Richard Laine

List of Publications by Year
in descending order

240 papers	11,942 citations	22132 59 h-index	31818 101 g-index
247 all docs	247 docs citations	247 times ranked	6990 citing authors

#	Article	IF	Citations
1	LaTiO₂N nanopowders (NPs) with low surface defect density <i>via</i> nitridation of flame made NPs retaining simple perovskite structure. Dalton Transactions, 2022, 51, 1571-1579.	1.6	3
2	Li+ assisted fast and stable Mg2+ reversible storage in cobalt sulfide cathodes for high performance magnesium/lithium hybrid-ion batteries. Energy Storage Materials, 2022, 46, 583-593.	9.5	14
3	Reactions of metal chlorides with hexamethyldisilazane: Novel precursors to aluminum nitride and beyond. Journal of the American Ceramic Society, 2022, 105, 2474-2488.	1.9	0
4	Silicon carbide (SiC) derived from agricultural waste potentially competitive with silicon anodes. Green Chemistry, 2022, 24, 4061-4070.	4.6	5
5	Li+ additive accelerated structural transformation of MoS2 cathodes for performance-enhancing rechargeable Mg2+ batteries. Materials Today Energy, 2022, 27, 101047.	2.5	5
6	Using amorphous CoS hollow nanocages as cathodes for high-performance magnesium-lithium dual-ion batteries. Applied Surface Science, 2022, 598, 153768.	3.1	6
7	Synthesis and Characterization of Rigid-Rod Polymers with Silsesquioxanes in the Main Chain. Macromolecules, 2022, 55, 5403-5411.	2.2	5
8	Solid electrolytes for lithium-sulfur batteries. , 2022, , 17-47.		0
9	Sodium-based solid electrolytes and interfacial stability. Towards solid-state sodium batteries. Materials Today Communications, 2022, 32, 104009.	0.9	6
10	t â€ZrO 2 toughened Al 2 O 3 freeâ€standing films and as oxidation mitigating thin films on silicon nitride via colloidal processing of flame made nanopowders (NPs). Journal of the American Ceramic Society, 2021, 104, 1281-1296.	1.9	2
11	Adjusting SiO_{2â€‰}:â€‰C mole ratios in rice hull ash (RHA) to control carbothermal reduction to nanostructured SiC, Si₃N₄ or Si₂N₂O composites. Green Chemistry, 2021, 23, 7751-7762.	4.6	9
12	Improved Electrochemical Properties of Li₄Ti₅O₁₂ Nanopowders (NPs) via Addition of LiAlO₂ and Li₆SiON Polymer Electrolytes, Derived from Agricultural Waste. ACS Applied Energy Materials, 2021, 4, 1894-1905.	2.5	7
13	Turning Trash into Treasure: MXene with Intrinsic LiF Solid Electrolyte Interfaces Performs Better and Better during Battery Cycling. Advanced Materials Technologies, 2021, 6, 2000882.	3.0	9
14	Electrochemical Performance of LixSiON Polymer Electrolytes Derived from an Agriculture Waste Product, Rice Hull Ash. ACS Applied Polymer Materials, 2021, 3, 2144-2152.	2.0	2
15	Conjugated Copolymers That Shouldn't Be. Angewandte Chemie, 2021, 133, 11215-11219.	1.6	0
16	Conjugated Copolymers That Shouldn't Be. Angewandte Chemie - International Edition, 2021, 60, 11115-11119.	7.2	25
17	Preparation of Nb-doped TiO2 nanopowder by liquid-feed spray pyrolysis followed by ammonia annealing for tunable visible-light absorption and inhibition of photocatalytic activity. Ceramics International, 2020, 46, 1314-1322.	2.3	22
18	Ce-Substituted Nanograin Na₃Zr₂Si₂PO₁₂ Prepared by LF-FSP as Sodium-Ion Conductors. ACS Applied Materials & Interfaces, 2020, 12, 3502-3509.	4.0	29

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19	Li_xSiON (<i>x</i> = 2, 4, 6): a novel solid electrolyte system derived from agricultural waste. Green Chemistry, 2020, 22, 7491-7505.	4.6	9
