

Evgeny Rebrov

List of Publications by Year in descending order

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163
papers

4,914
citations

94269

37
h-index

128067

60
g-index

174
all docs

174
docs citations

174
times ranked

4140
citing authors

#	ARTICLE	IF	CITATIONS
1	Dissolved gas and ultrasonic cavitation – A review. <i>Ultrasonics Sonochemistry</i> , 2013, 20, 1-11.	3.8	245
2	Liquid–liquid slug flow: Hydrodynamics and pressure drop. <i>Chemical Engineering Science</i> , 2011, 66, 42-54.	1.9	165
3	Liquid–Liquid Flow in a Capillary Microreactor: Hydrodynamic Flow Patterns and Extraction Performance. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 1015-1026.	1.8	136
4	Single-phase fluid flow distribution and heat transfer in microstructured reactors. <i>Chemical Engineering Science</i> , 2011, 66, 1374-1393.	1.9	125
5	Pressure drop of gas–liquid Taylor flow in round micro-capillaries for low to intermediate Reynolds numbers. <i>Microfluidics and Nanofluidics</i> , 2010, 8, 33.	1.0	122
6	The preparation of highly ordered single layer ZSM-5 coating on prefabricated stainless steel microchannels. <i>Applied Catalysis A: General</i> , 2001, 206, 125-143.	2.2	119
7	Design of a microstructured reactor with integrated heat-exchanger for optimum performance of a highly exothermic reaction. <i>Catalysis Today</i> , 2001, 69, 183-192.	2.2	108
8	Two-phase flow regimes in microchannels. <i>Theoretical Foundations of Chemical Engineering</i> , 2010, 44, 355-367.	0.2	100
9	Numbered-up gas–liquid micro/milli channels reactor with modular flow distributor. <i>Chemical Engineering Journal</i> , 2012, 207-208, 645-655.	6.6	100
10	Hydrodynamics and Mixer-Induced Bubble Formation in Micro Bubble Columns with Single and Multiple-Channels. <i>Chemical Engineering and Technology</i> , 2006, 29, 1015-1026.	0.9	95
11	Capillary microreactors wall-coated with mesoporous titania thin film catalyst supports. <i>Lab on A Chip</i> , 2009, 9, 503-506.	3.1	93
12	Selective Hydrogenation of 2-Methyl-3-butyne-2-ol in a Wall-Coated Capillary Microreactor with a Pd ₂₅ Zn ₇₅ /TiO ₂ Catalyst. <i>Organic Process Research and Development</i> , 2009, 13, 991-998.	1.3	88
13	Development of the kinetic model of platinum catalyzed ammonia oxidation in a microreactor. <i>Chemical Engineering Journal</i> , 2002, 90, 61-76.	6.6	81
14	ZnO based nanowires grown by chemical vapour deposition for selective hydrogenation of acetylene alcohols. <i>Catalysis Science and Technology</i> , 2011, 1, 768.	2.1	81
15	Structural and magnetic properties of Ni _{1-x} Zn _x Fe ₂ O ₄ (x=0, 0.5 and 1) nanopowders prepared by sol–gel method. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 348, 44-50.	1.0	74
16	Optimization of heat transfer characteristics, flow distribution, and reaction processing for a microstructured reactor/heat-exchanger for optimal performance in platinum catalyzed ammonia oxidation. <i>Chemical Engineering Journal</i> , 2003, 93, 201-216.	6.6	71
17	Preferential CO oxidation over a copper–cerium oxide catalyst in a microchannel reactor. <i>Applied Catalysis A: General</i> , 2008, 350, 53-62.	2.2	69
18	Phase-Transfer Catalysis in Segmented Flow in a Microchannel: Fluidic Control of Selectivity and Productivity. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 2681-2687.	1.8	63

