Evgeny Rebrov

List of Publications by Year
in descending order

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163	4,914	94433	128289
papers	citations	37 h-index	60 g-index

174	174	174	4140
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dissolved gas and ultrasonic cavitation â€“ A review. Ultrasonics Sonochemistry, 2013, 20, 1-11.	8.2	245
2	Liquidâ€“liquid slug flow: Hydrodynamics and pressure drop. Chemical Engineering Science, 2011, 66, 42-54.	3.8	165
3	Liquidâ€“Liquid Flow in a Capillary Microreactor: Hydrodynamic Flow Patterns and Extraction Performance. Industrial & Engineering Chemistry Research, 2012, 51, 1015-1026.	3.7	136
4	Single-phase fluid flow distribution and heat transfer in microstructured reactors. Chemical Engineering Science, 2011, 66, 1374-1393.	3.8	125
5	Pressure drop of gasâ€“liquid Taylor flow in round micro-capillaries for low to intermediate Reynolds numbers. Microfluidics and Nanofluidics, 2010, 8, 33.	2.2	122
6	The preparation of highly ordered single layer ZSM-5 coating on prefabricated stainless steel microchannels. Applied Catalysis A: General, 2001, 206, 125-143.	4.3	119
7	Design of a microstructured reactor with integrated heat-exchanger for optimum performance of a highly exothermic reaction. Catalysis Today, 2001, 69, 183-192.	4.4	108
8	Two-phase flow regimes in microchannels. Theoretical Foundations of Chemical Engineering, 2010, 44, 355-367.	0.7	100
9	Numbered-up gasâ€“liquid micro/milli channels reactor with modular flow distributor. Chemical Engineering Journal, 2012, 207-208, 645-655.	12.7	100
10	Hydrodynamics and Mixer-Induced Bubble Formation in Micro Bubble Columns with Single and Multiple-Channels. Chemical Engineering and Technology, 2006, 29, 1015-1026.	1.5	95
11	Capillary microreactors wall-coated with mesoporous titania thin film catalyst supports. Lab on A Chip, 2009, 9, 503-506.	6.0	93
12	Selective Hydrogenation of 2-Methyl-3-butyne-2-ol in a Wall-Coated Capillary Microreactor with a Pd₂₅Zn₇₅/TiO₂ Catalyst. Organic Process Research and Development, 2009, 13, 991-998.	2.7	88
13	Development of the kinetic model of platinum catalyzed ammonia oxidation in a microreactor. Chemical Engineering Journal, 2002, 90, 61-76.	12.7	81
14	ZnO based nanowires grown by chemical vapour deposition for selective hydrogenation of acetylene alcohols. Catalysis Science and Technology, 2011, 1, 768.	4.1	81
15	Structural and magnetic properties of Ni1â^'xZnxFe2O4 (x=0, 0.5 and 1) nanopowders prepared by solâ€“gel method. Journal of Magnetism and Magnetic Materials, 2013, 348, 44-50.	2.3	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. Chemical Engineering Journal, 2003, 93, 201-216.	12.7	71
17	Preferential CO oxidation over a copperâ€“cerium oxide catalyst in a microchannel reactor. Applied Catalysis A: General, 2008, 350, 53-62.	4.3	69
18	Phase-Transfer Catalysis in Segmented Flow in a Microchannel: Fluidic Control of Selectivity and Productivity. Industrial & Engineering Chemistry Research, 2010, 49, 2681-2687.	3.7	63

#	Article	IF	Citations
19	Gasâ€“liquidâ€“liquid three-phase flow pattern and pressure drop in a microfluidic chip: similarities with gasâ€“liquid/liquidâ€“liquid flows. Lab on A Chip, 2014, 14, 1632.	6.0	61
20	Design criteria for a barrier-based gasâ€“liquid flow distributor for parallel microchannels. Chemical Engineering Journal, 2012, 181-182, 549-556.	12.7	60
21	Effect of resonance frequency, power input, and saturation gas type on the oxidation efficiency of an ultrasound horn. Ultrasonics Sonochemistry, 2011, 18, 209-215.	8.2	59
