Vladimir I Sobolev

List of Publications by Year
in descending order

64	1,700	394421 19	289244 40
papers	citations	h-index	g-index

67	67	67	1711
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multicomponent MoVSbNbGdOx/SiO2 catalyst in oxidative dehydrogenation of ethane: Effect of Gd on catalytic properties. Applied Catalysis A: General, 2022, 633, 118536.	4.3	7
2	Cucurbit[6]uril as a co-catalyst forÂhydrogen production from formic acid. Materials Today Energy, 2022, 26, 100998.	4.7	4
3	Properties of a Multicomponent MoVSbNbCeOx/SiO2 Catalyst in the Oxidative Dehydrogenation of Ethane to Ethylene. Kinetics and Catalysis, 2021, 62, 315-327.	1.0	3
4	Liquid versus gas phase dehydrogenation of formic acid over Co@N-doped carbon materials. The role of single atomic sites. Molecular Catalysis, 2021, 504, 111457.	2.0	10
5	Ethanol Dehydrogenation to Acetaldehyde over Co@N-Doped Carbon. Catalysts, 2021, 11, 1411.	3.5	5
6	Oxidative Dehydrogenation of Ethane on VMoTeNbĐž/SiO2 Catalysts and the Effect of the Initial Support Compound on Their Physicochemical and Catalytic Properties. Catalysis in Industry, 2020, 12, 226-234.	0.7	0
7	New Multicomponent MoVSbNbCeO_x/SiO₂ Catalyst with Enhanced Catalytic Activity for Oxidative Dehydrogenation of Ethane to Ethylene. ChemCatChem, 2020, 12, 4149-4159.	3.7	14
8	Co/multi-walled carbon nanotubes as highly efficient catalytic nanoreactor for hydrogen production from formic acid. International Journal of Hydrogen Energy, 2020, 45, 19420-19430.	7.1	21
9	Low-Temperature Propylene Epoxidation Activity of CuOâ€“CeO₂ Catalyst with CO + O₂: Role of Metalâ€“Support Interaction on the Reducibility and Catalytic Property of CuO_x Species. Journal of Physical Chemistry C, 2020, 124, 14131-14146.	3.1	20
10	Catalysts Cu/ZSM-5 for N2O decomposition obtained with copper complexes of various structures. Catalysis Communications, 2020, 144, 106072.	3.3	6
11	Facile mechanochemical synthesis of Co@NC catalysts for oxidative esterification of benzyl alcohol with methanol. Catalysis Communications, 2020, 137, 105952.	3.3	15
12	Oxidative Transformations of Ethane and Ethylene on VMoTeNbO Catalysts. Russian Journal of Applied Chemistry, 2019, 92, 122-127.	0.5	0
13	Hydrogen Production from Formic Acid over Au Catalysts Supported on Carbon: Comparison with Au Catalysts Supported on SiO2 and Al2O3. Catalysts, 2019, 9, 376.	3.5	24
14	Single Au Atoms on the Surface of N-Free and N-Doped Carbon: Interaction with Formic Acid and Methanol Molecules. Topics in Catalysis, 2019, 62, 508-517.	2.8	19
15	The Role of Support in Formic Acid Decomposition on Gold Catalysts. Energies, 2019, 12, 4198.	3.1	7
16	Nitrogen Doped Carbon Nanotubes and Nanofibers for Green Hydrogen Production: Similarities in the Nature of Nitrogen Species, Metalâ€“Nitrogen Interaction, and Catalytic Properties. Energies, 2019, 12, 3976.	3.1	19
17	Quasi-Catalytic Identification of Intermediates in the Oxidation of Propene to Acrolein over a Multicomponent Biâ€“Mo Catalyst. ACS Catalysis, 2018, 8, 1173-1177.	11.2	15
18	Ag-Based Catalysts in Heterogeneous Selective Oxidation of Alcohols: A Review. Catalysts, 2018, 8, 447.	3.5	58

