

Gianpiero Groppi

List of Publications by Year in descending order

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155
papers

7,428
citations

38742

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h-index

64796

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161
all docs

161
docs citations

161
times ranked

4056
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrified methane steam reforming on a washcoated SiSiC foam for low-carbon hydrogen production. <i>AIChE Journal</i> , 2023, 69, .	3.6	16
2	Packed-POCS with skin: A novel concept for the intensification of non-adiabatic catalytic processes demonstrated in the case of the Fischer-Tropsch synthesis. <i>Catalysis Today</i> , 2022, 383, 15-20.	4.4	19
3	Rich H ₂ catalytic oxidation as a novel methodology for the evaluation of mass transport properties of 3D printed catalyst supports. <i>Catalysis Today</i> , 2022, 383, 123-132.	4.4	15
4	H ₂ production by methane steam reforming over Rh/Al ₂ O ₃ catalyst packed in Cu foams: A strategy for the kinetic investigation in concentrated conditions. <i>Catalysis Today</i> , 2022, 387, 107-118.	4.4	20
5	Heat transfer intensification with packed open-cell foams in TSA processes for CO ₂ capture. <i>Chemical Engineering Journal</i> , 2022, 430, 131000.	12.7	7
6	Flexible Power & Biomass-to-Methanol plants: Design optimization and economic viability of the electrolysis integration. <i>Fuel</i> , 2022, 310, 122113.	6.4	18
7	Recent Advances in the Development of Highly Conductive Structured Supports for the Intensification of Non-adiabatic Gas-Solid Catalytic Processes: The Methane Steam Reforming Case Study. <i>Frontiers in Chemical Engineering</i> , 2022, 3, .	2.7	5
8	Numerical and Experimental Investigation of Pressure Drop in Periodic Open Cellular Structures for Intensification of Catalytic Processes. <i>ACS Engineering Au</i> , 2022, 2, 118-133.	5.1	8
9	The effect of catalyst formulation and Rh dispersion on the performance of a CPO fuel processor investigated by operando sampling technique and predictive modelling analysis. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 7150-7167.	7.1	0
10	H ₂ from biofuels and carriers: A kinetic investigation of formic acid decomposition on Rh/Al ₂ O ₃ in the annular reactor. <i>Chemical Engineering Research and Design</i> , 2022, 181, 458-472.	5.6	5
11	H ₂ from biofuels and carriers: gas-phase and surface ethanol conversion pathways on Rh/Al ₂ O ₃ investigated by annular microreactor coupled with Raman and FTIR spectroscopy. <i>Journal of Catalysis</i> , 2022, 413, 184-200.	6.2	5
12	Reactor modelling and design for sorption enhanced dimethyl ether synthesis. <i>Chemical Engineering Journal</i> , 2021, 404, 126573.	12.7	25
13	Catalytic partial oxidation of ethanol over Rh-coated monoliths investigated by the axially resolved sampling technique: Effect of H ₂ O co-feed. <i>Catalysis Today</i> , 2021, 367, 71-82.	4.4	6
14	Periodic open cellular structures (POCS) as enhanced catalyst supports: Optimization of the coating procedure and analysis of mass transport. <i>Applied Catalysis B: Environmental</i> , 2021, 283, 119651.	20.2	14
15	Model Analysis of the Role of Kinetics, Adsorption Capacity, and Heat and Mass Transfer Effects in Sorption Enhanced Dimethyl Ether Synthesis. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 6767-6783.	3.7	15
16	Preface to the Enrico Tronconi Festschrift. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 6355-6356.	3.7	0
17	A Fundamental Investigation of Gas/Solid Heat and Mass Transfer in Structured Catalysts Based on Periodic Open Cellular Structures (POCS). <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 10522-10538.	3.7	27
18	On the passivation of platinum promoted cobalt-based Fischer-Tropsch catalyst. <i>Catalysis Today</i> , 2020, 342, 79-87.	4.4	8

