

Evgeny Rebrov

List of Publications by Year in descending order

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163
papers

4,914
citations

94433

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128289

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174
docs citations

174
times ranked

4140
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.4	15
2	Eustress in Space: Opportunities for Plant Stressors Beyond the Earth Ecosystem. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 9, .	2.8	8
3	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. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 11181-11196.	3.7	3
4	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.	10.3	9
5	Simulation study of a pulsed DBD with an electrode containing charge injector parts. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	10
6	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.	6.7	14
7	Microfluidic plasmas: Novel technique for chemistry and chemical engineering. <i>Chemical Engineering Journal</i> , 2021, 417, 129355.	12.7	56
8	Tunable enhanced Faraday rotation in a defected plasma photonic crystal under external magnetic field with different declinations. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 505203.	2.8	3
9	Direct Amide Synthesis over Composite Magnetic Catalysts in a Continuous Flow Reactor. <i>Catalysts</i> , 2021, 11, 146.	3.5	6
10	Design of a Compact Microreactor/Heat-Exchanger for a Distributed Production of Liquid Hydrocarbons from Methanol. <i>Reactions</i> , 2021, 2, 427-441.	2.1	1
11	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.	6.7	16
12	Process Intensification in Photocatalytic Decomposition of Formic Acid over a TiO ₂ Catalyst by Forced Periodic Modulation of Concentration, Temperature, Flowrate and Light Intensity. <i>Processes</i> , 2021, 9, 2046.	2.8	3
13	Hydrolytic Hydrogenation of Cellulose with the Use of the Ru-containing Polymeric Catalysts. , 2021, 1, 35-41.		1
14	Evaluation of D-glucose Hydrogenation Catalysts Suability in Different Reactor Systems. , 2021, 1, 53-57.		0
15	Synthesis of Thin Titania Coatings onto the Inner Surface of Quartz Tubes and Their Photoactivity in Decomposition of Methylene Blue and Rhodamine B. <i>Catalysts</i> , 2021, 11, 1538.	3.5	5
16	Gas-liquid hydrogenation in continuous flow – The effect of mass transfer and residence time in powder packed-bed and catalyst-coated reactors. <i>Chemical Engineering Journal</i> , 2020, 379, 122292.	12.7	24
17	Influence of ceramic substrate porosity and glass phase content on the microstructure and mechanical properties of metallized ceramics via an activated Mo-Mn method. <i>Ceramics International</i> , 2020, 46, 8244-8254.	4.8	20
18	Non-Thermal Plasma for Process and Energy Intensification in Dry Reforming of Methane. <i>Catalysts</i> , 2020, 10, 1358.	3.5	42

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19	Fabrication of Magnetic Superstructure NiFe ₂ O ₄ @MOF-74 and Its Derivative for Electrocatalytic Hydrogen Evolution with AC Magnetic Field. ACS Applied Materials & Interfaces, 2020, 12, 45987-45996.	8.0	45
20	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
21	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
22	Counting bubbles: precision process control of gas-liquid reactions in flow with an optical inline sensor. Reaction Chemistry and Engineering, 2019, 4, 112-121.	3.7	13
23	Magnetic enrichment behavior of monodispersed MFe ₂ O ₄ nanoferrites (M= Mg, Ca, Ni, Co, and Cu). Ceramics International, 2019, 45, 15980-15989.	4.8	8
24	Process Intensification of Continuous-Flow Imine Hydrogenation in Catalyst-Coated Tube Reactors. Industrial & Engineering Chemistry Research, 2019, 58, 4433-4442.	3.7	15
25	Enhanced Droplet Size Control in Liquid-Liquid Emulsions Obtained in Wire-Guided Mixer. Chemical Engineering and Technology, 2019, 42, 1053-1058.	1.5	2
26	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.	2.2	6
27	Active site isolation in bismuth-poisoned Pd/SiO ₂ catalysts for selective hydrogenation of furfural. Applied Catalysis A: General, 2019, 570, 183-191.	4.3	25
28	Novel Zeolite Catalysts for Methanol to Hydrocarbon Transformation. , 2019, , 321-356.		0
29	Mechanistic Insights into the Desorption of Methanol and Dimethyl Ether Over ZSM-5 Catalysts. Catalysis Letters, 2018, 148, 474-488.	2.6	25
30	A highly active and synergistic Pt/Mo ₂ C/Al ₂ O ₃ catalyst for water-gas shift reaction. Molecular Catalysis, 2018, 455, 38-47.	2.0	36
31	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
32	Highly Selective Continuous Flow Hydrogenation of Cinnamaldehyde to Cinnamyl Alcohol in a Pt/SiO ₂ Coated Tube Reactor. Catalysts, 2018, 8, 58.	3.5	23
33	OpenFlowChem – 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
34	Lignin-containing Feedstock Hydrogenolysis for Biofuel Component Production. Bulletin of Chemical Reaction Engineering and Catalysis, 2018, 13, 74-81.	1.1	4
35	Hydrogenation of levulinic acid using Ru-containing catalysts based on hypercrosslinked polystyrene. Green Processing and Synthesis, 2017, 6, 281-286.	3.4	11
36	Magnetic zeolites: novel nanoreactors through radiofrequency heating. Chemical Communications, 2017, 53, 4262-4265.	4.1	17