#	ARTICLE	IF	CITATIONS
19	Processing of Oil Refinery Gases: Oxidative Dehydrogenation of the Ethaneâ€“Ethylene Fraction. Russian Journal of Applied Chemistry, 2018, 91, 977-980.	0.5	2
20	Highly Stable Singleâ€Atom Catalyst with Ionic Pd Active Sites Supported on Nâ€Ðoped Carbon Nanotubes for Formic Acid Decomposition. ChemSusChem, 2018, 11, 3724-3727.	6.8	99
21	Promoting effect of 4-dimethylaminopyridine on selective oxidation of benzyl alcohol over MoVTeNb mixed oxides. Catalysis Communications, 2018, 117, 49-52.	3.3	6
22	Prospects for Conversion of Refinery Gas to High-Octane Oxygen-Containing Components of Motor Fuels. Catalysis in Industry, 2018, 10, 115-117.	0.7	2
23	Oxidation, oxidative esterification and ammoxidation of acrolein over metal oxides: Do these reactions include nucleophilic acyl substitution?. Catalysis Today, 2017, 279, 90-94.	4.4	14
24	Copper on carbon materials: stabilization by nitrogen doping. Journal of Materials Chemistry A, 2017, 5, 10574-10583.	10.3	103
25	Oxidative Dehydrogenation of 1-Butene to 1,3-Butadiene over a Multicomponent Bismuth Molybdate Catalyst: Influence of C3â€“C4 Hydrocarbons. Catalysis Letters, 2017, 147, 310-317.	2.6	5
26	Oxidative dehydrogenation of ethane on VMoTeNbÐž/Alâ€“Siâ€“O catalysts: Effect of the support on the physicochemical and catalytic properties. Russian Journal of Applied Chemistry, 2017, 90, 1136-1142.	0.5	2
27	Gas-phase oxidation of propylene into acetone on a V2O5/TiO2 catalyst: Effect of pressure and role of water. Russian Journal of Applied Chemistry, 2017, 90, 1439-1442.	0.5	1
28	Main Routes of Ethanol Conversion Under Aerobic/Anaerobic Conditions Over Ag-Containing Zirconium Phosphate Catalyst. Current Organic Synthesis, 2017, 14, 389-393.	1.3	1
29	Silica-supported silver-containing OMS-2 catalysts for ethanol oxidative dehydrogenation. Catalysis Today, 2016, 278, 164-173.	4.4	27
30	Effect of pressure on the oxidative conversion of ethane on VMoTeNbO catalyst. Russian Journal of Applied Chemistry, 2016, 89, 1786-1790.	0.5	4
31	Effect of SiO2 on the physicochemical and catalytic properties of VMoTeNbÐž catalyst in oxidative conversion of ethane. Russian Journal of Applied Chemistry, 2016, 89, 1279-1285.	0.5	4
32	Oxidative conversion of ethane over VMoTeNb oxide catalyst. Catalysis in Industry, 2016, 8, 112-115.	0.7	2
33	Heterogeneous catalytic oxidative conversion of ethane to ethylene. Catalysis in Industry, 2015, 7, 104-110.	0.7	20
34	Gas-phase oxidation of alcohols with dioxygen over an Au/TiO2 catalyst: The role of reactive oxygen species. Kinetics and Catalysis, 2015, 56, 343-346.	1.0	2
35	Structural features of promoted MoVTeNbO catalysts for the oxidative dehydrogenation of ethane. Kinetics and Catalysis, 2015, 56, 788-795.	1.0	3
36	Gas-phase Oxidation of Alcohols with O2 and N2O Catalyzed by Au/TiO2: A Comparative Study. Catalysis Letters, 2015, 145, 583-588.	2.6	4

