

Richard Laine

List of Publications by Year in descending order

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247
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docs citations

247
times ranked

6990
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#	ARTICLE	IF	CITATIONS
1	Organic/Inorganic Hybrid Composites from Cubic Silsesquioxanes. <i>Journal of the American Chemical Society</i> , 2001, 123, 11420-11430.	13.7	460
2	Nanobuilding blocks based on the $[\text{OSiO}1.5]_x$ ($x= 6, 8, 10$) octasilsesquioxanes. <i>Journal of Materials Chemistry</i> , 2005, 15, 3725.	6.7	421
3	Highly Porous Polyhedral Silsesquioxane Polymers. <i>Synthesis and Characterization. Journal of the American Chemical Society</i> , 1998, 120, 8380-8391.	13.7	373
4	Preceramic polymer routes to silicon carbide. <i>Chemistry of Materials</i> , 1993, 5, 260-279.	6.7	299
5	Octa(aminophenyl)silsesquioxane as a Nanoconstruction Site. <i>Journal of the American Chemical Society</i> , 2001, 123, 12416-12417.	13.7	283
6	Silsesquioxanes as Synthetic Platforms. Thermally Curable and Photocurable Inorganic/Organic Hybrids. <i>Macromolecules</i> , 1996, 29, 2327-2330.	4.8	260
7	Organic/Inorganic Hybrid Composites from Cubic Silsesquioxanes. Epoxy Resins of Octa(dimethylsiloxyethylcyclohexylepoxide) Silsesquioxane. <i>Macromolecules</i> , 2003, 36, 5666-5682.	4.8	257
8	Hydrosilylation of Allyl Alcohol with $[\text{HSiMe}_2\text{OSiO}1.5]_8$: Octa(3-hydroxypropyldimethylsiloxy)octasilsesquioxane and Its Octamethacrylate Derivative as Potential Precursors to Hybrid Nanocomposites. <i>Journal of the American Chemical Society</i> , 2000, 122, 6979-6988.	13.7	251
9	Organic/Inorganic Hybrid Epoxy Nanocomposites from Aminophenylsilsesquioxanes. <i>Macromolecules</i> , 2004, 37, 99-109.	4.8	230
10	Organic-Inorganic Nanocomposites with Completely Defined Interfacial Interactions. <i>Advanced Materials</i> , 2001, 13, 800-803.	21.0	229
11	Polyhedral Phenylsilsesquioxanes. <i>Macromolecules</i> , 2011, 44, 1073-1109.	4.8	227
12	Lithium Ion Conducting Poly(ethylene oxide)-Based Solid Electrolytes Containing Active or Passive Ceramic Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2563-2573.	3.1	222
13	Organic/Inorganic Imide Nanocomposites from Aminophenylsilsesquioxanes. <i>Chemistry of Materials</i> , 2003, 15, 3365-3375.	6.7	196
14	Homogeneous catalysis by ruthenium carbonyl in alkaline solution: the water gas shift reaction. <i>Journal of the American Chemical Society</i> , 1977, 99, 252-253.	13.7	192
15	Silsesquioxanes as Synthetic Platforms. 3. Photocurable, Liquid Epoxides as Inorganic/Organic Hybrid Precursors. <i>Chemistry of Materials</i> , 1996, 8, 1592-1593.	6.7	183
16	A Polyimide Nanocomposite from Octa(aminophenyl)silsesquioxane. <i>Chemistry of Materials</i> , 2003, 15, 793-797.	6.7	179
17	Ultrafine Spinel Powders by Flame Spray Pyrolysis of a Magnesium Aluminum Double Alkoxide. <i>Journal of the American Ceramic Society</i> , 1996, 79, 1419-1423.	3.8	171
18	Toughening of Cubic Silsesquioxane Epoxy Nanocomposites Using Core-Shell Rubber Particles: A Three-Component Hybrid System. <i>Macromolecules</i> , 2004, 37, 3267-3276.	4.8	153

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19	Organic/Inorganic Nanocomposite Star Polymers via Atom Transfer Radical Polymerization of Methyl Methacrylate Using Octafunctional Silsesquioxane Cores. <i>Macromolecules</i> , 2001, 34, 5398-5407.	4.8	150
