Stefania Albonetti

List of Publications by Year
in descending order

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120 papers	4,153 citations	109321 35 h-index	133252 59 g-index
124 all docs	124 docs citations	124 times ranked	4462 citing authors

#	Article	IF	Citations
1	Key Aspects of Catalyst Design for the Selective Oxidation of Paraffins. Catalysis Reviews - Science and Engineering, 1996, 38, 413-438.	12.9	408
2	Selective oxidation of 5-hydroxymethyl-2-furfural using supported goldâ€“copper nanoparticles. Green Chemistry, 2011, 13, 2091.	9.0	242
3	Conversion of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid over Au-based catalysts: Optimization of active phase and metalâ€“support interaction. Applied Catalysis B: Environmental, 2015, 163, 520-530.	20.2	177
4	On the Chemistry of Ethanol on Basic Oxides: Revising Mechanisms and Intermediates in the Lebedev and Guerbet reactions. ChemSusChem, 2015, 8, 377-388.	6.8	158
5	Microwave-assisted polyol synthesis of Cu nanoparticles. Journal of Nanoparticle Research, 2011, 13, 127-138.	1.9	143
6	Selective oxidation of 5-hydroxymethyl-2-furfural over TiO2-supported goldâ€“copper catalysts prepared from preformed nanoparticles: Effect of Au/Cu ratio. Catalysis Today, 2012, 195, 120-126.	4.4	124
7	A Comparison of the Reactivity of â€œNonequilibratedâ€•and â€œEquilibratedâ€•Vâ€“Pâ€“O Catalysts: Structural Evolution, Surface Characterization, and Reactivity in the Selective Oxidation ofn-Butane andn-Pentane. Journal of Catalysis, 1996, 160, 52-64.	6.2	109
8	Solvothermal synthesis and properties control of doped ZnO nanoparticles. Journal of Colloid and Interface Science, 2009, 329, 73-80.	9.4	97
9	Insights into the reaction mechanism for 5-hydroxymethylfurfural oxidation to FDCA on bimetallic Pdâ€“Au nanoparticles. Applied Catalysis A: General, 2015, 504, 408-419.	4.3	90
10	The role of acidity in the decomposition of 1,2-dichlorobenzene over TiO2-based V2O5/WO3 catalysts. Applied Catalysis A: General, 2008, 341, 18-25.	4.3	82
11	Methanol as a clean and efficient H-transfer reactant for carbonyl reduction: Scope, limitations, and reaction mechanism. Journal of Catalysis, 2014, 317, 206-219.	6.2	70
12	Mechanism of Thermal Decomposition of Potassium/Ammonium Salts of the 12-Molybdophosphoric Acid and Effect on the Catalytic Performance in the Isobutyric Acid Oxidehydrogenation. Journal of Catalysis, 1994, 146, 491-502.	6.2	68
13	Solâ€“gel combustion synthesis of BNBT powders. Journal of Sol-Gel Science and Technology, 2008, 46, 39-45.	2.4	63
14	AuPd-nNiO as an effective catalyst for the base-free oxidation of HMF under mild reaction conditions. Green Chemistry, 2019, 21, 4090-4099.	9.0	62
15	TiO2 based nano-photocatalysis immobilized on cellulose substrates. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 276, 58-64.	3.9	61
16	Substrate and product role in the Shvo's catalyzed selective hydrogenation of the platform bio-based chemical 5-hydroxymethylfurfural. Dalton Transactions, 2014, 43, 10224-10234.	3.3	60
17	Design of nano-sized FeOx and Au/FeOx catalysts supported on CeO2 for total oxidation of VOC. Applied Catalysis A: General, 2011, 395, 10-18.	4.3	59
18	Understanding the Role of the Acid Sites in 5-Hydroxymethylfurfural Oxidation to 2,5-Furandicarboxylic Acid Reaction over Gold Catalysts: Surface Investigation on Ce_xZr_{1â€“x}O₂ Compounds. ACS Catalysis, 2018, 8, 11154-11164.	11.2	55

