

Theophilos Ioannides

List of Publications by Year in descending order

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papers

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87723

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all docs

97
docs citations

97
times ranked

5350
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective CO oxidation over CuO-CeO ₂ catalysts prepared via the urea-nitrate combustion method. Applied Catalysis A: General, 2003, 244, 155-167.	2.2	542
2	A comparative study of Pt/Al ₂ O ₃ , Au/Fe ₂ O ₃ and CuO-CeO ₂ catalysts for the selective oxidation of carbon monoxide in excess hydrogen. Catalysis Today, 2002, 75, 157-167.	2.2	532
3	VOC oxidation over MnOx-CeO ₂ catalysts prepared by a combustion method. Applied Catalysis B: Environmental, 2008, 84, 303-312.	10.8	460
4	Influence of the preparation method on the performance of CuO-CeO ₂ catalysts for the selective oxidation of CO. Applied Catalysis B: Environmental, 2005, 56, 87-93.	10.8	382
5	Manganese-lanthanum oxides modified with silver for the catalytic combustion of methane. Journal of Catalysis, 2004, 227, 282-296.	3.1	350
6	Evaluation of ⁵⁵ MnO ₂ as a VOC Removal Catalyst: Comparison with a Noble Metal Catalyst. Journal of Catalysis, 1998, 178, 214-225.	3.1	299
7	VOC oxidation over Cu-CeO ₂ catalysts prepared by a combustion method. Applied Catalysis B: Environmental, 2009, 89, 295-302.	10.8	273
8	Cu-CeO ₂ mixed oxide catalysts for the selective oxidation of carbon monoxide in excess hydrogen. Catalysis Letters, 2001, 73, 33-40.	1.4	256
9	Combustion of non-halogenated volatile organic compounds over group VIII metal catalysts. Applied Catalysis B: Environmental, 1997, 13, 175-184.	10.8	253
10	Effect of synthesis parameters on catalytic properties of CuO-CeO ₂ . Applied Catalysis B: Environmental, 2006, 67, 1-11.	10.8	247
11	Combined steam reforming of methanol over Cu-Mn spinel oxide catalysts. Journal of Catalysis, 2007, 251, 7-20.	3.1	191
12	Charge Transfer in Metal Catalysts Supported on Doped TiO ₂ : A Theoretical Approach Based on Metal-Semiconductor Contact Theory. Journal of Catalysis, 1996, 161, 560-569.	3.1	162
13	Performance of doped Pt/TiO ₂ (W ₆) catalysts for combustion of volatile organic compounds (VOCs). Applied Catalysis B: Environmental, 1998, 15, 75-92.	10.8	158
14	Water-gas shift activity of doped Pt/CeO ₂ catalysts. Chemical Engineering Journal, 2007, 134, 16-22.	6.6	153
15	Catalytic performance and characterization of Au/doped-ceria catalysts for the preferential CO oxidation reaction. Journal of Catalysis, 2008, 256, 237-247.	3.1	145
16	Thermodynamic analysis of ethanol processors for fuel cell applications. Journal of Power Sources, 2001, 92, 17-25.	4.0	115
17	Complete oxidation of ethanol over alkali-promoted Pt/Al ₂ O ₃ catalysts. Applied Catalysis B: Environmental, 2006, 65, 62-69.	10.8	106
18	A comparative study of ceria-supported gold and copper oxide catalysts for preferential CO oxidation reaction. Chemical Engineering Journal, 2006, 124, 41-45.	6.6	102

