived Liquidâ€Crystal Templates. Angewandte Chemie - International Edition, 2015, 54, 2888-2910.	7.2	324
7	Highly Stable Keto-Enamine Salicylideneanilines. Organic Letters, 2003, 5, 3823-3826.	2.4	299
8	Shaped Ceramics with Tunable Magnetic Properties from Metal-Containing Polymers. Science, 2000, 287, 1460-1463.	6.0	266
9	Novel Bifunctional Periodic Mesoporous Organosilicas, BPMOs:Â Synthesis, Characterization, Properties and in-Situ Selective Hydroborationâ^'Alcoholysis Reactions of Functional Groups. Journal of the American Chemical Society, 2001, 123, 8520-8530.	6.6	260
10	Non-aqueous supramolecular assembly of mesostructured metal germanium sulphides from (Ge4S10)4â^' clusters. Nature, 1999, 397, 681-684.	13.7	256
11	The Development of Chiral Nematic Mesoporous Materials. Accounts of Chemical Research, 2014, 47, 1088-1096.	7.6	256
12	Metamorphic Channels in Periodic Mesoporous Methylenesilica. Angewandte Chemie - International Edition, 2000, 39, 1808-1811.	7.2	230
13	Iptycenes in supramolecular and materials chemistry. Chemical Society Reviews, 2009, 38, 3301.	18.7	216
14	Chiral Nematic Mesoporous Carbon Derived From Nanocrystalline Cellulose. Angewandte Chemie - International Edition, 2011, 50, 10991-10995.	7.2	209
15	Structure and transformation of tactoids in cellulose nanocrystal suspensions. Nature Communications, 2016, 7, 11515.	5.8	199
16	Unwinding a spiral of cellulose nanocrystals for stimuli-responsive stretchable optics. Nature Communications, 2019, 10, 510.	5.8	199
17	Flexible and Iridescent Chiral Nematic Mesoporous Organosilica Films. Journal of the American Chemical Society, 2012, 134, 867-870.	6.6	194
18	Ion-Induced Tubular Assembly of Conjugated Schiff-Base Macrocycles. Angewandte Chemie - International Edition, 2003, 42, 5307-5310.	7.2	174

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19	New nanocomposites: putting organic function â€œinsideâ€•the channel walls of periodic mesoporous silica. Journal of Materials Chemistry, 2000, 10, 1751-1755.	6.7	166
20	Understanding the Selfâ€Assembly of Cellulose Nanocrystalsâ€”Toward Chiral Photonic Materials. Advanced Materials, 2020, 32, e1905876.	11.1	164
21	Chiral Nematic Assemblies of Silver Nanoparticles in Mesoporous Silica Thin Films. Journal of the American Chemical Society, 2011, 133, 3728-3731.	6.6	158
22	Flexible Mesoporous Photonic Resins with Tunable Chiral Nematic Structures. Angewandte Chemie - International Edition, 2013, 52, 8921-8924.	7.2	154
23	Hard Templating of Nanocrystalline Titanium Dioxide with Chiral Nematic Ordering. Angewandte Chemie - International Edition, 2012, 51, 6886-6890.	7.2	149
24	Metallocavitands: an emerging class of functional multimetallic host molecules. Chemical Society Reviews, 2013, 42, 871-890.	18.7	149
25	Supramolecular Assembly of Zinc Salphen Complexes: Access to Metalâ€Containing Gels and Nanofibers. Angewandte Chemie - International Edition, 2007, 46, 7980-7983.	7.2	148
26	Responsive Mesoporous Photonic Cellulose Films by Supramolecular Cotemplating. Angewandte Chemie - International Edition, 2014, 53, 8880-8884.	7.2	147
27	Supramolecular Assembly and Coordination-Assisted Deaggregation of Multimetallic Macrocycles. Angewandte Chemie - International Edition, 2005, 44, 4178-4182.	7.2	134
28	Writing on the Wall with a New Synthetic Quill. Chemistry - A European Journal, 2000, 6, 2507-2511.	1.7	128
29	New (Inter)Faces: Polymers and Inorganic Materials. Advanced Materials, 2000, 12, 675-681.	11.1	128