22	One-step synthesis of ZIF-8/ZnO composites based on coordination defect strategy and its derivatives for photocatalysis. Journal of Alloys and Compounds, 2020, 838, 155219.	5.5	57
23	OpenFlowChem â€“ a platform for quick, robust and flexible automation and self-optimisation of flow chemistry. Reaction Chemistry and Engineering, 2018, 3, 769-780.	3.7	56
24	Microfluidic plasmas: Novel technique for chemistry and chemical engineering. Chemical Engineering Journal, 2021, 417, 129355.	12.7	56
25	Gas hold-up and liquid film thickness in Taylor flow in rectangular microchannels. Chemical Engineering Journal, 2008, 135, S153-S158.	12.7	51
26	Header design for flow equalization in microstructured reactors. AICHE Journal, 2007, 53, 28-38.	3.6	50
27	Structural investigations and magnetic properties of sol-gel Ni0.5Zn0.5Fe2O4 thin films for microwave heating. Journal of Applied Physics, 2010, 107, 044317.	2.5	50
28	Cost Analysis for a Continuously Operated Fine Chemicals Production Plant at 10 Kg/Day Using a Combination of Microprocessing and Microwave Heating. Journal of Flow Chemistry, 2011, 1, 74-89.	1.9	48
29	Microreactors for Gold Nanoparticles Synthesis: From Faraday to Flow. Processes, 2014, 2, 466-493.	2.8	46
30	Fabrication of Magnetic Superstructure NiFe₂O₄@MOF-74 and Its Derivative for Electrocatalytic Hydrogen Evolution with AC Magnetic Field. ACS Applied Materials & Interfaces, 2020, 12, 45987-45996.	8.0	45
31	Design methodology for barrierâ€based two phase flow distributor. AICHE Journal, 2012, 58, 3482-3493.	3.6	43
32	Structural, infrared, magnetic and microwave absorption properties of rare earth doped X-type hexagonal nanoferrites. Journal of Alloys and Compounds, 2013, 570, 7-13.	5.5	43
33	Synthesis of protective Moâ€“Siâ€“B coatings in molten salts and their oxidation behavior in an airâ€“water mixture. Surface and Coatings Technology, 2006, 201, 971-978.	4.8	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. Lab on A Chip, 2015, 15, 1952-1960.	6.0	42
35	Non-Thermal Plasma for Process and Energy Intensification in Dry Reforming of Methane. Catalysts, 2020, 10, 1358.	3.5	42
36	Method for the in situ preparation of a single layer of zeolite Beta crystals on a molybdenum substrate for microreactor applications. Journal of Catalysis, 2007, 247, 328-338.	6.2	40

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37	A kinetic study of the liquid-phase hydrogenation of citral on Au/TiO2 and Ptâ€“Sn/TiO2 thin films in capillary microreactors. Applied Catalysis A: General, 2011, 399, 12-21.	4.3	40
38	Nanosized Ceâ€“Zn substituted microwave absorber material for X-band applications. Journal of Magnetism and Magnetic Materials, 2014, 370, 25-31.	2.3	40
39	Control of the thickness of mesoporous titania films for application in multiphase catalytic microreactors. Journal of Catalysis, 2010, 271, 161-169.	6.2	39
40	Oxidation of organic compounds in a microstructured catalytic reactor. Chemical Engineering Journal, 2008, 135, S57-S65.	12.7	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. Journal of Catalysis, 2017, 355, 120-130.	6.2	38
42	Copper(0) in the Ullmann heterocycle-aryl ether synthesis of 4-phenoxypyridine using multimode microwave heating. Tetrahedron Letters, 2010, 51, 248-251.	1.4	37
43	Design, scale-out, and operation of a microchannel reactor with a Cu/CeO2â^'x catalytic coating for preferential CO oxidation. Chemical Engineering Journal, 2010, 160, 923-929.	12.7	37
44	Gold supported on mesoporous titania thin films for application in microstructured reactors in low-temperature water-gas shift reaction. Catalysis Today, 2008, 138, 210-215.	4.4	36