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19	Gas-liquid-liquid three-phase flow pattern and pressure drop in a microfluidic chip: similarities with gas-liquid/liquid-liquid flows. <i>Lab on A Chip</i> , 2014, 14, 1632.	3.1	61
20	Design criteria for a barrier-based gas-liquid flow distributor for parallel microchannels. <i>Chemical Engineering Journal</i> , 2012, 181-182, 549-556.	6.6	60
21	Effect of resonance frequency, power input, and saturation gas type on the oxidation efficiency of an ultrasound horn. <i>Ultrasonics Sonochemistry</i> , 2011, 18, 209-215.	3.8	59
22	One-step synthesis of ZIF-8/ZnO composites based on coordination defect strategy and its derivatives for photocatalysis. <i>Journal of Alloys and Compounds</i> , 2020, 838, 155219.	2.8	57
23	OpenFlowChem – a platform for quick, robust and flexible automation and self-optimisation of flow chemistry. <i>Reaction Chemistry and Engineering</i> , 2018, 3, 769-780.	1.9	56
24	Microfluidic plasmas: Novel technique for chemistry and chemical engineering. <i>Chemical Engineering Journal</i> , 2021, 417, 129355.	6.6	56
25	Gas hold-up and liquid film thickness in Taylor flow in rectangular microchannels. <i>Chemical Engineering Journal</i> , 2008, 135, S153-S158.	6.6	51
26	Header design for flow equalization in microstructured reactors. <i>AIChE Journal</i> , 2007, 53, 28-38.	1.8	50
27	Structural investigations and magnetic properties of sol-gel Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ thin films for microwave heating. <i>Journal of Applied Physics</i> , 2010, 107, 044317.	1.1	50
28	Cost Analysis for a Continuously Operated Fine Chemicals Production Plant at 10 Kg/Day Using a Combination of Microprocessing and Microwave Heating. <i>Journal of Flow Chemistry</i> , 2011, 1, 74-89.	1.2	48
29	Microreactors for Gold Nanoparticles Synthesis: From Faraday to Flow. <i>Processes</i> , 2014, 2, 466-493.	1.3	46
30	Fabrication of Magnetic Superstructure NiFe ₂ O ₄ @MOF-74 and Its Derivative for Electrocatalytic Hydrogen Evolution with AC Magnetic Field. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 45987-45996.	4.0	45
31	Design methodology for barrier-based two phase flow distributor. <i>AIChE Journal</i> , 2012, 58, 3482-3493.	1.8	43
32	Structural, infrared, magnetic and microwave absorption properties of rare earth doped X-type hexagonal nanoferrites. <i>Journal of Alloys and Compounds</i> , 2013, 570, 7-13.	2.8	43
33	Synthesis of protective Mo-Si-B coatings in molten salts and their oxidation behavior in an air-water mixture. <i>Surface and Coatings Technology</i> , 2006, 201, 971-978.	2.2	42
34	Novel synthesis of thick wall coatings of titania supported Bi poisoned Pd catalysts and application in selective hydrogenation of acetylene alcohols in capillary microreactors. <i>Lab on A Chip</i> , 2015, 15, 1952-1960.	3.1	42
35	Non-Thermal Plasma for Process and Energy Intensification in Dry Reforming of Methane. <i>Catalysts</i> , 2020, 10, 1358.	1.6	42
36	Method for the in situ preparation of a single layer of zeolite Beta crystals on a molybdenum substrate for microreactor applications. <i>Journal of Catalysis</i> , 2007, 247, 328-338.	3.1	40

