

# Lidia S Shul'pina

## List of Publications by Year in descending order

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99  
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5,233  
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66343

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102  
all docs

102  
docs citations

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times ranked

2668  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-catalyzed hydrocarbon oxygenations in solutions: the dramatic role of additives: a review. <i>Journal of Molecular Catalysis A</i> , 2002, 189, 39-66.	4.8	471
2	Metal-catalysed hydrocarbon oxidations. <i>Comptes Rendus Chimie</i> , 2003, 6, 163-178.	0.5	227
3	Oxidations by the reagent $\text{H}_2\text{O}_2$ -vanadium derivative-pyrazine-2-carboxylic acid <sup>TM</sup> . Part 12. Main features, kinetics and mechanism of alkane hydroperoxidation. <i>Perkin Transactions II RSC</i> , 2001, , 1351-1371.	1.1	195
4	New Trends in Oxidative Functionalization of Carbon-Hydrogen Bonds: A Review. <i>Catalysts</i> , 2016, 6, 50.	3.5	167
5	Oxidations by the system $\text{H}_2\text{O}_2$ -manganese(IV) complex-carboxylic acid. <i>Journal of Molecular Catalysis A</i> , 2001, 170, 17-34.	4.8	157
6	Mechanism of oxidations with $\text{H}_2\text{O}_2$ catalyzed by vanadate anion or oxovanadium(V) triethanolamine (vanadatane) in combination with pyrazine-2-carboxylic acid (PCA): Kinetic and DFT studies. <i>Journal of Catalysis</i> , 2009, 267, 140-157.	6.2	150
7	Pyrazinecarboxylic acid and analogs: Highly efficient co-catalysts in the metal-complex-catalyzed oxidation of organic compounds. <i>Coordination Chemistry Reviews</i> , 2013, 257, 732-754.	18.8	138
8	Remarkably fast oxidation of alkanes by hydrogen peroxide catalyzed by a tetracopper(II) triethanolamine complex: Promoting effects of acid co-catalysts and water, kinetic and mechanistic features. <i>Journal of Catalysis</i> , 2009, 268, 26-38.	6.2	131
9	Extremely Efficient Alkane Oxidation by a New Catalytic Reagent $\text{H}_2\text{O}_2/\text{Os}(\text{CO})_{12}/\text{Pyridine}$ . <i>Inorganic Chemistry</i> , 2009, 48, 10480-10482.	4.0	130
10	Heterometallic $\text{Co}^{\text{III}}_4\text{Fe}^{\text{III}}_2$ Schiff Base Complex: Structure, Electron Paramagnetic Resonance, and Alkane Oxidation Catalytic Activity. <i>Inorganic Chemistry</i> , 2012, 51, 9110-9122.	4.0	126
11	Participation of Oligovanadates in Alkane Oxidation with $\text{H}_2\text{O}_2$ Catalyzed by Vanadate Anion in Acidified Acetonitrile: Kinetic and DFT Studies. <i>ACS Catalysis</i> , 2011, 1, 1511-1520.	11.2	98
12	Mild homogeneous oxidation of alkanes and alcohols including glycerol with tert-butyl hydroperoxide catalyzed by a tetracopper(II) complex. <i>Journal of Catalysis</i> , 2010, 272, 9-17.	6.2	85
13	Alkane oxidation with hydrogen peroxide catalyzed homogeneously by vanadium-containing polyphosphomolybdates. <i>Applied Catalysis A: General</i> , 2001, 217, 111-117.	4.3	77
14	Alkane oxidation by the $\text{H}_2\text{O}_2$ - $\text{NaVO}_3$ - $\text{H}_2\text{SO}_4$ system in acetonitrile and water. <i>Tetrahedron</i> , 2009, 65, 2424-2429.	1.9	76
15	Generation of $\text{HO}^\bullet$ Radical from Hydrogen Peroxide Catalyzed by Aqua Complexes of the Group III Metals $[\text{M}(\text{H}_2\text{O})_n]^{3+}$ (M = Ga, In, Sc, Y, or La): A Theoretical Study. <i>ACS Catalysis</i> , 2013, 3, 1195-1208.	11.2	76
16	Catalytic oxidation of methane to methyl hydroperoxide and other oxygenates under mild conditions. <i>Chemical Communications</i> , 1997, , 397-398.	4.1	74
17	Oxidations by the reagent $\text{H}_2\text{O}_2$ -vanadium derivative-pyrazine-2-carboxylic acid. <i>Journal of Molecular Catalysis A</i> , 2005, 227, 247-253.	4.8	72
18	Mild oxidative functionalization of alkanes and alcohols catalyzed by new mono- and dicopper(II) aminopolyalcoholates. <i>Journal of Molecular Catalysis A</i> , 2011, 350, 26-34.	4.8	72