30	Oriented Periodic Mesoporous Organosilica (PMO) Film with Organic Functionality Inside the Channel Walls. Advanced Functional Materials, 2001, 11, 213-217.	7.8	123
31	Conjugated shape-persistent macrocycles via Schiff-base condensation: New motifs for supramolecular chemistry. Pure and Applied Chemistry, 2006, 78, 873-888.	0.9	119
32	Biopolymer Templated Glass with a Twist: Controlling the Chirality, Porosity, and Photonic Properties of Silica with Cellulose Nanocrystals. Advanced Functional Materials, 2014, 24, 327-338.	7.8	119
33	Iridescent Chiral Nematic Cellulose Nanocrystal/Polymer Composites Assembled in Organic Solvents. ACS Macro Letters, 2013, 2, 1016-1020.	2.3	118
34	CdS Quantum Dots Encapsulated in Chiral Nematic Mesoporous Silica: New Iridescent and Luminescent Materials. Advanced Functional Materials, 2014, 24, 777-783.	7.8	110
35	Ring-Opening Polymerization of a [1]Silaferrocenophane Within the Channels of Mesoporous Silica: Poly(ferrocenylsilane)-MCM-41 Precursors to Magnetic Iron Nanostructures. Advanced Materials, 1998, 10, 144-149.	11.1	109
36	Genesis of Nanostructured, Magnetically Tunable Ceramics from the Pyrolysis of Cross-Linked Polyferrocenylsilane Networks and Formation of Shaped Macroscopic Objects and Micron Scale Patterns by Micromolding Inside Silicon Wafers. Journal of the American Chemical Society, 2002, 124, 2625-2639.	6.6	107

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37	Superparamagnetic Ceramic Nanocomposites:Â Synthesis and Pyrolysis of Ring-Opened Poly(ferrocenylsilanes) inside Periodic Mesoporous Silica. Journal of the American Chemical Society, 2000, 122, 3878-3891.	6.6	106
38	Synthesis and Metalation of Novel Fluorescent Conjugated Macrocycles. Organic Letters, 2004, 6, 3841-3844.	2.4	106
39	Schiff Base Complexes in Macromolecules. Journal of Inorganic and Organometallic Polymers and Materials, 2007, 17, 57-89.	1.9	105
40	Hydrothermal Gelation of Aqueous Cellulose Nanocrystal Suspensions. Biomacromolecules, 2016, 17, 2747-2754.	2.6	104
41	Coordination Compounds of Schiff-Base Ligands Derived from Diaminomaleonitrile (DMN):Â Mononuclear, Dinuclear, and Macrocyclic Derivatives. Inorganic Chemistry, 1996, 35, 5492-5499.	1.9	100
42	Triptyceneâ€Based Metal Salphensâ€”Exploiting Intrinsic Molecular Porosity for Gas Storage. Chemistry - A European Journal, 2009, 15, 11824-11828.	1.7	100
43	Heptametallic Bowl-Shaped Complexes Derived from Conjugated Schiff-Base Macrocycles:Â Synthesis, Characterization, and X-ray Crystal Structures. Inorganic Chemistry, 2006, 45, 5248-5250.	1.9	99
44	Tunable Mesoporous Bilayer Photonic Resins with Chiral Nematic Structures and Actuator Properties. Advanced Materials, 2014, 26, 2323-2328.	11.1	97
45	Chiral nematic celluloseâ€“gold nanoparticle composites from mesoporous photonic cellulose. Chemical Communications, 2015, 51, 530-533.	2.2	97
46	Cellulose Nanocrystal Elastomers with Reversible Visible Color. Angewandte Chemie - International Edition, 2020, 59, 226-231.	7.2	96
47	Synthesis, Structure, and Computational Studies of Soluble Conjugated Multidentate Macrocycles. Journal of Organic Chemistry, 2005, 70, 7936-7946.	1.7	89
48	Tactoid Annealing Improves Order in Self-Assembled Cellulose Nanocrystal Films with Chiral Nematic Structures. Langmuir, 2018, 34, 646-652.	1.6	89
49	Metal-containing nanofibers via coordination chemistry. Coordination Chemistry Reviews, 2010, 254, 2363-2390.	9.5	88
50	Imprinting of Photonic Patterns with Thermosetting Amino-Formaldehyde-Cellulose Composites. ACS Macro Letters, 2013, 2, 818-821.	2.3	88
