

# Stefania Specchia

## List of Publications by Year in descending order

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142  
papers

5,446  
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53660

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118652

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145  
all docs

145  
docs citations

145  
times ranked

5415  
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of a Fe-N-C catalyst for the oxygen reduction reaction in direct methanol fuel cell: Cathode formulation optimization and short-term durability. <i>Applied Catalysis B: Environmental</i> , 2017, 201, 253-265.	10.8	152
2	Kinetics of Oxygen Electroreduction on Me-N-C (Me = Fe, Co, Cu) Catalysts in Acidic Medium: Insights on the Effect of the Transition Metal. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17796-17817.	1.5	128
3	Fe-N/C catalysts for oxygen reduction reaction supported on different carbonaceous materials. Performance in acidic and alkaline direct alcohol fuel cells. <i>Applied Catalysis B: Environmental</i> , 2017, 205, 637-653.	10.8	115
4	Activity and degradation study of an Fe-N-C catalyst for ORR in Direct Methanol Fuel Cell (DMFC). <i>Applied Catalysis B: Environmental</i> , 2020, 262, 118217.	10.8	113
5	CO-selective methanation over Ru- $\gamma$ -Al <sub>2</sub> O <sub>3</sub> catalysts in H <sub>2</sub> -rich gas for PEM FC applications. <i>Chemical Engineering Science</i> , 2010, 65, 590-596.	1.9	109
6	Optimization of Pd catalysts supported on Co <sub>3</sub> O <sub>4</sub> for low-temperature lean combustion of residual methane. <i>Applied Catalysis B: Environmental</i> , 2017, 206, 712-725.	10.8	107
7	Removal of NO <sub>3</sub> <sup>-</sup> from water by electrochemical reduction in different reactor configurations. <i>Applied Catalysis B: Environmental</i> , 2006, 66, 40-50.	10.8	95
8	Oxidative reforming of diesel fuel over LaCoO <sub>3</sub> perovskite derived catalysts: Influence of perovskite synthesis method on catalyst properties and performance. <i>Applied Catalysis B: Environmental</i> , 2011, 105, 276-288.	10.8	93
9	Syngas production by methane oxy-steam reforming on Me/CeO <sub>2</sub> (Me = Rh, Pt, Ni) catalyst lined on cordierite monoliths. <i>Applied Catalysis B: Environmental</i> , 2015, 162, 551-563.	10.8	93
10	Surface chemistry and reactivity of ceria-zirconia-supported palladium oxide catalysts for natural gas combustion. <i>Journal of Catalysis</i> , 2009, 263, 134-145.	3.1	86
11	Photocatalytic reduction of Hg(II) on TiO <sub>2</sub> and Ag/TiO <sub>2</sub> prepared by the sol-gel and impregnation methods. <i>Desalination</i> , 2011, 270, 241-247.	4.0	85
12	Estimation of hydrogen crossover through Nafion <sup>®</sup> membranes in PEMFCs. <i>Journal of Power Sources</i> , 2011, 196, 1833-1839.	4.0	80
13	Mesoporous carbons supported non-noble metal Fe-N X electrocatalysts for PEM fuel cell oxygen reduction reaction. <i>Journal of Applied Electrochemistry</i> , 2013, 43, 159-169.	1.5	78
14	H <sub>2</sub> -rich syngas production through mixed residual biomass and HDPE waste via integrated catalytic gasification and tar cracking plus bio-char upgrading. <i>Chemical Engineering Journal</i> , 2017, 308, 578-587.	6.6	78
15	Non-noble Fe-NX electrocatalysts supported on the reduced graphene oxide for oxygen reduction reaction. <i>Carbon</i> , 2014, 76, 386-400.	5.4	77
16	Recent trends on the application of PGM-free catalysts at the cathode of anion exchange membrane fuel cells. <i>Current Opinion in Electrochemistry</i> , 2018, 9, 240-256.	2.5	75
17	Activity of Co-N multi walled carbon nanotubes electrocatalysts for oxygen reduction reaction in acid conditions. <i>Journal of Power Sources</i> , 2015, 278, 296-307.	4.0	73
18	Diesel fuel processor for PEM fuel cells: Two possible alternatives (ATR versus SR). <i>Journal of Power Sources</i> , 2006, 154, 379-385.	4.0	71