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19	Packed foams for the intensification of catalytic processes: assessment of packing efficiency and pressure drop using a combined experimental and numerical approach. <i>Chemical Engineering Journal</i> , 2020, 382, 122801.	12.7	35
20	Investigation of packed conductive foams as a novel reactor configuration for methane steam reforming. <i>Chemical Engineering Journal</i> , 2020, 391, 123494.	12.7	41
21	Adoption of 3D printed highly conductive periodic open cellular structures as an effective solution to enhance the heat transfer performances of compact Fischer-Tropsch fixed-bed reactors. <i>Chemical Engineering Journal</i> , 2020, 386, 123988.	12.7	49
22	Analysis of the effective thermal conductivity of isotropic and anisotropic Periodic Open Cellular Structures for the intensification of catalytic processes. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020, 158, 108169.	3.6	24
23	Model Analysis of the Effects of Active Phase Distribution at the Pellet Scale in Catalytic Reactors for the Direct Dimethyl Ether Synthesis. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 14252-14266.	3.7	13
24	Packed Periodic Open Cellular Structures – an Option for the Intensification of Non-Adiabatic Catalytic Processes. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020, 155, 108057.	3.6	19
25	Production and characterization of copper periodic open cellular structures made by 3D printing – replica technique. <i>Journal of Advanced Manufacturing and Processing</i> , 2020, 2, e10068.	2.4	7
26	FeCrAl as a Catalyst Support. <i>Chemical Reviews</i> , 2020, 120, 7516-7550.	47.7	59
27	A comparison between washcoated and packed copper foams for the intensification of methane steam reforming. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 1387-1392.	3.7	28
28	Thermal Deactivation of Rh/Al ₂ O ₃ in the Catalytic Partial Oxidation of Iso-Octane: Effect of Flow Rate. <i>Catalysts</i> , 2019, 9, 532.	3.5	12
29	Structured Catalysts-Based on Open-Cell Metallic Foams for Energy and Environmental Applications. <i>Studies in Surface Science and Catalysis</i> , 2019, , 303-327.	1.5	12
30	Electrodeposition of CeO ₂ and Pd-CeO ₂ on small pore size metallic foams: Selection of deposition parameters. <i>Catalysis Today</i> , 2019, 334, 37-47.	4.4	17
31	The pivotal role of an interconnected cellular conductive structure to manage heat removal in compact Fischer-Tropsch fixed-bed reactors. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 1917-1921.	3.7	6
32	Investigation of pressure drop in 3D replicated open-cell foams: Coupling CFD with experimental data on additively manufactured foams. <i>Chemical Engineering Journal</i> , 2019, 377, 120123.	12.7	67
33	Highly Conductive Structured Catalysts for the Intensification of Methanol Synthesis in Multitubular Reactors. , 2018, , 519-538.		3
34	A fundamental analysis of the influence of the geometrical properties on the effective thermal conductivity of open-cell foams. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 129, 181-189.	3.6	70
35	Cost-Efficient Aluminum Open-Cell Foams: Manufacture, Characterization, and Heat Transfer Measurements. <i>Advanced Engineering Materials</i> , 2018, 20, 1701032.	3.5	16
36	Metal Micro-Monoliths for the Kinetic Study and the Intensification of the Water Gas Shift Reaction. <i>Catalysts</i> , 2018, 8, 594.	3.5	11

