

# Oxana A Kholdeeva

## List of Publications by Year in descending order

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89  
papers

4,463  
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71102

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110387

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docs citations

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times ranked

3888  
citing authors

#	ARTICLE	IF	CITATIONS
1	Aerobic oxidation of syringyl alcohol over N-doped carbon nanotubes. <i>Applied Catalysis A: General</i> , 2022, 629, 118424.	4.3	6
2	Near-Infrared Photothermal Catalysis for Enhanced Conversion of Carbon Dioxide under Mild Conditions. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 5194-5202.	8.0	14
3	Immobilization of Polyoxometalates on Carbon Nanotubes: Tuning Catalyst Activity, Selectivity and Stability in H <sub>2</sub> O <sub>2</sub> -Based Oxidations. <i>Catalysts</i> , 2022, 12, 472.	3.5	5
4	Quantitative analysis of liquid-phase adsorption over chromium-containing metal-organic frameworks of MTN topology. <i>Adsorption</i> , 2021, 27, 953-962.	3.0	0
5	Heterolytic alkene oxidation with H <sub>2</sub> O <sub>2</sub> catalyzed by Nb-substituted Lindqvist tungstates immobilized on carbon nanotubes. <i>Catalysis Science and Technology</i> , 2021, 11, 3198-3207.	4.1	11
6	Metal-Organic Frameworks in Oxidation Catalysis with Hydrogen Peroxide. <i>Catalysts</i> , 2021, 11, 283.	3.5	34
7	Catalytic Performance of Zr-Based Metal-Organic Frameworks Zr-MOF and MIP-200 in Selective Oxidations with H <sub>2</sub> O <sub>2</sub> . <i>Chemistry - A European Journal</i> , 2021, 27, 6985-6992.	3.3	20
8	Activation of H <sub>2</sub> O <sub>2</sub> over Zr(IV). Insights from Model Studies on Zr-Monosubstituted Lindqvist Tungstates. <i>ACS Catalysis</i> , 2021, 11, 10589-10603.	11.2	25
9	H <sub>2</sub> O <sub>2</sub> -based selective oxidations by divanadium-substituted polyoxotungstate supported on nitrogen-doped carbon nanomaterials. <i>Catalysis Today</i> , 2020, 354, 196-203.	4.4	20
10	Nucleophilic versus Electrophilic Activation of Hydrogen Peroxide over Zr-Based Metal-Organic Frameworks. <i>Inorganic Chemistry</i> , 2020, 59, 10634-10649.	4.0	30
11	Heterogeneous epoxidation of menadione with hydrogen peroxide over the zeolite imidazolate framework ZIF-8. <i>Dalton Transactions</i> , 2020, 49, 12546-12549.	3.3	7
12	Protons Make Possible Heterolytic Activation of Hydrogen Peroxide over Zr-Based Metal-Organic Frameworks. <i>ACS Catalysis</i> , 2019, 9, 9699-9704.	11.2	41
13	Why Does Nb(V) Show Higher Heterolytic Pathway Selectivity Than Ti(IV) in Epoxidation with H <sub>2</sub> O <sub>2</sub> ? Answers from Model Studies on Nb- and Ti-Substituted Lindqvist Tungstates. <i>ACS Catalysis</i> , 2019, 9, 6262-6275.	11.2	36
14	Cyclohexene Oxidation with H <sub>2</sub> O <sub>2</sub> over Metal-Organic Framework MIL-125(Ti): The Effect of Protons on Reactivity. <i>Catalysts</i> , 2019, 9, 324.	3.5	15
15	Guests Like Gear Levers: Donor Binding to Coordinatively Unsaturated Metal Sites in MIL-101 Controls the Linker's Rotation. <i>Chemistry - A European Journal</i> , 2019, 25, 5163-5168.	3.3	8
16	Carbon Nanotubes Modified by Venturello Complex as Highly Efficient Catalysts for Alkene and Thioethers Oxidation With Hydrogen Peroxide. <i>Frontiers in Chemistry</i> , 2019, 7, 858.	3.6	16
17	Propylene glycol oxidation with hydrogen peroxide over Zr-containing metal-organic framework UiO-66. <i>Catalysis Today</i> , 2019, 333, 47-53.	4.4	25
18	Thioether Oxidation with H <sub>2</sub> O <sub>2</sub> Catalyzed by Nb-Substituted Polyoxotungstates: Mechanistic Insights. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 410-416.	2.0	13