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19	Hard-template preparation of Au/CeO 2 mesostructured catalysts and their activity for the selective oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid. Microporous and Mesoporous Materials, 2016, 226, 466-475.	4.4	54
20	Catalytic combustion of toluene over cluster-derived gold/iron catalysts. Applied Catalysis A: General, 2010, 372, 138-146.	4.3	52
21	Auâ€“Ag nanoparticles as red pigment in ceramic inks for digital decoration. Dyes and Pigments, 2012, 94, 355-362.	3.7	47
22	Mixed-Oxide Catalysts with Spinel Structure for the Valorization of Biomass: The Chemical-Loop Reforming of Bioethanol. Catalysts, 2018, 8, 332.	3.5	46
23	Propane ammoxidation to acrylonitrile over a tin-based mixed-oxide catalyst. Catalysis Today, 1998, 42, 283-295.	4.4	44
24	Mechanistic insights into the catalytic transfer hydrogenation of furfural with methanol and alkaline earth oxides. Journal of Catalysis, 2019, 372, 61-73.	6.2	44
25	Gas-phase cascade upgrading of furfural to 2-methylfuran using methanol as a H-transfer reactant and MgO based catalysts. Catalysis Science and Technology, 2016, 6, 4418-4427.	4.1	43
26	Relationship between structural/surface characteristics and reactivity in n-butane oxidation to maleic anhydride. Catalysis Today, 2000, 61, 203-210.	4.4	42
27	Oxidant free one-pot transformation of bio-based 2,5-bis-hydroxymethylfuran into Î±-6-hydroxy-6-methyl-4-enyl-2H-pyran-3-one in water. Applied Catalysis B: Environmental, 2016, 180, 38-43.	20.2	42
28	Selective Oxidation of HMF via Catalytic and Photocatalytic Processes Using Metal-Supported Catalysts. Molecules, 2018, 23, 2792.	3.8	42
29	Gold Nanoparticle-Containing Membranes from in Situ Reduction of a Gold(III)â^'Aminoethylimidazolium Aurate Salt. Journal of Physical Chemistry C, 2010, 114, 9693-9701.	3.1	41
30	Au/Al2O3 â€“ Efficient catalyst for 5-hydroxymethylfurfural oxidation to 2,5-furandicarboxylic acid. Catalysis Today, 2019, 333, 169-175.	4.4	41
31	Effect of Gold Particles Size over Au/C Catalyst Selectivity in HMF Oxidation Reaction. ChemCatChem, 2020, 12, 1177-1183.	3.7	39
32	Total oxidation of volatile organic compounds on Au/FeOx catalysts supported on mesoporous SBA-15 silica. Applied Catalysis A: General, 2011, 400, 54-60.	4.3	38
33	TiO2 based photocatalytic coatings: From nanostructure to functional properties. Chemical Engineering Journal, 2013, 225, 880-886.	12.7	38
34	On the antimony-stabilized cubic structure of potassium/ammonium salts of 12-molybdophosphoric acid and its catalytic performance in the oxidehydrogenation of ethane. Catalysis Letters, 1995, 30, 253-262.	2.6	37
35	Gold/iron carbonyl clusters as precursors for TiO2 supported catalysts. Catalysis Today, 2008, 137, 483-488.	4.4	37
36	Green and easily scalable microwave synthesis of noble metal nanosols (Au, Ag, Cu, Pd) usable as catalysts. New Journal of Chemistry, 2014, 38, 1401-1409.	2.8	36

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37	Gas-Phase Catalytic Transfer Hydrogenation of Methyl Levulinate with Ethanol over ZrO₂. ACS Sustainable Chemistry and Engineering, 2019, 7, 8317-8330.	6.7	36
38	Exploiting H-transfer as a tool for the catalytic reduction of bio-based building blocks: the gas-phase production of 2-methylfurfural using a FeVO₄ catalyst. Green Chemistry, 2017, 19, 4412-4422.	9.0	35