20	Polyfunctional cubic silsesquioxanes as building blocks for organic/inorganic hybrids. <i>Applied Organometallic Chemistry</i> , 1998, 12, 715-723.	3.5	148
21	Transparent, Polycrystalline Upconverting Nanoceramics: Towards 3â€œ Displays. <i>Advanced Materials</i> , 2008, 20, 1270-1273.	21.0	144
22	Synthesis of pentacoordinate silicon complexes from SiO ₂ . <i>Nature</i> , 1991, 353, 642-644.	27.8	141
23	Flame made nanoparticles permit processing of dense, flexible, Li ⁺ conducting ceramic electrolyte thin films of cubic-Li ₇ La ₃ Zr ₂ O ₁₂ (c-LLZO). <i>Journal of Materials Chemistry A</i> , 2016, 4, 12947-12954.	10.3	131
24	Criteria for identifying transition metal cluster-catalyzed reactions. <i>Journal of Molecular Catalysis</i> , 1982, 14, 137-169.	1.2	125
25	<i>para</i> -Octaiodophenylsilsesquioxane, [p-IC ₆ H ₄ SiO _{1.5}] ₈ , a Nearly Perfect Nano-Building Block. <i>ACS Nano</i> , 2008, 2, 320-326.	14.6	119
26	Silsesquioxanes as synthetic platforms. II. Epoxy-functionalized inorganic-organic hybrid species. <i>Journal of Organometallic Chemistry</i> , 1996, 521, 199-201.	1.8	118
27	Poly(methylsilane)-A High Ceramic Yield Precursor to Silicon Carbide. <i>Journal of the American Ceramic Society</i> , 1991, 74, 670-673.	3.8	116
28	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. <i>Chemistry of Materials</i> , 2008, 20, 5563-5573.	6.7	116
29	Homogeneous catalysis of the water-gas shift reaction. <i>Journal of Molecular Catalysis</i> , 1988, 44, 357-387.	1.2	106
30	Nano Building Blocks via Iodination of [PhSiO _{1.5}] _n , Forming [p-IC ₆ H ₄ SiO _{1.5}] _n (<i>n</i> = 8, 10, 12), and a New Route to High-Surface-Area, Thermally Stable, Microporous Materials via Thermal Elimination of I ₂ . <i>Journal of the American Chemical Society</i> , 2010, 132, 10171-10183.	13.7	106
31	Yttrium Aluminum Garnet Nanopowders Produced by Liquid-Feed Flame Spray Pyrolysis (LF-FSP) of Metalloorganic Precursors. <i>Chemistry of Materials</i> , 2004, 16, 822-831.	6.7	102
32	Liquid-Feed Flame Spray Pyrolysis of Metalloorganic and Inorganic Alumina Sources in the Production of Nanoalumina Powders. <i>Chemistry of Materials</i> , 2004, 16, 21-30.	6.7	97
33	Octa(3-chloroammoniumpropyl) octasilsesquioxane. <i>Applied Organometallic Chemistry</i> , 1999, 13, 329-336.	3.5	95
34	Potential models of the interactions between nitrogen-containing heterocycles and the active catalyst sites in heterogeneous hydrodenitrogenation catalysts. <i>Organometallics</i> , 1985, 4, 2033-2039.	2.3	94
35	Fluoride Rearrangement Reactions of Polyphenyl- and Polyvinylsilsesquioxanes as a Facile Route to Mixed Functional Phenyl, Vinyl T ₁₀ and T ₁₂ Silsesquioxanes. <i>Journal of the American Chemical Society</i> , 2010, 132, 3723-3736.	13.7	94
36	Homogeneous catalysis of the water gas shift reaction by mixed-metal (iron/ruthenium) catalysts. <i>Journal of the American Chemical Society</i> , 1978, 100, 4595-4597.	13.7	92

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37	Laser action in strongly scattering rare-earth-metal-doped dielectric nanophosphors. <i>Physical Review A</i> , 2001, 65, .	2.5	92
38	Key parameters governing the densification of cubic-Li ₇ La ₃ Zr ₂ O ₁₂ Li ⁺ conductors. <i>Journal of Power Sources</i> , 2017, 352, 156-164.	7.8	92
