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	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
2	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
3	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
4	Hydrogen interaction with gold nanoparticles and clusters supported on different oxides: A FTIR study. Catalysis Today, 2012, 181, 62-67.	4.4	48
5	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
6	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
7	Quantitative determination of sites able to chemisorb CO on Au/ZrO2 catalysts. Applied Catalysis A: General, 2009, 356, 31-35.	4.3	42
8	Highly Dispersed Gold on Zirconia: Characterization and Activity in Lowâ€Temperature Water Gas Shift Tests. ChemSusChem, 2008, 1, 320-326.	6.8	33
9	Spectroscopic features and reactivity of CO adsorbed on different Au/CeO2 catalysts. Journal of Catalysis, 2007, 245, 308-315.	6.2	133
10	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
11	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
12	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
13	Pure hydrogen production on a new goldâ€“thoria catalyst for fuel cell applications. Applied Catalysis B: Environmental, 2006, 63, 94-103.	20.2	58
14	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
15	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
16	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
17	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
18	FTIR study of nanosized gold on ZrO2 and TiO2. Surface Science, 2003, 532-535, 377-382.	1.9	58

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19	FTIR study of methanol decomposition on gold catalyst for fuel cells. Journal of Power Sources, 2003, 118, 304-310.	7.8	74
20	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
21	Chemisorption and catalytic properties of gold nanoparticles on different oxides. Studies in Surface Science and Catalysis, 2001, , 77-86.	1.5	9
22	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
23	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
24	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
25	Doping of a nanostructured titania thick film: structural and electrical investigations. Sensors and Actuators B: Chemical, 2000, 68, 274-280.	7.8	83
26	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
27	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
28	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
29	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
30	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
31	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
32	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
33	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
34	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
35	Effects of ageing on porous silicon photoluminescence: Correlation with FTIR and UV-Vis spectra. Solid State Communications, 1997, 101, 11-16.	1.9	35
36	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

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37	Effects of structural defects and alloying on the FTIR spectra of CO adsorbed on. Surface Science, 1996, 368, 264-269.	1.9	29
38	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
39	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
40	An IR study of CO-sensing mechanism on Au/ZnO. Sensors and Actuators B: Chemical, 1995, 25, 540-543.	7.8	60
41	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
42	Formation of the MoVI Surface Phase on MoOx/ZrO2 Catalysts. The Journal of Physical Chemistry, 1995, 99, 5556-5567.	2.9	52
43	The oxidation and scrambling of CO with oxygen at room temperature on Au/ZnO. Catalysis Letters, 1994, 29, 225-234.	2.6	81
44	Reduction of nitric oxide with hydrogen on chromia / zirconia catalysts. Applied Catalysis B: Environmental, 1994, 4, 257-273.	20.2	2
45	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
46	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
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	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
49	Surface chemistry and electronic effects of H2 (D2) on two different microcrystalline ZnO powders. Surface Science, 1993, 287-288, 228-234.	1.9	64
50	IR study of NO reduction by CO on Pt/ZnO catalysts. Surface Science, 1992, 269-270, 514-519.	1.9	8
51	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
52	Nature of the active site for propene hydrogenation on CrOx/ZrO2 catalysts. Journal of Molecular Catalysis, 1992, 75, 305-319.	1.2	10
53	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
54	Infrared study of surface chromium species on a CrOx/ZrO2 catalyst. Surface Science, 1991, 251-252, 1100-1105.	1.9	9

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55	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
56	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
57	Chemical and physical interactions between metal and oxidic supports in catalytic systems. Materials Chemistry and Physics, 1991, 29, 65-83.	4.0	8
58	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
59	Reactivity and electronic properties of two microcrystalline ZnO surfaces: interaction with CO and CO/O2. Vacuum, 1990, 41, 16-18.	3.5	15
60	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
61	The nature of surface chromium species on CrOx/ZrO2 catalysts. Journal of Molecular Catalysis, 1989, 55, 23-33.	1.2	42
62	Infrared study of H2 sensing at 300 K using M/ZnO systems. Sensors and Actuators, 1989, 19, 119-124.	1.7	13
63	Infrared study of surface chemistry and electronic effects of different atmospheres on SnO2. Sensors and Actuators, 1989, 19, 151-157.	1.7	29
64	Metal/n-zinc oxide interaction: effect of the surrounding atmosphere on IR transparency. Langmuir, 1989, 5, 66-70.	3.5	18
65	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
66	Infrared evidence of metal-semiconductor interaction in a Ru/ZnO system. Surface Science, 1987, 189-190, 331-338.	1.9	29
67	Optical studies of phase interaction in Cu/ZnO catalysts. Surface Science, 1987, 189-190, 894-902.	1.9	5
68	Metal-semiconductor interaction: Effect of H2 chemisorption on the IR transparency of the system. Surface Science Letters, 1987, 183, L285-L289.	0.1	0
69	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
70	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
71	CO adsorption on small particles of Cu dispersed on microcrystalline ZnO. Surface Science, 1985, 156, 933-942.	1.9	46
72	Surface reactions of Co on a metal-semiconductor system: Cu/Zno. Surface Science, 1985, 162, 361-367.	1.9	39

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73	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