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19	Oxidative functionalisation of alkanes: synthesis, molecular structure and catalytic implications of anionic vanadium(V) oxo and peroxy complexes containing bidentate N,O ligands. Journal of the Chemical Society Dalton Transactions, 1999, , 3169-3175.	1.1	71
20	Mono and oligonuclear vanadium complexes as catalysts for alkane oxidation: synthesis, molecular structure, and catalytic potential. Inorganica Chimica Acta, 2004, 357, 475-484.	2.4	71
21	Solvent-controlled synthesis of tetranuclear cage-like copper(II) silsesquioxanes. Remarkable features of the cage structures and their high catalytic activity in oxidation with peroxides. Dalton Transactions, 2014, 43, 872-882.	3.3	69
22	Copper(II) complexes of functionalized 2,2',6',2''-terpyridines and 2,6-di(thiazol-2-yl)pyridine; structure, spectroscopy, cytotoxicity and catalytic activity. Dalton Transactions, 2017, 46, 9591-9604.	3.3	69
23	Cage-Like Copper(II) Silsesquioxanes: Transmetalation Reactions and Structural, Quantum Chemical, and Catalytic Studies. Chemistry - A European Journal, 2015, 21, 8758-8770.	3.3	65
24	Mechanism of Al <sup>3+</sup> -Catalyzed Oxidations of Hydrocarbons: Dramatic Activation of H <sub>2</sub> O <sub>2</sub> toward O <sup>•</sup> Homolysis in Complex [Al(H <sub>2</sub> O) <sub>4</sub> ](OOH)(H <sub>2</sub> O) <sub>2</sub> ] <sup>2+</sup> Explains the Formation of HO <sup>•</sup> Radicals. Inorganic Chemistry, 2011, 50, 3996-4005.	4.0	63
25	Hydroperoxidation of alkanes with hydrogen peroxide catalyzed by aluminium nitrate in acetonitrile. Tetrahedron Letters, 2008, 49, 6693-6697.	1.4	57
26	A hydroperoxy-rebound mechanism of alkane oxidation with hydrogen peroxide catalyzed by binuclear manganese(IV) complex in the presence of an acid with involvement of atmospheric dioxygen. Inorganica Chimica Acta, 2017, 455, 666-676.	2.4	56
27	Unusual Tri-, Hexa-, and Nonanuclear Cu(II) Cage Methylsilsesquioxanes: Synthesis, Structures, and Catalytic Activity in Oxidations with Peroxides. Inorganic Chemistry, 2017, 56, 4093-4103.	4.0	54
28	Binuclear Cage-Like Copper(II) Silsesquioxane (‘‘Cooling Tower’’) Its High Catalytic Activity in the Oxidation of Benzene and Alcohols. European Journal of Inorganic Chemistry, 2013, 2013, 5240-5246.	2.0	53
29	A heterometallic (Fe <sub>6</sub> Na <sub>8</sub> ) cage-like silsesquioxane: synthesis, structure, spin glass behavior and high catalytic activity. RSC Advances, 2016, 6, 48165-48180.	3.6	53
30	Oxidations by the system ‘‘hydrogen peroxide’’[Mn <sub>2</sub> L <sub>2</sub> O <sub>3</sub> ][PF <sub>6</sub> ] <sub>2</sub> (L=1,4,7-trimethyl-1,4,7-triazacyclononane) ‘‘oxalic acid’’. Part 6. Oxidation of methane and other alkanes and olefins in water. Journal of Organometallic Chemistry, 2005, 690, 4498-4504.	1.8	52
31	Regioselective alkane oxygenation with H <sub>2</sub> O <sub>2</sub> catalyzed by titanasilicalite TS-1. Tetrahedron Letters, 2006, 47, 3071-3075.	1.4	52
32	Oxidation of hydrocarbons with hydrogen peroxide catalyzed by maltolato vanadium complexes covalently bonded to silica gel. Catalysis Communications, 2007, 8, 1516-1520.	3.3	51
33	High Catalytic Activity of Vanadium Complexes in Alkane Oxidations with Hydrogen Peroxide: An Effect of 8-Hydroxyquinoline Derivatives as Noninnocent Ligands. Inorganic Chemistry, 2018, 57, 1824-1839.	4.0	51
34	Oxidation of saturated hydrocarbons with peroxyacetic acid catalyzed by vanadium complexes. Journal of Molecular Catalysis A, 2004, 218, 171-177.	4.8	49
35	Oxidations catalyzed by osmium compounds. Part 1: Efficient alkane oxidation with peroxides catalyzed by an olefin carbonyl osmium(0) complex. Journal of Organometallic Chemistry, 2006, 691, 837-845.	1.8	49
36	Oxidation of isoeugenol to vanillin by the ‘‘H <sub>2</sub> O <sub>2</sub> ’’ ‘‘vanadate’’ ‘‘pyrazine-2-carboxylic acid’’ reagent. Journal of Molecular Catalysis A, 2012, 363-364, 140-147.	4.8	49

