Elena Victorovna Ovchinnikova

List of Publications by Year
in descending order

28 papers	390 citations	759233 12 h-index	794594 19 g-index
29 all docs	29 docs citations	29 times ranked	328 citing authors

#	Article	IF	Citations
1	Miscanthus bioprocessing using HNO3-pretreatment to improve productivity and quality of bioethanol and downstream ethylene. Industrial Crops and Products, 2022, 177, 114448.	5.2	9
2	Multichannel microreactors for highly exothermic catalytic process: The influence of thermal conductivity of reactor material and of transport phenomena inside the channels on the process efficiency. Chemical Engineering Journal, 2021, 409, 128046.	12.7	12
3	Nicotinic acid synthesis at elevated Î²-picoline load: Exploring the possibility to intensify the process. Chemical Engineering Research and Design, 2021, 171, 63-72.	5.6	1
4	Bioprocessing of Oat Hulls to Ethylene: Impact of Dilute HNO₃- or NaOH-Pretreatment on Process Efficiency and Sustainability. ACS Sustainable Chemistry and Engineering, 2021, 9, 16588-16596.	6.7	3
5	A technology for pilot production of bacterial cellulose from oat hulls. Chemical Engineering Journal, 2020, 383, 123128.	12.7	57
6	The role of water in selective heterogeneous catalytic oxidation of hydrocarbons. Molecular Catalysis, 2020, 484, 110734.	2.0	9
7	Effect of the Isopropanol Impurity in the Feed on Catalytic Dehydration of Bioethanol to Ethylene. Russian Journal of Applied Chemistry, 2020, 93, 721-728.	0.5	4
8	Mathematical Modeling of the Dehydrating Ethanol to Ethylene Process in a Multitubular Reactor on a Ring-Shaped Alumina Catalyst. Catalysis in Industry, 2019, 11, 80-86.	0.7	2
9	Ethanol-to-ethylene dehydration on acid-modified ring-shaped alumina catalyst in a tubular reactor. Chemical Engineering Journal, 2019, 374, 605-618.	12.7	20
10	Optimal design of ring-shaped alumina catalyst: A way to intensify bioethanol-to-ethylene production in multi-tubular reactor. Chemical Engineering Research and Design, 2019, 145, 1-11.	5.6	11
11	Dehydration of Ethanol to Ethylene on Ring- and Trilobe-Shaped Catalysts. Russian Journal of Applied Chemistry, 2018, 91, 1486-1492.	0.5	4
12	Microchannel reactor for intensifying oxidation of methanol to formaldehyde over Fe-Mo catalyst. Chemical Engineering Journal, 2017, 308, 135-141.	12.7	27
13	Pilot technology of ethanol production from oat hulls for subsequent conversion to ethylene. Chemical Engineering Journal, 2017, 329, 178-186.	12.7	32
14	Catalytic dehydration of bioethanol to ethylene. Catalysis in Industry, 2016, 8, 152-167.	0.7	31
15	Oxidation of methanol to formaldehyde in microchannel reactors: prospects and limitations. Catalysis in Industry, 2016, 8, 199-204.	0.7	3
16	Activities of industrial alumina based catalysts in the dehydration of ethanol to ethylene. Catalysis in Industry, 2016, 8, 134-138.	0.7	7
17	Study of acid-modified aluminum oxides produced by centrifugal thermal activation in dehydration of ethanol. Russian Journal of Applied Chemistry, 2016, 89, 683-689.	0.5	14
18	Catalytic purification of gas emissions at widely varying concentrations of volatile organic compounds. Catalysis in Industry, 2014, 6, 329-337.	0.7	2

#	Article	IF	Citations
19	Isomerization of n-butane over Pdâ€“SO4/ZrO2 catalyst: Prospects for commercial application. Chemical Engineering Journal, 2014, 238, 148-156.	12.7	30
20	Influence of the process parameters on temperature conditions and productivity of multitubular reactor for methanol to formaldehyde oxidation. Catalysis in Industry, 2013, 5, 297-311.	0.7	13
21	Gas Phase Catalytic Oxidation of Î²-Picoline to Nicotinic Acid: Catalysts, Mechanism and Reaction Kinetics. Catalysis Reviews - Science and Engineering, 2012, 54, 399-436.	12.9	18
22	Mathematical modeling of Î²-picoline oxidation to nicotinic acid in multitubular reactor: Effect of the gas recycle. Chemical Engineering Journal, 2011, 176-177, 114-123.	12.7	8
23	Mechanism of the oxygen involvement in nicotinic acid formation under Î²-picoline oxidation on V-Ti-O catalyst. Catalysis Today, 2010, 157, 39-43.	4.4	8
24	Kinetics of oxidation of Î²-picoline to nicotinic acid over vanadia-titania catalyst. 4. Kinetic model. Reaction Kinetics and Catalysis Letters, 2009, 96, 91-100.	0.6	3
25	Oxidation of Î²-picoline to nicotinic acid over V2O5-TiO2 catalyst: Kinetic studies and reaction mechanism. Chemical Engineering Journal, 2009, 154, 60-68.	12.7	20
26	Kinetics of the Î²-picoline oxidation to nicotinic acid over vanadia-titania catalyst. 2. Effect of dioxygen and Î²-picoline. Reaction Kinetics and Catalysis Letters, 2008, 93, 203-210.	0.6	6
27	Mechanism of<span style='font-size:10.0pt;font-family:Symbol;mso-bidi-font-family:Symbol'>b-picoline oxidation to nicotinic acid on V-Ti-O catalyst as studied by in situFTIR<span style='font-size:10.0pt'>. Reaction Kinetics and Catalysis Letters, 2006, 87, 387-394.	0.6	17
28	kinetics of the oxidation of b-picoline to nicotinic acid over vanadia-titania catalyst, 1. The network of the reaction and the effect of water. Reaction Kinetics and Catalysis Letters, 2004, 82, 191-197.	0.6	19