Anna Chiorino

List of Publications by Year
in descending order

73	4,066	109321	114465
papers	citations	35 h-index	63 g-index

73	73	73	3250
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Au/TiO2 Nanosized Samples: A Catalytic, TEM, and FTIR Study of the Effect of Calcination Temperature on the CO Oxidation. Journal of Catalysis, 2001, 202, 256-267.	6.2	476
2	FTIR Study of the Low-Temperature Waterâ€“Gas Shift Reaction on Au/Fe2O3 and Au/TiO2 Catalysts. Journal of Catalysis, 1999, 188, 176-185.	6.2	419
3	FTIR Study of Carbon Monoxide Oxidation and Scrambling at Room Temperature over Gold Supported on ZnO and TiO2. 2. The Journal of Physical Chemistry, 1996, 100, 3625-3631.	2.9	278
4	FTIR Study of CO Oxidation on Au/TiO2at 90 K and Room Temperature. An Insight into the Nature of the Reaction Centers. Journal of Physical Chemistry B, 2000, 104, 5414-5416.	2.6	179
5	Preparation, Characterization, and Activity of Cu/TiO2Catalysts. I. Influence of the Preparation Method on the Dispersion of Copper in Cu/TiO2. Journal of Catalysis, 1997, 165, 129-139.	6.2	138
6	Spectroscopic features and reactivity of CO adsorbed on different Au/CeO2 catalysts. Journal of Catalysis, 2007, 245, 308-315.	6.2	133
7	FTIR Study of Carbon Monoxide Oxidation and Scrambling at Room Temperature over Copper Supported on ZnO and TiO2. 1. The Journal of Physical Chemistry, 1996, 100, 3617-3624.	2.9	126
8	FTIR study of the electronic effects of CO adsorbed on gold nanoparticles supported on titania. Surface Science, 2000, 454-456, 942-946.	1.9	106
9	Decomposition and combined reforming of methanol to hydrogen: a FTIR and QMS study on Cu and Au catalysts supported on ZnO and TiO2. Applied Catalysis B: Environmental, 2005, 57, 201-209.	20.2	89
10	Quantitative determination of gold active sites by chemisorption and by infrared measurements of adsorbed CO. Journal of Catalysis, 2006, 237, 431-434.	6.2	88
11	Au/TiO2 nanostructured catalyst: effects of gold particle sizes on CO oxidation at 90 K. Materials Science and Engineering C, 2001, 15, 215-217.	7.3	85
12	Doping of a nanostructured titania thick film: structural and electrical investigations. Sensors and Actuators B: Chemical, 2000, 68, 274-280.	7.8	83
13	The oxidation and scrambling of CO with oxygen at room temperature on Au/ZnO. Catalysis Letters, 1994, 29, 225-234.	2.6	81
14	Preparation and characterization of SnO2 and MoOxâ€“SnO2 nanosized powders for thick film gas sensors. Sensors and Actuators B: Chemical, 1999, 58, 338-349.	7.8	81
15	FTIR study of methanol decomposition on gold catalyst for fuel cells. Journal of Power Sources, 2003, 118, 304-310.	7.8	74
16	Surface chemistry and electronic effects of H2 (D2) on two different microcrystalline ZnO powders. Surface Science, 1993, 287-288, 228-234.	1.9	64
17	New insight on the nature of catalytically active gold sites: Quantitative CO chemisorption data and analysis of FTIR spectra of adsorbed CO and of isotopic mixtures. Journal of Catalysis, 2009, 262, 169-176.	6.2	64
18	An IR study of CO-sensing mechanism on Au/ZnO. Sensors and Actuators B: Chemical, 1995, 25, 540-543.	7.8	60