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19	Fe-N supported on graphitic carbon nano-networks grown from cobalt as oxygen reduction catalysts for low-temperature fuel cells. <i>Applied Catalysis B: Environmental</i> , 2015, 166-167, 75-83.	10.8	69
20	Influence of different transition metals on the properties of Me-N-C (Me=Fe, Co, Cu, Zn) catalysts synthesized using SBA-15 as tubular nano-silica reactor for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 22570-22588.	3.8	67
21	Innovative carbon-free low content Pt catalyst supported on Mo-doped titanium suboxide (Ti <sub>3</sub> O <sub>5</sub> -Mo) for stable and durable oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2017, 201, 419-429.	10.8	66
22	Comparative Study on Steam and Oxidative Steam Reforming of Methane with Noble Metal Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 15428-15436.	1.8	65
23	Performance evaluation and comparison of fuel processors integrated with PEM fuel cell based on steam or autothermal reforming and on CO preferential oxidation or selective methanation. <i>Applied Energy</i> , 2015, 143, 138-153.	5.1	64
24	BIOFEAT: Biodiesel fuel processor for a vehicle fuel cell auxiliary power unit. <i>Journal of Power Sources</i> , 2005, 149, 8-14.	4.0	63
25	Fuel processing activities at European level: A panoramic overview. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 17953-17968.	3.8	63
26	Hybrid ordered mesoporous carbons doped with tungsten trioxide as supports for Pt electrocatalysts for methanol oxidation reaction. <i>Electrochimica Acta</i> , 2013, 94, 80-91.	2.6	61
27	In situ combustion synthesis of perovskite catalysts for efficient and clean methane premixed metal burners. <i>Chemical Engineering Science</i> , 2004, 59, 5091-5098.	1.9	59
28	A micro-structured 5kW complete fuel processor for iso-octane as hydrogen supply system for mobile auxiliary power units Part II: Development of water-gas shift and preferential oxidation catalysts reactors and assembly of the fuel processor. <i>Chemical Engineering Journal</i> , 2008, 138, 474-489.	6.6	57
29	Kinetic Studies on Pd/Ce <sub>x</sub> Zr <sub>1-x</sub> O <sub>2</sub> Catalyst for Methane Combustion. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 11101-11111.	1.8	56
30	Solution Combustion Synthesis as intriguing technique to quickly produce performing catalysts for specific applications. <i>Studies in Surface Science and Catalysis</i> , 2010, 175, 59-67.	1.5	56
31	Electrochemical Performance of Pt-Based Catalysts Supported on Different Ordered Mesoporous Carbons (Pt/OMCs) for Oxygen Reduction Reaction. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 7500-7509.	1.8	56
32	CO selective methanation in H <sub>2</sub> -rich gas for fuel cell application: Microchannel reactor performance with Ru-based catalysts. <i>Chemical Engineering Journal</i> , 2011, 167, 616-621.	6.6	55
33	Application of a non-noble Fe-N-C catalyst for oxygen reduction reaction in an alkaline direct ethanol fuel cell. <i>Renewable Energy</i> , 2018, 115, 226-237.	4.3	54
34	Pd/Co <sub>3</sub> O <sub>4</sub> -based catalysts prepared by solution combustion synthesis for residual methane oxidation in lean conditions. <i>Catalysis Today</i> , 2015, 257, 66-71.	2.2	53
35	Catalytic Performance of Rhodium-Based Catalysts for CO Preferential Oxidation in H <sub>2</sub> -Rich Gases. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 5304-5312.	1.8	52
36	Catalytic partial oxidation of CH <sub>4</sub> with nickel-lanthanum-based catalysts. <i>Catalysis Today</i> , 2011, 171, 84-96.	2.2	52