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37	A kinetic study of the liquid-phase hydrogenation of citral on Au/TiO ₂ and Pt-Sn/TiO ₂ thin films in capillary microreactors. <i>Applied Catalysis A: General</i> , 2011, 399, 12-21.	2.2	40
38	Nanosized Ce-Zn substituted microwave absorber material for X-band applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 370, 25-31.	1.0	40
39	Control of the thickness of mesoporous titania films for application in multiphase catalytic microreactors. <i>Journal of Catalysis</i> , 2010, 271, 161-169.	3.1	39
40	Oxidation of organic compounds in a microstructured catalytic reactor. <i>Chemical Engineering Journal</i> , 2008, 135, S57-S65.	6.6	38
41	The enhancement of direct amide synthesis reaction rate over TiO ₂ @SiO ₂ @NiFe ₂ O ₄ magnetic catalysts in the continuous flow under radiofrequency heating. <i>Journal of Catalysis</i> , 2017, 355, 120-130.	3.1	38
42	Copper(0) in the Ullmann heterocycle-aryl ether synthesis of 4-phenoxy pyridine using multimode microwave heating. <i>Tetrahedron Letters</i> , 2010, 51, 248-251.	0.7	37
43	Design, scale-out, and operation of a microchannel reactor with a Cu/CeO ₂ -x catalytic coating for preferential CO oxidation. <i>Chemical Engineering Journal</i> , 2010, 160, 923-929.	6.6	37
44	Gold supported on mesoporous titania thin films for application in microstructured reactors in low-temperature water-gas shift reaction. <i>Catalysis Today</i> , 2008, 138, 210-215.	2.2	36
45	Structural and magnetic properties of sol-gel Co ₂ xNi _{0.5} ~x Zn _{0.5} ~xFe ₂ O ₄ thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 723-729.	1.0	36
46	Direct amide formation using radiofrequency heating. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 4171-4177.	1.5	36
47	A highly active and synergistic Pt/Mo ₂ C/Al ₂ O ₃ catalyst for water-gas shift reaction. <i>Molecular Catalysis</i> , 2018, 455, 38-47.	1.0	36
48	Synthesis of molybdenum borides and molybdenum silicides in molten salts and their oxidation behavior in an air-water mixture. <i>Surface and Coatings Technology</i> , 2005, 195, 182-188.	2.2	35
49	Scale up study of capillary microreactors in solvent-free semihydrogenation of 2-methyl-3-butyn-2-ol. <i>Catalysis Today</i> , 2016, 273, 205-212.	2.2	33
50	Solvent-free semihydrogenation of acetylene alcohols in a capillary reactor coated with a Pd-Bi/TiO ₂ catalyst. <i>Applied Catalysis A: General</i> , 2016, 515, 108-115.	2.2	33
51	Mesoporous silica films as catalyst support for microstructured reactors: Preparation and characterization. <i>Chemical Engineering Journal</i> , 2008, 135, S99-S103.	6.6	32
52	Designing flow and temperature uniformities in parallel microchannels reactor. <i>AIChE Journal</i> , 2014, 60, 1941-1952.	1.8	32
53	A Kinetic Study of Ammonia Oxidation on a Pt Catalyst in the Explosive Region in a Microstructured Reactor/Heat-Exchanger. <i>Chemical Engineering Research and Design</i> , 2003, 81, 744-752.	2.7	31
54	Design of a molybdenum high throughput microreactor for high temperature screening of catalytic coatings. <i>Chemical Engineering Journal</i> , 2004, 101, 225-235.	6.6	31