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37	Catalytic epoxidation of propylene with CO/O2 over Au/TiO2. Applied Catalysis A: General, 2014, 476, 197-203.	4.3	18
38	Effect of transition metal oxide additives on the activity of an Ag/SiO2 catalyst in carbon monoxide oxidation. Kinetics and Catalysis, 2013, 54, 487-491.	1.0	28
39	Silica-supported silver catalysts modified by cerium/manganese oxides for total oxidation of formaldehyde. Applied Catalysis A: General, 2013, 467, 519-529.	4.3	38
40	Gas phase epoxidation of propylene with CO/O2 mixture on Au/TiO2. Catalysis Communications, 2013, 40, 103-105.	3.3	9
41	Role of vanadium species in the selective oxidation of ethanol on V2O5/TiO2 catalysts. Kinetics and Catalysis, 2013, 54, 730-734.	1.0	15
42	Oxidative and non-oxidative degradation of C1â€“C3 carboxylic acids over V2O5/TiO2 and MoVTeNb oxides: A comparative study. Applied Catalysis A: General, 2013, 466, 45-50.	4.3	7
43	FTIR study of Î²-picoline and pyridine-3-carbaldehyde transformation on Vâ€“Tiâ€“O catalysts. The effect of sulfate content on Î²-picoline oxidation into nicotinic acid. Journal of Molecular Catalysis A, 2013, 380, 118-130.	4.8	8
44	Direct Conversion of Methanol Into Dimethoxymethane and Methyl Formate by Controlled Oxidation. Mechanistic Aspects. Advanced Chemistry Letters, 2013, 1, 280-285.	0.1	5
45	Selective gas-phase oxidation of ethanol by molecular oxygen over oxide and gold-containing catalysts. Catalysis in Industry, 2012, 4, 247-252.	0.7	7
46	Selective oxidation of alcohols over Si3N4-supported silver catalysts. Kinetics and Catalysis, 2012, 53, 477-481.	1.0	19
47	Low temperature gas-phase oxidation of ethanol over Au/TiO2. Applied Catalysis A: General, 2012, 433-434, 88-95.	4.3	52
48	Room temperature reduction of N2O by CO over Au/TiO2. Catalysis Communications, 2012, 18, 147-150.	3.3	12
49	Gold catalysts supported on nanostructured Ceâ€“Alâ€“O mixed oxides prepared by organic solâ€“gel. Applied Catalysis B: Environmental, 2012, 115-116, 117-128.	20.2	32
50	Location, stability, and reactivity of oxygen species generated by N2O decomposition over Fe-ZSM-5 and Fe-Beta zeolites. Journal of Molecular Catalysis A, 2011, 347, 22-27.	4.8	11
51	MoVNbTe Mixed Oxides as Efficient Catalyst for Selective Oxidation of Ethanol to Acetic Acid. ChemCatChem, 2011, 3, 1143-1145.	3.7	26
52	Generation of Reactive Oxygen Species on Au/TiO₂ after Treatment with Hydrogen: Testing the Link to Ethanol Lowâ€Temperature Oxidation. ChemCatChem, 2011, 3, 1422-1425.	3.7	22
53	â€œDoubleâ€Peakâ€•Catalytic Activity of Nanosized Gold Supported on Titania in Gasâ€Phase Selective Oxidation of Ethanol. ChemCatChem, 2010, 2, 1535-1538.	3.7	53
54	Efficient cleavage of cumene hydroperoxide over HUSY zeolites: The role of BrÃ¸nsted acidity. Applied Catalysis A: General, 2008, 336, 29-34.	4.3	19

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55	Room-temperature oxidation of hydrocarbons over FeZSM-5 zeolite. Studies in Surface Science and Catalysis, 2000, , 875-880.	1.5	33
56	Generation of active oxygen species on solid surfaces. Opportunity for novel oxidation technologies over zeolites. Catalysis Today, 1998, 41, 365-385.	4.4	466
57	Iron complexes in zeolites as a new model of methane monooxygenase. Reaction Kinetics and Catalysis Letters, 1997, 61, 251-258.	0.6	149
58	Biomimetic oxidation on Fe complexes in zeolites. Studies in Surface Science and Catalysis, 1996, , 493-502.	1.5	38
59	On the origin of the non-faradaic electrochemical modification of catalytic activity (NEMCA) phenomena. Oxygen isotope exchange on Pt electrode in cell with solid oxide electrolyte. Catalysis Letters, 1993, 18, 153-164.	2.6	19
60	Hydroxylation of aromatic compounds with nitrous oxide. New possibilities of oxidative catalysis on zeolites. Russian Chemical Reviews, 1992, 61, 1130-1139.	6.5	16
61	Oxygen isotope exchange over a Pt electrode in a cell with solid oxide electrolyte. Reaction Kinetics and Catalysis Letters, 1992, 47, 327-331.	0.6	4
62	Anomalously Low Bond Energy of Surface Oxygen on FeZSM-5 Zeolite. Mendeleev Communications, 1991, 1, 29-30.	1.6	25
63	Rate of14N2 desorption from the surfaces of nitrides in the presence and absence of15N2 in the gas phase. Reaction Kinetics and Catalysis Letters, 1985, 29, 433-441.	0.6	12
64	Study of hydrogen isotope exchange on calcium, strontium and barium hydrides. Reaction Kinetics and Catalysis Letters, 1985, 29, 443-450.	0.6	9