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37	Oxidation of alkanes and alcohols with hydrogen peroxide catalyzed by complex $\text{Os}(\text{CO})_2(\text{H})_2$ . Applied Organometallic Chemistry, 2010, 24, 464-472.	3.5	48
38	Alkane oxygenation with $\text{H}_2\text{O}_2$ catalysed by $\text{FeCl}_3$ and 2,2'-bipyridine. Tetrahedron Letters, 2005, 46, 4563-4567.	1.4	47
39	Radical decomposition of hydrogen peroxide catalyzed by aqua complexes $[\text{M}(\text{H}_2\text{O})_6]^{2+}$ ( $\text{M} = \text{Be}, \text{Zn}, \text{Cd}$ ). Journal of Catalysis, 2014, 313, 135-148.	6.2	47
40	Alkane oxidation with peroxides catalyzed by cage-like copper silsesquioxanes. New Journal of Chemistry, 2015, 39, 187-199.	2.8	46
41	Oxidation of Reactive Alcohols with Hydrogen Peroxide Catalyzed by Manganese Complexes. Catalysis Letters, 2010, 138, 193-204.	2.6	45
42	Copper complexes with 2,2',6',2'-terpyridine, 2,6-di(thiazol-2-yl)pyridine and 2,6-di(pyrazin-2-yl)pyridine substituted with quinolines. Synthesis, structure, antiproliferative activity, and catalytic activity in the oxidation of alkanes and alcohols with peroxides. Dalton Transactions, 2019, 48, 12656-12673.	3.3	44
43	Oxidation of alkanes and olefins with hydrogen peroxide in acetonitrile solution catalyzed by a mesoporous titanium-silicate Ti-MMM-2. Applied Catalysis A: General, 2009, 365, 96-104.	4.3	42
44	New oxidovanadium complex with a BIAN ligand: synthesis, structure, redox properties and catalytic activity. New Journal of Chemistry, 2018, 42, 16200-16210.	2.8	42
45	Cyclopentadienyl cobalt(III) complexes: Synthetic and catalytic chemistry. Coordination Chemistry Reviews, 2019, 387, 1-31.	18.8	41
46	Oxygenation of alkanes with hydrogen peroxide catalysed by osmium complexes. Chemical Communications, 2000, , 1131-1132.	4.1	40
47	Decamethylsmocene-catalyzed efficient oxidation of saturated and aromatic hydrocarbons and alcohols with hydrogen peroxide in the presence of pyridine. Journal of Catalysis, 2011, 277, 164-172.	6.2	40
48	Oxidation of Olefins with Hydrogen Peroxide Catalyzed by Bismuth Salts: A Mechanistic Study. ACS Catalysis, 2015, 5, 3823-3835.	11.2	40
49	High-Cluster ( $\text{Cu}_9$ ) Cage Silsesquioxanes: Synthesis, Structure, and Catalytic Activity. Inorganic Chemistry, 2018, 57, 11524-11529.	4.0	40
50	Oxidation of hydrocarbons with $\text{H}_2\text{O}_2/\text{O}_2$ catalyzed by osmium complexes containing p-cymene ligands in acetonitrile. Catalysis Science and Technology, 2014, 4, 3214-3226.	4.1	38
51	Oxidation of alkanes with m-chloroperbenzoic acid catalyzed by iron(III) chloride and a polydentate amine. Journal of Molecular Catalysis A, 2004, 219, 255-264.	4.8	37
52	High Catalytic Activity of Heterometallic ( $\text{Fe}_6\text{Na}_7$ and $\text{Fe}_6\text{Na}_6$ ) Cage Silsesquioxanes in Oxidations with Peroxides. Catalysts, 2017, 7, 101.	3.5	37
53	Oxidations by the system "hydrogen peroxide" $[\text{Mn}_2\text{L}_2\text{O}_3]^{2+}$ ( $\text{L} = 1,4,7\text{-trimethyl-1,4,7-triazacyclononane}$ ) "oxalic acid". Part 11. Degradation of dye Rhodamine 6G and oxygenation of cyclohexene. Journal of Molecular Catalysis A, 2009, 299, 77-87.	4.8	36
54	Cage-like $\text{Fe}_6\text{Na}_6$ Silsesquioxanes: Structure, Magnetism, and Catalytic Activity. Angewandte Chemie - International Edition, 2016, 55, 15360-15363.	13.8	36