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37	The Influence of the Washcoat Deposition Process on High Pore Density Open Cell Foams Activation for CO Catalytic Combustion. <i>Catalysts</i> , 2018, 8, 510.	3.5	18
38	Development of a Catalytic Fuel Processor for a 10 kW Combined Heat and Power System: Experimental and Modeling Analysis of the Steam Reforming Unit. <i>ChemEngineering</i> , 2018, 2, 5.	2.4	1
39	A fundamental investigation of gas/solid mass transfer in open-cell foams using a combined experimental and CFD approach. <i>Chemical Engineering Journal</i> , 2018, 352, 558-571.	12.7	61
40	Intensifying heat transfer in Fischer-Tropsch tubular reactors through the adoption of conductive packed foams. <i>Chemical Engineering Journal</i> , 2018, 349, 829-837.	12.7	78
41	A systematic procedure for the virtual reconstruction of open-cell foams. <i>Chemical Engineering Journal</i> , 2017, 315, 608-620.	12.7	47
42	Catalytic Partial Oxidation of Iso-octane over $\text{Rh}/\gamma\text{-Al}_2\text{O}_3$ in an Adiabatic Reactor: An Experimental and Modeling Study. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 4911-4919.	3.7	12
43	Development of a heat transport model for open-cell metal foams with high cell densities. <i>Chemical Engineering Journal</i> , 2017, 321, 432-446.	12.7	35
44	Catalytic partial oxidation of n-octane and iso-octane: Experimental and modeling results. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 24675-24688.	7.1	13
45	Analytical Geometrical Model of Open Cell Foams with Detailed Description of Strut-Node Intersection. <i>Chemie-Ingenieur-Technik</i> , 2017, 89, 915-925.	0.8	33
46	Chemical pathways in the partial oxidation and steam reforming of acetic acid over a $\text{Rh-Al}_2\text{O}_3$ catalyst. <i>Catalysis Today</i> , 2017, 289, 162-172.	4.4	17
47	Analysis of the Impact of Gas-Phase Chemistry in Adiabatic CPO Reactors by Axially Resolved Measurements. <i>Advances in Chemical Engineering</i> , 2017, 50, 161-201.	0.9	0
48	Highly conductive "packed foams": A new concept for the intensification of strongly endo- and exo-thermic catalytic processes in compact tubular reactors. <i>Catalysis Today</i> , 2016, 273, 178-186.	4.4	47
49	Annular reactor testing and Raman surface characterization of the CPO of i-octane and n-octane on Rh based catalyst. <i>Chemical Engineering Journal</i> , 2016, 294, 9-21.	12.7	12
50	On the performance of a Co-based catalyst supported on modified $\gamma\text{-Al}_2\text{O}_3$ during Fischer-Tropsch synthesis in the presence of co-fed water. <i>Catalysis Science and Technology</i> , 2016, 6, 6431-6440.	4.1	22
51	Numerical simulation of heat transfer in the near-wall region of tubular reactors packed with metal open-cell foams. <i>Chemical Engineering Journal</i> , 2015, 264, 268-279.	12.7	49
52	Structured Catalytic Reactors for Selective Oxidations. , 2014, , 943-997.		2
53	Washcoating and chemical testing of a commercial $\text{Cu/ZnO/Al}_2\text{O}_3$ catalyst for the methanol synthesis over copper open-cell foams. <i>Applied Catalysis A: General</i> , 2014, 481, 96-103.	4.3	42
54	Methods for the catalytic activation of metallic structured substrates. <i>Catalysis Science and Technology</i> , 2014, 4, 2846-2870.	4.1	118