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19	H <sub>2</sub> O <sub>2</sub> -based selective epoxidations: Nb-silicates versus Ti-silicates. <i>Catalysis Today</i> , 2019, 333, 63-70.	4.4	23
20	Recent Progress in Selective Oxidations with Hydrogen Peroxide Catalyzed by Polyoxometalates. <i>Green Chemistry and Sustainable Technology</i> , 2019, , 61-91.	0.7	4
21	Highly Efficient Catalysts Based on Divanadium-Substituted Polyoxometalate and N-Doped Carbon Nanotubes for Selective Oxidation of Alkylphenols. <i>ACS Catalysis</i> , 2018, 8, 1297-1307.	11.2	72
22	Titanium-silica catalyst derived from defined metallic titanium cluster precursor: Synthesis and catalytic properties in selective oxidations. <i>Inorganica Chimica Acta</i> , 2018, 470, 393-401.	2.4	11
23	Relevance of Protons in Heterolytic Activation of H <sub>2</sub> O <sub>2</sub> over Nb(V): Insights from Model Studies on Nb-Substituted Polyoxometalates. <i>ACS Catalysis</i> , 2018, 8, 9722-9737.	11.2	52
24	Tungsten-Based Mesoporous Silicates W-MMM-E as Heterogeneous Catalysts for Liquid-Phase Oxidations with Aqueous H <sub>2</sub> O <sub>2</sub> . <i>Catalysts</i> , 2018, 8, 95.	3.5	9
25	Synthesis of coenzyme Q <sub>0</sub> through divanadium-catalyzed oxidation of 3,4,5-trimethoxytoluene with hydrogen peroxide. <i>Dalton Transactions</i> , 2017, 46, 5202-5209.	3.3	16
26	Toward understanding the unusual reactivity of mesoporous niobium silicates in epoxidation of C C bonds with hydrogen peroxide. <i>Journal of Catalysis</i> , 2017, 356, 85-99.	6.2	50
27	Understanding the Regioselectivity of Aromatic Hydroxylation over Divanadium-Substituted $\beta$ -Keggin Polyoxotungstate. <i>ACS Catalysis</i> , 2017, 7, 8514-8523.	11.2	23
28	Alkene Epoxidation Catalyzed by Ti-Containing Polyoxometalates: Unprecedented $\beta$ -Oxygen Transfer Mechanism. <i>Inorganic Chemistry</i> , 2016, 55, 6080-6084.	4.0	40
29	Propylene glycol oxidation with tert -butyl hydroperoxide over Cr-containing metal-organic frameworks MIL-101 and MIL-100. <i>Catalysis Today</i> , 2016, 278, 97-103.	4.4	31
30	Liquid-phase selective oxidation catalysis with metal-organic frameworks. <i>Catalysis Today</i> , 2016, 278, 22-29.	4.4	48
31	One-step solvent-free synthesis of cyclic carbonates by oxidative carboxylation of styrenes over a recyclable Ti-containing catalyst. <i>Applied Catalysis B: Environmental</i> , 2016, 181, 363-370.	20.2	49
32	Recent advances in transition-metal-catalyzed selective oxidation of substituted phenols and methoxyarenes with environmentally benign oxidants. <i>Coordination Chemistry Reviews</i> , 2016, 306, 302-330.	18.8	57
33	Mechanism of Thioether Oxidation over Di- and Tetrameric Ti Centres: Kinetic and DFT Studies Based on Model Ti-Containing Polyoxometalates. <i>Chemistry - A European Journal</i> , 2015, 21, 14496-14506.	3.3	27
34	Selective oxidation of pseudocumene and 2-methylnaphthalene with aqueous hydrogen peroxide catalyzed by $\beta$ -Keggin divanadium-substituted polyoxotungstate. <i>Journal of Organometallic Chemistry</i> , 2015, 793, 210-216.	1.8	19
35	Mesoporous niobium-silicates prepared by evaporation-induced self-assembly as catalysts for selective oxidations with aqueous H <sub>2</sub> O <sub>2</sub> . <i>Journal of Catalysis</i> , 2015, 332, 138-148.	6.2	43
36	Environmentally Benign Oxidation of Alkylphenols to p-Benzoquinones: A Comparative Study of Various Ti-Containing Catalysts. <i>Topics in Catalysis</i> , 2014, 57, 1377-1384.	2.8	11