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55	Mechanism of Ultrasound Scission of a Silver-Carbene Coordination Polymer. <i>Journal of Physical Chemistry B</i> , 2011, 115, 11038-11043.	1.2	31
56	Study of the water-gas shift reaction on Mo ₂ C/Mo catalytic coatings for application in microstructured fuel processors. <i>Catalysis Today</i> , 2007, 125, 88-96.	2.2	29
57	Design of Pt-Sn catalysts on mesoporous titania films for microreactor application. <i>Catalysis Today</i> , 2009, 147, S81-S86.	2.2	29
58	Microwave-assisted Cu-catalyzed Ullmann ether synthesis in a continuous-flow milli-plant. <i>Chemical Engineering Journal</i> , 2012, 207-208, 426-439.	6.6	28
59	Influence of Nd-Co Substitution on Structural, Electrical, and Dielectric Properties of X-Type Hexagonal Nanoferrites. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 622-627.	1.2	28
60	Mechanochemical synthesis of TiO ₂ /NiFe ₂ O ₄ magnetic catalysts for operation under RF field. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 193, 175-180.	1.7	28
61	Hydrodynamic cavitation in micro channels with channel sizes of 100 and 750 micrometers. <i>Microfluidics and Nanofluidics</i> , 2012, 12, 499-508.	1.0	27
62	Hydrothermal synthesis and characterization of ZSM-5 coatings on a molybdenum support and scale-up for application in micro reactors. <i>Catalysis Today</i> , 2005, 110, 38-46.	2.2	26
63	Optimization of anodic oxidation and Cu-Cr oxide catalyst preparation on structured aluminum plates processed by electro discharge machining. <i>Catalysis Today</i> , 2005, 105, 516-528.	2.2	26
64	Enhancement of the Liquid-Side Mass Transfer in a Falling Film Catalytic Microreactor by In-Channel Mixing Structures. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 8719-8725.	1.8	26
65	Design and operation of a radio-frequency heated micro-trickle bed reactor for consecutive catalytic reactions. <i>Chemical Engineering Journal</i> , 2015, 281, 884-891.	6.6	26
66	A microstructured reactor/heat-exchanger for the water-gas shift reaction operated in the 533-673K range. <i>Catalysis Today</i> , 2009, 147, S198-S203.	2.2	25
67	Mechanistic Insights into the Desorption of Methanol and Dimethyl Ether Over ZSM-5 Catalysts. <i>Catalysis Letters</i> , 2018, 148, 474-488.	1.4	25
68	Active site isolation in bismuth-poisoned Pd/SiO ₂ catalysts for selective hydrogenation of furfural. <i>Applied Catalysis A: General</i> , 2019, 570, 183-191.	2.2	25
69	Synthesis and characterization of mesoporous silica thin films as a catalyst support on a titanium substrate. <i>Thin Solid Films</i> , 2007, 515, 6391-6394.	0.8	24
70	Microwave-assisted hydrothermal synthesis of zeolite Beta coatings on ALD-modified borosilicate glass for application in microstructured reactors. <i>Chemical Engineering Journal</i> , 2008, 135, S117-S120.	6.6	24
71	Cu-Based Nanoalloys in the Base-Free Ullmann Heterocycle-Aryl Ether Synthesis. <i>Organic Process Research and Development</i> , 2010, 14, 644-649.	1.3	24
72	Effect of the Load Size on the Efficiency of Microwave Heating Under Stop Flow and Continuous Flow Conditions. <i>Journal of Microwave Power and Electromagnetic Energy</i> , 2012, 46, 83-92.	0.4	24

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73	Structural, magnetic and thermal properties of one-dimensional CoFe ₂ O ₄ microtubes. Journal of Alloys and Compounds, 2016, 665, 428-434.	2.8	24
74	Gas-liquid hydrogenation in continuous flow – The effect of mass transfer and residence time in powder packed-bed and catalyst-coated reactors. Chemical Engineering Journal, 2020, 379, 122292.	6.6	24
75	Direct amide synthesis over core-shell TiO ₂ @NiFe ₂ O ₄ catalysts in a continuous flow radiofrequency-heated reactor. RSC Advances, 2016, 6, 100997-101007.	1.7	23
76	Highly Selective Continuous Flow Hydrogenation of Cinnamaldehyde to Cinnamyl Alcohol in a Pt/SiO ₂ Coated Tube Reactor. Catalysts, 2018, 8, 58.	1.6	23
77	Miniaturization of Heterogeneous Catalytic Reactors: Prospects for New Developments in Catalysis and Process Engineering. Chimia, 2002, 56, 627-635.	0.3	22
78	Experimental Validation of the Performance of a Microreactor for the High-Throughput Screening of Catalytic Coatings. Industrial & Engineering Chemistry Research, 2007, 46, 3922-3931.	1.8	22
79	Selectivity control in hydrogenation reactions by nanoconfinement of polymetallic nanoparticles in mesoporous thin films. Applied Catalysis A: General, 2009, 368, 87-96.	2.2	22
80	Design of a radio frequency heated isothermal micro-trickle bed reactor. Chemical Engineering Journal, 2014, 243, 225-233.	6.6	22
81	Energy efficient and controlled flow processing under microwave heating by using a millireactor heat exchanger. AIChE Journal, 2012, 58, 3144-3155.	1.8	21
82	Process Intensification of Alkynol Semihydrogenation in a Tube Reactor Coated with a Pd/ZnO Catalyst. Catalysts, 2017, 7, 358.	1.6	21
83	Application of alternative energy forms in catalytic reactor engineering. Green Processing and Synthesis, 2012, 1, .	1.3	20
84	Scale-up of Microwave Assisted Flow Synthesis by Transient Processing through Monomode Cavities in Series. Organic Process Research and Development, 2014, 18, 1400-1407.	1.3	20
85	Influence of ceramic substrate porosity and glass phase content on the microstructure and mechanical properties of metallized ceramics via an activated Mo-Mn method. Ceramics International, 2020, 46, 8244-8254.	2.3	20
86	Thermodynamic potential of a novel plasma-assisted sustainable process for co-production of ammonia and hydrogen with liquid metals. Energy Conversion and Management, 2020, 210, 112709.	4.4	20
87	Micro/Milliflow Processing with Selective Catalyst Microwave Heating in the Cu-Catalyzed Ullmann Etherification Reaction: A $1/4$ Process. ChemSusChem, 2013, 6, 353-366.	3.6	19
88	Hydrolytic hydrogenation of cellulose in subcritical water with the use of the Ru-containing polymeric catalysts. Catalysis Today, 2017, 280, 45-50.	2.2	19
89	Hydrothermal synthesis of a continuous zeolite Beta layer by optimization of time, temperature and heating rate of the precursor mixture. Microporous and Mesoporous Materials, 2007, 106, 95-106.	2.2	18
90	Sol-gel synthesis of zeolite coatings and their application in catalytic microstructured reactors. Catalysis in Industry, 2009, 1, 322-347.	0.3	18

