Antonella Gervasini

List of Publications by Year
in descending order

128 papers	5,271 citations	76326 40 h-index	95266 68 g-index
130 all docs	130 docs citations	130 times ranked	5321 citing authors

#	ARTICLE	IF	CITATIONS
1	Microcalorimetric study of the acidity and basicity of metal oxide surfaces. The Journal of Physical Chemistry, 1990, 94, 6371-6379.	2.9	457
2	Acidity and basicity of metal oxide surfaces II. Determination by catalytic decomposition of isopropanol. Journal of Catalysis, 1991, 131, 190-198.	6.2	255
3	Total Oxidation of Formaldehyde over MnO_{<i>x</i>}-CeO₂ Catalysts: The Effect of Acid Treatment. ACS Catalysis, 2015, 5, 2260-2269.	11.2	199
4	Niobic acid and niobium phosphate as highly acidic viable catalysts in aqueous medium: Fructose dehydration reaction. Catalysis Today, 2006, 118, 373-378.	4.4	191
5	Title is missing!. Catalysis Letters, 1997, 43, 219-228.	2.6	176
6	Dispersion and surface states of copper catalysts by temperature-programmed-reduction of oxidized surfaces (s-TPR). Applied Catalysis A: General, 2005, 281, 199-205.	4.3	140
7	Dependence of Copper Species on the Nature of the Support for Dispersed CuO Catalysts. Journal of Physical Chemistry B, 2006, 110, 7851-7861.	2.6	110
8	Optimization of Tailoring of CuOxSpecies of Silica Alumina Supported Catalysts for the Selective Catalytic Reduction of NOx. Journal of Physical Chemistry B, 2003, 107, 5168-5176.	2.6	106
9	Structural, textural and acidâ€“base properties of carbonate-containing hydroxyapatites. Journal of Materials Chemistry A, 2014, 2, 11073-11090.	10.3	102
10	VOC removal by synergic effect of combustion catalyst and ozone. Catalysis Today, 1996, 29, 449-455.	4.4	97
11	Insight into the properties of Fe oxide present in high concentrations on mesoporous silica. Journal of Catalysis, 2009, 262, 224-234.	6.2	91
12	Unraveling the Role of Low Coordination Sites in a Cu Metal Nanoparticle: A Step toward the Selective Synthesis of Second Generation Biofuels. ACS Catalysis, 2014, 4, 2818-2826.	11.2	85
13	XPS Study of the Adsorption of SO2and NH3over Supported Tin Dioxide Catalysts Used in de-NOx Catalytic Reaction. Journal of Physical Chemistry B, 2001, 105, 10316-10325.	2.6	83
14	Catalytic activity of dispersed CuO phases towards nitrogen oxides (N2O, NO, and NO2). Applied Catalysis B: Environmental, 2006, 62, 336-344.	20.2	83
15	Intrinsic and Effective Acidity Study of Niobic Acid and Niobium Phosphate by a Multitechnique Approach. Chemistry of Materials, 2005, 17, 6128-6136.	6.7	82
16	Absence of expected side-reactions in the dehydration reaction of fructose to HMF in water over niobic acid catalyst. Catalysis Communications, 2011, 12, 1122-1126.	3.3	78
17	Cooperative action of BrÃ¸nsted and Lewis acid sites of niobium phosphate catalysts for cellobiose conversion in water. Applied Catalysis B: Environmental, 2016, 193, 93-102.	20.2	77
18	Gold on Carbon: Influence of Support Properties on Catalyst Activity in Liquid-Phase Oxidation. Catalysis Letters, 2003, 85, 91-96.	2.6	76

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19	In-depth study of the mechanism of heavy metal trapping on the surface of hydroxyapatite. Applied Surface Science, 2019, 475, 397-409.	6.1	74
20	Dispersed NbO_{<i>x</i>} Catalytic Phases in Silica Matrixes: Influence of Niobium Concentration and Preparative Route. Journal of Physical Chemistry C, 2008, 112, 14064-14074.	3.1	73