20	Photocatalytic plateâ€like La 2 Ti 2 O 7 nanoparticles synthesized via liquidâ€feed flame spray pyrolysis (LFâ€FSP) of metalloâ€organic precursors. Journal of the American Ceramic Society, 2020, 103, 4832-4839.	1.9	12
21	LiAlO₂/LiAl₅O₈ Membranes Derived from Flame-Synthesized Nanopowders as a Potential Electrolyte and Coating Material for All-Solid-State Batteries. ACS Applied Materials & Interfaces, 2020, 12, 46119-46131.	4.0	17
22	Unconventional Conjugation via vinylMeSi(Oâˆ’)₂ Siloxane Bridges May Imbue Semiconducting Properties in [vinyl(Me)SiO(PhSiO_{1.5})₈OSi(Me)vinyl-Ar] Double-Decker Copolymers. ACS Applied Polymer Materials, 2020, 2, 3894-3907.	2.0	13
23	Solid Electrolytes for Liâ€“S Batteries: Solid Solutions of Poly(ethylene oxide) with LixPON- and LixSiPON-Based Polymers. ACS Applied Materials & Interfaces, 2020, 12, 30353-30364.	4.0	19
24	Processing combustion synthesized Mg0.5Zr2(PO4)3 nanopowders to thin films as potential solid electrolytes. Electrochemistry Communications, 2020, 116, 106753.	2.3	5
25	An Approach to Epoxy Resins: Oxysilylation of Epoxides. Macromolecules, 2020, 53, 2249-2263.	2.2	9
26	Design, Synthesis, and Characterization of Polymer Precursors to Li<i>_x</i>PON and Li<i>_x</i>SiPON Glasses: Materials That Enable All-Solid-State Batteries (ASBs). Macromolecules, 2020, 53, 2702-2712.	2.2	13
27	Silica depleted rice hull ash (SDRHA), an agricultural waste, as a high-performance hybrid lithium-ion capacitor. Green Chemistry, 2020, 22, 4656-4668.	4.6	18
28	Polymer Precursor Derived Li_{<i>x</i>}PON Electrolytes: Toward Liâ€“S Batteries. ACS Applied Materials & Interfaces, 2020, 12, 20548-20562.	4.0	7
29	Photocatalytic La4Ti3O12 nanoparticles fabricated by liquid-feed flame spray pyrolysis. Ceramics International, 2020, 46, 18656-18660.	2.3	8
30	Resilience improvement of an isotactic polypropylene-g-maleic anhydride by crosslinking using polyether triamine agents. Polymer, 2019, 179, 121655.	1.8	9
31	Using CoS cathode materials with 3D hierarchical porosity and an ionic liquid (IL) as an electrolyte additive for high capacity rechargeable magnesium batteries. Journal of Materials Chemistry A, 2019, 7, 18880-18888.	5.2	31
32	Processing thin, dense, transparent Ce:Y3Al5O12 films from flame made nanopowders for white light applications. Journal of the European Ceramic Society, 2019, 39, 4972-4978.	2.8	3
33	In Situ Methylation Transforms Aggregationâ€Caused Quenching into Aggregationâ€Induced Emission: Functional Porous Silsesquioxaneâ€Based Composites with Enhanced Nearâ€Infrared Emission. ChemPlusChem, 2019, 84, 1630-1637.	1.3	14
34	Photophysical Properties of Functionalized Double Decker Phenylsilsesquioxane Macromonomers: [PhSiO_{1.5}]₈[OSiMe₂]₂ and [PhSiO_{1.5}]₈[O_{0.5}SiMe₃]₄. Cage-Centered Lowest Unoccupied Molecular Orbitals Form Even When Two Cage Edge Bridges Are Removed, Verified by Modeling and Ultrafast Magnetic Light Scattering Experiments. Macromolecules, 2019, 52, 7413-7422.	2.2	17
35	Ultrafast Excited-State Dynamics of Partially and Fully Functionalized Silsesquioxanes. Journal of Physical Chemistry C, 2019, 123, 5048-5060.	1.5	4
36	Liquid-feed flame spray pyrolysis derived nanopowders (NPs) as a route to electrically conducting calcium aluminate (12CaO.7Al2O3) films. Journal of the European Ceramic Society, 2019, 39, 1263-1270.	2.8	12

