

Przemysław J Jodłowski

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

820
citations

567281

15
h-index

610901

24
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57
all docs

57
docs citations

57
times ranked

837
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ spectroscopic studies of methane catalytic combustion over Co, Ce, and Pd mixed oxides deposited on a steel surface. <i>Journal of Catalysis</i> , 2017, 350, 1-12.	6.2	70
2	Coupled engineering and chemical approach to the design of a catalytic structured reactor for combustion of VOCs: Cobalt oxide catalyst on knitted wire gauzes. <i>Chemical Engineering Journal</i> , 2012, 200-202, 329-337.	12.7	51
3	Copper exchanged ultrastable zeolite Y – A catalyst for NH ₃ -SCR of NO _x from stationary biogas engines. <i>Catalysis Today</i> , 2012, 191, 6-11.	4.4	37
4	Spectroscopic characterization of Co ₃ O ₄ catalyst doped with CeO ₂ and PdO for methane catalytic combustion. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 131, 696-701.	3.9	36
5	Heat transfer and flow resistance for stacked wire gauzes: Experiments and modelling. <i>International Journal of Heat and Fluid Flow</i> , 2012, 33, 101-108.	2.4	31
6	Cu SSZ-13 zeolite catalyst on metallic foam support for SCR of NO with ammonia: Catalyst layering and characterisation of active sites. <i>Catalysis Today</i> , 2016, 268, 142-149.	4.4	29
7	In situ deposition of M(M=Zn; Ni; Co)-MOF-74 over structured carriers for cyclohexene oxidation - Spectroscopic and microscopic characterisation. <i>Microporous and Mesoporous Materials</i> , 2020, 303, 110249.	4.4	28
8	Cracking the Chloroquine Conundrum: The Application of Defective UiO-66 Metal-Organic Framework Materials to Prevent the Onset of Heart Defects – In Vivo and In Vitro. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 312-323.	8.0	26
9	Metal Foams as Novel Catalyst Support in Environmental Processes. <i>Catalysts</i> , 2019, 9, 587.	3.5	25
10	Tuning the catalytic performance of Co/Mg-La system for ammonia synthesis via the active phase precursor introduction method. <i>Applied Catalysis A: General</i> , 2020, 598, 117553.	4.3	23
11	In Search of Effective UiO-66 Metal-Organic Frameworks for Artificial Kidney Application. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45149-45160.	8.0	23
12	Mass transport and kinetics in structured steel foam reactor with Cu-ZSM-5 catalyst for SCR of NO _x with ammonia. <i>Catalysis Today</i> , 2013, 216, 135-141.	4.4	20
13	Surface structure of cobalt, palladium, and mixed oxide-based catalysts and their activity in methane combustion studied by means of micro-Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 1871-1880.	2.5	19
14	Non-Noble Metal Oxide Catalysts for Methane Catalytic Combustion: Sonochemical Synthesis and Characterisation. <i>Nanomaterials</i> , 2017, 7, 174.	4.1	19
15	Catalytic Combustion of Low-Concentration Methane on Structured Catalyst Supports. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 10281-10291.	3.7	17
16	DeNO _x Abatement Modelling over Sonically Prepared Copper USY and ZSM5 Structured Catalysts. <i>Catalysts</i> , 2017, 7, 205.	3.5	16
17	Characterisation of well-adhered ZrO ₂ layers produced on structured reactors using the sonochemical sol-gel method. <i>Applied Surface Science</i> , 2018, 427, 563-574.	6.1	16
18	Development of cobalt catalyst supported on MgO-Ln ₂ O ₃ (Ln = La, Nd, Eu) mixed oxide systems for ammonia synthesis. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 6666-6678.	7.1	16

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19	New method of determination of intrinsic kinetic and mass transport parameters from typical catalyst activity tests: Problem of mass transfer resistance and diffusional limitation of reaction rate. <i>Chemical Engineering Science</i> , 2017, 162, 322-331.	3.8	15
20	DeNO _x Abatement over Sonically Prepared Iron-Substituted Y, USY and MFI Zeolite Catalysts in Lean Exhaust Gas Conditions. <i>Nanomaterials</i> , 2018, 8, 21.	4.1	15
21	In situ and operando spectroscopic studies of sonically aided catalysts for biogas exhaust abatement. <i>Journal of Molecular Structure</i> , 2016, 1126, 132-140.	3.6	14
22	Towards Methane Combustion Mechanism on Metal Oxides Supported Catalysts: Ceria Supported Palladium Catalysts. <i>Topics in Catalysis</i> , 2019, 62, 403-412.	2.8	14
23	A high performance barium-promoted cobalt catalyst supported on magnesium-lanthanum mixed oxide for ammonia synthesis. <i>RSC Advances</i> , 2021, 11, 14218-14228.	3.6	14
24	Short-Channel Structured Reactor as a Catalytic Afterburner. <i>Topics in Catalysis</i> , 2013, 56, 273-278.	2.8	13
25	Boosting the Catalytic Performance of Co/Mg/La Catalyst for Ammonia Synthesis by Selecting a Pre-Treatment Method. <i>Catalysts</i> , 2021, 11, 941.	3.5	13
26	A Comparison Between Monolithic and Wire Gauze Structured Catalytic Reactors for CH ₄ and CO Removal from Biogas-Fuelled Engine Exhaust. <i>Topics in Catalysis</i> , 2013, 56, 390-396.	2.8	12
27	Topography and morphology of multicomponent catalytic materials based on Co, Ce and Pd oxides deposited on metallic structured carriers studied by AFM/Raman interlaced microscopes. <i>Catalysis Today</i> , 2013, 216, 11-17.	4.4	12
28	Flow resistance and heat transfer in short channels of metallic monoliths: Experiments versus CFD. <i>International Journal of Heat and Mass Transfer</i> , 2017, 109, 778-785.	4.8	12
29	Antimicrobial Properties of Silver Cations Substituted to Faujasite Mineral. <i>Nanomaterials</i> , 2017, 7, 240.	4.1	12
30	Generalised two-dimensional correlation analysis of the Co, Ce, and Pd mixed oxide catalytic systems for methane combustion using in situ infrared spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 192, 202-210.	3.9	12
31	Design of Co, Cu and Fe-β-zeolite Catalysts for Selective Conversion of Lactic Acid into Acrylic Acid. <i>Catalysis Letters</i> , 2019, 149, 3349-3360.	2.6	12
32	Zirconium-Based Metal-Organic Frameworks as Acriflavine Cargos in the Battle against Coronaviruses: A Theoretical and Experimental Approach. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 28615-28627.	8.0	12
33	Far Field Combined AFM and Micro-Raman Imaging for Characterisation of Surface of Structured Catalysts: Example of Pd Doped CoO _x Catalysts on Pre-calcined Kanthal Steel. <i>Topics in Catalysis</i> , 2013, 56, 1088-1095.	2.8	10
34	Microstructured Reactor as a Pre-Turbo Catalytic Converter. <i>Topics in Catalysis</i> , 2013, 56, 384-389.	2.8	10
35	Interfacial heat and momentum transfer relation for porous media. <i>International Journal of Thermal Sciences</i> , 2018, 132, 42-51.	4.9	10
36	Sonochemically prepared hierarchical MFI-type zeolites as active catalysts for catalytic ethanol dehydration. <i>Ultrasonics Sonochemistry</i> , 2021, 74, 105581.	8.2	10