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37	The enhancement of direct amide synthesis reaction rate over $\text{TiO}_2 @ \text{SiO}_2 @ \text{NiFe}_2\text{O}_4$ magnetic catalysts in the continuous flow under radiofrequency heating. <i>Journal of Catalysis</i> , 2017, 355, 120-130.	6.2	38
38	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.	7.2	14
39	Thermal Behavior of a Catalytic Packed-Bed Milli-reactor Operated under Radio Frequency Heating. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 13273-13280.	3.7	7
40	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.	3.6	15
41	Hydrolytic hydrogenation of cellulose in subcritical water with the use of the Ru-containing polymeric catalysts. <i>Catalysis Today</i> , 2017, 280, 45-50.	4.4	19
42	Process Intensification of Alkynol Semihydrogenation in a Tube Reactor Coated with a Pd/ZnO Catalyst. <i>Catalysts</i> , 2017, 7, 358.	3.5	21
43	Design of catalytic micro trickle bed reactors. <i>ChemistrySelect</i> , 2016, 1, .	1.5	4
44	Cellulose hydrogenolysis with the use of the catalysts supported on hypercrosslinked polystyrene. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	2
45	Scale up study of capillary microreactors in solvent-free semihydrogenation of 2-methylbutynol. <i>Catalysis Today</i> , 2016, 273, 205-212.	4.4	33
46	Magnetic actuation of catalytic microparticles for the enhancement of mass transfer rate in a flow reactor. <i>Chemical Engineering Journal</i> , 2016, 306, 352-361.	12.7	6
47	A radiofrequency heated reactor system for post-combustion carbon capture. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 108, 17-26.	3.6	17
48	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.	3.6	14
49	Direct amide synthesis over core-shell $\text{TiO}_2 @ \text{NiFe}_2\text{O}_4$ catalysts in a continuous flow radiofrequency-heated reactor. <i>RSC Advances</i> , 2016, 6, 100997-101007.	3.6	23
50	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. <i>Ceramics International</i> , 2016, 42, 7793-7802.	4.8	5
51	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.	4.3	33
52	Structural, magnetic and thermal properties of one-dimensional CoFe ₂ O ₄ microtubes. <i>Journal of Alloys and Compounds</i> , 2016, 665, 428-434.	5.5	24
53	5. Design of catalytic micro trickle bed reactors. , 2015, , 174-219.		0
54	Scale-up of an RF heated micro trickle bed reactor to a kg/day production scale. <i>Green Processing and Synthesis</i> , 2015, 4, .	3.4	4