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37	Optimal compositional and structural design of a LaMnO <sub>3</sub> /ZrO <sub>2</sub> /Pd-based catalyst for methane combustion. <i>Catalysis Today</i> , 2005, 100, 275-281.	2.2	51
38	Ru-based catalysts for CO selective methanation reaction in H <sub>2</sub> -rich gases. <i>Catalysis Today</i> , 2011, 164, 282-287.	2.2	51
39	Varying the morphology of Fe-N-C electrocatalysts by templating Iron Phthalocyanine precursor with different porous SiO <sub>2</sub> to promote the Oxygen Reduction Reaction. <i>Electrochimica Acta</i> , 2015, 177, 43-50.	2.6	51
40	Concept Study on ATR and SR Fuel Processors for Liquid Hydrocarbons. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 5298-5307.	1.8	49
41	MCFC-based marine APU: Comparison between conventional ATR and cracking coupled with SR integrated inside the stack pressurized vessel. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 2026-2042.	3.8	49
42	Polypyrrole-derived Fe-Co-N-C Catalyst for the Oxygen Reduction Reaction: Performance in Alkaline Hydrogen and Ethanol Fuel Cells. <i>ChemElectroChem</i> , 2018, 5, 1954-1965.	1.7	49
43	Highly active platinum supported on Mo-doped titanium nanotubes suboxide (Pt/TNTS-Mo) electrocatalyst for oxygen reduction reaction in PEMFC. <i>Renewable Energy</i> , 2018, 120, 209-219.	4.3	48
44	Production of hydrogen by methane dry reforming over ruthenium-nickel based catalysts deposited on Al <sub>2</sub> O <sub>3</sub> , MgAl <sub>2</sub> O <sub>4</sub> , and YSZ. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 25706-25716.	3.8	48
45	Catalytic performance of Au-TiO <sub>2</sub> catalysts prepared by deposition-precipitation for CO preferential oxidation in H <sub>2</sub> -rich gases. <i>Chemical Engineering Journal</i> , 2007, 134, 45-50.	6.6	47
46	Compact direct methanol fuel cells for portable application. <i>Journal of Power Sources</i> , 2008, 176, 460-467.	4.0	46
47	Production of hydrogen by methane dry reforming: A study on the effect of cerium and lanthanum on Ni/MgAl <sub>2</sub> O <sub>4</sub> catalyst performance. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 21392-21408.	3.8	44
48	Performance analysis of Fe-N-C catalyst for DMFC cathodes: Effect of water saturation in the cathodic catalyst layer. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 22605-22618.	3.8	42
49	Analysis of Ru/La-Al <sub>2</sub> O <sub>3</sub> catalyst loading on alumina monoliths and controlling regimes in methane steam reforming. <i>Chemical Engineering Journal</i> , 2018, 334, 1792-1807.	6.6	42
50	Solution combustion synthesis for preparation of structured catalysts: A mini-review on process intensification for energy applications and pollution control. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2017, 26, 166-186.	0.2	41
51	Syngas production by steam and oxy-steam reforming of biogas on monolith-supported CeO <sub>2</sub> -based catalysts. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 11731-11744.	3.8	41
52	A hybrid Pt/NbO/CNTs catalyst with high activity and durability for oxygen reduction reaction in PEMFC. <i>Renewable Energy</i> , 2020, 154, 913-924.	4.3	40
53	Catalytically modified fly-ash filters for NO <sub>x</sub> reduction with NH <sub>3</sub> . <i>Chemical Engineering Science</i> , 1996, 51, 5289-5297.	1.9	39
54	Optimal Microstructural Design of a Catalytic Premixed FeCrAlloy Fiber Burner for Methane Combustion. <i>Industrial &amp; Engineering Chemistry Research</i> , 2004, 43, 1990-1998.	1.8	39