51	Stable and sensitive stimuli-responsive anisotropic hydrogels for sensing ionic strength and pressure. Materials Horizons, 2018, 5, 1076-1081.	6.4	85
52	Zinc Carboxylate Cluster Formation in Conjugated Metallomacrocycles:â€‰ Evidence for Templation. Inorganic Chemistry, 2008, 47, 101-112.	1.9	82
53	Tuning the iridescence of chiral nematic cellulose nanocrystals and mesoporous silica films by substrate variation. Chemical Communications, 2013, 49, 11296.	2.2	81
54	Mesoporous nitrogen-doped carbon from nanocrystalline chitin assemblies. Journal of Materials Chemistry A, 2014, 2, 5915.	5.2	81

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55	Prussian Blue Nanocontainers: Selectively Permeable Hollow Metalâ€“Organic Capsules from Block Ionomer Emulsion-Induced Assembly. Journal of the American Chemical Society, 2011, 133, 8420-8423.	6.6	80
56	Robust Non-Interpenetrating Coordination Frameworks from New Shape-Persistent Building Blocks. Inorganic Chemistry, 2006, 45, 1442-1444.	1.9	77
57	Chiral Nematic Stained Glass: Controlling the Optical Properties of Nanocrystalline Cellulose-Templated Materials. Langmuir, 2012, 28, 17256-17262.	1.6	76
58	Mesostructured Metal Germanium Sulfides. Journal of the American Chemical Society, 1999, 121, 12005-12017.	6.6	75
59	Capsule Formation, Carboxylate Exchange, and DFT Exploration of Cadmium Cluster Metallocavitands: Highly Dynamic Supramolecules. Journal of the American Chemical Society, 2010, 132, 3893-3908.	6.6	75
60	N-Salicylideneanilines:â€‰ Tautomers for Formation of Hydrogen-Bonded Capsules, Clefts, and Chains. Journal of Organic Chemistry, 2006, 71, 775-788.	1.7	74
61	Photonic Patterns Printed in Chiral Nematic Mesoporous Resins. Angewandte Chemie - International Edition, 2015, 54, 4304-4308.	7.2	73
62	Reversibleâ^'Irreversible Approach to Schiff Base Macrocycles:â€‰ Access to Isomeric Macrocycles with Multiple Salphen Pockets. Organic Letters, 2008, 10, 1255-1258.	2.4	72
63	Chiroptical, morphological and conducting properties of chiral nematic mesoporous cellulose/polypyrrole composite films. Journal of Materials Chemistry A, 2017, 5, 19184-19194.	5.2	72
64	Tautomerization in Naphthalenediimines:â€‰ A Keto-Enamine Schiff Base Macrocycle. Organic Letters, 2005, 7, 4827-4830.	2.4	71
65	Synthesis and Structural Investigation of New Triptycene-Based Ligands:â€‰ En Route to Shape-Persistent Dendrimers and Macrocycles with Large Free Volume. Journal of Organic Chemistry, 2007, 72, 8683-8690.	1.7	70
66	Mesoporous Silica-Supported Nanostructured PdO/CeO₂ Catalysts for Low-Temperature Methane Oxidation. ACS Applied Materials & Interfaces, 2018, 10, 477-487.	4.0	70
67	Large, Crackâ€Free Freestanding Films with Chiral Nematic Structures. Advanced Optical Materials, 2013, 1, 295-299.	3.6	69
68	[6 + 6] Schiff-base macrocycles with 12 imines: giant analogues of cyclohexane. Chemical Communications, 2006, , 2480.	2.2	68
69	Mesostructured Prussian Blue Analogues. Angewandte Chemie - International Edition, 2008, 47, 511-514.	7.2	68
70	Organometallic Gels: Characterization and Electrochemical Studies of Swellable, Thermally Crosslinked Poly(ferrocenylsilane)s. Macromolecular Chemistry and Physics, 2001, 202, 1768-1775.	1.1	67
71	Campestarenes: novel shape-persistent Schiff basemacrocycles with 5-fold symmetry. Chemical Communications, 2011, 47, 1169-1171.	2.2	67
72	Novel Route to Periodic Mesoporous Aminosilicas, PMAs:Â Ammonolysis of Periodic Mesoporous Organosilicas. Journal of the American Chemical Society, 2003, 125, 11662-11673.	6.6	65

