

Igor Sedov

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2226197/igor-sedov-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

297

citations

10

h-index

14

g-index

64

ext. papers

403

ext. citations

2

avg, IF

3.94

L-index

#	Paper	IF	Citations
62	A Comprehensive Review on the Prospects of Using Hydrogen-Methane Blends: Challenges and Opportunities. <i>Energies</i> , 2022 , 15, 2265	3.1	4
61	Gas-Phase Oxidation of Natural and Associated Gases. <i>Catalysis in Industry</i> , 2022 , 14, 1-10	0.8	0
60	The Fuel of Our Future: Hydrogen or Methane? 2022 , 1, 96-106		1
59	Catalytic Reactors for Dehydrogenation of Liquid Organic Hydrogen Carriers. <i>Russian Journal of Applied Chemistry</i> , 2021 , 94, 1011-1021	0.8	2
58	Production of Hydrogen from Propane-Butane Mixture in a Combined Process of Matrix and Steam Conversion. <i>Russian Journal of Applied Chemistry</i> , 2021 , 94, 927-933	0.8	0
57	The State and Development Prospects of the Global Hydrogen Energy Sector. <i>Russian Journal of General Chemistry</i> , 2021 , 91, 1912-1928	0.7	2
56	State of the Global Market of Bimodal Polyethylenes and the Basic Technologies for Their Production. <i>Russian Journal of General Chemistry</i> , 2021 , 91, 571-581	0.7	2
55	Comparison of Various Options for Designing the Direct Oxidation of Methane to Methanol. <i>Russian Journal of Applied Chemistry</i> , 2021 , 94, 509-517	0.8	3
54	Physical Methods for Studying Chemical Reactions: New Non-Catalytic Methods for Processing Hydrocarbon Gases. <i>Russian Journal of Physical Chemistry B</i> , 2021 , 15, 498-505	1.2	1
53	Activity of a New Chromium(III) Complex with a Pentadentate (N ₃ O ₂) Schiff-Base Ligand in the Reaction of Carbon Dioxide with Propylene Oxide. <i>Kinetics and Catalysis</i> , 2021 , 62, 428-435	1.5	0
52	Market Potential of Industrial Technologies for Production of Synthetic Bases of Motor Oils. <i>Russian Journal of General Chemistry</i> , 2021 , 91, 1243-1259	0.7	1
51	Oxidative Cracking of Propane in the Presence of Hydrogen. <i>Russian Journal of Applied Chemistry</i> , 2021 , 94, 787-792	0.8	
50	Non-Catalytic Steam Reforming of C ₁ -C ₄ Hydrocarbons. <i>Petroleum Chemistry</i> , 2021 , 61, 762-772	1.1	3
49	Utilization of renewable sources of biogas for small-scale production of liquid fuels. <i>Catalysis Today</i> , 2021 , 379, 23-27	5.3	8
48	Processing of natural and casing-head gases by the gas-phase oxidation. <i>Kataliz V Promyshlennosti</i> , 2021 , 21, 227-237	0.3	1
47	Hydrogenation/Dehydrogenation Catalysts for Hydrogen Storage Systems Based on Liquid Organic Carriers (A Review). <i>Petroleum Chemistry</i> , 2021 , 61, 977-988	1.1	4
46	Thermodynamic Evaluation of Noncatalytic Conversion of Natural Gas with the Production of Synthesis Gas. <i>Russian Journal of Physical Chemistry B</i> , 2021 , 15, 969-976	1.2	1