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55	Methane oxy-steam reforming reaction: Performances of Ru/ $\gamma$ -Al <sub>2</sub> O <sub>3</sub> catalysts loaded on structured cordierite monoliths. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 18592-18603.	3.8	38
56	A fuel cell catalyst support based on doped titanium suboxides with enhanced conductivity, durability and fuel cell performance. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14805-14815.	5.2	38
57	High efficiency Thermo-Electric power generator. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 1385-1398.	3.8	37
58	Catalytic combustion of residual methane on alumina monoliths and open cell foams coated with Pd/Co <sub>3</sub> O <sub>4</sub> . <i>Chemical Engineering Journal</i> , 2017, 326, 339-349.	6.6	37
59	Effects of using two transition metals in the synthesis of non-noble electrocatalysts for oxygen reduction reaction in direct methanol fuel cell. <i>Electrochimica Acta</i> , 2018, 266, 220-232.	2.6	37
60	Conceptual design and selection of a biodiesel fuel processor for a vehicle fuel cell auxiliary power unit. <i>Journal of Power Sources</i> , 2005, 145, 683-690.	4.0	36
61	Fuel processor based on syngas production via short contact time catalytic partial oxidation reactors. <i>Applied Catalysis B: Environmental</i> , 2007, 70, 525-531.	10.8	36
62	Catalytic Performance of Pd/Co <sub>3</sub> O <sub>4</sub> on SiC and ZrO <sub>2</sub> Open Cell Foams for Process Intensification of Methane Combustion in Lean Conditions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 6625-6636.	1.8	36
63	Benchmark comparison of Co <sub>3</sub> O <sub>4</sub> spinel-structured oxides with different morphologies for oxygen evolution reaction under alkaline conditions. <i>Journal of Applied Electrochemistry</i> , 2017, 47, 295-304.	1.5	36
64	Oxygen evolution catalysis in alkaline conditions over hard templated nickel-cobalt based spinel oxides. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 27910-27918.	3.8	36
65	Mapping transition metal-MN <sub>4</sub> macrocyclic complex catalysts performance for the critical reactivity descriptors. <i>Current Opinion in Electrochemistry</i> , 2021, 27, 100683.	2.5	36
66	The relationship between the structure and ethanol oxidation activity of Pt-Cu/C alloy catalysts. <i>Electrochimica Acta</i> , 2017, 230, 58-72.	2.6	35
67	CO Methanation Over Ru/Al <sub>2</sub> O <sub>3</sub> Catalysts: Effects of Chloride Doping on Reaction Activity and Selectivity. <i>Topics in Catalysis</i> , 2011, 54, 1042-1053.	1.3	34
68	The use of different types of reduced graphene oxide in the preparation of Fe-N-C electrocatalysts: capacitive behavior and oxygen reduction reaction activity in alkaline medium. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 3507-3523.	1.2	34
69	Optimization of a Fe-N-C electrocatalyst supported on mesoporous carbon functionalized with polypyrrole for oxygen reduction reaction under both alkaline and acidic conditions. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 19610-19628.	3.8	34
70	Mapping transition metal-nitrogen-carbon catalyst performance on the critical descriptor diagram. <i>Current Opinion in Electrochemistry</i> , 2021, 27, 100687.	2.5	34
71	Combining Catalytic Combustion and Steam Reforming in a Novel Multifunctional Reactor for On-Board Hydrogen Production from Middle Distillates. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 9422-9430.	1.8	33
72	Smart synthesis of hollow core mesoporous shell carbons (HCMSC) as effective catalyst supports for methanol oxidation and oxygen reduction reactions. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 3087-3096.	1.2	33