45	Structural and magnetic properties of solâ€“gel Co2xNi0.5â^'x Zn0.5â^'xFe2O4 thin films. Journal of Magnetism and Magnetic Materials, 2011, 323, 723-729.	2.3	36
46	Direct amide formation using radiofrequency heating. Organic and Biomolecular Chemistry, 2013, 11, 4171-4177.	2.8	36
47	A highly active and synergistic Pt/Mo2C/Al2O3 catalyst for water-gas shift reaction. Molecular Catalysis, 2018, 455, 38-47.	2.0	36
48	Synthesis of molybdenum borides and molybdenum silicides in molten salts and their oxidation behavior in an airâ€“water mixture. Surface and Coatings Technology, 2005, 195, 182-188.	4.8	35
49	Scale up study of capillary microreactors in solvent-free semihydrogenation of 2â€methylâ€3â€butynâ€2â€ol. Catalysis Today, 2016, 273, 205-212.	4.4	33
50	Solvent-free semihydrogenation of acetylene alcohols in a capillary reactor coated with a Pdâ€“Bi/TiO 2 catalyst. Applied Catalysis A: General, 2016, 515, 108-115.	4.3	33
51	Mesoporous silica films as catalyst support for microstructured reactors: Preparation and characterization. Chemical Engineering Journal, 2008, 135, S99-S103.	12.7	32
52	Designing flow and temperature uniformities in parallel microchannels reactor. AICHE Journal, 2014, 60, 1941-1952.	3.6	32
53	A Kinetic Study of Ammonia Oxidation on a Pt Catalyst in the Explosive Region in a Microstructured Reactor/Heat-Exchanger. Chemical Engineering Research and Design, 2003, 81, 744-752.	5.6	31
54	Design of a molybdenum high throughput microreactor for high temperature screening of catalytic coatings. Chemical Engineering Journal, 2004, 101, 225-235.	12.7	31

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55	Mechanism of Ultrasound Scission of a Silverâ€“Carbene Coordination Polymer. Journal of Physical Chemistry B, 2011, 115, 11038-11043.	2.6	31
56	Study of the water-gas shift reaction on Mo2C/Mo catalytic coatings for application in microstructured fuel processors. Catalysis Today, 2007, 125, 88-96.	4.4	29
57	Design of Ptâ€“Sn catalysts on mesoporous titania films for microreactor application. Catalysis Today, 2009, 147, S81-S86.	4.4	29
58	Microwave-assisted Cu-catalyzed Ullmann ether synthesis in a continuous-flow milli-plant. Chemical Engineering Journal, 2012, 207-208, 426-439.	12.7	28
59	Influence of Nd-Co Substitution on Structural, Electrical, and Dielectric Properties of X-Type Hexagonal Nanoferrites. Journal of Materials Engineering and Performance, 2014, 23, 622-627.	2.5	28
60	Mechanochemical synthesis of TiO2/NiFe2O4 magnetic catalysts for operation under RF field. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 193, 175-180.	3.5	28
61	Hydrodynamic cavitation in micro channels with channel sizes of 100 and 750 micrometers. Microfluidics and Nanofluidics, 2012, 12, 499-508.	2.2	27
62	Hydrothermal synthesis and characterization of ZSM-5 coatings on a molybdenum support and scale-up for application in micro reactors. Catalysis Today, 2005, 110, 38-46.	4.4	26
63	Optimization of anodic oxidation and Cuâ€“Cr oxide catalyst preparation on structured aluminum plates processed by electro discharge machining. Catalysis Today, 2005, 105, 516-528.	4.4	26
64	Enhancement of the Liquid-Side Mass Transfer in a Falling Film Catalytic Microreactor by In-Channel Mixing Structures. Industrial & Engineering Chemistry Research, 2012, 51, 8719-8725.	3.7	26
65	Design and operation of a radio-frequency heated micro-trickle bed reactor for consecutive catalytic reactions. Chemical Engineering Journal, 2015, 281, 884-891.	12.7	26
66	A microstructured reactor/heat-exchanger for the waterâ€“gas shift reaction operated in the 533â€“673K range. Catalysis Today, 2009, 147, S198-S203.	4.4	25