39	Nano- γ -Al ₂ O ₃ by liquid-feed flame spray pyrolysis. <i>Nature Materials</i> , 2006, 5, 710-712.	27.5	91
40	Analyzing Structure-Photophysical Property Relationships for Isolated T ₈ , T ₁₀ , and T ₁₂ Stilbenevinylsilsesquioxanes. <i>Journal of the American Chemical Society</i> , 2013, 135, 12259-12269.	13.7	90
41	Applications of the water-gas shift reaction. Hydroformylation and hydrohydroxymethylation with carbon monoxide and water. <i>Journal of the American Chemical Society</i> , 1978, 100, 6451-6454.	13.7	89
42	Ultrafine titania by flame spray pyrolysis of a titanatrane complex. <i>Journal of the European Ceramic Society</i> , 1998, 18, 287-297.	5.7	89
43	MgAl ₂ O ₄ spinel powders from oxide one pot synthesis (OOPS) process for ceramic humidity sensors. <i>Journal of the European Ceramic Society</i> , 2000, 20, 91-97.	5.7	87
44	Catalytic methods for the synthesis of oligosilazanes. <i>Organometallics</i> , 1986, 5, 2081-2086.	2.3	83
45	Synthesis and Characterization of Liquid Crystalline Silsesquioxanes. <i>Chemistry of Materials</i> , 2001, 13, 3653-3662.	6.7	83
46	Synthesis of Yttrium Aluminum Garnet from Yttrium and Aluminum Isobutyrate Precursors. <i>Journal of the American Ceramic Society</i> , 1996, 79, 385-394.	3.8	74
47	Silsesquioxane Barrier Materials. <i>Macromolecules</i> , 2007, 40, 555-562.	4.8	73
48	A New Y ₃ Al ₅ O ₁₂ Phase Produced by Liquid-Feed Flame Spray Pyrolysis (LF-FSP). <i>Advanced Materials</i> , 2005, 17, 830-833.	21.0	72
49	Synthesis and Photophysical Properties of Stilbeneoctasilsesquioxanes. Emission Behavior Coupled with Theoretical Modeling Studies Suggest a 3-D Excited State Involving the Silica Core. <i>Journal of the American Chemical Society</i> , 2010, 132, 3708-3722.	13.7	71
50	Flame Spray Pyrolysis of Precursors as a Route to Nano- ϵ -mullite Powder: Powder Characterization and Sintering Behavior. <i>Journal of the American Ceramic Society</i> , 2001, 84, 951-961.	3.8	69
51	Reactivity of metal radicals generated photochemically. Effects of solvent and of trapping agent concentrations on quantum yields for photolysis of hexacarbonylbis(π -cyclopentadienyl)ditungsten(I), [π -CpW(CO) ₃] ₂ . <i>Inorganic Chemistry</i> , 1977, 16, 388-391.	4.0	68
52	Metallic palladium, the actual catalyst in Lindlar and Rosenmund reductions?. <i>Journal of Organic Chemistry</i> , 1983, 48, 4436-4438.	3.2	65
53	Spherical, Polyfunctional Molecules Using Poly(bromophenylsilsesquioxane)s as Nanoconstruction Sites. <i>Macromolecules</i> , 2005, 38, 4655-4660.	4.8	65
54	Liquid-Feed Flame Spray Pyrolysis as a Method of Producing Mixed-Metal Oxide Nanopowders of Potential Interest as Catalytic Materials. Nanopowders along the NiO-Al ₂ O ₃ Tie Line Including (NiO) _{0.22} (Al ₂ O ₃) _{0.78} , a New Inverse Spinel Composition. <i>Chemistry of Materials</i> , 2006, 18, 731-739.	6.7	65

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55	Porous Networks Assembled from Octaphenylsilsesquioxane Building Blocks. <i>Macromolecules</i> , 2010, 43, 6995-7000.	4.8	65
56	Catalysis of the aminomethylation reaction. Enhanced catalytic activity with mixed-metal catalysts. Applications of the water-gas shift reaction. 5. <i>Journal of Organic Chemistry</i> , 1980, 45, 3370-3372.	3.2	64