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55	Hierarchical Refinement of Microkinetic Models: Assessment of the Role of the WGS and r-WGS Pathways in CH ₄ Partial Oxidation on Rh. Industrial & Engineering Chemistry Research, 2014, 53, 10914-10928.	3.7	30
56	A Kinetic Investigation of the Catalytic Partial Oxidation of Propylene over a Rh/Al ₂ O ₃ Catalyst. Industrial & Engineering Chemistry Research, 2014, 53, 1804-1815.	3.7	10
57	Optimization of compact multitubular fixed-bed reactors for the methanol synthesis loaded with highly conductive structured catalysts. Chemical Engineering Journal, 2014, 255, 257-265.	12.7	38
58	Annular reactor testing and Raman surface characterization in the CPO of methane and propylene. Applied Catalysis A: General, 2014, 474, 149-158.	4.3	12
59	Effect of pressure in the autothermal catalytic partial oxidation of CH ₄ and C ₃ H ₈ : Spatially resolved temperature and composition profiles. Applied Catalysis A: General, 2014, 469, 52-64.	4.3	21
60	Structured catalysts for non-adiabatic applications. Current Opinion in Chemical Engineering, 2014, 5, 55-67.	7.8	123
61	4th International conference on structured catalysts and reactors, ICOSCAR-4, Beijing, China, September 25-27, 2013. Catalysis Today, 2013, 216, 1.	4.4	3
62	Enhanced Methane Conversion Under Periodic Operation Over a Pd/Rh Based TWC in the Exhausts from NGVs. Topics in Catalysis, 2013, 56, 372-377.	2.8	33
63	Heat transfer properties of metal foam supports for structured catalysts: Wall heat transfer coefficient. Catalysis Today, 2013, 216, 121-134.	4.4	87
64	Accurate prediction of the effective radial conductivity of highly conductive honeycomb monoliths with square channels. Chemical Engineering Journal, 2013, 223, 224-230.	12.7	37
65	Enabling small-scale methanol synthesis reactors through the adoption of highly conductive structured catalysts. Catalysis Today, 2013, 215, 176-185.	4.4	52
66	Activation of metallic open-cell foams via washcoat deposition of Ni/MgAl ₂ O ₄ catalysts for steam reforming reaction. Catalysis Today, 2012, 197, 256-264.	4.4	39
67	Catalytic combustion of methane on BaZr(1-x)MxO ₃ perovskites synthesised by a modified citrate method. Catalysis Today, 2012, 197, 236-242.	4.4	12
68	A kinetic analysis of the partial oxidation of C ₃ H ₈ over a 2% Rh/Al ₂ O ₃ catalyst in annular microreactor. Catalysis Today, 2012, 197, 265-280.	4.4	30
69	Experimental and Modeling Analysis of the Thermal Behavior of an Autothermal C ₃ H ₈ Catalytic Partial Oxidation Reformer. Industrial & Engineering Chemistry Research, 2012, 51, 7573-7583.	3.7	22
70	An appraisal of the heat transfer properties of metallic open-cell foams for strongly exo-/endo-thermic catalytic processes in tubular reactors. Chemical Engineering Journal, 2012, 198-199, 512-528.	12.7	142
71	Conductive Monolithic Catalysts: Development and Industrial Pilot Tests for the Oxidation of <i>o</i> -Xylene to Phthalic Anhydride. Industrial & Engineering Chemistry Research, 2012, 51, 7590-7596.	3.7	35
72	The influence of ceria and other rare earth promoters on palladium-based methane combustion catalysts. Catalysis Today, 2012, 180, 124-130.	4.4	55