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37	Highly Selective H <sub>2</sub> O <sub>2</sub> -Based Oxidation of Alkylphenols to <i>p</i> -Benzoquinones Over MIL-125 Metal-Organic Frameworks. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 132-139.	2.0	50
38	Recent developments in liquid-phase selective oxidation using environmentally benign oxidants and mesoporous metal silicates. <i>Catalysis Science and Technology</i> , 2014, 4, 1869-1889.	4.1	80
39	User-friendly synthesis of highly selective and recyclable mesoporous titanium-silicate catalysts for the clean production of substituted <i>p</i> -benzoquinones. <i>Catalysis Science and Technology</i> , 2014, 4, 200-207.	4.1	41
40	Highly Selective Oxidation of Alkylphenols to <i>p</i> -Benzoquinones with Aqueous Hydrogen Peroxide Catalyzed by Divanadium-Substituted Polyoxotungstates. <i>ACS Catalysis</i> , 2014, 4, 2706-2713.	11.2	57
41	Hydrocarbon oxidation over Fe- and Cr-containing metal-organic frameworks MIL-100 and MIL-101: a comparative study. <i>Catalysis Today</i> , 2014, 238, 54-61.	4.4	103
42	Allylic oxidation of alkenes with molecular oxygen catalyzed by porous coordination polymers Fe-MIL-101 and Cr-MIL-101. <i>Kinetics and Catalysis</i> , 2013, 54, 607-614.	1.0	18
43	Cyclic carbonates synthesis from epoxides and CO <sub>2</sub> over metal-organic framework Cr-MIL-101. <i>Journal of Catalysis</i> , 2013, 298, 179-185.	6.2	267
44	Solvent-free allylic oxidation of alkenes with O <sub>2</sub> mediated by Fe- and Cr-MIL-101. <i>Journal of Catalysis</i> , 2013, 298, 61-69.	6.2	202
45	Liquid Phase Oxidation of Organic Compounds by Metal-Organic Frameworks. , 2013, , 371-409.		8
46	Hydrogen Peroxide Activation over Ti <sup>IV</sup> : What Have We Learned from Studies on Ti-Containing Polyoxometalates?. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 1595-1605.	2.0	50
47	Efficient epoxidation of olefins by H <sub>2</sub> O <sub>2</sub> catalyzed by iron "helmet"-phthalocyanines. <i>Chemical Communications</i> , 2013, 49, 5577.	4.1	35
48	Alkene oxidation by Ti-containing polyoxometalates. Unambiguous characterization of the role of the protonation state. <i>Chemical Communications</i> , 2012, 48, 9266.	4.1	48
49	Metal-organic frameworks of the MIL-101 family as heterogeneous single-site catalysts. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012, 468, 2017-2034.	2.1	91
50	Cyclohexane selective oxidation over metal-organic frameworks of MIL-101 family: superior catalytic activity and selectivity. <i>Chemical Communications</i> , 2012, 48, 6812.	4.1	175
51	Iron tetrasulfophthalocyanine immobilized on metal organic framework MIL-101: synthesis, characterization and catalytic properties. <i>Dalton Transactions</i> , 2011, 40, 1441.	3.3	82
52	MIL-101 Supported Polyoxometalates: Synthesis, Characterization, and Catalytic Applications in Selective Liquid-Phase Oxidation. <i>Israel Journal of Chemistry</i> , 2011, 51, 281-289.	2.3	71
53	Mechanistic Insights into Oxidation of 2-Methyl-1-naphthol with Dioxygen: Autoxidation or a Spin-Forbidden Reaction?. <i>Journal of Physical Chemistry B</i> , 2011, 115, 11971-11983.	2.6	16
54	Epoxidation of Alkenes with H <sub>2</sub> O <sub>2</sub> Catalyzed by Ditungstium-Containing Tungstodiarсенate(III): Experimental and Theoretical Studies. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 5312-5317.	2.0	42