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19	Effect of dopants on the performance of CuO/CeO ₂ catalysts in methanol steam reforming. <i>Applied Catalysis B: Environmental</i> , 2007, 69, 226-234.	10.8	102
20	Steam reforming of methanol over copper/manganese spinel oxide catalysts. <i>Catalysis Communications</i> , 2005, 6, 497-501.	1.6	99
21	In situ combustion synthesis of structured Cu-Ce-O and Cu-Mn-O catalysts for the production and purification of hydrogen. <i>Applied Catalysis B: Environmental</i> , 2006, 66, 168-174.	10.8	96
22	Production of hydrogen via combined steam reforming of methanol over CuO/CeO ₂ catalysts. <i>Catalysis Communications</i> , 2004, 5, 231-235.	1.6	95
23	CO-free hydrogen production over Au/CeO ₂ /Fe ₂ O ₃ catalysts: Part 1. Impact of the support composition on the performance for the preferential CO oxidation reaction. <i>Applied Catalysis B: Environmental</i> , 2011, 101, 256-265.	10.8	88
24	Effect of additives on the WGS activity of combustion synthesized CuO/CeO ₂ catalysts. <i>Catalysis Communications</i> , 2007, 8, 101-106.	1.6	81
25	Catalytic isobutane dehydrogenation in a dense silica membrane reactor. <i>Journal of Membrane Science</i> , 1993, 77, 207-220.	4.1	68
26	Preferential CO oxidation in H ₂ -rich gas mixtures over Au/doped ceria catalysts. <i>Catalysis Today</i> , 2008, 138, 239-243.	2.2	65
27	Application of Sorbents for Oil Spill Cleanup Focusing on Natural-Based Modified Materials: A Review. <i>Molecules</i> , 2020, 25, 4522.	1.7	65
28	High-quality laser-assisted biomass-based turbostratic graphene for high-performance supercapacitors. <i>Carbon</i> , 2021, 172, 750-761.	5.4	65
29	Steady-state isotopic transient kinetic analysis of steam reforming of methanol over Cu-based catalysts. <i>Applied Catalysis B: Environmental</i> , 2009, 88, 490-496.	10.8	61
30	Influence of the Carrier on the Interaction of H ₂ and CO with Supported Rh. <i>Journal of Catalysis</i> , 1993, 140, 353-369.	3.1	60
31	VOC removal: investigation of ethylacetate oxidation over supported Pt catalysts. <i>Catalysis Today</i> , 1999, 54, 81-92.	2.2	59
32	Catalytic incineration of volatile organic compounds Present in industrial waste streams. <i>Applied Thermal Engineering</i> , 1998, 18, 1005-1012.	3.0	56
33	Biomass-derived graphene-like materials as active electrodes for supercapacitor applications: A critical review. <i>Chemical Engineering Journal</i> , 2022, 446, 137191.	6.6	53
34	Reforming methanol to electricity in a high temperature PEM fuel cell. <i>Applied Catalysis B: Environmental</i> , 2009, 90, 628-632.	10.8	52
35	Highly active copper catalyst for low-temperature water-gas shift reaction prepared via a Cu-Mn spinel oxide precursor. <i>Applied Catalysis A: General</i> , 2013, 451, 184-191.	2.2	50
36	The Interaction of Benzene and Toluene with Rh Dispersed on SiO ₂ , Al ₂ O ₃ , and TiO ₂ Carriers. <i>Journal of Catalysis</i> , 1993, 143, 175-186.	3.1	45

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37	Hydrogen production from methanol over combustion-synthesized noble metal/ceria catalysts. <i>Chemical Engineering Journal</i> , 2009, 154, 274-280.	6.6	45
38	Application of a dense silica membrane reactor in the reactions of dry reforming and partial oxidation of methane. <i>Catalysis Letters</i> , 1996, 36, 165-169.	1.4	44
39	In situ hydrogen utilization in an internal reforming methanol fuel cell. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 18103-18108.	3.8	40
40	TPD and TPSR study of CO interaction with CuO/CeO ₂ catalysts. <i>Journal of Molecular Catalysis A</i> , 2008, 296, 47-53.	4.8	39
41	Development of an internal reforming alcohol fuel cell: Concept, challenges and opportunities. <i>Chemical Engineering Journal</i> , 2011, 176-177, 95-101.	6.6	36
42	Enhancing water vapor permeability in mixed matrix polypropylene membranes through carbon nanotubes dispersion. <i>Journal of Membrane Science</i> , 2017, 524, 576-584.	4.1	36
43	New Pyridinium Type Poly(Ionic Liquids) as Membranes for CO ₂ Separation. <i>Polymers</i> , 2018, 10, 912.	2.0	35
44	Adsorption and reaction of CO on CuO/CeO ₂ catalysts prepared by the combustion method. <i>Catalysis Letters</i> , 2007, 116, 15-22.	1.4	33
45	CO tolerance of Pt and Rh catalysts: effect of CO in the gas-phase oxidation of H ₂ over Pt and Rh supported catalysts. <i>Applied Catalysis B: Environmental</i> , 2005, 56, 77-86.	10.8	31
46	Performance evaluation of a proof-of-concept 70ÂW internal reforming methanol fuel cell system. <i>Journal of Power Sources</i> , 2016, 307, 875-882.	4.0	31
47	Deep insight into Zr/Fe combination for successful Pt/CeO ₂ /Al ₂ O ₃ WGS catalyst doping. <i>Catalysis Science and Technology</i> , 2017, 7, 1556-1564.	2.1	30
48	Study of CO ₂ adsorption on a commercial CuO/ZnO/Al ₂ O ₃ catalyst. <i>Catalysis Today</i> , 2020, 357, 495-502.	2.2	29
49	Could an efficient WGS catalyst be useful in the CO-PrOx reaction?. <i>Applied Catalysis B: Environmental</i> , 2014, 150-151, 554-563.	10.8	28
50	CO Oxidation over Rh Dispersed on SiO ₂ , Al ₂ O ₃ and TiO ₂ : Kinetic Study and Oscillatory Behavior. <i>Journal of Catalysis</i> , 1995, 156, 265-272.	3.1	27
51	Pyridinium based Poly(Ionic Liquids) membranes with exceptional high water vapor permeability and selectivity. <i>Separation and Purification Technology</i> , 2020, 251, 117412.	3.9	27
52	Development of a novel heat-integrated wall reactor for the partial oxidation of methane to synthesis gas. <i>Catalysis Today</i> , 1998, 46, 71-81.	2.2	26
53	Efficiency of a solid polymer fuel cell operating on ethanol. <i>Journal of Power Sources</i> , 2000, 91, 150-156.	4.0	26
54	Novel doubly-promoted catalysts for the lean NO _x reduction by H ₂ +CO: Pd(K)/Al ₂ O ₃ -(TiO ₂). <i>Applied Catalysis B: Environmental</i> , 2006, 68, 59-67.	10.8	26