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73	Effect of periodic lean/rich switch on methane conversion over a Ce ³⁺ -Zr promoted Pd-Rh/Al ₂ O ₃ catalyst in the exhausts of natural gas vehicles. Applied Catalysis B: Environmental, 2012, 119-120, 91-99.	20.2	62
74	In situ Raman and in situ XRD analysis of PdO reduction and Pd ⁰ oxidation supported on γ -Al ₂ O ₃ catalyst under different atmospheres. Physical Chemistry Chemical Physics, 2011, 13, 4607.	2.8	190
75	Flooding of the diffusion layer in a polymer electrolyte fuel cell: Experimental and modelling analysis. Journal of Power Sources, 2011, 196, 10632-10639.	7.8	23
76	Optimal Design of A CPO-Reformer of Light Hydrocarbons with Honeycomb Catalyst: Effect of Frontal Heat Dispersions on the Temperature Profiles. Topics in Catalysis, 2011, 54, 866-872.	2.8	20
77	Monolithic catalysts with high thermal conductivity for the Fischer-Tropsch synthesis in tubular reactors. Chemical Engineering Journal, 2011, 171, 1294-1307.	12.7	92
78	Synergy of Homogeneous and Heterogeneous Chemistry Probed by In-situ Spatially Resolved Measurements of Temperature and Composition. Angewandte Chemie - International Edition, 2011, 50, 3943-3946.	13.8	47
79	Optimal design of a CH ₄ CPO-reformer with honeycomb catalyst: Combined effect of catalyst load and channel size on the surface temperature profile. Catalysis Today, 2011, 171, 79-83.	4.4	43
80	Surface temperature profiles in CH ₄ CPO over honeycomb supported Rh catalyst probed with in situ optical pyrometer. Applied Catalysis A: General, 2011, 402, 41-49.	4.3	29
81	Microkinetic analysis of CH ₄ CPO tests with CO ₂ -diluted feed streams. Applied Catalysis A: General, 2011, 391, 350-359.	4.3	13
82	Coating method for Ni/MgAl ₂ O ₄ deposition on metallic foams. Studies in Surface Science and Catalysis, 2010, , 653-656.	1.5	8
83	Experimental and theoretical study of gas/solid mass transfer in metallic filters as supports for micro-structured catalysts. Chemical Engineering Science, 2010, 65, 392-397.	3.8	16
84	Activation process of Pd/Al ₂ O ₃ catalysts for CH ₄ combustion by reduction/oxidation cycles in CH ₄ -containing atmosphere. Journal of Catalysis, 2010, 275, 218-227.	6.2	43
85	Microkinetic modeling of spatially resolved autothermal CH ₄ catalytic partial oxidation experiments over Rh-coated foams. Journal of Catalysis, 2010, 275, 270-279.	6.2	79
86	Effect of Pt/Pd ratio on catalytic activity and redox behavior of bimetallic Pt-Pd/Al ₂ O ₃ catalysts for CH ₄ combustion. Applied Catalysis B: Environmental, 2010, 95, 303-311.	20.2	75
87	Structure and morphology of Pd/Al ₂ O ₃ and Pd/CeO ₂ /Al ₂ O ₃ combustion catalysts in Pd-PdO transformation hysteresis. Applied Catalysis A: General, 2010, 390, 1-10.	4.3	110
88	Study of sulfur poisoning on Pd/Al ₂ O ₃ and Pd/CeO ₂ /Al ₂ O ₃ methane combustion catalysts. Catalysis Today, 2010, 155, 59-65.	4.4	45
89	Role of Pd loading and dispersion on redox behaviour and CH ₄ combustion activity of Al ₂ O ₃ supported catalysts. Catalysis Today, 2010, 155, 18-26.	4.4	64
90	Simulation of a structured catalytic reactor for exothermic methanation reactions producing synthetic natural gas. Computer Aided Chemical Engineering, 2010, , 691-696.	0.5	21