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73	Engineered biochar derived from pyrolyzed waste tea as a carbon support for Fe-N-C electrocatalysts for the oxygen reduction reaction. <i>Electrochimica Acta</i> , 2022, 412, 140128.	2.6	33
74	Studies on Au catalysts for water gas shift reaction. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 7750-7758.	3.8	32
75	Influence of membrane-type and flow field design on methanol crossover on a single-cell DMFC: An experimental and multi-physics modeling study. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 27995-28010.	3.8	31
76	Insights into the effect of catalyst loading on methane steam reforming and controlling regime for metallic catalytic monoliths. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 11778-11792.	3.8	31
77	Activity of rhodium-based catalysts for CO preferential oxidation in H <sub>2</sub> -rich gases. <i>Topics in Catalysis</i> , 2007, 45, 15-19.	1.3	30
78	Thermodynamic analysis of autothermal reforming of methane via entropy maximization: Hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 8257-8270.	3.8	30
79	Stable and methanol tolerant Pt/TiO <sub>x</sub> -C electrocatalysts for the oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14529-14539.	3.8	30
80	Palladium/perovskite/zirconia catalytic premixed fiber burners for efficient and clean natural gas combustion. <i>Catalysis Today</i> , 2006, 117, 427-432.	2.2	29
81	Modeling of an APU system based on MCFC. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 3393-3401.	3.8	29
82	Effect of S-compounds on Pd over LaMnO <sub>3</sub> ·2ZrO <sub>2</sub> and CeO <sub>2</sub> ·2ZrO <sub>2</sub> catalysts for CH <sub>4</sub> combustion. <i>Catalysis Today</i> , 2009, 143, 86-93.	2.2	29
83	Biodiesel fuel processor for APU applications. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 4495-4499.	3.8	29
84	CO preferential oxidation in H <sub>2</sub> -rich gas for fuel cell applications: Microchannel reactor performance with Rh-based catalyst. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 3045-3048.	3.8	28
85	Final step for CO syngas clean-up: Comparison between CO-PROX and CO-SMET processes. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 18109-18119.	3.8	28
86	Morphology and dispersion of nanostructured manganese-cobalt spinel on various carbon supports: the effect on the oxygen reduction reaction in alkaline media. <i>Catalysis Science and Technology</i> , 2018, 8, 642-655.	2.1	28
87	Methane Steam Reforming on the Pt/CeO <sub>2</sub> Catalyst: Effect of Daily Start-Up and Shut-Down on Long-Term Stability of the Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 16395-16406.	1.8	27
88	Gold-Supported Catalysts for Medium Temperature-Water Gas Shift Reaction. <i>Topics in Catalysis</i> , 2009, 52, 688-692.	1.3	23
89	Development of a lab scale catalytic metal plate-channels reactor for CO preferential oxidation. <i>Chemical Engineering Journal</i> , 2009, 154, 246-250.	6.6	23
90	Modeling Study on the Performance of an Integrated APU Fed with Hydrocarbon Fuels. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 6803-6809.	1.8	23

