

# Elena Victorovna Ovchinnikova

## List of Publications by Year in descending order

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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  | A technology for pilot production of bacterial cellulose from oat hulls. Chemical Engineering Journal, 2020, 383, 123128.                                                                                                                                | 12.7 | 57        |
| 2  | Pilot technology of ethanol production from oat hulls for subsequent conversion to ethylene. Chemical Engineering Journal, 2017, 329, 178-186.                                                                                                           | 12.7 | 32        |
| 3  | Catalytic dehydration of bioethanol to ethylene. Catalysis in Industry, 2016, 8, 152-167.                                                                                                                                                                | 0.7  | 31        |
| 4  | Isomerization of n-butane over Pd $\epsilon$ SO <sub>4</sub> /ZrO <sub>2</sub> catalyst: Prospects for commercial application. Chemical Engineering Journal, 2014, 238, 148-156.                                                                         | 12.7 | 30        |
| 5  | Microchannel reactor for intensifying oxidation of methanol to formaldehyde over Fe-Mo catalyst. Chemical Engineering Journal, 2017, 308, 135-141.                                                                                                       | 12.7 | 27        |
| 6  | Oxidation of $\hat{I}^2$ -picoline to nicotinic acid over V <sub>2</sub> O <sub>5</sub> -TiO <sub>2</sub> catalyst: Kinetic studies and reaction mechanism. Chemical Engineering Journal, 2009, 154, 60-68.                                              | 12.7 | 20        |
| 7  | 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        |
| 8  | 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        |
| 9  | Gas Phase Catalytic Oxidation of $\hat{I}^2$ -Picoline to Nicotinic Acid: Catalysts, Mechanism and Reaction Kinetics. Catalysis Reviews - Science and Engineering, 2012, 54, 399-436.                                                                    | 12.9 | 18        |
| 10 | Mechanism of $\epsilon$ -picoline oxidation to nicotinic acid on V-Ti-O catalyst as studied by in situ FTIR. Reaction Kinetics and Catalysis Letters, 2006, 87, 387-394.                                                                                 | 0.6  | 17        |
| 11 | 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        |
| 12 | 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        |
| 13 | 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        |
| 14 | 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        |
| 15 | The role of water in selective heterogeneous catalytic oxidation of hydrocarbons. Molecular Catalysis, 2020, 484, 110734.                                                                                                                                | 2.0  | 9         |
| 16 | Miscanthus bioprocessing using HNO <sub>3</sub> -pretreatment to improve productivity and quality of bioethanol and downstream ethylene. Industrial Crops and Products, 2022, 177, 114448.                                                               | 5.2  | 9         |
| 17 | Mechanism of the oxygen involvement in nicotinic acid formation under $\hat{I}^2$ -picoline oxidation on V-Ti-O catalyst. Catalysis Today, 2010, 157, 39-43.                                                                                             | 4.4  | 8         |
| 18 | Mathematical modeling of $\hat{I}^2$ -picoline oxidation to nicotinic acid in multitubular reactor: Effect of the gas recycle. Chemical Engineering Journal, 2011, 176-177, 114-123.                                                                     | 12.7 | 8         |

| #  | ARTICLE                                                                                                                                                                                                               | IF  | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Activities of industrial alumina based catalysts in the dehydration of ethanol to ethylene. <i>Catalysis in Industry</i> , 2016, 8, 134-138.                                                                          | 0.7 | 7         |
| 20 | Kinetics of the $\hat{I}^2$ -picoline oxidation to nicotinic acid over vanadia-titania catalyst. 2. Effect of dioxygen and $\hat{I}^2$ -picoline. <i>Reaction Kinetics and Catalysis Letters</i> , 2008, 93, 203-210. | 0.6 | 6         |
| 21 | Dehydration of Ethanol to Ethylene on Ring- and Trilobe-Shaped Catalysts. <i>Russian Journal of Applied Chemistry</i> , 2018, 91, 1486-1492.                                                                          | 0.5 | 4         |
| 22 | Effect of the Isopropanol Impurity in the Feed on Catalytic Dehydration of Bioethanol to Ethylene. <i>Russian Journal of Applied Chemistry</i> , 2020, 93, 721-728.                                                   | 0.5 | 4         |
| 23 | Kinetics of oxidation of $\hat{I}^2$ -picoline to nicotinic acid over vanadia-titania catalyst. 4. Kinetic model. <i>Reaction Kinetics and Catalysis Letters</i> , 2009, 96, 91-100.                                  | 0.6 | 3         |
| 24 | Oxidation of methanol to formaldehyde in microchannel reactors: prospects and limitations. <i>Catalysis in Industry</i> , 2016, 8, 199-204.                                                                           | 0.7 | 3         |
| 25 | Bioprocessing of Oat Hulls to Ethylene: Impact of Dilute $\text{HNO}_3$ - or NaOH-Pretreatment on Process Efficiency and Sustainability. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 16588-16596.     | 6.7 | 3         |
| 26 | Catalytic purification of gas emissions at widely varying concentrations of volatile organic compounds. <i>Catalysis in Industry</i> , 2014, 6, 329-337.                                                              | 0.7 | 2         |
| 27 | Mathematical Modeling of the Dehydrating Ethanol to Ethylene Process in a Multitubular Reactor on a Ring-Shaped Alumina Catalyst. <i>Catalysis in Industry</i> , 2019, 11, 80-86.                                     | 0.7 | 2         |
| 28 | Nicotinic acid synthesis at elevated $\hat{I}^2$ -picoline load: Exploring the possibility to intensify the process. <i>Chemical Engineering Research and Design</i> , 2021, 171, 63-72.                              | 5.6 | 1         |