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55	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.	6.0	42
56	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.	3.5	28
57	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.	5.5	14
58	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.	12.7	26
59	Microwave Setup Design for Continuous Fine-Chemicals Synthesis. <i>Chemical Engineering and Technology</i> , 2014, 37, 1645-1653.	1.5	13
60	Microreactors for Gold Nanoparticles Synthesis: From Faraday to Flow. <i>Processes</i> , 2014, 2, 466-493.	2.8	46
61	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.	2.5	28
62	Designing flow and temperature uniformities in parallel microchannels reactor. <i>AIChE Journal</i> , 2014, 60, 1941-1952.	3.6	32
63	Design of a radio frequency heated isothermal micro-trickle bed reactor. <i>Chemical Engineering Journal</i> , 2014, 243, 225-233.	12.7	22
64	Catalytic coatings of new generation based on Mo ₂ C and a microstructured reactor for steam conversion of carbon monoxide. <i>Russian Journal of Applied Chemistry</i> , 2014, 87, 601-607.	0.5	3
65	Gas-liquid-liquid three-phase flow pattern and pressure drop in a microfluidic chip: similarities with gas-liquid-liquid flows. <i>Lab on A Chip</i> , 2014, 14, 1632.	6.0	61
66	Microwave assisted flow synthesis: Coupling of electromagnetic and hydrodynamic phenomena. <i>AIChE Journal</i> , 2014, 60, 3824-3832.	3.6	18
67	Nanosized Ce-Zn substituted microwave absorber material for X-band applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 370, 25-31.	2.3	40
68	Scale-up of Microwave Assisted Flow Synthesis by Transient Processing through Monomode Cavities in Series. <i>Organic Process Research and Development</i> , 2014, 18, 1400-1407.	2.7	20
69	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.	5.5	43
70	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.	2.3	74
71	Micro/Milliflow Processing with Selective Catalyst Microwave Heating in the Cu-Catalyzed Ullmann Etherification Reaction: A Process. <i>ChemSusChem</i> , 2013, 6, 353-366.	6.8	19
72	Dissolved gas and ultrasonic cavitation - A review. <i>Ultrasonics Sonochemistry</i> , 2013, 20, 1-11.	8.2	245

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73	Direct amide formation using radiofrequency heating. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 4171-4177.	2.8	36
74	A Kinetic Study on the Cu(0)-Catalyzed Ullmann-Type Nucleophilic Aromatic Substitution C ^o Coupling of Potassium Phenolate and 4-Chloropyridine. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 18206-18214.	3.7	4
75	Application of alternative energy forms in catalytic reactor engineering. <i>Green Processing and Synthesis</i> , 2012, 1, .	3.4	20
76	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.	0.8	24
77	Microwave-assisted organic synthesis in microstructured reactors. <i>Russian Journal of General Chemistry</i> , 2012, 82, 2060-2069.	0.8	7
78	Catalysts of new generation and microstructured heat-exchanger reactors for the water-gas shift reaction. <i>Russian Journal of General Chemistry</i> , 2012, 82, 2070-2078.	0.8	2
79	Numbered-up gas-liquid micro/milli channels reactor with modular flow distributor. <i>Chemical Engineering Journal</i> , 2012, 207-208, 645-655.	12.7	100
80	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.	3.7	26
81	Liquid-Liquid Flow in a Capillary Microreactor: Hydrodynamic Flow Patterns and Extraction Performance. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 1015-1026.	3.7	136
82	Microwave-assisted Cu-catalyzed Ullmann ether synthesis in a continuous-flow milli-plant. <i>Chemical Engineering Journal</i> , 2012, 207-208, 426-439.	12.7	28
83	Continuous Multitubular Millireactor with a Cu Thin Film for Microwave-Assisted Fine-Chemical Synthesis. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 14344-14354.	3.7	15
84	Energy efficient and controlled flow processing under microwave heating by using a millireactor-heat exchanger. <i>AIChE Journal</i> , 2012, 58, 3144-3155.	3.6	21
85	Design methodology for barrier-based two phase flow distributor. <i>AIChE Journal</i> , 2012, 58, 3482-3493.	3.6	43
86	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.	1.5	11
87	Enhancement Factor for Gas Absorption in a Finite Liquid Layer. Part 2: First- and Second-Order Reactions in a Liquid in Plug Flow. <i>Chemical Engineering and Technology</i> , 2012, 35, 859-869.	1.5	6
88	Enhancement Factor for Gas Absorption in a Finite Liquid Layer. Part 3: Instantaneous and Second-Order Reactions in a Liquid in Laminar Flow. <i>Chemical Engineering and Technology</i> , 2012, 35, 1473-1485.	1.5	2
89	Design criteria for a barrier-based gas-liquid flow distributor for parallel microchannels. <i>Chemical Engineering Journal</i> , 2012, 181-182, 549-556.	12.7	60
90	New Cu-Based Catalysts Supported on TiO ₂ Films for Ullmann S _N Ar-Type C ₁₂ O Coupling Reactions. <i>Chemistry - A European Journal</i> , 2012, 18, 1800-1810.	3.3	14