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37	Chemical modification in and on single phase [NiO]_{0.5}[Al₂O₃]_{0.5} nanopowders produces â€œchocolate chipâ€likeâ€ Ni_x@[NiO]_{0.5â€x}[Al₂O₃]_{0.5} nanocomposite	1.9	3
38	Photophysical Properties of Partially Functionalized Phenylsilsesquioxane: [RSiO_{1.5}]₇[Me/nPrSiO_{1.5}] and [RSiO_{1.5}]₇[O_{0.5}SiMe₃]₃ (R =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6 ... 2019, 52, 4008-4019.	1.2	14
39	Facile Approach to Recycling Highly Cross-Linked Thermoset Silicone Resins under Ambient Conditions. ACS Omega, 2019, 4, 3782-3789.	1.6	32
40	Processing thin (<10 Âµm), dense, flexible Î±-Al₂O₃ films from nanopowders. Journal of the Ceramic Society of Japan, 2019, 127, 81-89.	0.5	5
41	High Surface Area, Thermally Stable, Hydrophobic, Microporous, Rigid Gels Generated at Ambient from MeSi(OEt)₃/(EtO)₃SiCH₂CH₂Si(OEt)₃ Mixtures by F^{âˆ’}â€Catalyzed Hydrolysis. Chemistry - A European Journal, 2018, 24, 274-280.	1.7	5
42	Chemical modification at and within nanopowders: Synthesis of coreâ€shell Al 2 O 3 @Ti ON nanopowders via nitriding nanoâ€(TiO 2) 0.43 (Al 2 O 3) 0.57 powders in NH 3. Journal of the American Ceramic Society, 2018, 101, 1441-1452.	1.9	2
43	Resettable Heterogeneous Catalyst: (Re)Generation and (Re)Adsorption of Ni Nanoparticles for Repeated Synthesis of Carbon Nanotubes on Niâ€“Alâ€“O Thin Films. ACS Applied Nano Materials, 2018, 1, 5483-5492.	2.4	3
44	Superionically conducting Î²â€²â€²-Al₂O₃ thin films processed using flame synthesized nanopowders. Journal of Materials Chemistry A, 2018, 6, 12411-12419.	5.2	39
45	Facile synthesis, microstructure and photophysical properties of core-shell nanostructured (SiCN)/BN nanocomposites. Scientific Reports, 2017, 7, 39866.	1.6	4
46	Lithium Ion Conducting Poly(ethylene oxide)-Based Solid Electrolytes Containing Active or Passive Ceramic Nanoparticles. Journal of Physical Chemistry C, 2017, 121, 2563-2573.	1.5	222
47	[PhSiO_{1.5}]_{8,10,12}as nanoreactors for non-enzymatic introduction of ortho, meta or para-hydroxyl groups to aromatic molecules. Dalton Transactions, 2017, 46, 8797-8808.	1.6	5
48	Durable and Hydrophobic Organicâ€“Inorganic Hybrid Coatings via Fluoride Rearrangement of Phenyl T₁₂ Silsesquioxane and Siloxanes. ACS Applied Materials & Interfaces, 2017, 9, 8378-8383.	4.0	23
49	Processing YAG/Î±â€Al 2 O 3 composites via reactive sintering Y 2 O 3 /Al 2 O 3 NP mixtures. A superior alternative to bottom up processing using atomically mixed YAlO x NPs. Journal of the American Ceramic Society, 2017, 100, 4500-4510.	1.9	0
50	Key parameters governing the densification of cubic-Li7La3Zr2O12 Li+ conductors. Journal of Power Sources, 2017, 352, 156-164.	4.0	92
51	Bottomâ€up vs reactive sintering of Al 2 O 3 â€“YAGâ€“YSZ composites via one or threeâ€phase nanoparticles (NPs). Bottomâ€up processing wins this time. Journal of the American Ceramic Society, 2017, 100, 2429-2438.	1.9	4
52	Catalyst nucleation and carbon nanotube growth from flame-synthesized Co-Al-O nanopowders at ten-second time scale. Carbon, 2017, 114, 31-38.	5.4	7
53	Facile, one-pot synthesis of Pd@CeO2 core@shell nanoparticles in aqueous environment by controlled hydrolysis of metalloorganic cerium precursor. Materials Letters, 2017, 206, 105-108.	1.3	19
54	Escaping the Tyranny of Carbothermal Reduction: Fumed Silica from Sustainable, Green Sources without First Having to Make SiCl₄. Chemistry - A European Journal, 2016, 22, 2257-2260.	1.7	10