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91	The Use of C-MnO <sub>2</sub> as Hybrid Precursor Support for a Pt/C-MnxO <sub>1+x</sub> Catalyst with Enhanced Activity for the Methanol Oxidation Reaction (MOR). <i>Catalysts</i> , 2015, 5, 1399-1416.	1.6	23
92	Bismuth molybdates prepared by solution combustion synthesis for the partial oxidation of propene. <i>Catalysis Today</i> , 2015, 257, 11-17.	2.2	23
93	Robust Co <sub>3</sub> O <sub>4</sub>   γ-Al <sub>2</sub> O <sub>3</sub>   cordierite structured catalyst for N <sub>2</sub> O abatement – Validation of the SCS method for active phase synthesis and deposition. <i>Chemical Engineering Journal</i> , 2019, 377, 120088.	6.6	23
94	Non-Markovian diffusion equation and diffusion in a porous catalyst. <i>Chemical Engineering Journal</i> , 2011, 172, 1083-1087.	6.6	22
95	Catalytic activity and long-term stability of palladium oxide catalysts for natural gas combustion: Pd supported on LaMnO <sub>3</sub> -ZrO <sub>2</sub> . <i>Applied Catalysis B: Environmental</i> , 2009, 92, 285-293.	10.8	21
96	Development of a planar 1/4 DMFC operating at room temperature. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 8088-8093.	3.8	21
97	Experimental studies on Nafion® 112 single PEM-FCs exposed to freezing conditions. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 8070-8081.	3.8	21
98	3D multi-physics modeling of a gas diffusion electrode for oxygen reduction reaction for electrochemical energy conversion in PEM fuel cells. <i>Applied Energy</i> , 2016, 175, 435-450.	5.1	21
99	The Effect of Fe, Co, and Ni Structural Promotion of Cryptomelane (KMn <sub>8</sub> O <sub>16</sub> ) on the Catalytic Activity in Oxygen Evolution Reaction. <i>Electrocatalysis</i> , 2018, 9, 762-769.	1.5	21
100	Alumina-supported nickel catalysts for catalytic partial oxidation of methane in short-contact time reactors. <i>Catalysis Today</i> , 2011, 176, 340-346.	2.2	20
101	Facing the catalytic combustion of CH <sub>4</sub> /H <sub>2</sub> mixtures into monoliths. <i>Chemical Engineering Journal</i> , 2011, 167, 622-633.	6.6	20
102	Effects of the current density distribution on a single-cell DMFC by tuning the anode catalyst in layers of gradual loadings: Modelling and experimental approach. <i>Chemical Engineering Journal</i> , 2017, 322, 722-741.	6.6	20
103	Rh/CeO <sub>2</sub> Thin Catalytic Layer Deposition on Alumina Foams: Catalytic Performance and Controlling Regimes in Biogas Reforming Processes. <i>Catalysts</i> , 2018, 8, 448.	1.6	20
104	PET waste as organic linker source for the sustainable preparation of MOF-derived methane dry reforming catalysts. <i>Materials Advances</i> , 2021, 2, 2750-2758.	2.6	20
105	High specific surface area supports for highly active Rh catalysts: Syngas production from methane at high space velocity. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 11755-11765.	3.8	19
106	Reactivity of Mixed Iron–Cobalt Spinel in the Lean Methane Combustion. <i>Topics in Catalysis</i> , 2017, 60, 1370-1379.	1.3	19
107	Aging of Premixed Metal Fiber Burners for Natural Gas Combustion Catalyzed with Pd/LaMnO <sub>3</sub> ·2ZrO <sub>2</sub> . <i>Industrial &amp; Engineering Chemistry Research</i> , 2007, 46, 6666-6673.	1.8	18
108	Surface chemistry and reactivity of Pd/BaCeO <sub>3</sub> ·2ZrO <sub>2</sub> catalyst upon sulphur hydrothermal treatment for the total oxidation of methane. <i>Applied Catalysis A: General</i> , 2015, 505, 183-192.	2.2	18