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91	Microwave assisted flow synthesis: Coupling of electromagnetic and hydrodynamic phenomena. <i>AICHE Journal</i> , 2014, 60, 3824-3832.	1.8	18
92	Propane and oxygen action on NO _x adspecies on low-exchanged Cu-ZSM-5. <i>Catalysis Letters</i> , 1998, 51, 27-40.	1.4	17
93	A radiofrequency heated reactor system for post-combustion carbon capture. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 108, 17-26.	1.8	17
94	Magnetic zeolites: novel nanoreactors through radiofrequency heating. <i>Chemical Communications</i> , 2017, 53, 4262-4265.	2.2	17
95	High-throughput screening of Co-BEA and Co-ZSM-5 coatings in the ammoxidation of ethylene to acetonitrile in a microstructured reactor. <i>Chemical Engineering Science</i> , 2007, 62, 5097-5101.	1.9	16
96	Economic Optimization of Local Australian Ammonia Production Using Plasma Technologies with Green/Turquoise Hydrogen. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 16304-16315.	3.2	16
97	Dinitrogen formation over low-exchanged Cu-ZSM-5 in the selective reduction of NO by propane. <i>Catalysis Letters</i> , 1999, 58, 107-118.	1.4	15
98	Redispersion Microreactor System for Phase Transfer-Catalyzed Esterification. <i>Chemical Engineering and Technology</i> , 2011, 34, 1691-1699.	0.9	15
99	Continuous Multitubular Millireactor with a Cu Thin Film for Microwave-Assisted Fine-Chemical Synthesis. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 14344-14354.	1.8	15
100	Performance of novel CaO-based sorbents in high temperature CO ₂ capture under RF heating. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 122, 487-492.	1.8	15
101	Process Intensification of Continuous-Flow Imine Hydrogenation in Catalyst-Coated Tube Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 4433-4442.	1.8	15
102	The Effects of Pulse Shape on the Selectivity and Production Rate in Non-oxidative Coupling of Methane by a Micro-DBD Reactor. <i>Plasma Chemistry and Plasma Processing</i> , 2022, 42, 619-640.	1.1	15
103	Design of a thick-walled screen for flow equalization in microstructured reactors. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, 633-641.	1.5	14
104	New Cu-Based Catalysts Supported on TiO ₂ Films for Ullmann S _N Ar-Type C ₆ H ₅ O Coupling Reactions. <i>Chemistry - A European Journal</i> , 2012, 18, 1800-1810.	1.7	14
105	Effect of Pr ³⁺ substitution on the microstructure, specific surface area, magnetic properties and specific heating rate of Ni _{0.5} Zn _{0.5} Pr ₂ O ₄ nanoparticles synthesized via sol-gel method. <i>Journal of Alloys and Compounds</i> , 2015, 639, 626-634.	2.8	14
106	Metal oxide-zeolite composites in transformation of methanol to hydrocarbons: do iron oxide and nickel oxide matter?. <i>RSC Advances</i> , 2016, 6, 75166-75177.	1.7	14
107	Hydrogenation of bio-oil into higher alcohols over Ru/Fe ₃ O ₄ -SiO ₂ catalysts. <i>Fuel Processing Technology</i> , 2017, 167, 738-746.	3.7	14
108	Zeolite minilith: A unique structured catalyst for the methanol to gasoline process. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 131, 137-143.	1.8	14