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73	Transparent Depolarizing Organic and Inorganic Films for Optics and Sensors. Advanced Materials, 2017, 29, 1606083.	11.1	65
74	Aerogel materials with periodic structures imprinted with cellulose nanocrystals. Nanoscale, 2018, 10, 3805-3812.	2.8	65
75	Rotaxanated Conjugated Sensory Polymers. Journal of the American Chemical Society, 2004, 126, 8638-8639.	6.6	64
76	Thermal Switching of the Reflection in Chiral Nematic Mesoporous Organosilica Films Infiltrated with Liquid Crystals. ACS Applied Materials & Interfaces, 2013, 5, 6854-6859.	4.0	63
77	Mesoporous Mn- and La-Doped Cerium Oxide/Cobalt Oxide Mixed Metal Catalysts for Methane Oxidation. ACS Applied Materials & Interfaces, 2015, 7, 11460-11466.	4.0	63
78	Synthesis, Structures, and Properties of Strained Spirocyclic [1]Sila- and [1]Germaferrocenophanes and Tetraferrocenylsilane. Organometallics, 1998, 17, 1873-1883.	1.1	62
79	Columnar Organization of Head-to-Tail Self-Assembled Pt₄ Rings. Journal of the American Chemical Society, 2010, 132, 7668-7675.	6.6	62
80	Biomimetic Chiral Nematic Mesoporous Materials from Crab Cuticles. Advanced Optical Materials, 2014, 2, 1031-1037.	3.6	62
81	Thermal Degradation of Cellulose Filaments and Nanocrystals. Biomacromolecules, 2020, 21, 3374-3386.	2.6	62
82	Mesochemistry. Current Opinion in Colloid and Interface Science, 1998, 3, 181-193.	3.4	60
83	Poly(salphenyleneethynylene)s:Â A New Class of Soluble, Conjugated, Metal-Containing Polymers. Macromolecules, 2003, 36, 5051-5054.	2.2	60
84	Tetraalkoxyphenanthrene:â€‰ A New Precursor for Luminescent Conjugated Polymers. Organic Letters, 2006, 8, 1855-1858.	2.4	60
85	Stimuli-Responsive Anisotropic Materials Based on Unidirectional Organization of Cellulose Nanocrystals in an Elastomer. Macromolecules, 2019, 52, 5317-5324.	2.2	60
86	Optically tunable chiral nematic mesoporous cellulose films. Soft Matter, 2015, 11, 4686-4694.	1.2	58
87	Polymer and Mesoporous Silica Microspheres with Chiral Nematic Order from Cellulose Nanocrystals. Angewandte Chemie - International Edition, 2016, 55, 12460-12464.	7.2	58
88	Pressureâ€Responsive Hierarchical Chiral Photonic Aerogels. Advanced Materials, 2019, 31, e1808186.	11.1	58
89	Freezeâ€“Thaw Gelation of Cellulose Nanocrystals. ACS Macro Letters, 2019, 8, 486-491.	2.3	57
90	CO₂-Switchable Cellulose Nanocrystal Hydrogels. Chemistry of Materials, 2018, 30, 376-385.	3.2	56

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91	Iridescent Cellulose Nanocrystal Films Modified with Hydroxypropyl Cellulose. Biomacromolecules, 2020, 21, 1295-1302.	2.6	53
92	Synthesis of metal sulfide materials with controlled architecture. Current Opinion in Solid State and Materials Science, 1999, 4, 113-121.	5.6	52
93	Poly(salphenyleneethynylene)s: soluble, conjugated metallopolymers that exhibit unique supramolecular crosslinking behavior. Journal of Materials Chemistry, 2007, 17, 1923.	6.7	51
94	Palladium nanoparticles supported on a triptycene-based microporous polymer: highly active catalysts for CO oxidation. Chemical Communications, 2013, 49, 8928.	2.2	51
95	Chiroptical luminescent nanostructured cellulose films. Materials Chemistry Frontiers, 2017, 1, 979-987.	3.2	51
96	Adsorptive removal of Congo red by surfactant modified cellulose nanocrystals: a kinetic, equilibrium, and mechanistic investigation. Cellulose, 2020, 27, 3211-3232.	2.4	50
