Sara Morandi

List of Publications by Year in descending order

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Version: 2024-02-01

86 papers

1,820 citations

236925 25 h-index 315739 38 g-index

86 all docs 86 docs citations

86 times ranked 2405 citing authors

#	Article	IF	CITATIONS
1	Metal Oxide Gas Sensors from Design to Real Applications: The Case Study of TixSn1-xO2 Solid Solutions. Lecture Notes in Electrical Engineering, 2023, , 92-97.	0.4	1
2	DFT and kinetic evidences of the preferential CO oxidation pattern of manganese dioxide catalysts in hydrogen stream (PROX). Applied Catalysis B: Environmental, 2022, 300, 120715.	20.2	14
3	Gas phase <i>vs.</i> liquid phase: monitoring H ₂ and CO adsorption phenomena on Pt/Al ₂ O ₃ by IR spectroscopy. Catalysis Science and Technology, 2022, 12, 1359-1367.	4.1	5
4	Supported PdZn nanoparticles for selective CO2 conversion, through the grafting of a heterobimetallic complex on CeZrOx. Applied Catalysis A: General, 2022, 635, 118568.	4.3	4
5	Investigation of the key parameters for gas sensing through comparison of electrospun and sol-gel semiconducting oxides. Ceramics International, 2022, 48, 20948-20960.	4.8	7
6	Low-temperature Pd/FER NOx adsorbers: Operando FT-IR spectroscopy and performance analysis. Catalysis Today, 2021, 360, 317-325.	4.4	26
7	Development of an easy portable procedure for on-site determination of mercury and methylmercury. Food Chemistry, 2021, 342, 128347.	8.2	6
8	Tailoring manganese oxide catalysts for the total oxidation of pollutants in gas and liquid phase. Applied Catalysis A: General, 2021, 610, 117917.	4.3	6
9	CO ₂ hydrogenation to methanol and hydrocarbons over bifunctional Zn-doped ZrO ₂ /zeolite catalysts. Catalysis Science and Technology, 2021, 11, 1249-1268.	4.1	33
10	Characterization of the Evolution of Noble Metal Particles in a Commercial Three-Way Catalyst: Correlation between Real and Simulated Ageing. Catalysts, 2021, 11, 247.	3.5	10
11	Steering polymer growth by molding nanochannels: 1,5-hexadiene polymerization in high silica mordenite. Microporous and Mesoporous Materials, 2021, 311, 110728.	4.4	7
12	Growth Mechanisms of ZnO Micro-Nanomorphologies and Their Role in Enhancing Gas Sensing Properties. Sensors, 2021, 21, 1331.	3.8	14
13	Nanosized SnO2 Prepared by Electrospinning: Influence of the Polymer on Both Morphology and Microstructure. Polymers, 2021, 13, 977.	4.5	12
14	Optical Sensing of Molecular Oxygen (O2) via Metal Oxide Photoluminescence: A Comparative Study of TiO2, SnO2 and ZnO. Chemosensors, 2021, 9, 163.	3.6	2
15	Multifunctional Catalyst Combination for the Direct Conversion of CO ₂ to Propane. Jacs Au, 2021, 1, 1719-1732.	7.9	25
16	(Ti,Sn) Solid Solution Based Gas Sensors for New Monitoring of Hydraulic Oil Degradation. Materials, 2021, 14, 605.	2.9	11
17	Deactivation of Industrial Pd/Al ₂ O ₃ Catalysts by Ethanol: A Spectroscopic Study. ChemCatChem, 2021, 13, 900-908.	3.7	5
18	Structural and mechanistic insights into low-temperature CO oxidation over a prototypical high entropy oxide by Cu L-edge operando soft X-ray absorption spectroscopy. Physical Chemistry Chemical Physics, 2021, 23, 26575-26584.	2.8	17