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91	Droplet size control with methanolâ€‘repellent surface in a sampling device for continuous annular electrochromatography. <i>Journal of Separation Science</i> , 2012, 35, 445-451.	2.5	1
92	Hydrodynamic cavitation in micro channels with channel sizes of 100 and 750 micrometers. <i>Microfluidics and Nanofluidics</i> , 2012, 12, 499-508.	2.2	27
93	Mechanism of Ultrasound Scission of a Silverâ€‘Carbene Coordination Polymer. <i>Journal of Physical Chemistry B</i> , 2011, 115, 11038-11043.	2.6	31
94	ZnO based nanowires grown by chemical vapour deposition for selective hydrogenation of acetylene alcohols. <i>Catalysis Science and Technology</i> , 2011, 1, 768.	4.1	81
95	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.	1.9	48
96	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.	3.6	13
97	Two-stage electrochemical synthesis of double molybdenum carbides. <i>Russian Metallurgy (Metally)</i> , 2011, 2011, 767-773.	0.5	0
98	Liquidâ€‘liquid slug flow: Hydrodynamics and pressure drop. <i>Chemical Engineering Science</i> , 2011, 66, 42-54.	3.8	165
99	3D Analysis of Heat Transfer Intensification by Reâ€‘Entrance Flow Pinâ€‘Fins Microstructures with a Highly Thermalâ€‘Conductive Plate. <i>Chemical Engineering and Technology</i> , 2011, 34, 379-390.	1.5	10
100	Redispersion Microreactor System for Phase Transferâ€‘Catalyzed Esterification. <i>Chemical Engineering and Technology</i> , 2011, 34, 1691-1699.	1.5	15
101	Redispersion Microreactor System for Phase Transfer Catalyzed Esterification. <i>Chemie-Ingenieur-Technik</i> , 2011, 83, 1096-1106.	0.8	4
102	Single-phase fluid flow distribution and heat transfer in microstructured reactors. <i>Chemical Engineering Science</i> , 2011, 66, 1374-1393.	3.8	125
103	A kinetic study of the liquid-phase hydrogenation of citral on Au/TiO ₂ and Ptâ€‘Sn/TiO ₂ thin films in capillary microreactors. <i>Applied Catalysis A: General</i> , 2011, 399, 12-21.	4.3	40
104	Structural and magnetic properties of solâ€‘gel Co ₂ Ni _{0.5} â€‘x Zn _{0.5} â€‘x Fe ₂ O ₄ thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 723-729.	2.3	36
105	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.	8.2	59
106	Advances in water-gas shift technology: modern catalysts and improved reactor concepts. , 2011, , 387-412.		7
107	Two-phase flow regimes in microchannels. <i>Theoretical Foundations of Chemical Engineering</i> , 2010, 44, 355-367.	0.7	100
108	Use of microtechnologies for intensifying industrial processes. <i>Theoretical Foundations of Chemical Engineering</i> , 2010, 44, 791-799.	0.7	4

