Oxana A Kholdeeva

List of Publications by Year
in descending order

89 papers	4,463 citations	71102 41 h-index	110387 64 g-index
99 all docs	99 docs citations	99 times ranked	3888 citing authors

#	Article	IF	Citations
1	Cyclic carbonates synthesis from epoxides and CO2 over metalâ€“organic framework Cr-MIL-101. Journal of Catalysis, 2013, 298, 179-185.	6.2	267
2	Hybrid Polyoxotungstate/MIL-101 Materials: Synthesis, Characterization, and Catalysis of H₂O₂-Based Alkene Epoxidation. Inorganic Chemistry, 2010, 49, 2920-2930.	4.0	228
3	Solvent-free allylic oxidation of alkenes with O2 mediated by Fe- and Cr-MIL-101. Journal of Catalysis, 2013, 298, 61-69.	6.2	202
4	Cyclohexane selective oxidation over metalâ€“organic frameworks of MIL-101 family: superior catalytic activity and selectivity. Chemical Communications, 2012, 48, 6812.	4.1	175
5	A Dimeric Titanium-Containing Polyoxometalate. Synthesis, Characterization, and Catalysis of H2O2-Based Thioether Oxidation. Inorganic Chemistry, 2000, 39, 3828-3837.	4.0	149
6	Mechanistic Insights into Alkene Epoxidation with H₂O₂by Ti- and other TM-Containing Polyoxometalates: Role of the Metal Nature and Coordination Environment. Journal of the American Chemical Society, 2010, 132, 7488-7497.	13.7	148
7	ZrIV-Monosubstituted Keggin-Type Dimeric Polyoxometalates:â€‰ Synthesis, Characterization, Catalysis of H2O2-Based Oxidations, and Theoretical Study. Inorganic Chemistry, 2006, 45, 7224-7234.	4.0	113
8	Hydrocarbon oxidation over Fe- and Cr-containing metal-organic frameworks MIL-100 and MIL-101â€“a comparative study. Catalysis Today, 2014, 238, 54-61.	4.4	103
9	Titanium- and zirconium-monosubstituted polyoxometalates as molecular models for studying mechanisms of oxidation catalysis. Journal of Molecular Catalysis A, 2007, 262, 7-24.	4.8	101
10	Metalâ€“organic frameworks of the MIL-101 family as heterogeneous single-site catalysts. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 2017-2034.	2.1	91
11	Heterogeneous Selective Oxidation of Alkenes to Î±,Î²â€•Unsaturated Ketones over Coordination Polymer MILâ€•101. Advanced Synthesis and Catalysis, 2010, 352, 2943-2948.	4.3	84
12	Iron tetrasulfophthalocyanine immobilized on metal organic framework MIL-101: synthesis, characterization and catalytic properties. Dalton Transactions, 2011, 40, 1441.	3.3	82
13	Recent developments in liquid-phase selective oxidation using environmentally benign oxidants and mesoporous metal silicates. Catalysis Science and Technology, 2014, 4, 1869-1889.	4.1	80
14	Synthesis, Characterization, and Reactivity of Ti(IV)-Monosubstituted Keggin Polyoxometalates. Inorganic Chemistry, 2005, 44, 1635-1642.	4.0	79
15	First Isolated Active Titanium Peroxo Complex:Â Characterization and Theoretical Study. Inorganic Chemistry, 2004, 43, 2284-2292.	4.0	77
16	The role of protons in cyclohexene oxidation with H2O2 catalysed by Ti(IV)-monosubstituted Keggin polyoxometalate. Journal of Molecular Catalysis A, 2005, 232, 173-178.	4.8	75
17	Dititanium-Containing 19-Tungstodiarsenate(III) [Ti2(OH)2As2W19O67(H2O)]8âˆ’: Synthesis, Structure, Electrochemistry, and Oxidation Catalysis. Chemistry - A European Journal, 2007, 13, 4733-4742.	3.3	73
18	Highly Efficient Catalysts Based on Divanadium-Substituted Polyoxometalate and N-Doped Carbon Nanotubes for Selective Oxidation of Alkylphenols. ACS Catalysis, 2018, 8, 1297-1307.	11.2	72