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37	Methane combustion modelling of wire gauze reactor coated with Co ₃ O ₄ @CeO ₂ , Co ₃ O ₄ @PdO catalysts. <i>Catalysis Today</i> , 2013, 216, 276-282.	4.4	9
38	Entrance effects on forced convective heat transfer in laminar flow through short hexagonal channels: Experimental and CFD study. <i>Chemical Engineering Journal</i> , 2021, 405, 126635.	12.7	9
39	Prospective Catalytic Structured Converters for NH ₃ -SCR of NO _x from Biogas Stationary Engines: In Situ Template-Free Synthesis of ZSM-5 Cu Exchanged Catalysts on Steel Carriers. <i>Topics in Catalysis</i> , 2013, 56, 56-61.	2.8	8
40	Experimental and CFD investigation of heat transfer and flow resistance in woven wire gauzes. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021, 163, 108364.	3.6	8
41	Experimental and Theoretical Studies of Sonically Prepared Cu@Y, Cu@USY and Cu@ZSM-5 Catalysts for SCR deNO _x . <i>Catalysts</i> , 2021, 11, 824.	3.5	8
42	Gas-phase flow resistance of metal foams: Experiments and modeling. <i>AIChE Journal</i> , 2017, 63, 1799-1803.	3.6	7
43	2D-COS of in situ ¹³ C-Raman and in situ IR spectra for structure evolution characterisation of NEP-deposited cobalt oxide catalyst during n-nonane combustion. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 186, 44-51.	3.9	7
44	Structured Foam Reactor with CuSSZ-13 Catalyst for SCR of NO _x with Ammonia. <i>Topics in Catalysis</i> , 2016, 59, 887-894.	2.8	6
45	Structure Effects on Activity of Plasma Deposited Cobalt Oxide Catalysts for VOC Combustion. <i>Topics in Catalysis</i> , 2017, 60, 318-325.	2.8	6
46	In Search of Governing Gas Flow Mechanism through Metal Solid Foams. <i>Catalysts</i> , 2017, 7, 124.	3.5	6
47	Analysis of Entropy Production in Structured Chemical Reactors: Optimization for Catalytic Combustion of Air Pollutants. <i>Entropy</i> , 2020, 22, 1017.	2.2	5
48	Mechanochemical Synthesis Method for Drugs Used in the Treatment of CNS Diseases under PTC Conditions. <i>Catalysts</i> , 2022, 12, 464.	3.5	4
49	Novel intense metallic monolith for automotive applications: Experimental versus numerical studies. <i>Comptes Rendus Chimie</i> , 2015, 18, 1030-1035.	0.5	3
50	Paper material containing Ag cations immobilised in faujasite: synthesis, characterisation and antibacterial effects. <i>Cellulose</i> , 2018, 25, 1353-1364.	4.9	3
51	Tuning the metathesis performance of a molybdenum oxide-based catalyst by silica support acidity modulation and high temperature pretreatment. <i>Catalysis Science and Technology</i> , 2022, 12, 2134-2145.	4.1	2
52	Heat and Momentum Transfer Analogies in Laminar Flow. <i>Journal of Heat Transfer</i> , 2019, 141, .	2.1	1
53	In Situ and Operando Techniques in Catalyst Characterisation and Design. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2019, , 333-359.	0.6	1
54	Momentum Transfer in Short-Channel Structures of Hexagonal Channel Cross-Section Shape: Experiments vs. CFD. <i>Catalysts</i> , 2021, 11, 1036.	3.5	1

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55	Silver and copper modified zeolite imidazole frameworks as sustainable methane storage systems. Journal of Cleaner Production, 2022, 352, 131638.	9.3	1
56	Design of structured reactor for biogas exhaust abatement. Chemical Engineering Journal, 2022, 446, 136940.	12.7	1