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19	Semiconductor Oxide Gas Sensors: Correlation between Conduction Mechanisms and Their Sensing Performances. , $2021, 5, .$		0
20	Thermal behavior of high silica mordenite. Microporous and Mesoporous Materials, 2020, 294, 109882.	4.4	4
21	Unraveling the effect of ZrO ₂ modifiers on the nature of active sites on AuRu/ZrO ₂ catalysts for furfural hydrogenation. Sustainable Energy and Fuels, 2020, 4, 1469-1480.	4.9	10
22	Operational functionalities of air-quality W Sn metal-oxide sensors correlating semiconductor defect levels and surface potential barriers. Science of the Total Environment, 2020, 706, 135731.	8.0	11
23	Tunable formation of nanostructured SiC/SiOC core-shell for selective detection of SO2. Sensors and Actuators B: Chemical, 2020, 305, 127485.	7.8	25
24	Dynamics of Reactive Species and Reactant-Induced Reconstruction of Pt Clusters in Pt/Al ₂ O ₃ Catalysts. ACS Catalysis, 2019, 9, 7124-7136.	11.2	31
25	Pathways for N2O Formation/Reduction During Operation of Commercial LNT Catalysts. Topics in Catalysis, 2019, 62, 18-26.	2.8	0
26	Micro-TiO2 coated glass surfaces safely abate drugs in surface water. Journal of Hazardous Materials, 2019, 363, 328-334.	12.4	22
27	Zeolite/dye hybrid composites: Organization of photoactive azobenzene molecules inside AlPO4-5. Microporous and Mesoporous Materials, 2018, 268, 25-30.	4.4	5
28	Looking for the active hydrogen species in a 5Âwt% Pt/C catalyst: a challenge for inelastic neutron scattering. Faraday Discussions, 2018, 208, 227-242.	3.2	20
29	Micro-sized TiO2 as photoactive catalyst coated on industrial porcelain grÃ's tiles to photodegrade drugs in water. Environmental Science and Pollution Research, 2018, 25, 20348-20353.	5.3	17
30	New insights on the adsorption, thermal decomposition and reduction of NOx over Pt- and Ba-based catalysts. Applied Catalysis B: Environmental, 2018, 224, 249-263.	20.2	42
31	Selective hydrogenation of cinnamaldehyde using Pd catalysts supported on Mg/Al mixed oxides: Influence of the Pd incorporation method. Canadian Journal of Chemical Engineering, 2018, 96, 297-306.	1.7	7
32	Novel Methodology Based on Thick Film Gas Sensors to Monitor the Hydraulic Oil Ageing. Proceedings (mdpi), 2018, 2, .	0.2	0
33	W-Sn Mixed Oxides and ZnO to Detect NOx and Ozone in Atmosphere. Proceedings (mdpi), 2018, 2, .	0.2	0
34	Dynamics and Selectivity of N2O Formation/Reduction During Regeneration Phase of Pt-Based Catalysts. Topics in Catalysis, 2018, 61, 1672-1683.	2.8	6
35	Low Temperature NOx Adsorption Study on Pd-Promoted Zeolites. Topics in Catalysis, 2018, 61, 2021-2034.	2.8	40
36	New Insights on the Release and Reduction of NOx Stored over PGM-Based LNT Catalysts. Topics in Catalysis, 2017, 60, 250-254.	2.8	3