67	Mechanistic Insights into the Desorption of Methanol and Dimethyl Ether Over ZSM-5 Catalysts. Catalysis Letters, 2018, 148, 474-488.	2.6	25
68	Active site isolation in bismuth-poisoned Pd/SiO2 catalysts for selective hydrogenation of furfural. Applied Catalysis A: General, 2019, 570, 183-191.	4.3	25
69	Synthesis and characterization of mesoporous silica thin films as a catalyst support on a titanium substrate. Thin Solid Films, 2007, 515, 6391-6394.	1.8	24
70	Microwave-assisted hydrothermal synthesis of zeolite Beta coatings on ALD-modified borosilicate glass for application in microstructured reactors. Chemical Engineering Journal, 2008, 135, S117-S120.	12.7	24
71	Cu-Based Nanoalloys in the Base-Free Ullmann Heterocyle-Aryl Ether Synthesis. Organic Process Research and Development, 2010, 14, 644-649.	2.7	24
72	Effect of the Load Size on the Efficiency of Microwave Heating Under Stop Flow and Continuous Flow Conditions. Journal of Microwave Power and Electromagnetic Energy, 2012, 46, 83-92.	0.8	24

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73	Structural, magnetic and thermal properties of one-dimensional CoFe2O4 microtubes. Journal of Alloys and Compounds, 2016, 665, 428-434.	5.5	24
74	Gas-liquid hydrogenation in continuous flow â€“ The effect of mass transfer and residence time in powder packed-bed and catalyst-coated reactors. Chemical Engineering Journal, 2020, 379, 122292.	12.7	24
75	Direct amide synthesis over coreâ€“shell TiO₂@NiFe₂O₄ catalysts in a continuous flow radiofrequency-heated reactor. RSC Advances, 2016, 6, 100997-101007.	3.6	23
76	Highly Selective Continuous Flow Hydrogenation of Cinnamaldehyde to Cinnamyl Alcohol in a Pt/SiO2 Coated Tube Reactor. Catalysts, 2018, 8, 58.	3.5	23
77	Miniaturization of Heterogeneous Catalytic Reactors: Prospects for New Developments in Catalysis and Process Engineering. Chimia, 2002, 56, 627-635.	0.6	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.	3.7	22
79	Selectivity control in hydrogenation reactions by nanoconfinement of polymetallic nanoparticles in mesoporous thin films. Applied Catalysis A: General, 2009, 368, 87-96.	4.3	22
80	Design of a radio frequency heated isothermal micro-trickle bed reactor. Chemical Engineering Journal, 2014, 243, 225-233.	12.7	22
81	Energy efficient and controlled flow processing under microwave heating by using a millireactorâ€“heat exchanger. AICHE Journal, 2012, 58, 3144-3155.	3.6	21
82	Process Intensification of Alkynol Semihydrogenation in a Tube Reactor Coated with a Pd/ZnO Catalyst. Catalysts, 2017, 7, 358.	3.5	21
83	Application of alternative energy forms in catalytic reactor engineering. Green Processing and Synthesis, 2012, 1, .	3.4	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.	2.7	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.	4.8	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.	9.2	20
87	Micro/Milliflow Processing with Selective Catalyst Microwave Heating in the Cuâ€Catalyzed Ullmann Etherification Reaction: A Ì¼²â€Process. ChemSusChem, 2013, 6, 353-366.	6.8	19
88	Hydrolytic hydrogenation of cellulose in subcritical water with the use of the Ru-containing polymeric catalysts. Catalysis Today, 2017, 280, 45-50.	4.4	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.	4.4	18
90	Sol-gel synthesis of zeolite coatings and their application in catalytic microstructured reactors. Catalysis in Industry, 2009, 1, 322-347.	0.7	18

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91	Microwave assisted flow synthesis: Coupling of electromagnetic and hydrodynamic phenomena. AIChE Journal, 2014, 60, 3824-3832.	3.6	18