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91	A $C_{>1}$ microkinetic model for methane conversion to syngas on Rh/Al_2O_3 . <i>AIChE Journal</i> , 2009, 55, 993-1008.	3.6	95
92	Dominant Reaction Pathways in the Catalytic Partial Oxidation of CH_4 on Rh. <i>Topics in Catalysis</i> , 2009, 52, 1983-1988.	2.8	52
93	An experimental investigation of Fischer-Tropsch synthesis over washcoated metallic structured supports. <i>Applied Catalysis A: General</i> , 2009, 370, 93-101.	4.3	93
94	Experimental and Modeling Analysis of Methane Partial Oxidation: Transient and Steady-State Behavior of Rh-Coated Honeycomb Monoliths. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 3825-3836.	3.7	64
95	Effect of alternate CH_4 -reducing/lean combustion treatments on the reactivity of fresh and S-poisoned Pd/CeO ₂ /Al ₂ O ₃ catalysts. <i>Applied Catalysis B: Environmental</i> , 2008, 80, 335-342.	20.2	48
96	Two-dimensional detailed modeling of fuel-rich CH_4 combustion over Rh/Al_2O_3 catalysts. <i>Applied Catalysis B: Environmental</i> , 2008, 80, 335-342.	20.2	48
97	Testing in annular micro-reactor and characterization of supported Rh nanoparticles for the catalytic partial oxidation of methane: Effect of the preparation procedure. <i>Applied Catalysis B: Environmental</i> , 2008, 83, 96-109.	20.2	41
98	Catalytic partial oxidation of methane over a 4% Rh/Al ₂ O ₃ catalyst Part I: Kinetic study in annular reactor. <i>Journal of Catalysis</i> , 2008, 255, 241-258.	6.2	132
99	Catalytic partial oxidation of methane over a 4% Rh/Al ₂ O ₃ catalyst Part II: Role of CO ₂ reforming. <i>Journal of Catalysis</i> , 2008, 255, 259-268.	6.2	95
100	Steam and dry reforming of methane on Rh: Microkinetic analysis and hierarchy of kinetic models. <i>Journal of Catalysis</i> , 2008, 259, 211-222.	6.2	223
101	Catalytic partial oxidation of CH_4 and C_3H_8 : experimental and modeling study of the dynamic and steady state behavior of a pilot-scale reformer. <i>Studies in Surface Science and Catalysis</i> , 2007, 167, 319-324.	1.5	5
102	State of Supported Rhodium Nanoparticles for Methane Catalytic Partial Oxidation (CPO): FT-IR Studies. <i>Langmuir</i> , 2007, 23, 10419-10428.	3.5	38
103	The effect of CeO ₂ on the dynamics of PdO transformation over Pd/Al ₂ O ₃ combustion catalysts. <i>Catalysis Communications</i> , 2007, 8, 1263-1266.	3.3	81
104	Generalized Correlation for Gas/Solid Mass-Transfer Coefficients in Metallic and Ceramic Foams. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 3955-3958.	3.7	60
105	Role of gas-phase chemistry in the rich combustion of H_2 and CO over a Rh/Al ₂ O ₃ catalyst in annular reactor. <i>Chemical Engineering Science</i> , 2007, 62, 4992-4997.	3.8	15
106	Conditioning of Rh/Al ₂ O ₃ catalysts for H_2 production via CH_4 partial oxidation at high space velocity. <i>Applied Catalysis B: Environmental</i> , 2007, 70, 515-524.	20.2	28
107	Experimental and modeling analysis of the effect of catalyst aging on the performance of a short contact time adiabatic CH_4 -CPO reactor. <i>Catalysis Today</i> , 2007, 129, 372-379.	4.4	26
108	Regeneration of S-poisoned Pd/Al ₂ O ₃ catalysts for the combustion of methane. <i>Catalysis Today</i> , 2006, 117, 569-576.	4.4	52