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109	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.	2.2	122
110	Control of the thickness of mesoporous titania films for application in multiphase catalytic microreactors. <i>Journal of Catalysis</i> , 2010, 271, 161-169.	6.2	39
111	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.	1.4	37
112	Corrigendum to "Copper(0) in the Ullmann heterocycle-aryl ether synthesis of 4-phenoxy pyridine using multimode microwave heating" [Tetrahedron Lett. 51 (2010) 248]. <i>Tetrahedron Letters</i> , 2010, 51, 5849.	1.4	0
113	Design, scale-out, and operation of a microchannel reactor with a Cu/CeO ₂ catalytic coating for preferential CO oxidation. <i>Chemical Engineering Journal</i> , 2010, 160, 923-929.	12.7	37
114	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.	2.5	50
115	Cu-Based Nanoalloys in the Base-Free Ullmann Heterocycle-Aryl Ether Synthesis. <i>Organic Process Research and Development</i> , 2010, 14, 644-649.	2.7	24
116	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.	3.7	63
117	Hydrothermal Synthesis of Zeolitic Coatings for Applications in Micro-structured Reactors. , 2009, , 311-334.		4
118	Microwave Absorbing Ferrite Thin Films for Microwave Heating of Microstructured Reactors. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1222, 1.	0.1	1
119	Confined palladium colloids in mesoporous frameworks for carbon nanotube growth. <i>Journal of Materials Science</i> , 2009, 44, 6563-6570.	3.7	9
120	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.	4.4	12
121	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.	4.4	9
122	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.	4.4	25
123	Design of Pt-Sn catalysts on mesoporous titania films for microreactor application. <i>Catalysis Today</i> , 2009, 147, S81-S86.	4.4	29
124	Selectivity control in hydrogenation reactions by nanoconfinement of polymetallic nanoparticles in mesoporous thin films. <i>Applied Catalysis A: General</i> , 2009, 368, 87-96.	4.3	22
125	Sol-gel synthesis of zeolite coatings and their application in catalytic microstructured reactors. <i>Catalysis in Industry</i> , 2009, 1, 322-347.	0.7	18
126	Capillary microreactors wall-coated with mesoporous titania thin film catalyst supports. <i>Lab on a Chip</i> , 2009, 9, 503-506.	6.0	93

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127	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.	2.7	88
128	Oxidation of organic compounds in a microstructured catalytic reactor. <i>Chemical Engineering Journal</i> , 2008, 135, S57-S65.	12.7	38
129	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.	4.4	36
130	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.	12.7	24
131	Gas hold-up and liquid film thickness in Taylor flow in rectangular microchannels. <i>Chemical Engineering Journal</i> , 2008, 135, S153-S158.	12.7	51
132	Mesoporous silica films as catalyst support for microstructured reactors: Preparation and characterization. <i>Chemical Engineering Journal</i> , 2008, 135, S99-S103.	12.7	32
133	Preferential CO oxidation over a copper-cerium oxide catalyst in a microchannel reactor. <i>Applied Catalysis A: General</i> , 2008, 350, 53-62.	4.3	69
134	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. <i>Doklady Chemistry</i> , 2008, 421, 186-189.	0.9	6
135	Catalytic Mo ₂ C coatings for the water gas shift reaction: Electrosynthesis in molten salts. <i>Kinetics and Catalysis</i> , 2008, 49, 594-598.	1.0	8
136	Design of a thick-walled screen for flow equalization in microstructured reactors. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, 633-641.	2.6	14
137	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.	1.5	13
138	Experimental Validation of the Performance of a Microreactor for the High-Throughput Screening of Catalytic Coatings. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 3922-3931.	3.7	22
139	Header design for flow equalization in microstructured reactors. <i>AIChE Journal</i> , 2007, 53, 28-38.	3.6	50
140	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.	1.8	24
141	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.	3.8	16
142	Hydrothermal synthesis of a continuous zeolite Beta layer by optimization of time, temperature and heating rate of the precursor mixture. <i>Microporous and Mesoporous Materials</i> , 2007, 106, 95-106.	4.4	18
143	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.	6.2	40
144	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.	4.4	29

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145	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
146	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.	4.8	42
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