57	Molecular structure of tris(diphenylacetylene)tungsten monocarbonyl. <i>Journal of the American Chemical Society</i> , 1972, 94, 1402-1403.	13.7	63
58	Modeling heterogeneous catalysts with homogeneous catalysts. 2. Modeling catalytic hydrodenitrogenation. <i>Journal of the American Chemical Society</i> , 1982, 104, 1763-1765.	13.7	60
59	Continuous-wave ultraviolet laser action in strongly scattering Nd-doped alumina. <i>Optics Letters</i> , 2002, 27, 394.	3.3	60
60	Robust Polyaromatic Octasilsesquioxanes from Polybromophenylsilsesquioxanes, BrxOPS, via Suzuki Coupling. <i>Macromolecules</i> , 2005, 38, 4661-4665.	4.8	60
61	Transalkylation reaction. Homogeneous catalytic formation of carbon-nitrogen bonds. <i>Journal of the American Chemical Society</i> , 1985, 107, 361-369.	13.7	59
62	High-Throughput Screening of Nanoparticle Catalysts Made by Flame Spray Pyrolysis as Hydrocarbon/NO Oxidation Catalysts. <i>Journal of the American Chemical Society</i> , 2009, 131, 9207-9219.	13.7	59
63	The Evolutionary Process during Pyrolytic Transformation of Poly(N-methylsilazane) from a Preceramic Polymer into an Amorphous Silicon Nitride/Carbon Composite. <i>Journal of the American Ceramic Society</i> , 1995, 78, 137-145.	3.8	58
64	Palladium- and platinum-catalyzed coupling reactions of allyloxy aromatics with hydridosilanes and hydridosiloxanes: Novel liquid crystalline/organosilane materials. <i>Journal of Polymer Science Part A</i> , 1994, 32, 3069-3089.	2.3	56
65	Low-pressure, palladium-catalyzed N,N'-diarylurea synthesis from nitro compounds, amines, and carbon monoxide. <i>Journal of Organic Chemistry</i> , 1975, 40, 2819-2822.	3.2	55
66	Synthesis and high temperature chemistry of methylsilsesquioxane polymers produced by titanium-catalyzed redistribution of methylhydrido-oligo- and -polysiloxanes. <i>Chemistry of Materials</i> , 1990, 2, 464-472.	6.7	55
67	Neutral Alkoxysilanes from Silica. <i>Journal of the American Chemical Society</i> , 2000, 122, 10063-10072.	13.7	54
68	Yttrium Aluminum Garnet Fibers from Metalloorganic Precursors. <i>Journal of the American Ceramic Society</i> , 1998, 81, 629-645.	3.8	53
69	The selective dissolution of rice hull ash to form [OSiO _{1.5}] ₈ [R ₄ N] ₈ (R = Me, CH ₂ CH ₂ OH) octasilicates. Basic nanobuilding blocks and possible models of intermediates formed during biosilicification processes. <i>Journal of Materials Chemistry</i> , 2005, 15, 2114.	6.7	53
70	Materials that can replace liquid electrolytes in Li batteries: Superionic conductivities in Li _{1.7} Al _{0.3} Ti _{1.7} Si _{0.4} P _{2.6} O ₁₂ . Processing combustion synthesized nanopowders to free standing thin films. <i>Journal of Power Sources</i> , 2014, 269, 577-588.	7.8	53
71	Ab Initio Calculation of the Electronic Absorption of Functionalized Octahedral Silsesquioxanes via Time-Dependent Density Functional Theory with Range-Separated Hybrid Functionals. <i>Journal of Physical Chemistry A</i> , 2012, 116, 1137-1145.	2.5	52
72	A low cost, low energy route to solar grade silicon from rice hull ash (RHA), a sustainable source. <i>Green Chemistry</i> , 2015, 17, 3931-3940.	9.0	51

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73	Inelastic electron tunneling spectroscopy of carbon monoxide chemisorbed on alumina-supported transition metals. <i>Journal of the American Chemical Society</i> , 1976, 98, 6064-6065.	13.7	50