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55	Avoiding Carbothermal Reduction: Distillation of Alkoxysilanes from Biogenic, Green, and Sustainable Sources. Angewandte Chemie, 2016, 128, 1077-1081.	1.6	9
56	Avoiding Carbothermal Reduction: Distillation of Alkoxysilanes from Biogenic, Green, and Sustainable Sources. Angewandte Chemie - International Edition, 2016, 55, 1065-1069.	7.2	39
57	Flame made nanoparticles permit processing of dense, flexible, Li⁺ conducting ceramic electrolyte thin films of cubic-Li₇La₃Zr₂O₁₂ (c-LLZO). Journal of Materials Chemistry A, 2016, 4, 12947-12954.	5.2	131
58	Nucleophilic Attack of R-lithium at Tetrahedral Silicon in Alkoxysilanes. An Alternate Mechanism. Bulletin of the Chemical Society of Japan, 2016, 89, 705-725.	2.0	9
59	Synthesis of Zn1âˆ’x Co x Al2O4 Spinel Nanoparticles by Liquid-Feed Flame Spray Pyrolysis: Ceramic Pigments Application. Jom, 2016, 68, 304-310.	0.9	4
60	D _{5h} [PhSiO_{1.5}]₁₀ synthesis via F^{âˆ’} catalyzed rearrangement of [PhSiO_{1.5}]_n. An experimental/computational analysis of likely reaction pathways. Dalton Transactions, 2016, 45, 1025-1039.	1.6	40
61	Microporous inorganic/organic hybrids via oxysilylation of a cubic symmetry nanobuilding block [(HMe₂SiOSiO_{1.5})₈] with R<i>_x</i>Si(OEt)_{4−}<i>_x</i>. Journal of the Ceramic Society of Japan, 2015, 123, 756-763.	0.5	14
62	Facile thiol-ene reactions of vinyl T₁₀/T₁₂ silsesquioxanes for controlled refractive indices for transparent fiber glass reinforced composites. Journal of the Ceramic Society of Japan, 2015, 123, 725-731.	0.5	4
63	A low cost, low energy route to solar grade silicon from rice hull ash (RHA), a sustainable source. Green Chemistry, 2015, 17, 3931-3940.	4.6	51
64	Synthesis and Characterization of Nanobuilding Blocks [<i>o-</i>RStyrPhSiO_{1.5}]_{10,12} (R = Me, MeO, NBoc, and CN). Unexpected Photophysical Properties Arising from Apparent Asymmetric Cage Functionalization as Supported by Modeling Studies. Journal of Physical Chemistry C, 2015, 119, 15846-15858.	1.5	10
65	Phase Evolution in the Transformation of Atomically Mixed Versus Ballâ€Milled Mixtures of Nanopowders in the Formation of Composite MOÂ·3Al₂O₃ Spinels: Bottomâ€Up Processing is Not Always Optimal. Journal of the American Ceramic Society, 2014, 97, 3442-3451.	1.9	1
66	Why do the [PhSiO_{1.5}]_{8,10,12} cages self-brominate primarily in the ortho position? Modeling reveals a strong cage influence on the mechanism. Physical Chemistry Chemical Physics, 2014, 16, 25760-25764.	1.3	18
67	Extrusion of YAG Tubes Shows that Bottomâ€up Processing is Not Always Optimal. Advanced Functional Materials, 2014, 24, 1125-1132.	7.8	13
68	Effects of Ph₁₂SQ on the thermal stability and mechanical properties of high temperature vulcanized (HTV) silicone rubber. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 244-252.	1.8	7
69	Roll your own â€“ nano-nanocomposite capacitors. Journal of Materials Chemistry A, 2014, 2, 3766.	5.2	9
70	Materials that can replace liquid electrolytes in Li batteries: Superionic conductivities in Li1.7Al0.3Ti1.7Si0.4P2.6O12. Processing combustion synthesized nanopowders to free standing thin films. Journal of Power Sources, 2014, 269, 577-588.	4.0	53
71	The Bottom Up Approach is Not Always the Best Processing Method: Dense Î±â€Al₂O₃/NiAl₂O₄ Composites. Advanced Functional Materials, 2014, 24, 3392-3398.	7.8	15