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55	Heterogeneous Selective Oxidation of Alkenes to $\alpha,\beta$ -Unsaturated Ketones over Coordination Polymer MIL-101. <i>Advanced Synthesis and Catalysis</i> , 2010, 352, 2943-2948.	4.3	84
56	Hexazirconium- and Hexahafnium-Containing Tungstoarsenates(III) and Their Oxidation Catalysis Properties. <i>Chemistry - A European Journal</i> , 2010, 16, 11797-11800.	3.3	56
57	Catalytic properties of the polyoxometalate $[\text{Ti}_2(\text{OH})_2\text{As}_2\text{W}_{19}\text{O}_{67}(\text{H}_2\text{O})]^{8-}$ in selective oxidations with hydrogen peroxide. <i>Kinetics and Catalysis</i> , 2010, 51, 816-822.	1.0	5
58	Mechanistic Insights into Alkene Epoxidation with $\text{H}_2\text{O}_2$ by Ti- and other TM-Containing Polyoxometalates: Role of the Metal Nature and Coordination Environment. <i>Journal of the American Chemical Society</i> , 2010, 132, 7488-7497.	13.7	148
59	Hybrid Polyoxotungstate/MIL-101 Materials: Synthesis, Characterization, and Catalysis of $\text{H}_2\text{O}_2$ -Based Alkene Epoxidation. <i>Inorganic Chemistry</i> , 2010, 49, 2920-2930.	4.0	228
60	Clean catalytic oxidation of 8-hydroxyquinoline to quinoline-5,8-dione with $\text{tBuOOH}$ in the presence of covalently bound $\text{FePc-SiO}_2$ catalysts. <i>Green Chemistry</i> , 2010, 12, 1076.	9.0	14
61	Unique Catalytic Performance of the Polyoxometalate $[\text{Ti}_2(\text{OH})_2\text{As}_2\text{W}_{19}\text{O}_{67}(\text{H}_2\text{O})]^{8-}$ : The Role of 5-Coordinated Titanium in $\text{H}_2\text{O}_2$ Activation. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 5134-5141.	2.0	47
62	Catalytic Properties and Stability of the Heteropolytungstate $[\text{P}_2\text{W}_{21}\text{O}_{71}(\text{H}_2\text{O})_3]^{6-}$ in $\text{H}_2\text{O}_2$ -Based Oxidations. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 5142-5147.	2.0	18
63	Titanium-Doped Solid Core-Mesoporous Shell Silica Particles: Synthesis and Catalytic Properties in Selective Oxidation Reactions. <i>Catalysis Letters</i> , 2009, 127, 75-82.	2.6	15
64	Catalytic properties of the macromolecular polyoxomolybdate cluster in selective oxidation of sulfides. <i>Russian Chemical Bulletin</i> , 2009, 58, 134-137.	1.5	35
65	Oxidation of alkanes and olefins with hydrogen peroxide in acetonitrile solution catalyzed by a mesoporous titanium-silicate Ti-MMM-2. <i>Applied Catalysis A: General</i> , 2009, 365, 96-104.	4.3	42
66	How to reach 100% selectivity in $\text{H}_2\text{O}_2$ -based oxidation of 2,3,6-trimethylphenol to trimethyl-p-benzoquinone over Ti,Si-catalysts. <i>Catalysis Today</i> , 2009, 141, 330-336.	4.4	44
67	Kinetics and mechanism of the oxidation of alkyl substituted phenols and naphthols with $\text{tBuOOH}$ in the presence of supported iron phthalocyanine. <i>New Journal of Chemistry</i> , 2009, 33, 1031.	2.8	46
68	Highly efficient production of 2,3,5-trimethyl-1,4-benzoquinone using aqueous $\text{H}_2\text{O}_2$ and grafted $\text{Ti(IV)/SiO}_2$ catalyst. <i>Green Chemistry</i> , 2007, 9, 731.	9.0	48
69	Dititanium-Containing 19-Tungstodiarsenate(III) $[\text{Ti}_2(\text{OH})_2\text{As}_2\text{W}_{19}\text{O}_{67}(\text{H}_2\text{O})]^{8-}$ : Synthesis, Structure, Electrochemistry, and Oxidation Catalysis. <i>Chemistry - A European Journal</i> , 2007, 13, 4733-4742.	3.3	73
70	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. <i>Comptes Rendus Chimie</i> , 2007, 10, 598-603.	0.5	40
71	Titanium- and zirconium-monosubstituted polyoxometalates as molecular models for studying mechanisms of oxidation catalysis. <i>Journal of Molecular Catalysis A</i> , 2007, 262, 7-24.	4.8	101
72	EPR study on the mechanism of $\text{H}_2\text{O}_2$ -based oxidation of alkylphenols over titanium single-site catalysts. <i>Journal of Molecular Catalysis A</i> , 2007, 277, 185-192.	4.8	37