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109	Survey of Synthesis Processes for N-Doped Carbon Dots Assessed by Green Chemistry and Circular and EcoScale Metrics. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 4755-4770.	3.2	14
110	Electrochemical Synthesis of Mo ₂ C Catalytical Coatings for the Water-Gas Shift Reaction. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2007, 62, 647-654.	0.7	13
111	Limiting withdrawal rate and maximum film thickness during dip-coating of titania sols onto a Si substrate. <i>Chemical Engineering and Processing: Process Intensification</i> , 2011, 50, 1063-1068.	1.8	13
112	Microwave Setup Design for Continuous Fine-Chemicals Synthesis. <i>Chemical Engineering and Technology</i> , 2014, 37, 1645-1653.	0.9	13
113	Counting bubbles: precision process control of gas-liquid reactions in flow with an optical inline sensor. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 112-121.	1.9	13
114	Determination of the Tolman length in the improved Derjaguin-Broekhoff-de Boer theory for capillary condensation of ethanol in mesoporous thin films by ellipsometric porosimetry. <i>Microporous and Mesoporous Materials</i> , 2009, 123, 243-252.	2.2	12
115	Enhancement Factor for Gas Absorption in a Finite Liquid Layer. Part 1: Instantaneous Reaction in a Liquid in Plug Flow. <i>Chemical Engineering and Technology</i> , 2012, 35, 679-692.	0.9	11
116	Hydrogenation of levulinic acid using Ru-containing catalysts based on hypercrosslinked polystyrene. <i>Green Processing and Synthesis</i> , 2017, 6, 281-286.	1.3	11
117	3D Analysis of Heat Transfer Intensification by Entrance Flow Pin-Fins Microstructures with a Highly Thermal-Conductive Plate. <i>Chemical Engineering and Technology</i> , 2011, 34, 379-390.	0.9	10
118	Simulation study of a pulsed DBD with an electrode containing charge injector parts. <i>Physics of Plasmas</i> , 2021, 28, .	0.7	10
119	Confined palladium colloids in mesoporous frameworks for carbon nanotube growth. <i>Journal of Materials Science</i> , 2009, 44, 6563-6570.	1.7	9
120	Enhancement of the stability of microporous silica films in non-aqueous solvents at elevated temperature. <i>Microporous and Mesoporous Materials</i> , 2009, 124, 20-29.	2.2	9
121	Rational design for the microplasma synthesis from vitamin B9 to N-doped carbon quantum dots towards selected applications. <i>Carbon</i> , 2022, 198, 22-33.	5.4	9
122	Preparation and characterization of bimetallic catalysts supported on mesoporous silica films. <i>Studies in Surface Science and Catalysis</i> , 2006, , 167-174.	1.5	8
123	Catalytic Mo ₂ C coatings for the water gas shift reaction: Electrosynthesis in molten salts. <i>Kinetics and Catalysis</i> , 2008, 49, 594-598.	0.3	8
124	Magnetic enrichment behavior of monodispersed MFe ₂ O ₄ nanoferrites (M= Mg, Ca, Ni, Co, and Cu). <i>Ceramics International</i> , 2019, 45, 15980-15989.	2.3	8
125	Eustress in Space: Opportunities for Plant Stressors Beyond the Earth Ecosystem. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 9, .	1.1	8
126	Rate-determining stage in NO SCR with propane on low-exchanged Cu-ZSM-5 catalyst. <i>Catalysis Letters</i> , 2000, 64, 129-134.	1.4	7