72	Analyzing Structureâ€“Photophysical Property Relationships for Isolated T₈, T₁₀, and T₁₂ Stilbenevinylsilsesquioxanes. Journal of the American Chemical Society, 2013, 135, 12259-12269.	6.6	90

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73	A reactive extrusion process for the free radical grafting of silanes onto polypropylene: Effects of processing conditions and properties of water crossâ€linked silaneâ€grafted polypropylene. Polymer Engineering and Science, 2013, 53, 1571-1581.	1.5	6
74	Synthesis of acetoxyphenylâ€and hydroxyphenylâ€terminated polyfunctional T₈, T₁₀, T₁₂ silsesquioxanes and initial studies on their use in the formation of highly crosslinked polyesters. Applied Organometallic Chemistry, 2013, 27, .	1.7	5
75	Beads on a Chain (BoC) Phenylsilsesquioxane (SQ) Polymers via F^{â€"} Catalyzed Rearrangements and ADMET or Reverse Heck Cross-coupling Reactions: Through Chain, Extended Conjugation in 3-D with Potential for Dendronization. Macromolecules, 2013, 46, 7591-7604.	2.2	37
76	Surface modification of titania powder P25 with phosphate and phosphonic acids â€" Effect on thermal stability and photocatalytic activity. Journal of Colloid and Interface Science, 2013, 393, 335-339.	5.0	22
77	Beads on a Chain (BoC) Polymers with Model Dendronized Beads. Copolymerization of [(4-NH₂C₆H₄SiO_{1.5})₆(IPhSiO_{1.5})₂] and [(4-CH₃OC₆H₄SiO_{1.5})₆(IPhSiO_{1.5})₂] with 1,4-Diethynylbenzene (DEB) Gives Through-Chain, Extended 3-D Conjugation in the Excited State That Is an Average of the Corresponding Homopolymers. Macromolecules, 2013, 46, 7580-7590.	2.2	22
78	Preface for Hybrid Materials. Applied Organometallic Chemistry, 2013, 27, 619-619.	1.7	0
79	Cubic silsesquioxanes as tunable highâ€performance coating materials. Applied Organometallic Chemistry, 2013, 27, 652-659.	1.7	6
80	Synthesis and characterization of organic/inorganic epoxy nanocomposites from poly(aminopropyl/phenyl)silsesquioxanes. Journal of Applied Polymer Science, 2013, 128, 3601-3608.	1.3	20
81	Ab Initio Calculation of the Electronic Absorption of Functionalized Octahedral Silsesquioxanes via Time-Dependent Density Functional Theory with Range-Separated Hybrid Functionals. Journal of Physical Chemistry A, 2012, 116, 1137-1145.	1.1	52
82	3-D Molecular Mixtures of Catalytically Functionalized [vinylSiO_{1.5}]₁₀/[vinylSiO_{1.5}]₁₂. Photophysical Characterization of Second Generation Derivatives. Chemistry of Materials, 2012, 24, 1883-1895.	3.2	43
83	Synthesis, characterization and photophysical properties of polyfunctional phenylsilsesquioxanes: [o-RPhSiO1.5]8, [2,5-R2PhSiO1.5]8, and [R3PhSiO1.5]8. compounds with the highest number of functional units/unit volume. Journal of Materials Chemistry, 2011, 21, 11177.	6.7	29
84	Polyhedral Phenylsilsesquioxanes. Macromolecules, 2011, 44, 1073-1109.	2.2	227
85	Crystalline Hybrid Polyphenylene Macromolecules from Octaalkynylsilsesquioxanes, Crystal Structures, and a Potential Route to 3-D Graphenes. Macromolecules, 2011, 44, 3425-3435.	2.2	20
86	Beads on a Chain (BOC) Polymers Formed from the Reaction of NH₂PhSiO_{1.5}]_{<i>x</i>}[PhSiO_{1.5}]_{10â€"<i>x</i>} and [NH₂PhSiO_{1.5}]_{<i>x</i>}[PhSiO_{1.5}]_{12â€"<i>x</i>} Mixtures (<i>x</i> = 2â€"4) with the Diglycidyl Ether of Bisphenol A. Macromolecules, 2011, 44, 7263-7272.	2.2	44