45	Cost-Effectiveness Assessment of the Scale of Hydrogen Production by Various Methods. <i>Russian Journal of General Chemistry</i> , 2021 , 91, 2743-2757	0.7	2
44	Application of Supercritical Fluid Technologies in Chemical and Petrochemical Industries (Review). <i>Petroleum Chemistry</i> , 2020 , 60, 244-254	1.1	6
43	Hydrogen Storage Using Liquid Organic Carriers. <i>Russian Journal of Applied Chemistry</i> , 2020 , 93, 1815-1830	0.8	9
42	Analysis of the State and Development Prospects of the Industrial Catalysts Market for Polyolefins Production. <i>Russian Journal of General Chemistry</i> , 2020 , 90, 1141-1162	0.7	3
41	Kinetics of Carbon Dioxide Terpolymerization with Propylene Oxide and Hexene Oxide. <i>Kinetics and Catalysis</i> , 2020 , 61, 569-574	1.5	
40	Effect of Hydrogen, Carbon Monoxide, Synthesis Gas, and Steam Additives on the Characteristics of Matrix Conversion of Rich Methane/Oxygen Mixtures. <i>Petroleum Chemistry</i> , 2020 , 60, 818-826	1.1	4
39	Kinetics of Ternary Copolymerization of Carbon Dioxide with Propylene Oxide, Butene Oxide, and Cyclohexene Oxide. <i>Polymer Science - Series B</i> , 2019 , 61, 395-403	0.8	1
38	The role of homogeneous steam reforming of acetylene in the partial oxidation of methane to syngas in matrix type converters. <i>Chemical Engineering Science</i> , 2019 , 207, 744-751	4.4	10
37	Prospects of Conversion of Hydrocarbon Gases to Liquid Products Based on Nitrogen-Rich Synthesis Gas (Review). <i>Petroleum Chemistry</i> , 2019 , 59, 370-379	1.1	12
36	Matrix conversion of natural gas to syngas: The main parameters of the process and possible applications. <i>Chemical Engineering Journal</i> , 2019 , 377, 120883	14.7	16
35	Effect of Hydrogen and Carbon Monoxide Additions on Partial Oxidation of Methane at Elevated Pressures. <i>Russian Journal of Applied Chemistry</i> , 2019 , 92, 1726-1733	0.8	
34	Oxidative Cracking of Oil Refinery Gases. <i>Russian Journal of Applied Chemistry</i> , 2019 , 92, 1745-1750	0.8	2
33	Membrane Absorption of Ethylene from a Mixture with Ethane Using MDK-3 Composite Membranes. <i>Russian Journal of Applied Chemistry</i> , 2019 , 92, 1826-1834	0.8	1
32	Structurally uniform 1-hexene, 1-octene, and 1-decene oligomers: Zirconocene/MAO-catalyzed preparation, characterization, and prospects of their use as low-viscosity low-temperature oil base stocks. <i>Applied Catalysis A: General</i> , 2018 , 549, 40-50	5.1	32
31	5,6-Dihydrodibenzo[c,e][1,2]azaphosphinine-Based PNP Ligands, Cr(0) Coordination, and Cr(III) Precatalysts for Ethylene Oligomerization. <i>Organometallics</i> , 2018 , 37, 2660-2664	3.8	10
30	EFFECT OF STEAM ADDITION ON THE PROCESS OF MATRIX CONVERSION OF METHANE TO SYNGAS. <i>Gorenie I Vzryv (Moskva) [Combustion and Explosion</i> , 2018 , 11, 18-23	0.5	2
29	Development of Functional Polymer Coatings Using Supercritical Fluids: Technologies, Markets, and Prospects. <i>Russian Journal of Physical Chemistry B</i> , 2018 , 12, 1132-1143	1.2	1
28	Effect of Hydrogen Addition on Oxidative Cracking of Ethane. <i>Russian Journal of Applied Chemistry</i> , 2018 , 91, 1767-1772	0.8	1