39	AgCu Bimetallic Electrocatalysts for the Reduction of Biomass-Derived Compounds. ACS Applied Materials & Interfaces, 2021, 13, 23675-23688.	8.0	35
40	Pt and Pt/Sn carbonyl clusters as precursors for the synthesis of supported metal catalysts for the base-free oxidation of HMF. Applied Catalysis A: General, 2019, 588, 117279.	4.3	34
41	Spinel Mixed Oxides for Chemical-Loop Reforming: From Solid State to Potential Application. Studies in Surface Science and Catalysis, 2019, 178, 281-302.	1.5	34
42	Role of the composition and preparation method inÂthe activity of hydrotalcite-derived Ru catalysts in the catalytic partial oxidation of methane. International Journal of Hydrogen Energy, 2013, 38, 15128-15139.	7.1	33
43	Bimetallic Nanoparticles as Efficient Catalysts: Facile and Green Microwave Synthesis. Materials, 2016, 9, 550.	2.9	33
44	Structural Relaxation around Cr³⁺ in YAlO₃â^'YCrO₃ Perovskites from Electron Absorption Spectra. Journal of Physical Chemistry A, 2009, 113, 13772-13778.	2.5	32
45	Solâ€“gel combustion synthesis of chromium doped yttrium aluminum perovskites. Journal of Sol-Gel Science and Technology, 2009, 50, 449-455.	2.4	30
46	Microwave-assisted synthesis of Prâ€“ZrSiO4, Vâ€“ZrSiO4 and Crâ€“YAlO3 ceramic pigments. Journal of the European Ceramic Society, 2009, 29, 2951-2957.	5.7	29
47	Microwave-assisted synthesis of gadolinia-doped ceria powders for solid oxide fuel cells. Ceramics International, 2011, 37, 1423-1426.	4.8	29
48	Easily scalable synthesis of Ni nanosols suitable for the hydrogenation of 4-nitrophenol to p-aminophenol under mild condition. Chemical Engineering Journal, 2013, 215-216, 616-625.	12.7	29
49	Mechanism of ammoxidation of propane on a Sb/V/O system. Catalysis Letters, 1997, 45, 119-123.	2.6	28
50	Effect of silica on the catalytic destruction of chlorinated organics over V2O5/TiO2 catalysts. Applied Catalysis B: Environmental, 2006, 64, 1-8.	20.2	28
51	Nb-Doped PZT Material by Sol-Gel Combustion. Journal of Sol-Gel Science and Technology, 2005, 36, 203-211.	2.4	27
52	The oxidative cleavage of trans-1,2-cyclohexanediol with O2: Catalysis by supported Au nanoparticles. Applied Catalysis A: General, 2018, 557, 89-98.	4.3	26
53	Effects of the microwave heating on the properties of gadolinium-doped cerium oxide prepared by polyol method. Journal of the European Ceramic Society, 2013, 33, 67-77.	5.7	25
54	Ptâ€“Sn/Î³-Al2O3 and Ptâ€“Snâ€“Na/Î³-Al2O3 catalysts for hydrogen production by dehydrogenation of Jet A-1 fuel: Characterisation and preliminary activity tests. International Journal of Hydrogen Energy, 2011, 36, 5972-5982.	7.1	24

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55	Ag Electrodeposited on Cu Openâ€€Cell Foams for the Selective Electroreduction of 5â€€Hydroxymethylfurfural. ChemElectroChem, 2020, 7, 1238-1247.	3.4	23
56	On-board H2 generation by catalytic dehydrogenation of hydrocarbon mixtures or fuels. Catalysis Today, 2011, 175, 504-508.	4.4	20
57	Adsorbentâ€“Adsorbate Interactions in the Oxidation of HMF Catalyzed by Ni-Based MOFs: A DRIFT and FT-IR Insight. Journal of Physical Chemistry C, 2016, 120, 15310-15321.	3.1	20
58	PZT prepared by spray drying: From powder synthesis to electromechanical properties. Journal of the European Ceramic Society, 2005, 25, 3323-3334.	5.7	19
59	Polyfunctionality of DeNOx catalysts in other pollutant abatement. Catalysis Today, 2007, 119, 295-300.	4.4	18