21	Investigation of the WO3/ZrO2 surface acidic properties for the aqueous hydrolysis of cellobiose. Catalysis Communications, 2012, 19, 119-126.	3.3	70
22	Characterization of the textural properties of metal loaded ZSM-5 zeolites. Applied Catalysis A: General, 1999, 180, 71-82.	4.3	69
23	Acidic Character of Metal-Loaded Amorphous and Crystalline Silicaâ^'Aluminas Determined by XPS and Adsorption Calorimetry. Journal of Physical Chemistry B, 1999, 103, 7195-7205.	2.6	65
24	Microcalorimetric and Catalytic Studies of the Acidic Character of Modified Metal Oxide Surfaces. 1. Doping Ions on Alumina, Magnesia, and Silica. The Journal of Physical Chemistry, 1995, 99, 5117-5125.	2.9	63
25	Characterization of copper-exchanged ZSM-5 and ETS-10 catalysts with low and high degrees of exchange. Microporous and Mesoporous Materials, 2000, 35-36, 457-469.	4.4	63
26	Catalytic selective reduction of NO with ethylene over a series of copper catalysts on amorphous silicas. Applied Catalysis B: Environmental, 2000, 28, 175-185.	20.2	63
27	Support Effects on de-NOx Catalytic Properties of Supported Tin Oxides. Journal of Catalysis, 2000, 195, 140-150.	6.2	62
28	Synthesis and comparative characterization of Al, B, Ga, and Fe containing Nu-1-type zeolitic framework. Zeolites, 1990, 10, 642-649.	0.5	57
29	Energy Distribution of Surface Acid Sites of Metal Oxides. Journal of Catalysis, 1994, 150, 274-283.	6.2	56
30	Surface characteristics and activity in selective oxidation of -xylene of supported VO catalysts prepared by standard impregnation and atomic layer deposition. Catalysis Today, 2004, 96, 187-194.	4.4	55
31	Study of the influence of the In2O3 loading on Î³-alumina for the development of de-NOx catalysts. Journal of Catalysis, 2005, 234, 421-430.	6.2	55
32	Polystyrene thermodegradation. 2. Kinetics of formation of volatile products. Industrial & Engineering Chemistry Research, 1991, 30, 1624-1629.	3.7	53
33	Hydrolysis of disaccharides over solid acid catalysts under green conditions. Carbohydrate Research, 2012, 347, 23-31.	2.3	53
34	Tailoring the structural and morphological properties of hydroxyapatite materials to enhance the capture efficiency towards copper(<scp>ii</scp>) and lead(<scp>ii</scp>) ions. New Journal of Chemistry, 2018, 42, 4520-4530.	2.8	51
35	An In-depth Study of Supported In2O3Catalysts for the Selective Catalytic Reduction of NOx:Â The Influence of the Oxide Support. Journal of Physical Chemistry B, 2006, 110, 240-249.	2.6	49
36	Silicaâ€"niobia oxides as viable acid catalysts in water: Effective vs. intrinsic acidity. Catalysis Today, 2010, 152, 42-47.	4.4	49

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37	Exploitment of niobium oxide effective acidity for xylose dehydration to furfural. Catalysis Today, 2015, 254, 90-98.	4.4	48
38	Calorimetric determination of the acidic character of amorphous and crystalline aluminosilicates. Thermochimica Acta, 2004, 420, 127-134.	2.7	45
39	Is BN an appropriate support for metal oxide catalysts?. Applied Catalysis A: General, 2007, 325, 227-236.	4.3	43
40	Microcalorimetric investigation of the acidity and basicity of metal oxides. Journal of Thermal Analysis, 1991, 37, 1737-1744.	0.6	41
41	A new, Fe based, heterogeneous Lewis acid: Selective isomerization of Î±-pinene oxide. Catalysis Communications, 2008, 9, 1125-1127.	3.3	41
42	Bulk and Surface Properties of Dispersed CuO Phases in Relation with Activity of NO x Reduction. Catalysis Letters, 2004, 98, 187-194.	2.6	40