97	Capsule formation in novel cadmium cluster metallocavitands. Chemical Communications, 2007, , 4480.	2.2	48
98	Synthesis, characterization, and ring-opening polymerization of a novel [1]silaferrocenophane with two ferrocenyl substituents at silicon. Polyhedron, 2000, 19, 275-289.	1.0	46
99	A Rotaxane Exciplex. Journal of the American Chemical Society, 2001, 123, 9180-9181.	6.6	45
100	Nonlinear Optical Properties of Schiffâ€Baseâ€Containing Conductive Polymer Films Electroâ€deposited in Microgravity. Advanced Materials, 2008, 20, 2280-2284.	11.1	45
101	Black Titania with Nanoscale Helicity. Advanced Functional Materials, 2019, 29, 1904639.	7.8	45
102	Tunable Diffraction Gratings from Biosourced Lyotropic Liquid Crystals. Advanced Materials, 2020, 32, e1907376.	11.1	45
103	Ring-Opening Protonolysis of Sila[1]ferrocenophanes as a Route to Stabilized Silylium Ions. Chemistry - A European Journal, 2005, 11, 1989-2000.	1.7	44
104	Biomimetic photonic materials derived from chitin and chitosan. Journal of Materials Chemistry C, 2021, 9, 796-817.	2.7	44
105	Sequential Hydroborationâ€“Alcoholysis and Epoxidationâ€“Ring Opening Reactions of Vinyl Groups in Mesoporous Vinylsilica. Advanced Functional Materials, 2001, 11, 447.	7.8	43
106	Mesoporous Silica and Organosilica Films Templated by Nanocrystalline Chitin. Chemistry - A European Journal, 2013, 19, 15148-15154.	1.7	43
107	Photonic Hydrogels from Chiral Nematic Mesoporous Chitosan Nanofibril Assemblies. Advanced Functional Materials, 2016, 26, 2875-2881.	7.8	43
108	Fabrication of Cellulose Nanocrystal Films through Differential Evaporation for Patterned Coatings. ACS Applied Nano Materials, 2018, 1, 3098-3104.	2.4	43

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109	Bowtieâ€Shaped NiCo₂O₄ Catalysts for Lowâ€Temperature Methane Combustion. Advanced Functional Materials, 2019, 29, 1807519.	7.8	43
110	Mild and Selective Reduction of Imines:â€‰ Formation of an Unsymmetrical Macrocycle. Journal of Organic Chemistry, 2004, 69, 8739-8744.	1.7	42
111	Synthesis and Structures of Novel Luminescent Bent Acenedithiophenes. Organic Letters, 2007, 9, 3571-3573.	2.4	42
112	Coordination Chemistry: New Routes to Mesostructured Materials. Chemistry - A European Journal, 2009, 15, 6552-6559.	1.7	42
113	Supramolecular Assembly of Carbohydrateâ€Functionalized Salphenâ€“Metal Complexes. Chemistry - A European Journal, 2009, 15, 13456-13465.	1.7	42
114	Synthesis, Characterization, and Properties of Symmetrically Substituted, Ring-Opened Poly(ferrocenylalkoxy/aryloxysilanes). Macromolecules, 1998, 31, 5977-5983.	2.2	41
115	Soluble Prussian Blue Nanoworms from the Assembly of Metalâ€“Organic Block Ionomers. Angewandte Chemie - International Edition, 2011, 50, 1597-1602.	7.2	41
116	Liquid crystalline tactoids: ordered structure, defective coalescence and evolution in confined geometries. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170042.	1.6	41
117	Portraits of Porosity: Porous Structures Based on Metal Salen Complexes. European Journal of Inorganic Chemistry, 2012, 2012, 17-30.	1.0	40
118	Liquid crystal templating of nanomaterials with nature's toolbox. Current Opinion in Colloid and Interface Science, 2017, 29, 9-20.	3.4	40
119	Retrieving the Coassembly Pathway of Composite Cellulose Nanocrystal Photonic Films from their Angular Optical Response. Advanced Materials, 2020, 32, e1906889.	11.1	40
120	Synthesis and Crystal Structure ofÎ´-GeS2, the First Germanium Sulfide with an Expanded Framework Structure. Angewandte Chemie - International Edition, 1998, 37, 2075-2079.	7.2	39