92	Propane and oxygen action on NOx adspecies on low-exchanged Cu-ZSM-5. Catalysis Letters, 1998, 51, 27-40.	2.6	17
93	A radiofrequency heated reactor system for post-combustion carbon capture. Chemical Engineering and Processing: Process Intensification, 2016, 108, 17-26.	3.6	17
94	Magnetic zeolites: novel nanoreactors through radiofrequency heating. Chemical Communications, 2017, 53, 4262-4265.	4.1	17
95	High-throughput screening of Co-BEA and Co-ZSM-5 coatings in the ammoxidation of ethylene to acetonitrile in a microstructured reactor. Chemical Engineering Science, 2007, 62, 5097-5101.	3.8	16
96	Economic Optimization of Local Australian Ammonia Production Using Plasma Technologies with Green/Turquoise Hydrogen. ACS Sustainable Chemistry and Engineering, 2021, 9, 16304-16315.	6.7	16
97	Dinitrogen formation over low-exchanged Cu-ZSM-5 in the selective reduction of NO by propane. Catalysis Letters, 1999, 58, 107-118.	2.6	15
98	Redispersion Microreactor System for Phase Transferâ€Catalyzed Esterification. Chemical Engineering and Technology, 2011, 34, 1691-1699.	1.5	15
99	Continuous Multitubular Millireactor with a Cu Thin Film for Microwave-Assisted Fine-Chemical Synthesis. Industrial & Engineering Chemistry Research, 2012, 51, 14344-14354.	3.7	15
100	Performance of novel CaO-based sorbents in high temperature CO 2 capture under RF heating. Chemical Engineering and Processing: Process Intensification, 2017, 122, 487-492.	3.6	15
101	Process Intensification of Continuous-Flow Imine Hydrogenation in Catalyst-Coated Tube Reactors. Industrial & Engineering Chemistry Research, 2019, 58, 4433-4442.	3.7	15
102	The Effects of Pulse Shape on the Selectivity and Production Rate in Non-oxidative Coupling of Methane by a Micro-DBD Reactor. Plasma Chemistry and Plasma Processing, 2022, 42, 619-640.	2.4	15
103	Design of a thick-walled screen for flow equalization in microstructured reactors. Journal of Micromechanics and Microengineering, 2007, 17, 633-641.	2.6	14
104	New Cuâ€Based Catalysts Supported on TiO₂ Films for Ullmann S_NArâ€Type Cï£¿O Coupling Reactions. Chemistry - A European Journal, 2012, 18, 1800-1810.	3.3	14
105	Effect of Pr3+ substitution on the microstructure, specific surface area, magnetic properties and specific heating rate of Ni0.5Zn0.5Pr Fe2â^'O4 nanoparticles synthesized via solâ€“gel method. Journal of Alloys and Compounds, 2015, 639, 626-634.	5.5	14
106	Metal oxideâ€“zeolite composites in transformation of methanol to hydrocarbons: do iron oxide and nickel oxide matter?. RSC Advances, 2016, 6, 75166-75177.	3.6	14
107	Hydrogenation of bio-oil into higher alcohols over Ru/Fe3O4-SiO2 catalysts. Fuel Processing Technology, 2017, 167, 738-746.	7.2	14
108	Zeolite minilith: A unique structured catalyst for the methanol to gasoline process. Chemical Engineering and Processing: Process Intensification, 2018, 131, 137-143.	3.6	14

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109	Survey of Synthesis Processes for N-Doped Carbon Dots Assessed by Green Chemistry and Circular and EcoScale Metrics. ACS Sustainable Chemistry and Engineering, 2021, 9, 4755-4770.	6.7	14
110	Electrochemical Synthesis of Mo2C Catalytical Coatings for the Water-Gas Shift Reaction. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2007, 62, 647-654.	1.5	13
111	Limiting withdrawal rate and maximum film thickness during dip-coating of titania sols onto a Si substrate. Chemical Engineering and Processing: Process Intensification, 2011, 50, 1063-1068.	3.6	13