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127	Advances in water-gas shift technology: modern catalysts and improved reactor concepts. , 2011, , 387-412.		7
128	Microwave-assisted organic synthesis in microstructured reactors. Russian Journal of General Chemistry, 2012, 82, 2060-2069.	0.3	7
129	Thermal Behavior of a Catalytic Packed-Bed Milli-reactor Operated under Radio Frequency Heating. Industrial & Engineering Chemistry Research, 2017, 56, 13273-13280.	1.8	7
130	Synthesis of Mo ₂ C coatings by simultaneous electroreduction of MoO ₄ ²⁻ and CO ₃ ²⁻ ions in molten salts and their catalytic activity for the water-gas shift reaction. Doklady Chemistry, 2008, 421, 186-189.	0.2	6
131	Enhancement Factor for Gas Absorption in a Finite Liquid Layer. Part 2: First- and Second-Order Reactions in a Liquid in Plug Flow. Chemical Engineering and Technology, 2012, 35, 859-869.	0.9	6
132	Magnetic actuation of catalytic microparticles for the enhancement of mass transfer rate in a flow reactor. Chemical Engineering Journal, 2016, 306, 352-361.	6.6	6
133	Temperature dependence of the magnetic properties of mono-dispersed Co _{0.5} Zn _{0.5} Fe ₂ O ₄ microtubes derived from different templates. Journal of Materials Science: Materials in Electronics, 2019, 30, 2809-2820.	1.1	6
134	Direct Amide Synthesis over Composite Magnetic Catalysts in a Continuous Flow Reactor. Catalysts, 2021, 11, 146.	1.6	6
135	Controllable synthesis of one-dimensional isolated Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ microtubes for application as catalyst support in RF heated reactors. Ceramics International, 2016, 42, 7793-7802.	2.3	5
136	Synthesis of Thin Titania Coatings onto the Inner Surface of Quartz Tubes and Their Photoactivity in Decomposition of Methylene Blue and Rhodamine B. Catalysts, 2021, 11, 1538.	1.6	5
137	Catalytic and adsorptive properties of a Cu-ZSM-5 catalyst synthesized by solid-phase method. Reaction Kinetics and Catalysis Letters, 1997, 60, 313-321.	0.6	4
138	Hydrothermal Synthesis of Zeolitic Coatings for Applications in Micro-structured Reactors. , 2009, , 311-334.		4
139	Use of microtechnologies for intensifying industrial processes. Theoretical Foundations of Chemical Engineering, 2010, 44, 791-799.	0.2	4
140	Redispersion Microreactor System for Phase Transfer Catalyzed Esterification. Chemie-Ingenieur-Technik, 2011, 83, 1096-1106.	0.4	4
141	A Kinetic Study on the Cu(0)-Catalyzed Ullmann-Type Nucleophilic Aromatic Substitution C-C Coupling of Potassium Phenolate and 4-Chloropyridine. Industrial & Engineering Chemistry Research, 2013, 52, 18206-18214.	1.8	4
142	Scale-up of an RF heated micro trickle bed reactor to a kg/day production scale. Green Processing and Synthesis, 2015, 4, .	1.3	4
143	Design of catalytic micro trickle bed reactors. ChemistrySelect, 2016, 1, .	0.7	4
144	Lignin-containing Feedstock Hydrogenolysis for Biofuel Component Production. Bulletin of Chemical Reaction Engineering and Catalysis, 2018, 13, 74-81.	0.5	4

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145	Catalytic coatings of new generation based on Mo ₂ C and a microstructured reactor for steam conversion of carbon monoxide. Russian Journal of Applied Chemistry, 2014, 87, 601-607.	0.1	3
146	Tunable enhanced Faraday rotation in a defected plasma photonic crystal under external magnetic field with different declinations. Journal Physics D: Applied Physics, 2021, 54, 505203.	1.3	3
147	Process Intensification in Photocatalytic Decomposition of Formic Acid over a TiO ₂ Catalyst by Forced Periodic Modulation of Concentration, Temperature, Flowrate and Light Intensity. Processes, 2021, 9, 2046.	1.3	3
148	Revisiting the Effect of U-Bends, Flow Parameters, and Feasibility for Scale-Up on Residence Time Distribution Curves for a Continuous Bioprocessing Oscillatory Baffled Flow Reactor. Industrial & Engineering Chemistry Research, 2022, 61, 11181-11196.	1.8	3
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