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19	Titanium-monosubstituted polyoxometalates: relation between homogeneous and heterogeneous Ti-single-site-based catalysis. Topics in Catalysis, 2006, 40, 229-243.	2.8	71
20	MILâ€101 Supported Polyoxometalates: Synthesis, Characterization, and Catalytic Applications in Selective Liquidâ€Phase Oxidation. Israel Journal of Chemistry, 2011, 51, 281-289.	2.3	71
21	A new mesoporous titanium-silicate Ti-MMM-2: a highly active and hydrothermally stable catalyst for H2O2-based selective oxidations. Catalysis Today, 2004, 91-92, 205-209.	4.4	69
22	Aerobic Oxidation of Formaldehyde Mediated by a Ce-Containing Polyoxometalate under Mild Conditions. Inorganic Chemistry, 2005, 44, 666-672.	4.0	68
23	New routes to Vitamin K3. Catalysis Today, 2007, 121, 58-64.	4.4	62
24	Highly Selective Oxidation of Alkylphenols to <i>p</i>-Benzoquinones with Aqueous Hydrogen Peroxide Catalyzed by Divanadium-Substituted Polyoxotungstates. ACS Catalysis, 2014, 4, 2706-2713.	11.2	57
25	Recent advances in transition-metal-catalyzed selective oxidation of substituted phenols and methoxyarenes with environmentally benign oxidants. Coordination Chemistry Reviews, 2016, 306, 302-330.	18.8	57
26	Hexazirconiumâ€•and Hexahafniumâ€Containing Tungstoarsenates(III) and Their Oxidation Catalysis Properties. Chemistry - A European Journal, 2010, 16, 11797-11800.	3.3	56
27	Relevance of Protons in Heterolytic Activation of H₂O₂ over Nb(V): Insights from Model Studies on Nb-Substituted Polyoxometalates. ACS Catalysis, 2018, 8, 9722-9737.	11.2	52
28	Hydrogen Peroxide Activation over Ti^{IV}: What Have We Learned from Studies on Tiâ€Containing Polyoxometalates?. European Journal of Inorganic Chemistry, 2013, 2013, 1595-1605.	2.0	50
29	Highly Selective H₂O₂â€Based Oxidation of Alkylphenols to <i>p</i>â€Benzoquinones Over MILâ€125 Metalâ€"Organic Frameworks. European Journal of Inorganic Chemistry, 2014, 2014, 132-139.	2.0	50
30	Toward understanding the unusual reactivity of mesoporous niobium silicates in epoxidation of C C bonds with hydrogen peroxide. Journal of Catalysis, 2017, 356, 85-99.	6.2	50
31	One-step solvent-free synthesis of cyclic carbonates by oxidative carboxylation of styrenes over a recyclable Ti-containing catalyst. Applied Catalysis B: Environmental, 2016, 181, 363-370.	20.2	49
32	Highly efficient production of 2,3,5-trimethyl-1,4-benzoquinone using aqueous H2O2 and grafted Ti(iv)/SiO2 catalyst. Green Chemistry, 2007, 9, 731.	9.0	48
33	Alkene oxidation by Ti-containing polyoxometalates. Unambiguous characterization of the role of the protonation state. Chemical Communications, 2012, 48, 9266.	4.1	48
34	Liquid-phase selective oxidation catalysis with metal-organic frameworks. Catalysis Today, 2016, 278, 22-29.	4.4	48
35	Unique Catalytic Performance of the Polyoxometalate [Ti₂(OH)₂As₂W₁₉O₆₇(H₂O)]^{8â€"}: The Role of 5â€Coordinated Titanium in H₂O₂ Activation. European Journal of Inorganic Chemistry, 2009, 2009, 5134-5141.	2.0	47
36	Kinetics and mechanism of the oxidation of alkyl substituted phenols and naphthols with tBuOOH in the presence of supported iron phthalocyanine. New Journal of Chemistry, 2009, 33, 1031.	2.8	46