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109	Development of a molecular kinetic scheme for methane partial oxidation over a Rh/Al ₂ O ₃ catalyst. Journal of Catalysis, 2006, 241, 1-13.	6.2	78
110	Washcoating method for Pd/Al ₂ O ₃ deposition on metallic foams. Applied Catalysis B: Environmental, 2006, 62, 121-131.	20.2	137
111	Steady-state and transient analysis of a CH ₄ -catalytic partial oxidation reformer. AIChE Journal, 2006, 52, 3234-3245.	3.6	45
112	Comparison among structured and packed-bed reactors for the catalytic partial oxidation of CH ₄ at short contact times. Catalysis Today, 2005, 105, 709-717.	4.4	88
113	Honeycomb Supports with High Thermal Conductivity for Gas/Solid Chemical Processes. ChemInform, 2005, 36, no.	0.0	1
114	A study of methane partial oxidation in annular reactor: activity of Rh/Al ₂ O ₃ and Rh/ZrO ₂ catalysts. Catalysis Today, 2005, 99, 89-98.	4.4	66
115	Honeycomb supports with high thermal conductivity for gas/solid chemical processes. Catalysis Today, 2005, 105, 297-304.	4.4	96
116	Heat Transfer Characterization of Metallic Foams. Industrial & Engineering Chemistry Research, 2005, 44, 9078-9085.	3.7	145
117	Mass-Transfer Characterization of Metallic Foams as Supports for Structured Catalysts. Industrial & Engineering Chemistry Research, 2005, 44, 4993-5002.	3.7	324
118	An investigation of methane partial oxidation kinetics over Rh-supported catalysts. Studies in Surface Science and Catalysis, 2004, , 163-168.	1.5	15
119	Monolithic catalysts with "high conductivity" honeycomb supports for gas/solid exothermic reactions: characterization of the heat-transfer properties. Chemical Engineering Science, 2004, 59, 4941-4949.	3.8	79
120	Combustion of CH ₄ over a PdO/ZrO ₂ catalyst: an example of kinetic study under severe conditions. Catalysis Today, 2003, 77, 335-346.	4.4	25
121	Ni based mixed oxide materials for CH ₄ oxidation under redox cycle conditions. Journal of Molecular Catalysis A, 2003, 204-205, 637-646.	4.8	125
122	Kinetic measurements of CH ₄ combustion over a 10% PdO/ZrO ₂ catalyst using an annular flow microreactor. Catalysis Today, 2003, 83, 115-129.	4.4	33
123	The deposition of Al ₂ O ₃ layers on ceramic and metallic supports for the preparation of structured catalysts. Catalysis Today, 2001, 69, 307-314.	4.4	253
124	High-temperature combustion of CH ₄ over PdO/Al ₂ O ₃ : kinetic measurements in a structured annular reactor. Chemical Engineering Science, 2001, 56, 831-839.	3.8	38
125	Simulation of structured catalytic reactors with enhanced thermal conductivity for selective oxidation reactions. Catalysis Today, 2001, 69, 63-73.	4.4	54
126	Structured reactors for kinetic measurements in catalytic combustion. Chemical Engineering Journal, 2001, 82, 57-71.	12.7	54

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127	Preparation, characterisation and catalytic activity of pure and substituted La-hexaaluminate systems for high temperature catalytic combustion. <i>Applied Catalysis B: Environmental</i> , 2001, 35, 137-148.	20.2	84
128	Development of novel structured catalytic reactors for highly exothermic reactions. <i>Studies in Surface Science and Catalysis</i> , 2000, 130, 2747-2752.	1.5	7
129	A study on the thermal behavior of structured plate-type catalysts with metallic supports for gas/solid exothermic reactions. <i>Chemical Engineering Science</i> , 2000, 55, 6021-6036.	3.8	58
130	Preparation, characterization and reactivity of Me-hexaaluminate (Me=Mn, Co, Fe, Ni, Cr) catalysts in the catalytic combustion of NH ₃ -containing gasified biomasses. <i>Catalysis Today</i> , 2000, 59, 191-204.	4.4	56
131	Characteristics of metallic structured catalysts with high thermal conductivity. <i>Catalysis Today</i> , 2000, 60, 57-62.	4.4	31
132	Design of novel monolith catalyst supports for gas/solid reactions with heat exchange. <i>Chemical Engineering Science</i> , 2000, 55, 2161-2171.	3.8	136
133	Partial oxidation of methane to synthesis gas over Rh-hexaaluminate-based catalysts. <i>Catalysis Letters</i> , 2000, 65, 49-56.	2.6	24
134	Development and Application of Mathematical Models of Pilot-Scale Catalytic Combustors Fueled by Gasified Biomasses. <i>Industrial & Engineering Chemistry Research</i> , 2000, 39, 4106-4113.	3.7	7
135	Mathematical Models of Catalytic Combustors. <i>Catalysis Reviews - Science and Engineering</i> , 1999, 41, 227-254.	12.9	69
136	Potentialities and draw-backs of the experimental approach to the study of high T and high GHSV kinetics. <i>Applied Catalysis A: General</i> , 1999, 187, 49-60.	4.3	22
137	Catalytic combustion for the production of energy. <i>Catalysis Today</i> , 1999, 54, 165-180.	4.4	168
138	Oxidation of NH ₃ and NO _x formation During the catalytic combustion of gasified biomasses fuels over Mn-hexaaluminate and alumina-supported Pd catalysts. <i>Applied Catalysis B: Environmental</i> , 1999, 21, 89-101.	20.2	23
139	Title is missing!. <i>Catalysis Letters</i> , 1998, 53, 91-95.	2.6	15
140	On the Crystal Structure and Cation Valence of Mn in Mn-Substituted Ba- γ -Al ₂ O ₃ . <i>Journal of Catalysis</i> , 1998, 179, 597-605.	6.2	70
141	Theoretical analysis of mass and heat transfer in monolith catalysts with triangular channels. <i>Chemical Engineering Science</i> , 1997, 52, 3521-3526.	3.8	55
142	Preparation and characterisation of SrTi _{1-x} Zr _x Mn _y O ₃ solid solution powders in relation to their use in combustion catalysis. <i>Applied Catalysis B: Environmental</i> , 1997, 12, 325-337.	20.2	23
143	Ba _x Fe _{1-x} Al ₁₂ O ₁₉ System for High-Temperature Catalytic Combustion: Physico-Chemical Characterization and Catalytic Activity. <i>Journal of Catalysis</i> , 1997, 168, 95-103.	6.2	62
144	Continuous vs. discrete models of nonadiabatic monolith catalysts. <i>AIChE Journal</i> , 1996, 42, 2382-2387.	3.6	72

