

Carlo Lucarelli

List of Publications by Year in descending order

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40
papers

1,008
citations

471509

17
h-index

434195

31
g-index

41
all docs

41
docs citations

41
times ranked

1338
citing authors

#	ARTICLE	IF	CITATIONS
1	Conversion of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid over Au-based catalysts: Optimization of active phase and metal-support interaction. <i>Applied Catalysis B: Environmental</i> , 2015, 163, 520-530.	20.2	177
2	Insights into the reaction mechanism for 5-hydroxymethylfurfural oxidation to FDCA on bimetallic Pd-Au nanoparticles. <i>Applied Catalysis A: General</i> , 2015, 504, 408-419.	4.3	90
3	Vapor phase Beckmann rearrangement using high silica zeolite catalyst. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 1842-1847.	2.8	56
4	Examples of heterogeneous catalytic processes for fine chemistry. <i>Green Chemistry</i> , 2011, 13, 1941.	9.0	55
5	Hard-template preparation of Au/CeO ₂ mesostructured catalysts and their activity for the selective oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid. <i>Microporous and Mesoporous Materials</i> , 2016, 226, 466-475.	4.4	54
6	Evidence for the presence of alternative mechanisms in the oxidation of cyclohexanone to adipic acid with oxygen, catalysed by Keggin polyoxometalates. <i>Applied Catalysis A: General</i> , 2011, 391, 118-124.	4.3	47
7	Total oxidation of volatile organic compounds on Au/FeOx catalysts supported on mesoporous SBA-15 silica. <i>Applied Catalysis A: General</i> , 2011, 400, 54-60.	4.3	38
8	Exploiting H-transfer as a tool for the catalytic reduction of bio-based building blocks: the gas-phase production of 2-methylfurfural using a FeVO ₄ catalyst. <i>Green Chemistry</i> , 2017, 19, 4412-4422.	9.0	35
9	Catalytic Biorefining of Ethanol from Wine Waste to Butanol and Higher Alcohols: Modeling the Life Cycle Assessment and Process Design. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 224-237.	6.7	35
10	The oxygen-assisted transformation of propane to COx/H ₂ through combined oxidation and WGS reactions catalyzed by vanadium oxide-based catalysts. <i>Catalysis Today</i> , 2006, 116, 313-323.	4.4	29
11	Ni-based catalysts to produce synthesis gas by combined reforming of clean biogas. <i>Applied Catalysis A: General</i> , 2019, 582, 117087.	4.3	25
12	Pt-Sn/Al ₂ O ₃ and Pt-Sn/Na-Al ₂ O ₃ catalysts for hydrogen production by dehydrogenation of Jet A-1 fuel: Characterisation and preliminary activity tests. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 5972-5982.	7.1	24
13	A cascade mechanism for a simple reaction: The gas-phase methylation of phenol with methanol. <i>Journal of Catalysis</i> , 2019, 370, 447-460.	6.2	23
14	Mg/Ga mixed-oxide catalysts for phenol methylation: Outstanding performance in 2,4,6-trimethylphenol synthesis with co-feeding of water. <i>Applied Catalysis A: General</i> , 2018, 552, 86-97.	4.3	22
15	On-board H ₂ generation by catalytic dehydrogenation of hydrocarbon mixtures or fuels. <i>Catalysis Today</i> , 2011, 175, 504-508.	4.4	20
16	Adsorbent-Adsorbate Interactions in the Oxidation of HMF Catalyzed by Ni-Based MOFs: A DRIFT and FT-IR Insight. <i>Journal of Physical Chemistry C</i> , 2016, 120, 15310-15321.	3.1	20
17	Boosting the guerbet reaction: A cooperative catalytic system for the efficient bio-ethanol refinery to second-generation biofuels. <i>Journal of Catalysis</i> , 2022, 405, 47-59.	6.2	19
18	Efficient and ecofriendly route for the solvent-free synthesis of piperonal and aromatic aldehydes using Au/CeO ₂ catalyst. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 314-323.	20.2	18