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19	FTIR study of nanosized gold on ZrO2 and TiO2. Surface Science, 2003, 532-535, 377-382.	1.9	58
20	Pure hydrogen production on a new goldâ€“thoria catalyst for fuel cell applications. Applied Catalysis B: Environmental, 2006, 63, 94-103.	20.2	58
21	Interface species and effect of hydrogen on their amount in the CO oxidation on Au/ZnO. Applied Catalysis B: Environmental, 2004, 52, 259-266.	20.2	56
22	Formation of the MoVI Surface Phase on MoOx/ZrO2 Catalysts. The Journal of Physical Chemistry, 1995, 99, 5556-5567.	2.9	52
23	Preparation and characterization of SnO2 and WOxâ€“SnO2 nanosized powders and thick films for gas sensing. Sensors and Actuators B: Chemical, 2001, 78, 89-97.	7.8	50
24	Characterization of SnO2-based gas sensors. A spectroscopic and electrical study of thick films from commercial and laboratory-prepared samples. Sensors and Actuators B: Chemical, 1997, 44, 474-482.	7.8	48
25	Hydrogen interaction with gold nanoparticles and clusters supported on different oxides: A FTIR study. Catalysis Today, 2012, 181, 62-67.	4.4	48
26	CO adsorption on small particles of Cu dispersed on microcrystalline ZnO. Surface Science, 1985, 156, 933-942.	1.9	46
27	Moisture effects on pure and Pd-doped SnO2 thick films analysed by FTIR spectroscopy and conductance measurements. Sensors and Actuators B: Chemical, 1995, 25, 520-524.	7.8	44
28	The nature of surface chromium species on CrOx/ZrO2 catalysts. Journal of Molecular Catalysis, 1989, 55, 23-33.	1.2	42
29	Quantitative determination of sites able to chemisorb CO on Au/ZrO2 catalysts. Applied Catalysis A: General, 2009, 356, 31-35.	4.3	42
30	Surface reactions of Co on a metal-semiconductor system: Cu/Zno. Surface Science, 1985, 162, 361-367.	1.9	39
31	Gold catalysts for low temperature water-gas shift reaction: Effect of ZrO2 addition to CeO2 support. Applied Catalysis B: Environmental, 2012, 125, 507-515.	20.2	38
32	Optical properties of microcrystalline zinc oxide. Influence of defects produced by interaction with carbon monoxide. Journal of the Chemical Society, Faraday Transactions 2, 1983, 79, 1779.	1.1	37
33	Electrical and spectroscopic characterization of SnO2 and Pd-SnO2 thick films studied as CO gas sensors. Sensors and Actuators B: Chemical, 1998, 47, 205-212.	7.8	37
34	Au/TiO2 nanostructured catalyst: pressure and temperature effects on the FTIR spectra of CO adsorbed at 90 K. Surface Science, 2002, 502-503, 513-518.	1.9	37
35	Catalytically active gold sites: nanoparticles, borderline sites, clusters, cations, anions? FTIR spectra analysis of12CO and of12CO-13CO isotopic mixtures. Gold Bulletin, 2009, 42, 106-112.	2.7	37
36	Effects of ageing on porous silicon photoluminescence: Correlation with FTIR and UV-Vis spectra. Solid State Communications, 1997, 101, 11-16.	1.9	35

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37	Highly Dispersed Gold on Zirconia: Characterization and Activity in Lowâ€Temperature Water Gas Shift Tests. ChemSusChem, 2008, 1, 320-326.	6.8	33
38	The adsorption of O2 and NO on CrOx/ZrO2 catalysts, as investigated by IR and ESR spectroscopies. Journal of Molecular Catalysis, 1991, 68, 53-71.	1.2	31
39	Characterization of materials for gas sensors. Surface chemistry of SnO2 and MoOxâ€“SnO2 nano-sized powders and electrical responses of the related thick films. Sensors and Actuators B: Chemical, 1999, 59, 203-209.	7.8	30
40	Infrared evidence of metal-semiconductor interaction in a Ru/ZnO system. Surface Science, 1987, 189-190, 331-338.	1.9	29
41	Infrared study of surface chemistry and electronic effects of different atmospheres on SnO2. Sensors and Actuators, 1989, 19, 151-157.	1.7	29
42	Effects of structural defects and alloying on the FTIR spectra of CO adsorbed on. Surface Science, 1996, 368, 264-269.	1.9	29
43	IR study of gas-sensor materials: NO interaction on ZnO and TiO2, pure or modified by metals. Sensors and Actuators B: Chemical, 1992, 7, 645-650.	7.8	28
44	Pt/ZnO catalysts: Spectroscopic and catalytic evidences of a ligand effect as a consequence of PtZn alloying. Journal of Catalysis, 1990, 126, 381-387.	6.2	27
45	Preparation, Characterization, and Activity of Cu/TiO2Catalysts. II. Effect of the Catalyst Morphology on the Hydrogenation of 1,3-Cyclooctadiene and the COâ€“NO Reaction on Cu/TiO2Catalysts. Journal of Catalysis, 1997, 165, 140-149.	6.2	27
46	Surface chemistry and electronic effects of O2, NO and NO/O2 on SnO2. Sensors and Actuators B: Chemical, 1991, 5, 189-192.	7.8	26
47	An IR study of NO adsorption on a CrOx/ZrO2 catalyst. Spectrochimica Acta Part A: Molecular Spectroscopy, 1993, 49, 1345-1359.	0.1	26
48	Pt/ZnO System: IR study of the vibrational and electronical effects induced by heating in CO atmosphere. Surface Science, 1990, 233, 141-152.	1.9	23
49	A comparative study of SnO2 and CrOx/SnO2 powders: their microstructures and their different response to CO, NO, H2 and CH4 atmospheres. Sensors and Actuators B: Chemical, 1992, 7, 691-699.	7.8	23
50	IR study of the CO adsorption on Pt/ZnO samples: Evidence for a PtZn phase formation in the SMSI state. Surface Science, 1989, 209, 77-88.	1.9	21
51	FT-IR and UV-Vis-NIR characterisation of pure and mixed MoO3 and WO3 thin films. Thin Solid Films, 2005, 490, 74-80.	1.8	21
52	MoO3â€“WO3 mixed oxide powder and thin films for gas sensing devices: A spectroscopic characterisation. Sensors and Actuators B: Chemical, 2005, 111-112, 28-35.	7.8	19
53	Metal/n-zinc oxide interaction: effect of the surrounding atmosphere on IR transparency. Langmuir, 1989, 5, 66-70.	3.5	18
54	CO Adsorption on Gold Clusters Stabilized on Ceriaâ^'Titania Mixed Oxides:Â Comparison with Reference Catalysts. Journal of Physical Chemistry B, 2006, 110, 23329-23336.	2.6	18