112	Microwave Setup Design for Continuous Fineâ€Chemicals Synthesis. Chemical Engineering and Technology, 2014, 37, 1645-1653.	1.5	13
113	Counting bubbles: precision process control of gasâ€“liquid reactions in flow with an optical inline sensor. Reaction Chemistry and Engineering, 2019, 4, 112-121.	3.7	13
114	Determination of the Tolman length in the improved Derjaguinâ€“Broekhoffâ€“de Boer theory for capillary condensation of ethanol in mesoporous thin films by ellipsometric porosimetry. Microporous and Mesoporous Materials, 2009, 123, 243-252.	4.4	12
115	Enhancement Factor for Gas Absorption in a Finite Liquid Layer. Part 1: Instantaneous Reaction in a Liquid in Plug Flow. Chemical Engineering and Technology, 2012, 35, 679-692.	1.5	11
116	Hydrogenation of levulinic acid using Ru-containing catalysts based on hypercrosslinked polystyrene. Green Processing and Synthesis, 2017, 6, 281-286.	3.4	11
117	3D Analysis of Heat Transfer Intensification by Reâ€Entrance Flow Pinâ€Fins Microstructures with a Highly Thermalâ€Conductive Plate. Chemical Engineering and Technology, 2011, 34, 379-390.	1.5	10
118	Simulation study of a pulsed DBD with an electrode containing charge injector parts. Physics of Plasmas, 2021, 28, .	1.9	10
119	Confined palladium colloids in mesoporous frameworks for carbon nanotube growth. Journal of Materials Science, 2009, 44, 6563-6570.	3.7	9
120	Enhancement of the stability of microporous silica films in non-aqueous solvents at elevated temperature. Microporous and Mesoporous Materials, 2009, 124, 20-29.	4.4	9
121	Rational design for the microplasma synthesis from vitamin B9 to N-doped carbon quantum dots towards selected applications. Carbon, 2022, 198, 22-33.	10.3	9
122	Preparation and characterization of bimetallic catalysts supported on mesoporous silica films. Studies in Surface Science and Catalysis, 2006, , 167-174.	1.5	8
123	Catalytic Mo2C coatings for the water gas shift reaction: Electrosynthesis in molten salts. Kinetics and Catalysis, 2008, 49, 594-598.	1.0	8
124	Magnetic enrichment behavior of monodispersed MFe2O4 nanoferrites (M= Mg, Ca, Ni, Co, and Cu). Ceramics International, 2019, 45, 15980-15989.	4.8	8
125	Eustress in Space: Opportunities for Plant Stressors Beyond the Earth Ecosystem. Frontiers in Astronomy and Space Sciences, 2022, 9, .	2.8	8
126	Rateâ€determining stage in NO SCR with propane on lowâ€exchanged Cuâ€ZSMâ€5 catalyst. Catalysis Letters, 2000, 64, 129-134.	2.6	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.	0.8	7
129	Thermal Behavior of a Catalytic Packed-Bed Milli-reactor Operated under Radio Frequency Heating. Industrial & Engineering Chemistry Research, 2017, 56, 13273-13280.	3.7	7
130	Synthesis of Mo2C coatings by simultaneous electroreduction of MoO 4 2â^' and CO 3 2â^' ions in molten salts and their catalytic activity for the water-gas shift reaction. Doklady Chemistry, 2008, 421, 186-189.	0.9	6
131	Enhancement Factor for Gas Absorption in a Finite Liquid Layer. Part 2: Firstâ€•and Secondâ€Order Reactions in a Liquid in Plug Flow. Chemical Engineering and Technology, 2012, 35, 859-869.	1.5	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.	12.7	6
133	Temperature dependence of the magnetic properties of mono-dispersed Co0.5Zn0.5Fe2O4 microtubes derived from different templates. Journal of Materials Science: Materials in Electronics, 2019, 30, 2809-2820.	2.2	6
134	Direct Amide Synthesis over Composite Magnetic Catalysts in a Continuous Flow Reactor. Catalysts, 2021, 11, 146.	3.5	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.	4.8	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.	3.5	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.	0.7	4