43	Nanodispersed Fe Oxide Supported Catalysts with Tuned Properties. Journal of Physical Chemistry C, 2008, 112, 4635-4642.	3.1	40
44	Preparation of highly dispersed CuO catalysts on oxide supports for de-NO reactions. Ultrasonics Sonochemistry, 2003, 10, 61-64.	8.2	39
45	Influence of the BrÃ¶nsted and Lewis acid sites on the catalytic activity and selectivity of Fe/MCM-41 system. Applied Catalysis A: General, 2012, 435-436, 187-196.	4.3	39
46	Influence of preparation methods and structure of niobium oxide-based catalysts in the epoxidation reaction. Catalysis Today, 2015, 254, 99-103.	4.4	39
47	Studies of direct decomposition and reduction of nitrogen oxide with ethylene by supported noble metal catalysts. Applied Catalysis B: Environmental, 1999, 22, 201-213.	20.2	38
48	Microcalorimetric Study of the Acidic Character of Modified Metal Oxide Surfaces. Influence of the Loading Amount on Alumina, Magnesia, and Silica. Langmuir, 1996, 12, 5356-5364.	3.5	36
49	Chiral Hybrid Inorganicâ€“Organic Materials: Synthesis, Characterization, and Application in Stereoselective Organocatalytic Cycloadditions. Journal of Organic Chemistry, 2013, 78, 11326-11334.	3.2	35
50	Comparative performance of copper and iron functionalized hydroxyapatite catalysts in NH3-SCR. Catalysis Communications, 2019, 123, 79-85.	3.3	34
51	Experimental and Modelization Approach in the Study of Acid-Site Energy Distribution by Base Desorption. Part I:Â Modified Silica Surfaces. Journal of Physical Chemistry B, 2005, 109, 1528-1536.	2.6	31
52	Influence of the Preparation Method on the Surface Characteristics and Activity of Boron-Nitride-Supported Noble Metal Catalysts. Journal of Physical Chemistry B, 2006, 110, 12572-12580.	2.6	30
53	Nickel and cobalt adsorption on hydroxyapatite: a study for the de-metalation of electronic industrial wastewaters. Adsorption, 2019, 25, 649-660.	3.0	30
54	Finely Iron-Dispersed Particles on Î² Zeolite from Solvated Iron Atoms: Promising Catalysts for NH₃-SCO. Journal of Physical Chemistry C, 2019, 123, 11723-11733.	3.1	30

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55	Supported Binary Oxide Catalysts Containing CuO Coupled with Ga2O3and SnO2. Chemistry of Materials, 2006, 18, 3641-3650.	6.7	29
56	Polystyrene thermodegradation. III. Effect of acidic catalysts on radical formation and volatile product distribution. Applied Catalysis A: General, 1995, 127, 139-155.	4.3	27
57	Characterisation of BN-supported palladium oxide catalyst used for hydrocarbon oxidation. Applied Catalysis A: General, 2007, 316, 250-258.	4.3	27
58	Improving stability of Nb2O5 catalyst in fructose dehydration reaction in water solvent by ion-doping. Catalysis Today, 2012, 192, 89-95.	4.4	26
59	Catalytic technology assisted with ionization/ozonization phase for the abatement of volatile organic compounds. Catalysis Today, 2000, 60, 129-138.	4.4	25
60	Kinetics of reduction of supported nanoparticles of iron oxide. Journal of Thermal Analysis and Calorimetry, 2008, 91, 93-100.	3.6	25
61	Focus on the catalytic performances of Cu-functionalized hydroxyapatites in NH3-SCR reaction. Applied Catalysis A: General, 2018, 563, 43-53.	4.3	25
62	Niobium-Containing Hydroxyapatites as Amphoteric Catalysts: Synthesis, Properties, and Activity. ACS Catalysis, 2014, 4, 469-479.	11.2	24
63	Liquid Phase Direct Synthesis of H₂O₂: Activity and Selectivity of Pd-Dispersed Phase on Acidic Niobia-Silica Supports. ACS Catalysis, 2017, 7, 4741-4752.	11.2	24