87	Halogen Bonding Motifs in Polyhedral Phenylsilsesquioxanes: Effects of Systematic Variations in Geometry or Substitution. Crystal Growth and Design, 2011, 11, 4360-4367.	1.4	19
88	[PhSiO1.5]8 promotes self-bromination to produce [o-BrPhSiO1.5]8: further bromination gives crystalline [2,5-Br2PhSiO1.5]8 with a density of 2.32 g cmâˆ'3 and a calculated refractive index of 1.7 or the tetraicosa bromo compound [Br3PhSiO1.5]8. Journal of Materials Chemistry, 2011, 21, 11167.	6.7	14
89	Combinatorial Nanopowder Synthesis Along the ZnOâ€"Al₂O₃Tie Line Using Liquidâ€Feed Flame Spray Pyrolysis. Journal of the American Ceramic Society, 2011, 94, 3308-3318.	1.9	8
90	Cubic Silsesquioxanes as a Green, Highâ€Performance Mold Material for Nanoimprint Lithography. Advanced Materials, 2011, 23, 414-420.	11.1	37

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91	Fluoride catalyzed rearrangements of polysilsesquioxanes, mixed Me, vinyl T₈, Me, vinyl T₁₀ and T₁₂ cages. Applied Organometallic Chemistry, 2010, 24, 551-557.	1.7	28
92	Synthesis, functionalization and properties of incompletely condensed â€œhalf cubeâ€•silsesquioxanes as a potential route to nanoscale Janus particles. Comptes Rendus Chimie, 2010, 13, 270-281.	0.2	42
93	Pressureless Sintering <i>t</i>â€zirconia@Î´â€Al₂O₃ (54 mol%) Coreâ€"Shell Nanopowders at 1120Â°C Provides Dense <i>t</i>â€Zirconiaâ€Toughened Î±â€Al₂O₃ Nanocomposites. Journal of the American Ceramic Society, 2010, 93, 709-715.	1.9	14
94	Synthesis and Photophysical Properties of Stilbeneoctasilsesquioxanes. Emission Behavior Coupled with Theoretical Modeling Studies Suggest a 3-D Excited State Involving the Silica Core. Journal of the American Chemical Society, 2010, 132, 3708-3722.	6.6	71
95	Fluoride Rearrangement Reactions of Polyphenyl- and Polyvinylsilsesquioxanes as a Facile Route to Mixed Functional Phenyl, Vinyl T₁₀and T₁₂Silsesquioxanes. Journal of the American Chemical Society, 2010, 132, 3723-3736.	6.6	94
96	Porous Networks Assembled from Octaphenylsilsesquioxane Building Blocks. Macromolecules, 2010, 43, 6995-7000.	2.2	65
97	Nano Building Blocks via Iodination of [PhSiO_{1.5}]_{<i>n</i>}, Forming [<i>p</i>-I-C₆H₄SiO_{1.5}]_{<i>n</i>} (<i>n</i> = 8, 10, 12), and a New Route to High-Surface-Area, Thermally Stable, Microporous Materials via Thermal Elimination of I₂. Journal of the American Chemical Society, 2010, 132, 10171-10183.	6.6	106
98	Structural and mechanical behavior of layered zirconium phosphonate as a distributed phase in polycaprolactone. Journal of Applied Polymer Science, 2009, 114, 993-1001.	1.3	3
99	One-Step Synthesis of Coreâ^'Shell (Ce_{0.7}Zr_{0.3}O₂)_{<i>x</i>}(Al₂O₃)_{1â^'<i>x</i>} Nanopowders via Liquid-Feed Flame Spray Pyrolysis (LF-FSP). Journal of the American Chemical Society, 2009, 131, 9220-9229.	6.6	38
100	High-Throughput Screening of Nanoparticle Catalysts Made by Flame Spray Pyrolysis as Hydrocarbon/NO Oxidation Catalysts. Journal of the American Chemical Society, 2009, 131, 9207-9219.	6.6	59
101	Perfect and nearly perfect silsesquioxane (SQs) nanoconstruction sites and Janus SQs. Journal of Sol-Gel Science and Technology, 2008, 46, 335-347.	1.1	46
102	Transparent, Polycrystalline Upconverting Nanoceramics: Towards 3â€D Displays. Advanced Materials, 2008, 20, 1270-1273.	11.1	144
103	Finding Spinel in All the Wrong Places. Advanced Materials, 2008, 20, 1373-1375.	11.1	40