121	Cationic guest inclusion in widemouthed Schiff base macrocycles. Chemical Communications, 2009, , 5695.	2.2	39
122	Fibrous aggregates from dinuclear zinc(ii) salphen complexes. Dalton Transactions, 2010, 39, 7310.	1.6	39
123	Spirocyclic [1]Ferrocenophanes:Â Novel Cross-Linking Agents for Ring-Opened Poly(ferrocenes). Macromolecules, 1996, 29, 8562-8564.	2.2	38
124	Spontaneous Hierarchical Assembly of Crown Etherâ€like Macrocycles into Nanofibers and Microfibers Induced by Alkaliâ€Metal and Ammonium Salts. Chemistry - A European Journal, 2010, 16, 2453-2460.	1.7	37
125	CdS-decorated triptycene-based polymer: durable photocatalysts for hydrogen production under visible-light irradiation. Catalysis Science and Technology, 2015, 5, 3368-3374.	2.1	37
126	Biotemplated Lightweight Î³-Alumina Aerogels. Chemistry of Materials, 2018, 30, 1602-1609.	3.2	37

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127	Ring-Opening Protonolysis of Strained Silicon-Containing Rings:Â A New Approach to Ions with Silylium Character. Journal of the American Chemical Society, 2000, 122, 2126-2127.	6.6	36
128	Nearâ€IRâ€Sensitive Upconverting Nanostructured Photonic Cellulose Films. Advanced Optical Materials, 2017, 5, 1600514.	3.6	36
129	Broadband Circular Polarizing Film Based on Chiral Nematic Liquid Crystals. Advanced Optical Materials, 2018, 6, 1800412.	3.6	36
130	Ferrocenylsiloxane Chemistry:Â Synthesis and Characterization of Hexaferrocenylcyclotrisiloxane and Tetraferrocenyldisiloxanediol. Organometallics, 1999, 18, 1337-1345.	1.1	35
131	Bimetallic Schiff base complexes: models for conjugated shape-persistent metallopolymers. Dalton Transactions, 2009, , 5199.	1.6	35
132	Unsymmetrical Triangular Schiff Base Macrocycles with Cone Conformations. Organic Letters, 2010, 12, 1020-1023.	2.4	35
133	SCHIFF BASE MACROCYCLES: RELIABLE TEMPLATES FOR MULTINUCLEAR METALLOCAVITANDS. Comments on Inorganic Chemistry, 2008, 29, 26-45.	3.0	33
134	Ring-opening addition of hydrogen chloride to monocyclic and spirocyclic [1]ferrocenophanes: a convenient and controlled route to ferrocenylchlorosilanes and germanes. New Journal of Chemistry, 1998, 22, 1409-1415.	1.4	31
135	Tuning the photonic properties of chiral nematic mesoporous organosilica with hydrogen-bonded liquid-crystalline assemblies. Journal of Materials Chemistry C, 2015, 3, 1537-1545.	2.7	31
136	Chiral Nematic Cellulose Nanocrystal/Germania and Carbon/Germania Composite Aerogels as Supercapacitor Materials. Chemistry of Materials, 2021, 33, 5197-5209.	3.2	31
137	Magnesiothermic Reduction of Thin Films: Towards Semiconducting Chiral Nematic Mesoporous Silicon Carbide and Silicon Structures. Advanced Functional Materials, 2015, 25, 2175-2181.	7.8	30
138	A porous triptycene-based covalent polymer stabilized binary metal sulfide for enhanced hydrogen evolution under visible light. Chemical Communications, 2018, 54, 3391-3394.	2.2	30
139	Shapeâ€Memory Photonic Thermoplastics from Cellulose Nanocrystals. Advanced Functional Materials, 2021, 31, 2103268.	7.8	30
140	Liquidâ€Crystal Templating in Ammonia: A Facile Route to Microâ€and Mesoporous Metal Nitride/Carbon Composites. Angewandte Chemie - International Edition, 2010, 49, 9740-9743.	7.2	29
141	Molecular Scaffolding of Prussian Blue Analogues Using a Phenanthroline-Extended Triptycene Ligand. Crystal Growth and Design, 2011, 11, 4551-4558.	1.4	28
142	Chiral nematic porous germania and germanium/carbon films. Nanoscale, 2015, 7, 13215-13223.	2.8	28