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109	The Effect of the Preparation Method of Pd-Doped Cobalt Spinel on the Catalytic Activity in Methane Oxidation Under Lean Fuel Conditions. <i>Topics in Catalysis</i> , 2017, 60, 333-341.	1.3	18
110	Analysis of heat and mass transfer limitations for the combustion of methane emissions on PdO/Co <sub>3</sub> O <sub>4</sub> coated on ceramic open cell foams. <i>Chemical Engineering Journal</i> , 2021, 405, 126970.	6.6	18
111	Effects of synthesis parameters on the properties and photocatalytic activity of the magnetic catalyst TiO <sub>2</sub> /CoFe <sub>2</sub> O <sub>4</sub> applied to selenium photoreduction. <i>Journal of Water Process Engineering</i> , 2021, 42, 102163.	2.6	18
112	MgO and Nb <sub>2</sub> O <sub>5</sub> oxides used as supports for Ru-based catalysts for the methane steam reforming reaction. <i>Catalysis Today</i> , 2015, 257, 122-130.	2.2	17
113	Thermal oxygen activation followed by in situ work function measurements over carbon-supported noble metal-based catalysts. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 16648-16656.	3.8	17
114	Natural gas combustion catalysts for environmental-friendly domestic burners. <i>Catalysis Today</i> , 2009, 147, S99-S106.	2.2	16
115	Catalytic combustion of CH <sub>4</sub> and H <sub>2</sub> into micro-monoliths. <i>Catalysis Today</i> , 2010, 157, 440-445.	2.2	16
116	Experimental Insights into the Coupling of Methane Combustion and Steam Reforming in a Catalytic Plate Reactor in Transient Mode. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 196-209.	1.8	15
117	Influence of the preparation method on Pt <sub>3</sub> Cu/C electrocatalysts for the oxygen reduction reaction. <i>Electrochimica Acta</i> , 2015, 177, 51-56.	2.6	14
118	Effect of the Catalyst Load on Syngas Production in Short Contact Time Catalytic Partial Oxidation Reactors. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 1010-1017.	1.8	13
119	Synthesis optimization of carbon-supported ZrO <sub>2</sub> nanoparticles from different organometallic precursors. <i>Journal of Nanostructure in Chemistry</i> , 2017, 7, 133-147.	5.3	12
120	Design Thinking as a Framework for the Design of a Sustainable Waste Sterilization System: The Case of Piedmont Region, Italy. <i>Electronics (Switzerland)</i> , 2021, 10, 2665.	1.8	12
121	Ageing mechanisms on PdO <sub>x</sub> -based catalysts for natural gas combustion in premixed burners. <i>Chemical Engineering Science</i> , 2010, 65, 186-192.	1.9	10
122	Ammonia selective sensors based on cobalt spinel prepared by combustion synthesis. <i>Solid State Ionics</i> , 2019, 337, 91-100.	1.3	10
123	Combined silicon carbide and zirconia open cell foams for the process intensification of catalytic methane combustion in lean conditions: Impact on heat and mass transfer. <i>Chemical Engineering Journal</i> , 2022, 429, 132448.	6.6	10
124	Compact Direct Methanol Fuel Cells for Portable Applications: A Modeling Study. <i>International Journal of Chemical Reactor Engineering</i> , 2005, 3, .	0.6	9
125	Influence of the preparation method on the performance of Rh catalysts on CeO <sub>2</sub> for WGS reaction. <i>Catalysis Today</i> , 2011, 176, 336-339.	2.2	9
126	Effect of the Co <sub>3</sub> O <sub>4</sub> load on the performance of PdO/Co <sub>3</sub> O <sub>4</sub> /ZrO <sub>2</sub> open cell foam catalysts for the lean combustion of methane: Kinetic and mass transfer regimes. <i>Catalysis Today</i> , 2022, 383, 247-258.	2.2	9



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127	Effect of Freezing Conditions on PEM-FC Components. ECS Transactions, 2009, 17, 359-368.	0.3	8
128	Non-noble Metal (NNM) Catalysts for Fuel Cells: Tuning the Activity by a Rational Step-by-Step Single Variable Evolution. , 2016, , 69-101.		8
129	Combustion of CH <sub>4</sub> /H <sub>2</sub> /Air Mixtures in Catalytic Microreactors. ChemPhysChem, 2009, 10, 783-786.	1.0	7
130	Rh-based catalysts for syngas production via SCT-CPO reactors. Catalysis Today, 2010, 155, 101-107.	2.2	7
131	Hydrocarbons valorisation to cleaner fuels: H <sub>2</sub> -rich gas production via fuel processors. Catalysis Today, 2011, 176, 191-196.	2.2	7
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