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55	Effects of Altrivalent Cation Doping of TiO ₂ on H ₂ , and CO Adsorption on Supported Rh. Journal of Catalysis, 1994, 145, 479-490.	3.1	25
56	Catalytic partial oxidation of methane in a novel heat-integrated wall reactor. Catalysis Letters, 1997, 47, 183-188.	1.4	23
57	CuMnOx catalysts for internal reforming methanol fuel cells: Application aspects. International Journal of Hydrogen Energy, 2012, 37, 16739-16747.	3.8	23
58	Insights on the effective incorporation of a foam-based methanol reformer in a high temperature polymer electrolyte membrane fuel cell. Journal of Power Sources, 2015, 296, 335-343.	4.0	23
59	Kinetic model of the partial oxidation of methane to synthesis gas over Ru/TiO ₂ catalyst. AIChE Journal, 2000, 46, 1260-1270.	1.8	21
60	PROX reaction over CuO/CeO ₂ catalyst with reformat gas containing methanol. Catalysis Communications, 2008, 9, 1656-1660.	1.6	21
61	Kinetics of CO and H ₂ oxidation over CuO/CeO ₂ and CuO catalysts. Chemical Engineering Journal, 2011, 176-177, 14-21.	6.6	19
62	Transfer of metals in the liquids of electronic cigarettes. Inhalation Toxicology, 2020, 32, 240-248.	0.8	19
63	Effects of Altrivalent Cation Doping of TiO ₂ on Kinetic Parameters of CO Hydrogenation and CO Oxidation on Supported Rh. Journal of Catalysis, 1994, 145, 491-500.	3.1	18
64	Complete Oxidation of Methane over Palladium Supported on Alumina Modified with Calcium, Lanthanum, and Cerium Ions. Journal of Natural Gas Chemistry, 2007, 16, 342-348.	1.8	17
65	Influence of carrier doping on catalytic performance of titanium dioxide supported platinum. Applied Catalysis, 1989, 46, 297-312.	1.1	16
66	Synthesis of Cobalt-Based Nanomaterials from Organic Precursors. , 0, , .		16
67	Metal-doped carbons from polyurea-crosslinked alginate aerogel beads. Materials Advances, 2021, 2, 2684-2699.	2.6	16
68	Laser-assisted transformation of a phenol-based resin to high quality graphene-like powder for supercapacitor applications. Chemical Engineering Journal, 2022, 430, 133179.	6.6	16
69	Synthesis and characterization of poly(ethylene oxide) based copolymer membranes for efficient gas/vapor separation: Effect of PEO content and chain length. Journal of Membrane Science, 2021, 632, 119353.	4.1	15
70	Alcohol reforming on cobalt-based catalysts prepared from organic salt precursors. International Journal of Hydrogen Energy, 2012, 37, 16375-16381.	3.8	13
71	Hydrogen-rich gas generation from alcohols over cobalt-based catalysts for fuel cell feeding. Fuel Processing Technology, 2016, 148, 341-349.	3.7	13
72	Synthesis of Imidazolium based PILs and Investigation of Their Blend Membranes for Gas Separation. Membranes, 2019, 9, 164.	1.4	12