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55	Si <sub>10</sub> Cu <sub>6</sub> N <sub>4</sub> Cage Hexacoppersilsesquioxanes Containing N Ligands: Synthesis, Structure, and High Catalytic Activity in Peroxide Oxidations. <i>Inorganic Chemistry</i> , 2017, 56, 15026-15040.	4.0	36
56	Aerobic hydroxylation of hydrocarbons catalysed by vanadate ion. <i>Journal of Molecular Catalysis A</i> , 2003, 197, 65-71.	4.8	34
57	Ionic Complexes of Tetra- and Nonanuclear Cage Copper(II) Phenylsilsesquioxanes: Synthesis and High Activity in Oxidative Catalysis. <i>ChemCatChem</i> , 2017, 9, 4437-4447.	3.7	33
58	Metal Complexes Containing Redox-Active Ligands in Oxidation of Hydrocarbons and Alcohols: A Review. <i>Catalysts</i> , 2019, 9, 1046.	3.5	33
59	Novel Cage-Like Hexanuclear Nickel(II) Silsesquioxane. Synthesis, Structure, and Catalytic Activity in Oxidations with Peroxides. <i>Molecules</i> , 2016, 21, 665.	3.8	32
60	Mild oxidative alkane functionalization with peroxides in the presence of ferrocene. <i>Catalysis Communications</i> , 2013, 31, 32-36.	3.3	31
61	Mild and Regioselective Hydroxylation of Methyl Group in Neocuproine: Approach to an N,O-Ligated Cu <sub>6</sub> Cage Phenylsilsesquioxane. <i>Organometallics</i> , 2018, 37, 168-171.	2.3	31
62	Stereoselective Alkane Oxidation with meta-Chloroperoxybenzoic Acid (MCPBA) Catalyzed by Organometallic Cobalt Complexes. <i>Molecules</i> , 2016, 21, 1593.	3.8	29
63	Oxidation reactions catalyzed by osmium compounds. Part 4. Highly efficient oxidation of hydrocarbons and alcohols including glycerol by the H <sub>2</sub> O <sub>2</sub> /Os <sub>3</sub> (CO) <sub>12</sub> /pyridine reagent. <i>RSC Advances</i> , 2013, 3, 15065.	3.6	28
64	Highly efficient oxidation of alcohols by the system "hydrogen peroxide-[Imn(o)3mnl](pf6) <sub>2</sub> (l = Tj ETQq0 0 0 rgBT /Overlock 10 T 88, 339-348.	0.6	27
65	Hydrogen Peroxide Oxygenation of Saturated and Unsaturated Hydrocarbons Catalyzed by Montmorillonite or Aluminum Oxide. <i>Catalysis Letters</i> , 2009, 132, 235-243.	2.6	27
66	Oxidation of alcohols with hydrogen peroxide catalyzed by soluble iron and osmium derivatives. Reaction Kinetics and Catalysis Letters, 2006, 88, 157-163.	0.6	26
67	Heptanuclear Cage Cu <sup>II</sup> -silsesquioxanes: Synthesis, Structure and Catalytic Activity. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 2505-2511.	2.0	26
68	Novel Oxidovanadium Complexes with Redox-Active R-Mian and R-Bian Ligands: Synthesis, Structure, Redox and Catalytic Properties. <i>Molecules</i> , 2021, 26, 5706.	3.8	26
69	Oxidation of alkanes and benzene with hydrogen peroxide catalyzed by ferrocene in the presence of acids. <i>Journal of Organometallic Chemistry</i> , 2015, 793, 217-231.	1.8	25
70	Heptanuclear Fe <sub>5</sub> Cu <sub>2</sub> -Phenylgermsesquioxane containing 2,2'-Bipyridine: Synthesis, Structure, and Catalytic Activity in Oxidation of C-H Compounds. <i>Inorganic Chemistry</i> , 2018, 57, 528-534.	4.0	25
71	Peroxyacetic Acid Oxidation of Olefins and Alkanes Catalyzed by a Dinuclear Manganese(IV) Complex with 1,4,7-trimethyl-1,4,7-triazacyclononane. <i>Catalysis Letters</i> , 2007, 118, 22-29.	2.6	24
72	New p-tolylimido rhenium(≪scp>v</scp>) complexes with carboxylate-based ligands: synthesis, structures and their catalytic potential in oxidations with peroxides. <i>Dalton Transactions</i> , 2014, 43, 5759-5776.	3.3	24