64	Chelation of copper(II) ions by doxorubicin and 4â€²-epidoxorubicin: ESR evidence for a new complex at high anthracycline/copper molar ratios. Inorganica Chimica Acta, 1987, 136, 81-85.	2.4	23
65	Destruction of carbon tetrachloride in the presence of hydrogen-supplying compounds with ionisation and catalytic oxidation. Applied Catalysis B: Environmental, 2002, 38, 17-28.	20.2	23
66	Characterization and reactivity of group III oxides supported on niobium oxide. Catalysis Today, 2003, 78, 377-386.	4.4	23
67	Surface acidic properties of supported binary oxides containing CuO coupled with Ga2O3 and SnO2 studied by complementary techniques. Applied Catalysis A: General, 2007, 331, 129-137.	4.3	23
68	The stability of niobium-silica catalysts in repeated liquid-phase epoxidation tests: A comparative evaluation of in-framework and grafted mixed oxides. Inorganica Chimica Acta, 2015, 431, 190-196.	2.4	23
69	Effect of Cu deposition method on silico aluminophosphate catalysts in NH 3 -SCR and NH 3 -SCO reactions. Applied Catalysis A: General, 2017, 543, 162-172.	4.3	23
70	Methane combustion over copper chromite catalysts. Catalysis Letters, 1997, 48, 39-46.	2.6	22
71	The role played by different TiO2 features on the photocatalytic degradation of paracetamol. Applied Surface Science, 2017, 424, 198-205.	6.1	22
72	Surface acidity of catalytic solids studied by base desorption: experimental and modelling approaches. Thermochimica Acta, 2005, 434, 42-49.	2.7	21

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73	Influence of the Chemical Nature of the Support (Niobic Acid and Niobium Phosphate) on the Surface and Catalytic Properties of Supported CuO. Chemistry of Materials, 2007, 19, 1319-1328.	6.7	21
74	Desorption study of NO and O2 on Cu-ZSM-5. Applied Catalysis B: Environmental, 1997, 14, 147-159.	20.2	20
75	Acid-Base Properties of Alumina-Supported M2O3 (M=B, Ga, In) Catalysts. Topics in Catalysis, 2002, 19, 271-281.	2.8	20
76	Determination of Catalyst Surface Acidity in Liquids by a Pulse Liquid Chromatographic Technique. Adsorption Science and Technology, 2005, 23, 739-749.	3.2	20
77	An Environmentally Friendly Nbâ€“Pâ€“Si Solid Catalyst for Acid-Demanding Reactions. Journal of Physical Chemistry C, 2017, 121, 17378-17389.	3.1	20
78	Combination of interfacial reduction of hexavalent chromium and trivalent chromium immobilization on tin-functionalized hydroxyapatite materials. Applied Surface Science, 2021, 539, 148227.	6.1	20
79	Acid properties of iron oxide catalysts dispersed on silicaâ€“zirconia supports with different Zr content. Applied Catalysis A: General, 2009, 367, 113-121.	4.3	19
80	Toward new low-temperature thermochemical heat storage materials: Investigation of hydration/dehydration behaviors of MgSO4/Hydroxyapatite composite. Solar Energy Materials and Solar Cells, 2022, 240, 111696.	6.2	19
81	Inclusion polymerization in perhydrotriphenylene studied by ESR spectroscopy: Growing chain structure and conformation of methylsubstituted polybutadienes. Journal of Polymer Science Part A, 1986, 24, 815-825.	2.3	18
82	Evidence of formation of radicals in the polystyrene thermodegradation. Journal of Polymer Science Part A, 1989, 27, 3865-3873.	2.3	18
83	Impact of Support Oxide Acidity in Pt-Catalyzed HMF Hydrogenation in Alcoholic Medium. Catalysis Letters, 2017, 147, 345-359.	2.6	18
84	Functionalized Iron Hydroxyapatite as Ecoâ€friendly Catalyst for NH₃â€SCR Reaction: Activity and Role of Iron Speciation on the Surface. ChemCatChem, 2020, 12, 1676-1690.	3.7	17