74	Synthesis of Ultrafine γ -Alumina Powders via Flame Spray Pyrolysis of Polymeric Precursors. <i>Journal of the American Ceramic Society</i> , 1998, 81, 1477-1486.	3.8	50
75	Liquid-Feed Flame Spray Pyrolysis of Nanopowders in the Alumina-Titania System. <i>Chemistry of Materials</i> , 2004, 16, 2336-2343.	6.7	49
76	Synthesis of amino-containing oligophenylsilsesquioxanes. <i>Polymer</i> , 2005, 46, 4514-4524.	3.8	49
77	Monoterpene syntheses via a palladium catalyzed isoprene dimerization. <i>Journal of Organic Chemistry</i> , 1976, 41, 3455-3460.	3.2	47
78	Tailoring the Global Properties of Nanocomposites. Epoxy Resins with Very Low Coefficients of Thermal Expansion. <i>Macromolecules</i> , 2006, 39, 5167-5169.	4.8	46
79	Perfect and nearly perfect silsesquioxane (SQs) nanoconstruction sites and Janus SQs. <i>Journal of Sol-Gel Science and Technology</i> , 2008, 46, 335-347.	2.4	46
80	Beads on a Chain (BOC) Polymers Formed from the Reaction of NH_2 and $[\text{PhSiO}_{1.5}]_{10}$ and $[\text{NH}_2]_2$ and $[\text{PhSiO}_{1.5}]_{12}$ Mixtures ($\text{NH}_2 = 2 \times 10^4$) with the Diglycidyl Ether of Bisphenol A. <i>Macromolecules</i> , 2011, 44, 7263-7272.	4.8	44
81	3-D Molecular Mixtures of Catalytically Functionalized $[\text{vinylSiO}_{1.5}]_{10}$ and $[\text{vinylSiO}_{1.5}]_{12}$. Photophysical Characterization of Second Generation Derivatives. <i>Chemistry of Materials</i> , 2012, 24, 1883-1895.	6.7	43
82	Applications of the water-gas shift reaction. 2. Catalytic exchange of deuterium for hydrogen at saturated carbon. <i>Journal of the American Chemical Society</i> , 1978, 100, 6527-6528.	13.7	42
83	Synthesis, functionalization and properties of incompletely condensed γ -silsesquioxanes as a potential route to nanoscale Janus particles. <i>Comptes Rendus Chimie</i> , 2010, 13, 270-281.	0.5	42
84	Homogeneous catalytic formation of carbon-nitrogen bonds. 2. Catalytic activation of the silicon-nitrogen bond. <i>Journal of Organic Chemistry</i> , 1983, 48, 2539-2543.	3.2	41
85	Synthesis of a Double Alkoxide Precursor to Spinel (MgAl_2O_4) Directly from $\text{Al}(\text{OH})_3$, MgO , and Triethanolamine and Its Pyrolytic Transformation to Spinel. <i>Chemistry of Materials</i> , 1996, 8, 2850-2857.	6.7	41
86	Cobalt(III) complex catalyzed hydrolysis of phosphorus esters. <i>Inorganic Chemistry</i> , 1984, 23, 1870-1876.	4.0	40
87	Finding Spinel in All the Wrong Places. <i>Advanced Materials</i> , 2008, 20, 1373-1375.	21.0	40
88	D_{5h} $[\text{PhSiO}_{1.5}]_{10}$ synthesis via F^+ catalyzed rearrangement of $[\text{PhSiO}_{1.5}]_n$. An experimental/computational analysis of likely reaction pathways. <i>Dalton Transactions</i> , 2016, 45, 1025-1039.	3.3	40
89	$\text{Ba}[\text{Si}(\text{OCH}_2\text{CH}_2\text{O})_3]$, a Hexaalkoxysilicate Synthesized from SiO_2 . <i>Angewandte Chemie International Edition in English</i> , 1993, 32, 287-289.	4.4	39
90	Avoiding Carbothermal Reduction: Distillation of Alkoxysilanes from Biogenic, Green, and Sustainable Sources. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1065-1069.	13.8	39

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91	Superionically conducting Al_2O_3 thin films processed using flame synthesized nanopowders. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12411-12419.	10.3	39