60	Chlorinated organics total oxidation over V2O5/TiO2 catalysts prepared by polyol-mediated synthesis. Applied Catalysis A: General, 2007, 325, 309-315.	4.3	18
61	Gold/Iron Carbonyl Clusters for Tailored Au/FeOx Supported Catalysts. Catalysts, 2012, 2, 1-23.	3.5	18
62	Preparation of Pd/Cu MCM-41 catalysts for hydrodechlorination: Influence of the synthesis procedure. Microporous and Mesoporous Materials, 2014, 190, 1-9.	4.4	18
63	Efficient and ecofriendly route for the solvent-free synthesis of piperonal and aromatic aldehydes using Au/CeO2 catalyst. Applied Catalysis B: Environmental, 2017, 203, 314-323.	20.2	18
64	Tandem Hydrogenation/Hydrogenolysis of Furfural to 2-Methylfuran over a Fe/Mg/O Catalyst: Structureâ€“Activity Relationship. Catalysts, 2019, 9, 895.	3.5	18
65	Continuous Flow Synthesis of Bimetallic AuPd Catalysts for the Selective Oxidation of 5â€Hydroxymethylfurfural to 2,5â€Furandicarboxylic Acid. ChemNanoMat, 2020, 6, 420-426.	2.8	17
66	Coprecipitated-like hydrotalcite-derived coatings on open-cell metallic foams by electrodeposition: Rh nanoparticles on oxide layers stable under harsh reaction conditions. Applied Catalysis A: General, 2018, 560, 12-20.	4.3	16
67	Innovative synthesis of nanostructured composite materials by a spray-freeze drying process: Efficient catalysts and photocatalysts preparation. Catalysis Today, 2019, 334, 193-202.	4.4	16
68	Copper-nickel mixed oxide catalysts from layered double hydroxides for the hydrogen-transfer valorisation of lignin in organosolv pulping. Applied Catalysis A: General, 2021, 609, 117929.	4.3	16
69	Highly-dispersed ultrafine Pt nanoparticles on microemulsion-mediated TiO2 for production of hydrogen and valuable chemicals via oxidative photo-dehydrogenation of glycerol. Journal of Environmental Chemical Engineering, 2021, 9, 105070.	6.7	16
70	Solar-driven valorization of glycerol towards production of chemicals and hydrogen. Catalysis Today, 2021, 380, 147-155.	4.4	16
71	Pd/Au Based Catalyst Immobilization in Polymeric Nanofibrous Membranes via Electrospinning for the Selective Oxidation of 5-Hydroxymethylfurfural. Processes, 2020, 8, 45.	2.8	16
72	Nanosized Pd/Pt and Pd/Rh Catalysts for Naphthalene Hydrogenation and Hydrogenolysis/Ring-opening. Catalysis Letters, 2006, 108, 197-207.	2.6	15

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73	Pdâ€“Cu interaction in Pd/Cu-MCM-41 catalysts: Effect of silica source and metal content. Catalysis Today, 2015, 246, 108-115.	4.4	15
74	Structural Changes of Binary/Ternary Spinel Oxides During Ethanol Anaerobic Decomposition. ChemCatChem, 2017, 9, 2219-2230.	3.7	15
75	Scale-Up of Cluster Beam Deposition to the Gram Scale with the Matrix Assembly Cluster Source for Heterogeneous Catalysis (Catalytic Ozonation of Nitrophenol in Aqueous Solution). ACS Applied Materials & Interfaces, 2020, 12, 24877-24882.	8.0	15
76	Insights into the Electrochemical Reduction of 5â€Hydroxymethylfurfural at High Current Densities. ChemSusChem, 2022, 15, .	6.8	14
77	A new ternary mixed oxide catalyst for ammoxidation of propane: Sn/V/Sb. Catalysis Letters, 1998, 50, 17-23.	2.6	13
78	Investigation of the Catalytic Performance of Pd/CNFs for Hydrogen Evolution from Additive-Free Formic Acid Decomposition. Journal of Carbon Research, 2018, 4, 26.	2.7	13
79	Microwave-assisted synthesis of Au, Ag and Au-Ag nanoparticles and their catalytic activities for the reduction of nitrophenol. Studies in Surface Science and Catalysis, 2010, , 621-624.	1.5	12