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55	New gold catalysts supported on mixed ceria-titania oxides for water-gas shift and preferential CO oxidation reactions. Reaction Kinetics and Catalysis Letters, 2007, 91, 213-221.	0.6	18
56	Spectroscopic evidence for a new surface carbonyl species on a Cu/ZnO catalyst. Journal of the Chemical Society Chemical Communications, 1985, , 1012.	2.0	16
57	Effect of ceria structural properties on the catalytic activity of Auâ€“CeO2 catalysts for WGS reaction. Physical Chemistry Chemical Physics, 2013, 15, 13400.	2.8	16
58	Reactivity and electronic properties of two microcrystalline ZnO surfaces: interaction with CO and CO/O2. Vacuum, 1990, 41, 16-18.	3.5	15
59	Chemical and electronic characterization of pure SnO2 and Cr-doped SnO2 pellets through their different response to NO. Sensors and Actuators B: Chemical, 1995, 25, 564-567.	7.8	14
60	The operation of the â€œmetal-surface selection ruleâ€•on the vibrational spectra of species adsorbed on supported copper particles. Surface Science, 1986, 178, 553-564.	1.9	13
61	Infrared study of H2 sensing at 300 K using M/ZnO systems. Sensors and Actuators, 1989, 19, 119-124.	1.7	13
62	Surface chemistry and electronic effects of H2(D2) on pure SnO2 and Cr-doped SnO2. Sensors and Actuators B: Chemical, 1993, 16, 367-371.	7.8	13
63	Nature of the active site for propene hydrogenation on CrOx/ZrO2 catalysts. Journal of Molecular Catalysis, 1992, 75, 305-319.	1.2	10
64	Infrared study of surface chromium species on a CrOx/ZrO2 catalyst. Surface Science, 1991, 251-252, 1100-1105.	1.9	9
65	Chemisorption and catalytic properties of gold nanoparticles on different oxides. Studies in Surface Science and Catalysis, 2001, , 77-86.	1.5	9
66	Chemical and physical interactions between metal and oxidic supports in catalytic systems. Materials Chemistry and Physics, 1991, 29, 65-83.	4.0	8
67	IR study of NO reduction by CO on Pt/ZnO catalysts. Surface Science, 1992, 269-270, 514-519.	1.9	8
68	Cu-Ru/MgO Systems - Spectroscopic Evidence of the Formation of Bimetallic Particles: CO Adsorption and CO-O2 Interaction. Journal of Catalysis, 1993, 142, 437-447.	6.2	6
69	Optical studies of phase interaction in Cu/ZnO catalysts. Surface Science, 1987, 189-190, 894-902.	1.9	5
70	Aerobic oxidation of alcohols on Au/TiO2 catalyst: new insights on the role of active sites in the oxidation of primary and secondary alcohols. Monatshefte FÃ¼r Chemie, 2016, 147, 391-403.	1.8	5
71	Reduction of nitric oxide with hydrogen on chromia / zirconia catalysts. Applied Catalysis B: Environmental, 1994, 4, 257-273.	20.2	2
72	Metal-semiconductor interaction: Effect of H2 chemisorption on the IR transparency of the system. Surface Science Letters, 1987, 183, L285-L289.	0.1	0

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73	Adsorption and deuteration of acetone-d6 on Pt/ZnO catalysts: An IR study of the effects of sample pretreatment. Journal of Molecular Catalysis, 1993, 81, 373-386.	1.2	0