92	One-Step Synthesis of Core-Shell $(\text{Ce}_{0.7}\text{Zr}_{0.3}\text{O}_2)_{1-x}(\text{Al}_2\text{O}_3)_x$ Nanopowders via Liquid-Feed Flame Spray Pyrolysis (LF-FSP). <i>Journal of the American Chemical Society</i> , 2009, 131, 9220-9229.	13.7	38
93	Synthesis of Metastable Phases in the Magnesium Spinel-Alumina System. <i>Chemistry of Materials</i> , 2008, 20, 553-558.	6.7	37
94	Cubic Silsesquioxanes as a Green, High-Performance Mold Material for Nanoimprint Lithography. <i>Advanced Materials</i> , 2011, 23, 414-420.	21.0	37
95	Beads on a Chain (BoC) Phenylsilsesquioxane (SQ) Polymers via F^+ Catalyzed Rearrangements and ADMET or Reverse Heck Cross-coupling Reactions: Through Chain, Extended Conjugation in 3-D with Potential for Dendronization. <i>Macromolecules</i> , 2013, 46, 7591-7604.	4.8	37
96	Catalytic reactions of pyridine with carbon monoxide and water. Reduction of carbon monoxide to hydrocarbon. Applications of the water-gas shift reaction. <i>Journal of Organic Chemistry</i> , 1979, 44, 4964-4966.	3.2	36
97	Synthesis of \pm -bis(diphenylphosphino)alkane and \pm -bis(diphenylphosphino)(poly)ether ligands and complexes of rhodium(I). <i>Inorganica Chimica Acta</i> , 1985, 97, 143-150.	2.4	36
98	Transannular interactions of the silyl center with distant keto groups in the mass spectra of medium-sized organosilicon heterocycles. Improved synthetic routes to six-, seven-, and eight-membered silicon ring systems. <i>Journal of Organic Chemistry</i> , 1971, 36, 4060-4068.	3.2	34
99	Catalytic synthesis of oligosilazanes part 2. <i>Journal of Molecular Catalysis</i> , 1988, 48, 183-197.	1.2	34
100	A Processable Mullite Precursor Prepared by Reacting Silica and Aluminum Hydroxide with Triethanolamine in Ethylene Glycol: Structural Evolution on Pyrolysis. <i>Journal of the American Ceramic Society</i> , 1997, 80, 2597-2606.	3.8	33
101	Systematic synthesis of mixed-metal oxides in $\text{NiO-Co}_3\text{O}_4$, NiO-MoO_3 , and NiO-CuO systems via liquid-feed flame spray pyrolysis. <i>Journal of Materials Chemistry</i> , 2008, 18, 3249.	6.7	33
102	Facile Approach to Recycling Highly Cross-Linked Thermoset Silicone Resins under Ambient Conditions. <i>ACS Omega</i> , 2019, 4, 3782-3789.	3.5	32
103	Core-shell Nanostructured Nanopowders along $(\text{CeO}_x)_{1-x}(\text{Al}_2\text{O}_3)_x$ Tie-Line by Liquid-Feed Flame Spray Pyrolysis (LF-FSP). <i>Chemistry of Materials</i> , 2008, 20, 5154-5162.	6.7	31
104	Using CoS cathode materials with 3D hierarchical porosity and an ionic liquid (IL) as an electrolyte additive for high capacity rechargeable magnesium batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18880-18888.	10.3	31
105	\pm -Silicon carbide/ \pm -silicon carbide particulate composites via polymer infiltration and pyrolysis (PIP) processing using polymethylsilane. <i>Journal of the European Ceramic Society</i> , 2000, 20, 441-451.	5.7	30
106	Preparation of highly functionalized 3,4-disubstituted cyclobutene-1,2-diones using functionalized zinc-copper organometallics. <i>Tetrahedron Letters</i> , 1992, 33, 7515-7518.	1.4	29
107	Pentacoordinate Silicon Complexes as Precursors to Silicate Glasses and Ceramics. <i>Journal of the American Ceramic Society</i> , 1994, 77, 875-882.	3.8	29
108	Processable aluminosilicate alkoxide precursors from metal oxides and hydroxides. The oxide one-pot synthesis process. <i>Journal of Materials Chemistry</i> , 1996, 6, 1441.	6.7	29