143	Post-modification of Cellulose Nanocrystal Aerogels with Thiolâ€“Ene Click Chemistry. Biomacromolecules, 2019, 20, 2779-2785.	2.6	28
144	Self-Assembly Route to TiO₂ and TiC with a Liquid Crystalline Order. Chemistry of Materials, 2019, 31, 2174-2181.	3.2	28

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145	Social and Antisocial [3 + 3] Schiff Base Macrocycles with Isomeric Backbones. Journal of Organic Chemistry, 2008, 73, 8069-8072.	1.7	27
146	Anion-templated hexagonal nanotubes. Chemical Science, 2015, 6, 6245-6249.	3.7	27
147	Synthesis and Structure of a Hypercoordinate Silicon-Bridged [1]Ferrocenophane. Organometallics, 2000, 19, 2826-2828.	1.1	26
148	Structural Elucidation of Selective Solvatochromism in a Responsiveâ€atâ€Metal Cyclometalated Platinum(II) Complex. Angewandte Chemie - International Edition, 2020, 59, 10348-10352.	7.2	26
149	Chromic Platinum Complexes Containing Multidentate Ligands. European Journal of Inorganic Chemistry, 2021, 2021, 894-906.	1.0	26
150	Conjugated Thiophene-Containing Oligoacenes Through Photocyclization: Bent Acenedithiophenes and a Thiahelicene. Journal of Organic Chemistry, 2009, 74, 4918-4926.	1.7	25
151	Cellulose Nanocrystal Elastomers with Reversible Visible Color. Angewandte Chemie, 2020, 132, 232-237.	1.6	25
152	Contemporary macrocycles for discrete polymetallic complexes: precise control over structure and function. Chemical Society Reviews, 2021, 50, 10713-10732.	18.7	25
153	Regioselectivity in the Nitration of Dialkoxybenzenes. Journal of Organic Chemistry, 2011, 76, 1285-1294.	1.7	24
154	Novel PPV/Mesoporous Organosilica Composites: Influence of the Host Chirality on a Conjugated Polymer Guest. Langmuir, 2013, 29, 12579-12584.	1.6	24
155	Family of Cadmium Acetate Coordination Networks With Structurally Diverse [Cd₄(OAc)₉(Î¼₃-OH)]^{2â^'}Secondary Building Units. Inorganic Chemistry, 2011, 50, 2957-2965.	1.9	23
156	Helium ion microscopy: a new tool for imaging novel mesoporous silica and organosilica materials. Chemical Communications, 2013, 49, 1645.	2.2	23
157	Photopatterning Freestanding Chiral Nematic Mesoporous Organosilica Films. Advanced Functional Materials, 2017, 27, 1703346.	7.8	23
158	Hydrogenâ€Bonded Liquid Crystals in Confined Spacesâ€”Toward Photonic Hybrid Materials. Advanced Functional Materials, 2018, 28, 1800207.	7.8	23
159	Role of Entropy and Autosolvation in Dimerization and Complexation of C₆₀ by Zn₇ Metallocavitands. Inorganic Chemistry, 2012, 51, 3443-3453.	1.9	22
160	Highly substituted Schiff base macrocycles via hexasubstituted benzene: a convenient double Duff formylation of catechol derivatives. Tetrahedron, 2009, 65, 8113-8119.	1.0	21
161	Hard Photonic Glasses and Corundum Nanostructured Films from Aluminothermic Reduction of Helicoidal Mesoporous Silicas. Chemistry of Materials, 2016, 28, 2581-2588.	3.2	21
162	Polymer and Carbon Spheres with an Embedded Shell of Plasmonic Gold Nanoparticles. ACS Macro Letters, 2015, 4, 1351-1355.	2.3	20

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163	The Rich Tautomeric Behavior of Campestarenes. Chemistry - A European Journal, 2016, 22, 17657-17672.	1.7	20
164	Fe-chitosan complexes for oxidative degradation of emerging contaminants in water: Structure, activity, and reaction mechanism. Journal of Hazardous Materials, 2021, 408, 124662.	6.5	20
165	Soluble Tetraaminotriptycene Precursors. Journal of Organic Chemistry, 2015, 80, 8390-8397.	1.7	19
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