104	<i>para</i>-Octaiodophenylsilsesquioxane, [<i>p</i>-IC₆H₄SiO_{1.5}]₈, a Nearly Perfect Nano-Building Block. ACS Nano, 2008, 2, 320-326.	7.3	119
105	Systematic synthesis of mixed-metal oxides in NiOâ€"Co3O4, NiOâ€"MoO3, and NiOâ€"CuO systems via liquid-feed flame spray pyrolysis. Journal of Materials Chemistry, 2008, 18, 3249.	6.7	33
106	Coreâ^'shell Nanostructured Nanopowders along (CeO_{<i>x</i>})_{<i>x</i>}(Al₂O₃)_{1â^'<i>x</i>}Tie-Lines by Liquid-Feed Flame Spray Pyrolysis (LF-FSP). Chemistry of Materials, 2008, 20, 5154-5162.	3.2	31
107	Octaalkynylsilsesquioxanes, Nano Sea Urchin Molecular Building Blocks for 3-D-Nanostructures. Macromolecules, 2008, 41, 8047-8052.	2.2	28
108	Synthesis of Metastable Phases in the Magnesium Spinelâ^'Alumina System. Chemistry of Materials, 2008, 20, 553-558.	3.2	37

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109	Preparation, Characterization, and Modeling of Î±-Zirconium Phosphonates with Ether-Functional Surfaces. Chemistry of Materials, 2008, 20, 5491-5499.	3.2	9
110	Molecules with Perfect Cubic Symmetry as Nanobuilding Blocks for 3-D Assemblies. Elaboration of Octavinylsilsesquioxane. Unusual Luminescence Shifts May Indicate Extended Conjugation Involving the Silsesquioxane Core. Chemistry of Materials, 2008, 20, 5563-5573.	3.2	116
111	Ultraviolet emission and Fano resonance in doped nano-alumina. Journal of Applied Physics, 2007, 101, 053534.	1.1	21
112	Silsesquioxane Barrier Materials. Macromolecules, 2007, 40, 555-562.	2.2	73
113	Ring-opening polymerization of epoxy end-terminated poly(ethylene oxide) as a route to highly crosslinked materials with exceptional swelling behavior (II). Polymer International, 2007, 56, 1006-1015.	1.6	5
114	Completely discontinuous organic/ inorganic hybrid nanocomposites by self-curing of nanobuilding blocks constructed from reactions of [HMe2SiOSiO1.5]8 with vinylcyclohexene. Polymer International, 2007, 56, 1378-1391.	1.6	25
115	Liquid-Feed Flame Spray Pyrolysis as a Method of Producing Mixed-Metal Oxide Nanopowders of Potential Interest as Catalytic Materials. Nanopowders along the NiOâˆ'Al2O3Tie Line Including (NiO)0.22(Al2O3)0.78, a New Inverse Spinel Composition. Chemistry of Materials, 2006, 18, 731-739.	3.2	65
116	Tailoring the Global Properties of Nanocomposites. Epoxy Resins with Very Low Coefficients of Thermal Expansion. Macromolecules, 2006, 39, 5167-5169.	2.2	46
117	Synthesis and Characterization of Mixed-Metal Oxide Nanopowders Along the CoOx-Al2O3 Tie Line Using Liquid-Feed Flame Spray Pyrolysis. Journal of the American Ceramic Society, 2006, 89, 060628061644004-???.	1.9	17
118	Nano-Î±-Al2O3 by liquid-feed flame spray pyrolysis. Nature Materials, 2006, 5, 710-712.	13.3	91
119	Silica dissolution as a route to octaanionic silsesquioxanes. Applied Organometallic Chemistry, 2006, 20, 393-398.	1.7	2
120	New Aminophenylsilsesquioxanesâ€"Synthesis, Properties, and Epoxy Nanocomposites. Australian Journal of Chemistry, 2006, 59, 564.	0.5	26
121	Synthesis of amino-containing oligophenylsilsesquioxanes. Polymer, 2005, 46, 4514-4524.	1.8	49
122	A New Y3Al5O12 Phase Produced by Liquid-Feed Flame Spray Pyrolysis (LF-FSP). Advanced Materials, 2005, 17, 830-833.	11.1	72
123	Robust Polyaromatic Octasilsesquioxanes from Polybromophenylsilsesquioxanes, BrxOPS, via Suzuki Coupling. Macromolecules, 2005, 38, 4661-4665.	2.2	60
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