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73	New Oxidovanadium(IV) Complexes with 2,2'-bipyridine and 1,10-phenanthroline Ligands: Synthesis, Structure and High Catalytic Activity in Oxidations of Alkanes and Alcohols with Peroxides. Catalysts, 2019, 9, 217.	3.5	24
74	Platanin-Like Cu <sub>4</sub> Na <sub>4</sub> Silsesquioxane Synthesis (via Oxidation of 1,1-bis(Diphenylphosphino)methane), Structure and Catalytic Activity in Alkane or Alcohol Oxidation with Peroxides. Catalysts, 2019, 9, 154.	3.5	24
75	Synthesis, structure, electrochemistry, and Mössbauer effect studies of (ring)Fe complexes (ring=Cp,) [Tj ETQq1 1 0.784314 rgBT /Ov	1.8	23
76	Family of penta- and hexanuclear metallasilsesquioxanes: Synthesis, structure and catalytic properties in oxidations. Journal of Organometallic Chemistry, 2018, 867, 133-141.	1.8	23
77	Dinuclear manganese complexes containing 1,4-dimethyl-1,4,7-triazacyclononane ligands as well as carboxylato and oxo bridges. Inorganica Chimica Acta, 2006, 359, 1619-1626.	2.4	22
78	Oxidation of Saturated Hydrocarbons to Alkyl Hydroperoxides by a H <sub>2</sub> O <sub>2</sub> /Titanosilicalite-1/NaOH/MeCN System. Catalysis Letters, 2008, 123, 135-141.	2.6	22
79	Oxidation of hydrocarbons and alcohols with peroxides catalyzed by new $\eta^5$ -cymene osmium complexes. Journal of Organometallic Chemistry, 2015, 784, 52-61.	1.8	22
80	Coordination Affinity of Cu(II)-Based Silsesquioxanes toward N,N-Ligands and Associated Skeletal Rearrangements: Cage and Ionic Products Exhibiting a High Catalytic Activity in Oxidation Reactions. Inorganic Chemistry, 2020, 59, 4536-4545.	4.0	22
81	Hexacoppergermsesquioxanes as complexes with N-ligands: Synthesis, structure and catalytic properties. Journal of Organometallic Chemistry, 2019, 884, 17-28.	1.8	21
82	A new $\eta^5$ -bicycle helmet-like copper( $\eta^5$ ),sodiumphenylsilsesquioxane. Synthesis, structure and catalytic activity. Dalton Transactions, 2018, 47, 15666-15669.	3.3	18
83	Copper complexes with 1,10-phenanthrolines as efficient catalysts for oxidation of alkanes by hydrogen peroxide. Inorganica Chimica Acta, 2020, 512, 119889.	2.4	17
84	Oxidative functionalization of C-H compounds induced by the extremely efficient osmium catalysts (a) Tj ETQq0,0,0 rgBT /Ov	4.1	16
85	Oxidation of Organic Compounds with Peroxides Catalyzed by Polynuclear Metal Compounds. Catalysts, 2021, 11, 186.	3.5	16
86	Oxygenation of saturated and aromatic hydrocarbons with H <sub>2</sub> O <sub>2</sub> catalysed by the carbonyl thiophenolate iron complex (OC) <sub>3</sub> Fe(PhS) <sub>2</sub> Fe(CO) <sub>3</sub> . Catalysis Today, 2013, 218-219, 93-98.	4.4	15
87	Oxidation of hydroxyacetone (acetol) with hydrogen peroxide in acetonitrile solution catalyzed by iron(III) chloride. Journal of Molecular Catalysis A, 2016, 422, 103-114.	4.8	15
88	New Cu <sub>4</sub> Na <sub>4</sub> - and Cu <sub>5</sub> -Based Phenylsilsesquioxanes. Synthesis via Complexation with 1,10-Phenanthroline, Structures and High Catalytic Activity in Alkane Oxidations with Peroxides in Acetonitrile. Catalysts, 2019, 9, 701.	3.5	15
89	Hydrocarbon oxygenation with Oxone catalyzed by complex [Mn <sub>2</sub> L <sub>2</sub> O <sub>3</sub> ] <sub>2</sub> + (L=1,4,7-trimethyl-1,4,7-triazacyclononane) and oxalic acid. Tetrahedron, 2012, 68, 8589-8599.	1.9	14
90	Cu <sub>42</sub> Ge <sub>24</sub> Na <sub>4</sub> A Giant Trimetallic Sesquioxane Cage: Synthesis, Structure, and Catalytic Activity. Catalysts, 2018, 8, 484.	3.5	14