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145	Investigations on catalytic combustors for gas turbine applications through mathematical model analysis. <i>Applied Catalysis A: General</i> , 1996, 138, 177-197.	4.3	19
146	The Crystal Structure of Ba- γ -Alumina Materials for High-Temperature Catalytic Combustion. <i>Journal of Solid State Chemistry</i> , 1995, 114, 326-336.	2.9	55
147	FT-IR Skeletal Powder Spectra of Ba- γ -Aluminas with Compositions BaAl ₉ O _{14.5} , BaAl ₁₂ O ₁₉ , and BaAl ₁₄ O ₂₂ and of Ba-Ferrite, BaFe ₁₂ O ₁₉ . <i>Journal of Solid State Chemistry</i> , 1995, 117, 8-15.	2.9	44
148	A comparison of lumped and distributed models of monolith catalytic combustors. <i>Chemical Engineering Science</i> , 1995, 50, 2705-2715.	3.8	156
149	Surface characterization of Ba- γ -alumina. <i>Catalysis Letters</i> , 1995, 31, 65-74.	2.6	18
150	Preparation and characterization of hexaaluminate-based materials for catalytic combustion. <i>Applied Catalysis A: General</i> , 1993, 104, 101-108.	4.3	165
151	Modelling of catalytic combustors for gas turbine applications. <i>Catalysis Today</i> , 1993, 17, 237-249.	4.4	24
152	Mechanistic kinetic treatment of the chain growth process in higher alcohol synthesis over a Cs-promoted Zn-Cr-O catalyst. <i>Journal of Catalysis</i> , 1992, 135, 99-114.	6.2	17
153	Addition of propene to carbon monoxide-hydrogen in higher alcohol synthesis over unpromoted and caesium-promoted ZnCrO catalysts. <i>Applied Catalysis A: General</i> , 1991, 79, 181-190.	4.3	0
154	Catalytic Combustion for the Production of Energy. , 0, , 363-392.		0
155	A Numerical Investigation of Electrically-Heated Methane Steam Reforming Over Structured Catalysts. <i>Frontiers in Chemical Engineering</i> , 0, 3, .	2.7	18