27	Analysis of the Fundamental Aspects of Oxidation of Rich Methane Mixtures in Matrix-Type Converters. <i>Russian Journal of Applied Chemistry</i> , 2018 , 91, 1500-1512	0.8	2
26	Development of Technologies for More Efficient Deep Processing of Natural Gas. <i>Russian Journal of Applied Chemistry</i> , 2018 , 91, 1922-1936	0.8	3
25	Production of Ethylene, CO, and Hydrogen by Oxidative Cracking of Oil Refinery Gas Components. <i>Russian Journal of Applied Chemistry</i> , 2018 , 91, 2065-2075	0.8	2
24	Catalytic Reactions of Homo- and Cross-Condensation of Ethanal and Propanal. <i>Petroleum Chemistry</i> , 2018 , 58, 1032-1035	1.1	1
23	Kinetic features and industrial prospects of the selective oxidative cracking of light alkanes. <i>Russian Chemical Reviews</i> , 2017 , 86, 47-74	6.8	12
22	Perspective tendencies in development of small scale processing of gas resources. <i>Pure and Applied Chemistry</i> , 2017 , 89, 1033-1047	2.1	2
21	Experimental improvement of the filterless hydroprocess technology using slurry reactor system with inertial separation. <i>Separation and Purification Technology</i> , 2017 , 186, 342-351	8.3	3
20	Adjustment of the fuel characteristics of wet and associated petroleum gases by partial oxidation of C2+ hydrocarbons. <i>Petroleum Chemistry</i> , 2017 , 57, 236-243	1.1	9
19	New Potentialities for Utilization of Associated Petroleum Gases in Power Generation and Chemicals Production. <i>Eurasian Chemico-Technological Journal</i> , 2017 , 19, 265	0.8	6
18	Synthesis of tris(cyclopentadienyl)zirconium tetrakis(pentafluorophenyl)borate. <i>Russian Chemical Bulletin</i> , 2016 , 65, 2708-2711	1.7	
17	Slurry reactor system with inertial separation for Fischer-Tropsch synthesis and other three-phase hydrogenation processes. <i>Canadian Journal of Chemical Engineering</i> , 2016 , 94, 518-523	2.3	12
16	Mechanism of the interaction of components in the metallocene catalytic systems containing titanium and zirconium tetracyclopentadienyls and methylaluminoxane. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2016 , 119, 59-73	1.6	
15	Oxidative conversion of wet and associated gases to fuels for power plants. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 31, 9-14	4.6	4
14	Current state and prospects of development of technologies for the production of superhydrophobic materials and coatings. <i>Nanotechnologies in Russia</i> , 2016 , 11, 679-695	0.6	6
13	New horizons of small-tonnage gas chemistry. <i>Herald of the Russian Academy of Sciences</i> , 2016 , 86, 329-336		5
12	Experimental studies of natural gas to synthesis gas converters based on permeable cavity matrices. <i>Russian Journal of Applied Chemistry</i> , 2016 , 89, 1816-1824	0.8	12
11	New concept for small-scale GTL. <i>Chemical Engineering Journal</i> , 2015 , 282, 206-212	14.7	33
10	Platinum Group Metal-Catalysed Carbonylation as the Basis of Alternative Gas-To-Liquids Processes. <i>Johnson Matthey Technology Review</i> , 2015 , 59, 14-25	2.5	9

9	Dual-site hybrid catalysts for production of linear low-density polyethylene. <i>Journal of Polymer Research</i> , 2014 , 21, 1	2.7	2
8	Single-site catalysts in the industrial production of polyethylene. <i>Catalysis in Industry</i> , 2012 , 4, 129-140	0.8	10
7	Mixed and hybrid multisite catalysts for ethylene polymerization. <i>Russian Chemical Reviews</i> , 2012 , 81, 239-257	6.8	8
6	Reactions of methylaluminoxane and trimethylaluminum with zirconium and titanium tetracyclopentadienyl derivatives. <i>Russian Chemical Bulletin</i> , 2011 , 60, 1880-1884	1.7	1
5	Technologies for producing liquid motor fuels from wastes of renewable vegetable resources. <i>Polymer Science - Series D</i> , 2011 , 4, 252-258	0.4	
4	Photophysical, electronic, and catalytic properties of tetracyclopentadienylzirconium. <i>Doklady Physical Chemistry</i> , 2010 , 434, 177-179	0.8	1
3	Ethylene polymerization initiated by metallocene catalysts (C ₅ H ₅) ₄ Mt-MAO (Mt = Ti, Zr) in the presence of organometallic modifiers. <i>Polymer Science - Series B</i> , 2010 , 52, 63-66	0.8	3
2	Ethylene polymerization and copolymerization with hexene-1 on supported metallocene catalysts based on (C ₅ H ₅) ₄ Zr and methylaluminoxane. <i>Polymer Science - Series A</i> , 2007 , 49, 496-502	1.2	1
1	Polymerization of ethylene with the (C ₅ H ₅) ₄ Zr-methylaluminoxane soluble catalytic system. <i>Polymer Science - Series B</i> , 2007 , 49, 85-90	0.8	4