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37	How to reach 100% selectivity in H2O2-based oxidation of 2,3,6-trimethylphenol to trimethyl-p-benzoquinone over Ti,Si-catalysts. Catalysis Today, 2009, 141, 330-336.	4.4	44
38	Mesoporous niobium-silicates prepared by evaporation-induced self-assembly as catalysts for selective oxidations with aqueous H2O2. Journal of Catalysis, 2015, 332, 138-148.	6.2	43
39	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
40	Epoxidation of Alkenes with H₂O₂ Catalyzed by Dititaniumâ€Containing 19â€Tungstodiarsenate(III): Experimental and Theoretical Studies. European Journal of Inorganic Chemistry, 2010, 2010, 5312-5317.	2.0	42
41	User-friendly synthesis of highly selective and recyclable mesoporous titanium-silicate catalysts for the clean production of substituted p-benzoquinones. Catalysis Science and Technology, 2014, 4, 200-207.	4.1	41
42	Protons Make Possible Heterolytic Activation of Hydrogen Peroxide over Zr-Based Metalâ€"Organic Frameworks. ACS Catalysis, 2019, 9, 9699-9704.	11.2	41
43	Preparation of 2-methyl-1,4-naphthoquinone (vitamin K3) by catalytic oxidation of 2-methyl-1-naphthol in the presence of iron phthalocyanine supported catalyst. Comptes Rendus Chimie, 2007, 10, 598-603.	0.5	40
44	Alkene Epoxidation Catalyzed by Ti-Containing Polyoxometalates: Unprecedented Î²-Oxygen Transfer Mechanism. Inorganic Chemistry, 2016, 55, 6080-6084.	4.0	40
45	FTIR Spectroscopic Study of Titanium-Containing Mesoporous Silicate Materials. Langmuir, 2005, 21, 10545-10554.	3.5	38
46	Alkene and thioether oxidations with H2O2 over Ti-containing mesoporous mesophase catalysts. Journal of Molecular Catalysis A, 2000, 158, 417-421.	4.8	37
47	EPR study on the mechanism of H2O2-based oxidation of alkylphenols over titanium single-site catalysts. Journal of Molecular Catalysis A, 2007, 277, 185-192.	4.8	37
48	Why Does Nb(V) Show Higher Heterolytic Pathway Selectivity Than Ti(IV) in Epoxidation with H₂O₂? Answers from Model Studies on Nb- and Ti-Substituted Lindqvist Tungstates. ACS Catalysis, 2019, 9, 6262-6275.	11.2	36
49	Catalytic properties of the macromolecular polyoxomolybdate cluster in selective oxidation of sulfides. Russian Chemical Bulletin, 2009, 58, 134-137.	1.5	35
50	Efficient epoxidation of olefins by H2O2 catalyzed by iron â€œhelmetâ€• phthalocyanines. Chemical Communications, 2013, 49, 5577.	4.1	35
51	Kinetics and mechanism of thioether oxidation with H2O2 in the presence of Ti(IV)-substituted heteropolytungstates. Journal of Molecular Catalysis A, 2000, 158, 223-229.	4.8	34
52	Metal-Organic Frameworks in Oxidation Catalysis with Hydrogen Peroxide. Catalysts, 2021, 11, 283.	3.5	34
53	Full phenol peroxide oxidation over Fe-MMM-2 catalysts with enhanced hydrothermal stability. Applied Catalysis B: Environmental, 2007, 75, 290-297.	20.2	31
54	Propylene glycol oxidation with tert -butyl hydroperoxide over Cr-containing metal-organic frameworks MIL-101 and MIL-100. Catalysis Today, 2016, 278, 97-103.	4.4	31

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55	Nucleophilic versus Electrophilic Activation of Hydrogen Peroxide over Zr-Based Metalâ€“Organic Frameworks. Inorganic Chemistry, 2020, 59, 10634-10649.	4.0	30
56	Mechanism of Thioether Oxidation over Diâ€•and Tetrameric Ti Centres: Kinetic and DFT Studies Based on Model Tiâ€Containing Polyoxometalates. Chemistry - A European Journal, 2015, 21, 14496-14506.	3.3	27
57	Propylene glycol oxidation with hydrogen peroxide over Zr-containing metal-organic framework UiO-66. Catalysis Today, 2019, 333, 47-53.	4.4	25
58	Activation of H₂O₂ over Zr(IV). Insights from Model Studies on Zr-Monosubstituted Lindqvist Tungstates. ACS Catalysis, 2021, 11, 10589-10603.	11.2	25
59	Understanding the Regioselectivity of Aromatic Hydroxylation over Divanadium-Substituted Î³-Keggin Polyoxotungstate. ACS Catalysis, 2017, 7, 8514-8523.	11.2	23
60	H2O2-based selective epoxidations: Nb-silicates versus Ti-silicates. Catalysis Today, 2019, 333, 63-70.	4.4	23
61	H2O2-Based oxidation of functionalized phenols containing several oxidizable sites to p-quinones using a mesoporous titanium-silicate catalyst. Green Chemistry, 2006, 8, 883.	9.0	21
62	H2O2-based selective oxidations by divanadium-substituted polyoxotungstate supported on nitrogen-doped carbon nanomaterials. Catalysis Today, 2020, 354, 196-203.	4.4	20
63	Catalytic Performance of Zrâ€Based Metalâ€“Organic Frameworks Zrâ€abtc and MIPâ€200 in Selective Oxidations with H₂O₂. Chemistry - A European Journal, 2021, 27, 6985-6992.	3.3	20
64	Selective oxidation of pseudocumene and 2-methylnaphthalene withÂaqueous hydrogen peroxide catalyzed by Î³-Keggin divanadium-substituted polyoxotungstate. Journal of Organometallic Chemistry, 2015, 793, 210-216.	1.8	19
65	Catalytic Properties and Stability of the Heteropolytungstate [P₂W₂₁O₇₁(H₂O)₃]^{6â€“} in H₂O₂â€Based Oxidations. European Journal of Inorganic Chemistry, 2009, 2009, 5142-5147.	2.0	18
66	Allylic oxdation of alkenes with molecular oxygen catalyzed by porous coordination polymers Fe-MIL-101 and Cr-MIL-101. Kinetics and Catalysis, 2013, 54, 607-614.	1.0	18
67	Mechanistic Insights into Oxidation of 2-Methyl-1-naphthol with Dioxygen: Autoxidation or a Spin-Forbidden Reaction?. Journal of Physical Chemistry B, 2011, 115, 11971-11983.	2.6	16
68	Industrial Applications. , 0, , 451-506.		16
69	Synthesis of coenzyme Q₀ through divanadium-catalyzed oxidation of 3,4,5-trimethoxytoluene with hydrogen peroxide. Dalton Transactions, 2017, 46, 5202-5209.	3.3	16
70	Carbon Nanotubes Modified by Venturello Complex as Highly Efficient Catalysts for Alkene and Thioethers Oxidation With Hydrogen Peroxide. Frontiers in Chemistry, 2019, 7, 858.	3.6	16
71	Titanium-Doped Solid Core-Mesoporous Shell Silica Particles: Synthesis and Catalytic Properties in Selective Oxidation Reactions. Catalysis Letters, 2009, 127, 75-82.	2.6	15
72	Environmentally Benign Oxidants. , 0, , 1-20.		15