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109	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. <i>Journal of Materials Chemistry</i> , 2011, 21, 11177.	6.7	29
110	Ce-Substituted Nanograin Na₃Zr₂Si₂PO₁₂ Prepared by LF-FSP as Sodium-Ion Conductors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 3502-3509.	8.0	29
111	Octaalkynylsilsesquioxanes, Nano Sea Urchin Molecular Building Blocks for 3-D-Nanostructures. <i>Macromolecules</i> , 2008, 41, 8047-8052.	4.8	28
112	Fluoride catalyzed rearrangements of polysilsesquioxanes, mixed Me, vinyl T₈, Me, vinyl T₁₀ and T₁₂ cages. <i>Applied Organometallic Chemistry</i> , 2010, 24, 551-557.	3.5	28
113	New Aminophenylsilsesquioxanesâ€”Synthesis, Properties, and Epoxy Nanocomposites. <i>Australian Journal of Chemistry</i> , 2006, 59, 564.	0.9	26
114	Reactions of (Î€-C5H5)W(CO)3H with dimethylacetylenedicarboxylate. Formation of dinuclear and metal hydride insertion products. <i>Journal of Organometallic Chemistry</i> , 1977, 124, 29-35.	1.8	25
115	Titanium Nitride/Carbon Coatings on Graphite Fibers. <i>Journal of the American Ceramic Society</i> , 1997, 80, 705-716.	3.8	25
116	Completely discontinuous organic/ inorganic hybrid nanocomposites by self-curing of nanobuilding blocks constructed from reactions of [HMe2SiOSiO1.5]8 with vinylcyclohexene. <i>Polymer International</i> , 2007, 56, 1378-1391.	3.1	25
117	Conjugated Copolymers That Shouldn't Be. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11115-11119.	13.8	25
118	Modeling heterogeneous catalysts with homogeneous catalysts. Comparison of catalytic exchange of deuterium for hydrogen at the .alpha. and .beta. positions of tertiary amines by using either palladium black or dodecacarbonyltriruthenium. <i>Journal of the American Chemical Society</i> , 1981, 103, 2461-2463.	13.7	24
119	Ring-Opening Polymerization of Epoxy End-Terminated Polyethylene Oxide (PEO) as a Route to Cross-Linked Materials with Exceptional Swelling Behavior. <i>Macromolecules</i> , 2004, 37, 4525-4532.	4.8	24
120	Durable and Hydrophobic Organicâ€”Inorganic Hybrid Coatings via Fluoride Rearrangement of Phenyl T₁₂ Silsesquioxane and Siloxanes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8378-8383.	8.0	23
121	FURTHER STUDIES ON HYDROFORMYLATION AND HYDROHYDROXYMETHYLATION WITH CO AND H2O. APPLICATIONS OF THE WATER-GAS SHIFT REACTION. 3. <i>Annals of the New York Academy of Sciences</i> , 1980, 333, 124-140.	3.8	22
122	Synthesis of Oxynitride Powders via Fluidized-Bed Ammonolysis, Part I: Large, Porous, Silica Particles. <i>Journal of the American Ceramic Society</i> , 1996, 79, 2865-2877.	3.8	22
123	Processing Aluminum Nitrideâ€”Silicon Carbide Composites via Polymer Infiltration and Pyrolysis of Polymethylsilane, a Precursor to Stoichiometric Silicon Carbide. <i>Journal of the American Ceramic Society</i> , 1999, 82, 857-866.	3.8	22
124	Formation and structure of tris(alumatranlyoxy-i-propyl)amine directly from Al(OH)3 and triisopropanolamine. <i>European Polymer Journal</i> , 2001, 37, 1877-1885.	5.4	22
125	Surface modification of titania powder P25 with phosphate and phosphonic acids â€” Effect on thermal stability and photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2013, 393, 335-339.	9.4	22
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