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91	Synthesis, structures and catalytic activity of p-tolylimido rhenium(V) complexes incorporating quinoline-derived ligands. <i>Inorganica Chimica Acta</i> , 2017, 455, 683-695.	2.4	12
92	Oxidation of olefins with H <sub>2</sub> O <sub>2</sub> catalyzed by gallium(III) nitrate and aluminum(III) nitrate in solution. <i>Journal of Molecular Catalysis A</i> , 2016, 422, 216-220.	4.8	11
93	Exploring Cage-like Silsesquioxane Building Blocks for the Design of Heterometallic Cu <sub>4</sub> /M <sub>4</sub> Architectures. <i>Crystal Growth and Design</i> , 2022, 22, 2146-2157.	3.0	11
94	Oxygenation of aromatic hydrocarbons with hydrogen peroxide catalyzed by rhodium carbonyl complexes. <i>Applied Organometallic Chemistry</i> , 2008, 22, 684-688.	3.5	10
95	p-Tolylimido rhenium(V) complexes with phenolate-based ligands: synthesis, X-ray studies and catalytic activity in oxidation with tert-butylhydroperoxide. <i>Dalton Transactions</i> , 2016, 45, 334-351.	3.3	10
96	Oxidative functionalisation of ethane with hydrogen peroxide catalysed by chromic acid. <i>Journal of Chemical Research</i> , 2000, 2000, 576-577.	1.3	9
97	Novel Copper(II) Complexes with Dipinodiazfluorene Ligands: Synthesis, Structure, Magnetic and Catalytic Properties. <i>Molecules</i> , 2022, 27, 4072.	3.8	6
98	Cage-like Fe, Na-Germesquioxanes: Structure, Magnetism, and Catalytic Activity. <i>Angewandte Chemie</i> , 2016, 128, 15586-15589.	2.0	1
99	Metal-Catalyzed Oxidation of C-H Compounds with Peroxides in Unconventional Solvents. <i>Green Chemistry and Sustainable Technology</i> , 2019, , 1-35.	0.7	0