85	Steering Cu-Based CO₂RR Electrocatalystsâ€™ Selectivity: Effect of Hydroxyapatite Acid/Base Moieties in Promoting Formate Production. ACS Energy Letters, 2022, 7, 2304-2310.	17.4	17
86	Thermogravimetric study of the kinetics of degradation of polypropylene with solid catalysts. Thermochimica Acta, 2001, 379, 51-58.	2.7	16
87	Tuning the sorption ability of hydroxyapatite/carbon composites for the simultaneous remediation of wastewaters containing organic-inorganic pollutants. Journal of Hazardous Materials, 2021, 420, 126656.	12.4	15
88	CuO based catalysts on modified acidic silica supports tested in the de-NO reduction. Ultrasonics Sonochemistry, 2005, 12, 307-312.	8.2	14
89	Influence of the Nb/P ratio of acidic Nb P Si oxides on surface and catalytic properties. Applied Catalysis A: General, 2019, 579, 9-17.	4.3	14
90	Hydrogen adsorption and desorption on alumina supported platinum-multicomponent catalysts with a gas chromatographic pulse technique. Applied Catalysis, 1991, 72, 153-163.	0.8	13

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91	Vanadium mixed oxide catalysts for the oxidative coupling of methane. Applied Catalysis A: General, 1992, 83, 235-250.	4.3	13
92	Low-Temperature Catalytic Combustion of Volatile Organic Compounds Using Ozone. ACS Symposium Series, 1994, , 353-369.	0.5	13
93	Optimal experimental procedures in a combined TPR/TPO apparatus. Chemical Engineering and Technology, 1995, 18, 243-247.	1.5	13
94	Solid acids, surface acidity and heterogeneous acid catalysis. Advances in Catalysis, 2020, 67, 1-90.	0.2	13
95	Multitechnique study of the interaction of SO2 with alumina-supported SnO2 catalysts for lean NOx abatement. Surface and Interface Analysis, 2000, 30, 61-64.	1.8	12
96	Combined use of titration calorimetry and spectrofluorimetry for the screening of the acidity of solid catalysts in different liquids. Thermochimica Acta, 2013, 567, 8-14.	2.7	12
97	New Nb-P-Si ternary oxide materials and their use in heterogeneous acid catalysis. Molecular Catalysis, 2018, 458, 280-286.	2.0	12
98	Effect of the K+, Ba2+, and Nd3+ addition to Nb2O5 on intrinsic and effective acidity in relation to biomass reactions. Journal of Catalysis, 2012, 296, 143-155.	6.2	11
99	Environmental Reactions of Air-Quality Protection on Eco-Friendly Iron-Based Catalysts. Catalysts, 2020, 10, 1415.	3.5	11
100	Kinetic study of the carbonyl sulphide synthesis from carbon dioxide and carbon disulphide on alumina catalysts. Applied Catalysis, 1990, 64, 143-159.	0.8	10
101	Copper Site Energy Distribution of de-NOxCatalysts Based on Titanosilicate (ETS-10). Langmuir, 2001, 17, 6938-6945.	3.5	10
102	Hierarchically porous Nbâ€"TiO₂nanomaterials for the catalytic transformation of 2-propanol and n-butanol. New Journal of Chemistry, 2014, 38, 1988-1995.	2.8	10
103	Phosphate Enrichment of Niobium-Based Catalytic Surfaces in Relation to Reactions of Carbohydrate Biomass Conversion: The Case Studies of Inulin Hydrolysis and Fructose Dehydration. Catalysts, 2021, 11, 1077.	3.5	10
104	Thermodynamic study of adsorption of NO on copper-based catalysts. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 1641-1646.	1.7	9
105	Title is missing!. Catalysis Letters, 2002, 84, 235-244.	2.6	8
106	Destruction of carbon tetrachloride in the presence of hydrogen-supplying compounds with ionisation and catalytic oxidation. Applied Catalysis B: Environmental, 2004, 47, 257-267.	20.2	8