80	Role of the preparation method on properties of Pd/Cu-MCM-41 hydrodechlorinating catalysts. Catalysis Today, 2014, 235, 134-143.	4.4	12
81	Photocatalytic Oxidation of HMF under Solar Irradiation: Coupling of Microemulsion and Lyophilization to Obtain Innovative TiO2-Based Materials. Molecules, 2020, 25, 5225.	3.8	12
82	Aging investigation on catalysts for hydrofluorocarbons synthesis. Applied Catalysis A: General, 2007, 326, 48-54.	4.3	11
83	Heterogeneous Catalysis as a Tool for Production of Aromatic Compounds From Lignin. Studies in Surface Science and Catalysis, 2019, 178, 257-275.	1.5	11
84	Steam reforming of clean biogas over Rh and Ru open-cell metallic foam structured catalysts. Catalysis Today, 2022, 383, 74-83.	4.4	11
85	Effect of the Colloidal Preparation Method for Supported Preformed Colloidal Au Nanoparticles for the Liquid Phase Oxidation of 1,6-Hexanediol to Adipic Acid. Catalysts, 2022, 12, 196.	3.5	11
86	A Comprehensive Review on Two-Step Thermochemical Water Splitting for Hydrogen Production in a Redox Cycle. Energies, 2022, 15, 3044.	3.1	11
87	ALMAX catalyst for the selective oxidation of n-butane to maleic anhydride: a highly efficient V/P/O system for fluidized-bed reactors. Studies in Surface Science and Catalysis, 2001, , 141-146.	1.5	10
88	Heterocoagulation-spray drying process for the inclusion of ceramic pigments. Journal of the European Ceramic Society, 2008, 28, 169-176.	5.7	10
89	Synthesis of CeO2 nano-aggregates of complex morphology. Ceramics International, 2013, 39, 629-634.	4.8	10
90	Conversion of CO2 to Valuable Chemicals: Organic Carbonate as Green Candidates for the Replacement of Noxious Reactants. Studies in Surface Science and Catalysis, 2019, , 125-144.	1.5	10

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91	Preformed Pd-Based Nanoparticles for the Liquid Phase Decomposition of Formic Acid: Effect of Stabiliser, Support and Auâ€“Pd Ratio. Applied Sciences (Switzerland), 2020, 10, 1752.	2.5	10
92	Preface to Special Issue on Green Conversion of HMF. ChemSusChem, 2022, 15, .	6.8	10
93	MCM-41 Supported Co-Based Bimetallic Catalysts for Aqueous Phase Transformation of Glucose to Biochemicals. Processes, 2020, 8, 843.	2.8	9
94	Transition Metal B-Site Substitutions in LaAlO3 Perovskites Reorient Bio-Ethanol Conversion Reactions. Catalysts, 2021, 11, 344.	3.5	9
95	The effect of glycols in the organic preparation of V/P mixed oxide, catalyst for the oxidation of n-butane to maleic anhydride. Studies in Surface Science and Catalysis, 2000, , 963-973.	1.5	8
96	Hydrogen-assisted dechlorination of CF3OCFClâ€“CF2Cl to CF3OCF=CF2 over different metal-supported catalysts. Applied Catalysis A: General, 2014, 470, 123-131.	4.3	8
97	Catalyst deactivation in on-board H2 production by fuel dehydrogenation. International Journal of Hydrogen Energy, 2014, 39, 1336-1349.	7.1	8
98	Insights into coated NiCrAl open-cell foams for the catalytic partial oxidation of CH₄. Reaction Chemistry and Engineering, 2019, 4, 1768-1778.	3.7	8
99	5-Hydroxymethyl-2-Furfural Oxidation Over Au/CexZr1-xO2 Catalysts. Frontiers in Chemistry, 2020, 8, 461.	3.6	8
100	Promotion effect of rare earth elements (Ce, Nd, Pr) on physicochemical properties of M-Al mixed oxides (Mâ€‰=â€‰Cu, Ni, Co) and their catalytic activity in N2O decomposition. Journal of Materials Science, 2021, 56, 15012-15028.	3.7	8