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73	Cyclohexene Oxidation with H2O2 over Metal-Organic Framework MIL-125(Ti): The Effect of Protons on Reactivity. Catalysts, 2019, 9, 324.	3.5	15
74	Clean catalytic oxidation of 8-hydroxyquinoline to quinoline-5,8-dione with tBuOOH in the presence of covalently bound FePcSâ€“SiO2 catalysts. Green Chemistry, 2010, 12, 1076.	9.0	14
75	Near-Infrared Photothermal Catalysis for Enhanced Conversion of Carbon Dioxide under Mild Conditions. ACS Applied Materials & Interfaces, 2022, 14, 5194-5202.	8.0	14
76	Thioether Oxidation with H₂O₂ Catalyzed by Nbâ€Substituted Polyoxotungstates: Mechanistic Insights. European Journal of Inorganic Chemistry, 2019, 2019, 410-416.	2.0	13
77	Environmentally Benign Oxidation of Alkylphenols to p-Benzoquinones: A Comparative Study of Various Ti-Containing Catalysts. Topics in Catalysis, 2014, 57, 1377-1384.	2.8	11
78	Titanium-silica catalyst derived from defined metallic titanium cluster precursor: Synthesis and catalytic properties in selective oxidations. Inorganica Chimica Acta, 2018, 470, 393-401.	2.4	11
79	Heterolytic alkene oxidation with H₂O₂ catalyzed by Nb-substituted Lindqvist tungstates immobilized on carbon nanotubes. Catalysis Science and Technology, 2021, 11, 3198-3207.	4.1	11
80	Tungsten-Based Mesoporous Silicates W-MMM-E as Heterogeneous Catalysts for Liquid-Phase Oxidations with Aqueous H2O2. Catalysts, 2018, 8, 95.	3.5	9
81	Liquid Phase Oxidation of Organic Compounds by Metal-Organic Frameworks. , 2013, , 371-409.		8
82	Guests Like Gear Levers: Donor Binding to Coordinatively Unsaturated Metal Sites in MILâ€101 Controls the Linkerâ€²s Rotation. Chemistry - A European Journal, 2019, 25, 5163-5168.	3.3	8
83	Novel optically active pyrazole ligands derived from (+)-3-carene. Tetrahedron: Asymmetry, 2001, 12, 2875-2881.	1.8	7
84	Heterogeneous epoxidation of menadione with hydrogen peroxide over the zeolite imidazolate framework ZIF-8. Dalton Transactions, 2020, 49, 12546-12549.	3.3	7
85	Aerobic oxidation of syringyl alcohol over N-doped carbon nanotubes. Applied Catalysis A: General, 2022, 629, 118424.	4.3	6
86	Catalytic properties of the polyoxometalate [Ti2(OH)2As2W19O67(H2O)]8âˆ' in selective oxidations with hydrogen peroxide. Kinetics and Catalysis, 2010, 51, 816-822.	1.0	5
87	Immobilization of Polyoxometalates on Carbon Nanotubes: Tuning Catalyst Activity, Selectivity and Stability in H2O2-Based Oxidations. Catalysts, 2022, 12, 472.	3.5	5
88	Recent Progress in Selective Oxidations with Hydrogen Peroxide Catalyzed by Polyoxometalates. Green Chemistry and Sustainable Technology, 2019, , 61-91.	0.7	4
89	Quantitative analysis of liquid-phase adsorption over chromium-containing metalâ€“organic frameworks of MTN topology. Adsorption, 2021, 27, 953-962.	3.0	0