107	Catalytic Transformation of Ethanol with Silicaliteâ€1: Influence of Pretreatments and Conditions on Activity and Selectivity. ChemCatChem, 2010, 2, 1587-1593.	3.7	7
108	A Rational Revisiting of Niobium Oxophosphate Catalysts for Carbohydrate Biomass Reactions. Topics in Catalysis, 2018, 61, 1939-1948.	2.8	7

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109	Chloride-free hydrolytic solâ€“gel synthesis of Nbâ€“Pâ€“Si oxides: an approach to solid acid materials. Green Chemistry, 2020, 22, 7140-7151.	9.0	7
110	Optical and spectromagnetical properties of phosphate glasses containing ruthenium and titanium ions. Journal of the Chemical Society Faraday Transactions I, 1987, 83, 705.	1.0	6
111	Polystyrene thermodegradationâ€"IV. Kinetics of radical formation in the presence of solid catalysts. Polymer Degradation and Stability, 1997, 57, 301-306.	5.8	6
112	Infrared Spectroscopic Study of the Acidic Character of Modified Alumina Surfaces. Adsorption Science and Technology, 2003, 21, 721-737.	3.2	6
113	Temperature Programmed Reduction/Oxidation (TPR/TPO) Methods. Springer Series in Materials Science, 2013, , 175-195.	0.6	6
114	A green solvent diverts the hydrogenation of Î³â€“valerolactone to 1,4Â- pentandiol over Cu/SiO2. Molecular Catalysis, 2021, 516, 111936.	2.0	6
115	Properties of surface-modified alumina catalysts of COS synthesis. Surface and Interface Analysis, 1992, 19, 529-532.	1.8	5
116	Tunable acidity in mesoporous carbons for hydrolysis reactions. New Journal of Chemistry, 2020, 44, 5873-5883.	2.8	5
117	Liquid-Solid Adsorption Properties: Measurement of the Effective Surface Acidity of Solid Catalysts. Springer Series in Materials Science, 2013, , 543-551.	0.6	5
118	Chelation of copper(II) ions by doxorubicin and 4'-epidoxorubicin: an e.s.r. study. Anti-cancer Drug Design, 1985, 1, 53-7.	0.3	5
119	Half-coverage temperature at unit pressure as a characteristic parameter of chemisorption. Reaction Kinetics and Catalysis Letters, 1994, 52, 285-293.	0.6	4
120	Site energy distribution of copper catalytic surfaces from volumetric data collected at various temperatures. Thermochimica Acta, 2001, 379, 95-99.	2.7	4
121	Catalytic performances of CuGa and CuSn binary oxide catalysts towards N2O decomposition and reduction. Reaction Kinetics, Mechanisms and Catalysis, 2012, 105, 53-67.	1.7	4
122	Study of the Influence of the Nature of the Support on the Properties of Ferric Oxide in Relation to its Activity in the Decomposition of N₂O. Adsorption Science and Technology, 2011, 29, 365-379.	3.2	3
123	Initial activity of acidic, basic and amphoteric oxides in the reaction of CO2 with CS2 to form COS. Reaction Kinetics and Catalysis Letters, 1999, 68, 229-235.	0.6	2
124	Modulation of the acidity of niobic acid by ion-doping: Effects of nature and amount of the dopant ions. Thermochimica Acta, 2013, 567, 51-56.	2.7	2
125	Characterization of Acidâ€“Base Sites in Oxides. Springer Series in Materials Science, 2013, , 319-352.	0.6	2
126	Hexagonal and cubic thermally stable mesoporous tin(IV) phosphates with acidic, basic and catalytic properties. Studies in Surface Science and Catalysis, 2002, 142, 1091-1099.	1.5	1

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127	Preparation and characterization of MoOx-SnO2 nano-sized materials for catalytic and gas sensing applications. Studies in Surface Science and Catalysis, 2005, , 291-309.	1.5	1
128	Tuning the Cu/SiO2 wettability features for bio-derived platform molecules valorization. Molecular Catalysis, 2022, 528, 112462.	2.0	1