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73	Full phenol peroxide oxidation over Fe-MMM-2 catalysts with enhanced hydrothermal stability. <i>Applied Catalysis B: Environmental</i> , 2007, 75, 290-297.	20.2	31
74	New routes to Vitamin K3. <i>Catalysis Today</i> , 2007, 121, 58-64.	4.4	62
75	ZrIV-Monosubstituted Keggin-Type Dimeric Polyoxometalates: Synthesis, Characterization, Catalysis of H <sub>2</sub> O <sub>2</sub> -Based Oxidations, and Theoretical Study. <i>Inorganic Chemistry</i> , 2006, 45, 7224-7234.	4.0	113
76	H <sub>2</sub> O <sub>2</sub> -Based oxidation of functionalized phenols containing several oxidizable sites to p-quinones using a mesoporous titanium-silicate catalyst. <i>Green Chemistry</i> , 2006, 8, 883.	9.0	21
77	Titanium-monosubstituted polyoxometalates: relation between homogeneous and heterogeneous Ti-single-site-based catalysis. <i>Topics in Catalysis</i> , 2006, 40, 229-243.	2.8	71
78	The role of protons in cyclohexene oxidation with H <sub>2</sub> O <sub>2</sub> catalysed by Ti(IV)-monosubstituted Keggin polyoxometalate. <i>Journal of Molecular Catalysis A</i> , 2005, 232, 173-178.	4.8	75
79	FTIR Spectroscopic Study of Titanium-Containing Mesoporous Silicate Materials. <i>Langmuir</i> , 2005, 21, 10545-10554.	3.5	38
80	Aerobic Oxidation of Formaldehyde Mediated by a Ce-Containing Polyoxometalate under Mild Conditions. <i>Inorganic Chemistry</i> , 2005, 44, 666-672.	4.0	68
81	Synthesis, Characterization, and Reactivity of Ti(IV)-Monosubstituted Keggin Polyoxometalates. <i>Inorganic Chemistry</i> , 2005, 44, 1635-1642.	4.0	79
82	A new mesoporous titanium-silicate Ti-MMM-2: a highly active and hydrothermally stable catalyst for H <sub>2</sub> O <sub>2</sub> -based selective oxidations. <i>Catalysis Today</i> , 2004, 91-92, 205-209.	4.4	69
83	First Isolated Active Titanium Peroxo Complex: Characterization and Theoretical Study. <i>Inorganic Chemistry</i> , 2004, 43, 2284-2292.	4.0	77
84	Novel optically active pyrazole ligands derived from (+)-3-carene. <i>Tetrahedron: Asymmetry</i> , 2001, 12, 2875-2881.	1.8	7
85	Kinetics and mechanism of thioether oxidation with H <sub>2</sub> O <sub>2</sub> in the presence of Ti(IV)-substituted heteropolytungstates. <i>Journal of Molecular Catalysis A</i> , 2000, 158, 223-229.	4.8	34
86	Alkene and thioether oxidations with H <sub>2</sub> O <sub>2</sub> over Ti-containing mesoporous mesophase catalysts. <i>Journal of Molecular Catalysis A</i> , 2000, 158, 417-421.	4.8	37
87	A Dimeric Titanium-Containing Polyoxometalate. Synthesis, Characterization, and Catalysis of H <sub>2</sub> O <sub>2</sub> -Based Thioether Oxidation. <i>Inorganic Chemistry</i> , 2000, 39, 3828-3837.	4.0	149
88	Environmentally Benign Oxidants. , 0, , 1-20.		15
89	Industrial Applications. , 0, , 451-506.		16