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37	Facile synthesis of ZnO nano-structures: Morphology influence on electronic properties. Sensors and Actuators B: Chemical, 2017, 249, 581-589.	7.8	30
38	Aspirin and paracetamol removal using a commercial micro-sized TiO2 catalyst in deionized and tap water. Environmental Science and Pollution Research, 2017, 24, 12646-12654.	5. 3	26
39	Removal of NOx and soot over Ce/Zr/K/Me (Me = Fe, Pt, Ru, Au) oxide catalysts. Applied Catalysis B: Environmental, 2017, 201, 318-330.	20.2	53
40	Ultrasensitive Gas Sensors Based on Electrospun TiO2 and ZnO â€. Proceedings (mdpi), 2017, 1, 485.	0.2	1
41	Ultrasensitive Gas Sensors Based on Electrospun TiO2 and ZnO. Proceedings (mdpi), 2017, 1, .	0.2	2
42	Shedding light on precursor and thermal treatment effects on the nanostructure of electrospun TiO2 fibers. Nano Structures Nano Objects, 2016, 7, 49-55.	3.5	7
43	Chemoresistive Gas Sensors for Sub-ppm Acetone Detection. Procedia Engineering, 2016, 168, 485-488.	1.2	16
44	In-situ infrared spectroscopy as a non-invasive technique to study carbon sequestration at high pressure and high temperature. International Journal of Greenhouse Gas Control, 2016, 51, 126-135.	4.6	3
45	Cation Dependent Carbonate Speciation and the Effect of Water. Journal of Physical Chemistry C, 2016, 120, 17570-17578.	3.1	6
46	Copper NPs decorated titania: A novel synthesis by high energy US with a study of the photocatalytic activity under visible light. Ultrasonics Sonochemistry, 2016, 31, 295-301.	8.2	25
47	Formaldehyde sensing mechanism of SnO ₂ nanowires grown on-chip by sputtering techniques. RSC Advances, 2016, 6, 18558-18566.	3.6	15
48	Recovery of hexavalent chromium from water using photoactive TiO2-montmorillonite under sunlight. Mediterranean Journal of Chemistry, 2016, 5, 442-449.	0.7	4
49	Nano and micro-TiO ₂ for the photodegradation of ethanol: experimental data and kinetic modelling. RSC Advances, 2015, 5, 53419-53425.	3 . 6	37
50	The Role of the Nano/Microstructure in the Case of the Photodegradation of Two Model VOC Pollutants Using Commercial TiO ₂ . Energy and Environment Focus, 2015, 4, 226-231.	0.3	1
51	Photo-mineralization of noxious o-toluidine water pollutant by nano-ZnO: The role of the oxide surface texture on the kinetic path. Applied Catalysis B: Environmental, 2015, 178, 233-240.	20.2	12
52	Pigmentary TiO2: A challenge for its use as photocatalyst in NOx air purification. Chemical Engineering Journal, 2015, 261, 76-82.	12.7	46
53	Surface decoration of commercial micro-sized TiO2 by means of high energy ultrasound: A way to enhance its photocatalytic activity under visible light. Applied Catalysis B: Environmental, 2015, 178, 124-132.	20.2	31
54	The influence of CO2 and H2O on the storage properties of Pt-Ba/Al2O3 LNT catalyst studied by FT-IR spectroscopy and transient microreactor experiments. Catalysis Today, 2014, 231, 116-124.	4.4	29

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55	(Ti,Sn) solid solutions as functional materials for gas sensing. Sensors and Actuators B: Chemical, 2014, 194, 195-205.	7.8	25
56	Photocatalytic degradation of dyes in water with micro-sized TiO2 as powder or coated on porcelain-grÃ's tiles. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 280, 27-31.	3.9	46
57	<i>n</i> -Heptane As a Reducing Agent in the NO _{<i>x</i>} Removal over a Pt–Ba/Al ₂ O ₃ NSR Catalyst. ACS Catalysis, 2014, 4, 3261-3272.	11.2	10
58	Photoactive TiO2–montmorillonite composite for degradation of organic dyes in water. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 295, 57-63.	3.9	103
59	Effect of water and ammonia on surface species formed during NOx storage–reduction cycles over Pt–K/Al2O3 and Pt–Ba/Al2O3 catalysts. Physical Chemistry Chemical Physics, 2013, 15, 13409.	2.8	18
60	Properties of NiO sputtered thin films and modeling of their sensing mechanism under formaldehyde atmospheres. Acta Materialia, 2013, 61, 1146-1153.	7.9	62
61	FTIR and Transient Reactivity Experiments of the Reduction by H2, CO and HCs of NO x Stored Over Pt–Ba/Al2O3 LNTs. Topics in Catalysis, 2013, 56, 193-200.	2.8	6
62	FT-IR characterization of supported Ni-catalysts: Influence of different supports on the metal phase properties. Catalysis Today, 2012, 197, 38-49.	4.4	31
63	Mesoporous In2O3: Photoreduction and Gas-Sensing Properties. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 1563-1563.	1.2	1
64	Photoreduction of Mesoporous In ₂ O ₃ : Mechanistic Model and Utility in Gas Sensing. Chemistry - A European Journal, 2012, 18, 8216-8223.	3.3	61
65	Supported Ni catalysts prepared by intercalation of Layered Double Hydroxides: Investigation of acid–base properties and nature of Ni phases. Microporous and Mesoporous Materials, 2012, 147, 178-187.	4.4	15
66	The NOx Reduction by CO on a Ptâ^'K/Al2O3 Lean NOx Trap Catalyst. Journal of Physical Chemistry C, 2011, 115, 1277-1286.	3.1	22
67	Catalytic behaviour of hybrid LNT/SCR systems: Reactivity and in situ FTIR study. Journal of Catalysis, 2011, 282, 128-144.	6.2	65
68	Reduction by CO of NOx species stored onto Pt–K/Al2O3 and Pt–Ba/Al2O3 lean NOx traps. Catalysis Today, 2011, 176, 399-403.	4.4	16
69	Electrical and spectroscopic analysis in nanostructured SnO2: "Long-term―resistance drift is due to in-diffusion. Journal of Applied Physics, 2011, 110, .	2.5	19
70	Alkaline- and alkaline-earth oxides based Lean NOx Traps: Effect of the storage component on the catalytic reactivity. Chemical Engineering Journal, 2010, 161, 416-423.	12.7	45
71	Reaction pathway of the reduction by CO under dry conditions of NOx species stored onto PtBa/Al2O3 Lean NOx Trap catalysts. Journal of Catalysis, 2010, 274, 163-175.	6.2	34
72	The NOx storage-reduction on PtK/Al2O3 Lean NOx Trap catalyst. Journal of Catalysis, 2010, 276, 335-350.	6.2	51