140	Redispersion Microreactor System for Phase Transfer Catalyzed Esterification. Chemie-Ingenieur-Technik, 2011, 83, 1096-1106.	0.8	4
141	A Kinetic Study on the Cu(0)-Catalyzed Ullmann-Type Nucleophilic Aromatic Substitution Câ€“O Coupling of Potassium Phenolate and 4-Chloropyridine. Industrial & Engineering Chemistry Research, 2013, 52, 18206-18214.	3.7	4
142	Scale-up of an RF heated micro trickle bed reactor to a kg/day production scale. Green Processing and Synthesis, 2015, 4, .	3.4	4
143	Design of catalytic micro trickle bed reactors. ChemistrySelect, 2016, 1, .	1.5	4
144	Lignin-containing Feedstock Hydrogenolysis for Biofuel Component Production. Bulletin of Chemical Reaction Engineering and Catalysis, 2018, 13, 74-81.	1.1	4

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145	Catalytic coatings of new generation based on Mo2C and a microstructured reactor for steam conversion of carbon monoxide. Russian Journal of Applied Chemistry, 2014, 87, 601-607.	0.5	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.	2.8	3
147	Process Intensification in Photocatalytic Decomposition of Formic Acid over a TiO2 Catalyst by Forced Periodic Modulation of Concentration, Temperature, Flowrate and Light Intensity. Processes, 2021, 9, 2046.	2.8	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.	3.7	3
149	Catalysts of new generation and microstructured heat-exchanger reactors for the water-gas shift reaction. Russian Journal of General Chemistry, 2012, 82, 2070-2078.	0.8	2
150	Enhancement Factor for Gas Absorption in a Finite Liquid Layer. Part 3: Instantaneous and Secondâ€Order Reactions in a Liquid in Laminar Flow. Chemical Engineering and Technology, 2012, 35, 1473-1485.	1.5	2
151	Cellulose hydrogenolysis with the use of the catalysts supported on hypercrosslinked polystyrene. AIP Conference Proceedings, 2016, , .	0.4	2
152	Enhanced Droplet Size Control in Liquidâ€Liquid Emulsions Obtained inÂaÂWireâ€Guided Xâ€Mixer. Chemical Engineering and Technology, 2019, 42, 1053-1058.	1.5	2
153	Microwave Absorbing Ferrite Thin Films for Microwave Heating of Microstructured Reactors. Materials Research Society Symposia Proceedings, 2009, 1222, 1.	0.1	1
154	Droplet size control with methanolâ€repellent surface in a sampling device for continuous annular electrochromatography. Journal of Separation Science, 2012, 35, 445-451.	2.5	1
155	Design of a Compact Microreactor/Heat-Exchanger for a Distributed Production of Liquid Hydrocarbons from Methanol. Reactions, 2021, 2, 427-441.	2.1	1
156	Hydrolytic Hydrogenation of Cellulose with the Use of the Ru-containing Polymeric Catalysts. , 2021, 1, 35-41.		1
157	Miniaturization of Heterogeneous Catalytic Reactors: Prospects for New Developments in Catalysis and Process Engineering. ChemInform, 2003, 34, no.	0.0	0
158	FTIR study of acetone oxime interaction with H-ZSM-5 and Cu-ZSM-5. , 2004, , .		0
159	Corrigendum to â€œCopper(0) in the Ullmann heterocycle-aryl ether synthesis of 4-phenoxypyridine using multimode microwave heatingâ€•[Tetrahedron Lett. 51 (2010) 248]. Tetrahedron Letters, 2010, 51, 5849.	1.4	0
160	Two-stage electrochemical synthesis of double molybdenum carbides. Russian Metallurgy (Metally), 2011, 2011, 767-773.	0.5	0
161	5. Design of catalytic micro trickle bed reactors. , 2015, , 174-219.		0
162	Novel Zeolite Catalysts for Methanol to Hydrocarbon Transformation. , 2019, , 321-356.		0

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163	Evaluation of D-glucose Hydrogenation Catalysts Suability in Different Reactor Systems. , 2021, 1, 53-57.		0