101	A new catalyst for propane ammoxidation: the Sn/V/Sb mixed oxide. Studies in Surface Science and Catalysis, 1997, 110, 403-412.	1.5	7
102	Chlorella vulgaris meets TiO2 NPs: Effective sorbent/photocatalytic hybrid materials for water treatment application. Journal of Environmental Management, 2022, 304, 114187.	7.8	7
103	Catalytic Upgrading of Clean Biogas to Synthesis Gas. Catalysts, 2022, 12, 109.	3.5	7
104	Effect of silica additive on the thermal stability of catalysts for NOx abatement. Environmental Chemistry Letters, 2003, 1, 197-200.	16.2	6
105	Synthesis of Nb Doped Lead Zirconate Titanate by Chemical Methods. Advanced Engineering Materials, 2006, 8, 572-576.	3.5	6
106	Combined Reforming of Clean Biogas over Nanosized Niâ€“Rh Bimetallic Clusters. Catalysts, 2020, 10, 1345.	3.5	6
107	Direct Oxyfluorination of Hydrocarbons on Metal Fluorides. Topics in Catalysis, 2008, 50, 168-179.	2.8	5
108	Superacid AquivionÂ® PFSA as an efficient catalyst for the gas phase dehydration of ethanol to ethylene in mild conditions. Applied Catalysis A: General, 2020, 597, 117544.	4.3	5

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109	Temperature-Dependent Activity of Gold Nanocatalysts Supported on Activated Carbon in Redox Catalytic Reactions: 5-Hydroxymethylfurfural Oxidation and 4-Nitrophenol Reduction Comparison. Catalysts, 2022, 12, 323.	3.5	5
110	Design of nano-sized FeOx and Au/FeOx catalysts for total oxidation of VOC and preferential oxidation of CO. Studies in Surface Science and Catalysis, 2010, 175, 785-788.	1.5	4
111	Hydrogen Transfer Reaction as an Alternative Reductive Process for the Valorization of Biomass-Derived Building Blocks. Studies in Surface Science and Catalysis, 2019, , 195-214.	1.5	4
112	Role of Different Solvents on the Purification of As-Synthesized Nano-Ce_{1â^'<I>x</I>}Gd<I>_x</I>O<SUB>2â^'<I>d</I> Powders. Journal of Nanoscience and Nanotechnology, 2015, 15, 3636-3640.	0.4	4
113	Novel thiotolerant catalysts for the on-board partial dehydrogenation of jet fuels. RSC Advances, 2016, 6, 48962-48972.	3.6	3
114	Oxidative condensation/esterification of furfural with ethanol using preformed Au colloidal nanoparticles. Impact of stabilizer and heat treatment protocols on catalytic activity and stability. Molecular Catalysis, 2022, 528, 112438.	2.0	3
115	Preparation of transition metal fluorides as catalysts for the environmentally sustainable HFC production.. Studies in Surface Science and Catalysis, 2006, 162, 993-1000.	1.5	2
116	Oxydative dehydrogenation of isobutyric acid to methacrylic acid over heteropolysalts of composition Kx(NH4)3â€“xPM012O40: effect of catalyst pretreatment and composition on the activity and selectivity. Studies in Surface Science and Catalysis, 1993, 78, 471-478.	1.5	1
117	Propane ammoxidation over Sn/V/Sb mixed oxide: Preparation method and calcination effects. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1997, 19, 1631-1639.	0.4	1
118	Mixed oxides with rutile type structure active in ammoxidation to acrylonitrile. Studies in Surface Science and Catalysis, 1999, , 79-84.	1.5	1
119	Insights into the Synthesis and Surface Functionalization of Mesoporous Carbon for Catalytic Applications. ChemistrySelect, 2017, 2, 7590-7596.	1.5	1
120	Catalytic Transformation of Renewables (Olefin, Bio-Sourced, et al.). Catalysts, 2021, 11, 364.	3.5	0