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73	Ptâ^'K/Al ₂ O ₃ NSR Catalysts: Characterization of Morphological, Structural and Surface Properties. Journal of Physical Chemistry C, 2010, 114, 1127-1138.	3.1	44
74	(Ti, Sn)O2 solid solutions for gas sensing: A systematic approach by different techniques for different calcination temperature and molar composition. Sensors and Actuators B: Chemical, 2009, 139, 329-339.	7.8	33
75	Electrical and spectroscopic properties of Ti0.2 Sn0.8O2 solid solution for gas sensing. Thin Solid Films, 2009, 517, 6176-6183.	1.8	30
76	Structural and spectroscopic characterization of Mo1â^'xWxO3â^'Î^ mixed oxides. Journal of Solid State Chemistry, 2009, 182, 3342-3352.	2.9	21
77	(Ti, Sn)O2 binary solid solutions for gas sensing: Spectroscopic, optical and transport properties. Sensors and Actuators B: Chemical, 2008, 130, 38-45.	7.8	40
78	FT-IR investigation of NOx storage properties of Pt–Mg(Al)O and Pt/Cu–Mg(Al)O catalysts obtained from hydrotalcite compounds. Microporous and Mesoporous Materials, 2008, 107, 31-38.	4.4	19
79	Characterization of Pt,Sn/Mg(Al)O Catalysts for Light Alkane Dehydrogenation by FT-IR Spectroscopy and Catalytic Measurements. Journal of Physical Chemistry C, 2007, 111, 14732-14742.	3.1	93
80	Synthesis and characterization of Pt/Mg(Al)O catalysts obtained from layered double hydroxides by different routes. Microporous and Mesoporous Materials, 2007, 103, 48-56.	4.4	20
81	Surface barrier modulation and diffuse reflectance spectroscopy of MoO3–WO3 thick films. Sensors and Actuators B: Chemical, 2006, 118, 94-97.	7.8	6
82	Synthesis and characterisation of gas sensor materials obtained from Pt/Zn/Al layered double hydroxides. Sensors and Actuators B: Chemical, 2006, 118, 215-220.	7.8	29
83	Cr–Sn oxide thin films: Electrical and spectroscopic characterisation with CO, NO2, NH3 and ethanol. Sensors and Actuators B: Chemical, 2006, 118, 142-148.	7.8	14
84	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
85	MoO3–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
86	A New Frontier of Photocatalysis Employing Micro-Sized TiO2: Air/Water Pollution Abatement and Self-Cleaning/ Antibacterial Applications. , 0, , .		9