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19	Novel Cu-Zn-Al catalysts obtained from hydrotalcite-type precursors for middle-temperature water-gas shift applications. <i>Applied Clay Science</i> , 2018, 155, 103-110.	5.2	18
20	Tandem Hydrogenation/Hydrogenolysis of Furfural to 2-Methylfuran over a Fe/Mg/O Catalyst: Structure-Activity Relationship. <i>Catalysts</i> , 2019, 9, 895.	3.5	18
21	Biogas to Syngas through the Combined Steam/Dry Reforming Process: An Environmental Impact Assessment. <i>Energy & Fuels</i> , 2021, 35, 4224-4236.	5.1	18
22	The control of catalytic performance of rutile-type Sn/V/Nb/Sb mixed oxides, catalysts for propane ammoxidation to acrylonitrile. <i>Catalysis Today</i> , 2008, 138, 97-103.	4.4	17
23	Sol-gel synthesis and characterization of transition metal based mixed oxides and their application as catalysts in selective oxidation of propane. <i>Applied Catalysis A: General</i> , 2007, 325, 244-250.	4.3	16
24	Ethanol aerobic and anaerobic oxidation with FeVO ₄ and V ₂ O ₅ catalysts. <i>Applied Catalysis A: General</i> , 2019, 570, 139-147.	4.3	16
25	Urea and Polyurea Production: An Innovative Solvent- and Catalyst-Free Approach through Catechol Carbonate. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 15640-15650.	6.7	16
26	Hydrogen Transfer Activation via Stabilization of Coordinatively Vacant Sites: Tuning Long-Range π -System Electronic Interaction between Ru(0) and NHC Pendants. <i>Organometallics</i> , 2019, 38, 1041-1051.	2.3	14
27	Steam reforming of clean biogas over Rh and Ru open-cell metallic foam structured catalysts. <i>Catalysis Today</i> , 2022, 383, 74-83.	4.4	11
28	FT-IR Investigation of Methoxy Substituted Benzenes Adsorbed on Solid Acid Catalysts. <i>Journal of Physical Chemistry C</i> , 2012, 116, 21308-21317.	3.1	10
29	The competition between dehydrogenation and dehydration reactions for primary and secondary alcohols over gallia: unravelling the effects of molecular and electronic structure via a two-pronged theoretical/experimental approach. <i>Catalysis Science and Technology</i> , 2020, 10, 3433-3449.	4.1	10
30	Bimetallic Co-M (M = Cu, Ag, and Au) Carbonyl Complexes Supported by N-Heterocyclic Carbene Ligands: Synthesis, Structures, Computational Investigation, and Catalysis for Ammonia Borane Dehydrogenation. <i>Organometallics</i> , 2021, 40, 2724-2735.	2.3	10
31	Effect of Fe and La on the Performance of NiMgAl HT-Derived Catalysts in the Methanation of CO ₂ and Biogas. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 10511-10521.	3.7	9
32	Catalyst deactivation in on-board H ₂ production by fuel dehydrogenation. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 1336-1349.	7.1	8
33	Evaluation of the Catalytic Activity of Metal Phosphates and Related Oxides in the Ketonization of Propionic Acid. <i>Sustainable Chemistry</i> , 2022, 3, 58-75.	4.7	8
34	Catalytic Upgrading of Clean Biogas to Synthesis Gas. <i>Catalysts</i> , 2022, 12, 109.	3.5	7
35	Combined Reforming of Clean Biogas over Nanosized Ni-Rh Bimetallic Clusters. <i>Catalysts</i> , 2020, 10, 1345.	3.5	6
36	Vanadium and niobium mixed-oxide catalysts obtained via sol-gel: preparation and catalytic behaviour in oxidative dehydrogenation of propane. <i>Studies in Surface Science and Catalysis</i> , 2005, 155, 427-439.	1.5	4

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37	Novel thiotolerant catalysts for the on-board partial dehydrogenation of jet fuels. RSC Advances, 2016, 6, 48962-48972.	3.6	3
38	Effect of exchange procedure and crystal size on high silica MFI zeolite as catalyst for vapor phase Beckmann rearrangement. Studies in Surface Science and Catalysis, 2004, , 2823-2830.	1.5	2
39	Sol-gel synthesis and characterization of Nb-Mo and Nb-Mo-V mixed oxides as potential catalysts for the selective oxidation of propane. Studies in Surface Science and Catalysis, 2006, , 841-848.	1.5	0
40	Insights into the Reactivity of Thiophene: Heterogeneous Alkylation. Topics in Catalysis, 2016, 59, 1249-1256.	2.8	0