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73	Influence of Carrier Doping on the Interaction of Benzene and Toluene with Supported Rhodium. <i>Journal of Catalysis</i> , 1995, 152, 331-340.	3.1	11
74	Synthesis of transparent silica aerogels using tetraalkylammonium fluoride catalysts. <i>Journal of Sol-Gel Science and Technology</i> , 2009, 49, 347-354.	1.1	11
75	Effects of dopants on performance of metal crystallites 3. Influence on kinetic parameters in CO/H ₂ and CO/H ₂ reactions. <i>Journal of Catalysis</i> , 1989, 116, 590-594.	3.1	10
76	Effects of degree of mixing on quantitative interpretation of TPD spectra. <i>Journal of Catalysis</i> , 1989, 120, 157-169.	3.1	10
77	Hydrogen Formation via Steam Reforming of Ethanol Over Cu/ZnO Catalyst Modified with Nickel, Cobalt and Manganese. <i>Catalysis Letters</i> , 2009, 128, 443-448.	1.4	10
78	Isotopic transient study of methanol decomposition over noble metal/ceria catalysts. <i>Catalysis Communications</i> , 2009, 10, 682-686.	1.6	9
79	Intrinsic Activity of MnO _x -CeO ₂ Catalysts in Ethanol Oxidation. <i>Catalysts</i> , 2017, 7, 339.	1.6	8
80	Synthesis and properties of Polymeric ionic liquids (PILs) bearing hydrophilic PEO groups: Evaluation of gas and water vapor separation performance. <i>Separation and Purification Technology</i> , 2022, 280, 119790.	3.9	8
81	Comment on: "nm-sized metal particles on a semiconductor surface, Schottky model, etc." by V.P. Zhdanov [<i>Surf. Sci.</i> 512 (2002) L331-L334]. <i>Surface Science</i> , 2003, 530, 216-218.	0.8	7
82	Dimethyl Ether Hydrolysis over WO ₃ /Al ₂ O ₃ Supported Catalysts. <i>Catalysts</i> , 2022, 12, 396.	1.6	7
83	Kinetic behaviour of the Ru/TiO ₂ catalyst in the reaction of partial oxidation of methane. <i>Studies in Surface Science and Catalysis</i> , 1998, , 801-806.	1.5	6
84	Non Noble Metal Electrocatalysts for High Temperature PEM Fuel Cells. <i>ECS Transactions</i> , 2009, 25, 181-189.	0.3	6
85	Steam reforming of methanol over cobalt catalysts: Effect of cobalt oxidation state. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 5251-5255.	3.8	6
86	Synthesis gas formation by catalytic partial oxidation of methane in a heat-integrated wall reactor. <i>Studies in Surface Science and Catalysis</i> , 1998, 119, 411-416.	1.5	5
87	Methanol Reforming over Cobalt Catalysts Prepared from Fumarate Precursors: TPD Investigation. <i>Catalysts</i> , 2016, 6, 33.	1.6	5
88	Electrochemical Performance of Sn/C Nanocomposites Interphased with Varying Mixtures of Ethyl-, Dimethyl- and Vinylene-Carbonate. <i>Journal of the Electrochemical Society</i> , 2016, 163, A1013-A1019.	1.3	5
89	Modification of the catalytic properties of supported noble metal catalysts by carrier doping. <i>Chemical Engineering and Technology</i> , 1995, 18, 25-32.	0.9	4
90	Carbon Membranes Prepared from Poly (Furfuryl Alcohol) Precursors: Effect of FeCl ₃ Additive. <i>Journal of Carbon Research</i> , 2020, 6, 53.	1.4	4

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91	Flame Retardant Nano-Structured Fillers from Huntite/Hydromagnesite Minerals. <i>Nanomaterials</i> , 2022, 12, 2433.	1.9	4
92	Steam reforming of acetol and hydroxyacetaldehyde over natural calcite catalysts. <i>Catalysis Today</i> , 2020, 355, 781-787.	2.2	3
93	Dimethyl Ether Oxidation over Copper Ferrite Catalysts. <i>Catalysts</i> , 2022, 12, 604.	1.6	3
94	Effect of Graphitization Catalyst on Structure and Performance of Carbon Membranes. <i>Procedia Engineering</i> , 2012, 44, 1361-1362.	1.2	0
95	Water Vapor Transport Enhancement Through Isotactic Polypropylene by Incorporating Multiwalled Carbon Nanotubes. <i>Powder Metallurgy and Metal Ceramics</i> , 2015, 53, 634-642.	0.4	0
96	Preface for SI: Catalysis for Energy and Environmental Applications. <i>Catalysis Today</i> , 2020, 355, 645-646.	2.2	0