

Maria Cristina Paganini

List of Publications by Year in descending order

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83
papers

4,921
citations

147726

31
h-index

88593

70
g-index

85
all docs

85
docs citations

85
times ranked

5761
citing authors

#	ARTICLE	IF	CITATIONS
1	N-doped TiO ₂ : Theory and experiment. <i>Chemical Physics</i> , 2007, 339, 44-56.	0.9	864
2	Origin of Photoactivity of Nitrogen-Doped Titanium Dioxide under Visible Light. <i>Journal of the American Chemical Society</i> , 2006, 128, 15666-15671.	6.6	818
3	Generation of superoxide ions at oxide surfaces. <i>Topics in Catalysis</i> , 1999, 8, 189-198.	1.3	312
4	Charge trapping in TiO ₂ polymorphs as seen by Electron Paramagnetic Resonance spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 9435.	1.3	188
5	The nature of paramagnetic species in nitrogen doped TiO ₂ active in visible light photocatalysis. <i>Chemical Communications</i> , 2005, , 498.	2.2	181
6	Mechanism of the Photoactivity under Visible Light of N-Doped Titanium Dioxide. Charge Carriers Migration in Irradiated N-TiO ₂ Investigated by Electron Paramagnetic Resonance.. <i>Journal of Physical Chemistry C</i> , 2012, 116, 20887-20894.	1.5	155
7	Paramagnetic Defects in Polycrystalline Zirconia: An EPR and DFT Study. <i>Chemistry of Materials</i> , 2013, 25, 2243-2253.	3.2	148
8	On the Nature of Reduced States in Titanium Dioxide As Monitored by Electron Paramagnetic Resonance. I: The Anatase Case. <i>Journal of Physical Chemistry C</i> , 2011, 115, 25413-25421.	1.5	147
9	Excess Electrons Stabilized on Ionic Oxide Surfaces. <i>Accounts of Chemical Research</i> , 2006, 39, 861-867.	7.6	144
10	An EPR Study of the Surface Chemistry of the V ₂ O ₅ /WO ₃ /TiO ₂ Catalyst: Redox Behaviour and State of V(IV). <i>Journal of Catalysis</i> , 1997, 166, 195-205.	3.1	104
11	Rare earth ions doped ZnO: Synthesis, characterization and preliminary photoactivity assessment. <i>Journal of Solid State Chemistry</i> , 2018, 264, 42-47.	1.4	76
12	Single Electron Traps at the Surface of Polycrystalline MgO: Assignment of the Main Trapping Sites. <i>Journal of Physical Chemistry B</i> , 2005, 109, 7314-7322.	1.2	74
13	Preparation and spectroscopic characterization of visible light sensitized N doped TiO ₂ (rutile). <i>Journal of Solid State Chemistry</i> , 2009, 182, 160-164.	1.4	71
14	First Evidence of a Single-Ion Electron Trap at the Surface of an Ionic Oxide. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 1759-1761.	7.2	69
15	Nitrogen-doped and nitrogen-fluorine-codoped titanium dioxide. Nature and concentration of the photoactive species and their role in determining the photocatalytic activity under visible light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009, 205, 93-97.	2.0	61
16	Nature of Reduced States in Titanium Dioxide as Monitored by Electron Paramagnetic Resonance. II: Rutile and Brookite Cases. <i>Journal of Physical Chemistry C</i> , 2014, 118, 22141-22148.	1.5	60
17	Origin of Visible Light Photoactivity of the CeO ₂ /ZnO Heterojunction. <i>ACS Applied Energy Materials</i> , 2018, 1, 4247-4260.	2.5	60
18	Assessment of the abatement of acelsulfame K using cerium doped ZnO as photocatalyst. <i>Journal of Hazardous Materials</i> , 2017, 323, 471-477.	6.5	59

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19	Probing the Local Environment of Ti ³⁺ Ions in TiO ₂ (Rutile) by ¹⁷ O HYSCORE. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8038-8040.	7.2	57
20	Structural and spectroscopic characterization of CeO ₂ –TiO ₂ mixed oxides. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10918.	5.2	51
21	Location and activity of VO _x species on TiO ₂ particles for NH ₃ -SCR catalysis. <i>Applied Catalysis B: Environmental</i> , 2020, 278, 119337.	10.8	50
22	Photocatalytic performances of rare earth element-doped zinc oxide toward pollutant abatement in water and wastewater. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 159-166.	10.8	49
23	Post-irradiation oxidation of different polyethylenes. <i>Polymer Degradation and Stability</i> , 2011, 96, 624-629.	2.7	47
24	ZnO-based materials and enzymes hybrid systems as highly efficient catalysts for recalcitrant pollutants abatement. <i>Chemical Engineering Journal</i> , 2018, 334, 2530-2538.	6.6	46
25	Quantitative Investigation of MgO Brønsted Basicity: DFT, IR, and Calorimetry Study of Methanol Adsorption. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3008-3016.	1.5	45
26	O [•] radical ions on MgO as a tool to unravel structure and location of ionic vacancies at the surface of oxides: a coupled experimental and theoretical investigation. <i>Surface Science</i> , 2001, 494, 95-110.	0.8	44
27	Photoactivity under visible light of defective ZnO investigated by EPR spectroscopy and photoluminescence. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 397, 112531.	2.0	44
28	Decreasing the oxidative potential of TiO ₂ nanoparticles through modification of the surface with carbon: a new strategy for the production of safe UV filters. <i>Chemical Communications</i> , 2010, 46, 8478.	2.2	42
29	Synthesis and characterization of Ce and Er doped ZrO ₂ nanoparticles as solar light driven photocatalysts. <i>Journal of Alloys and Compounds</i> , 2019, 775, 896-904.	2.8	39
30	Cerium doped zirconium dioxide as a potential new photocatalytic material. The role of the preparation method on the properties of the material. <i>Applied Catalysis A: General</i> , 2015, 504, 338-343.	2.2	35
31	Photocatalytic activity of TiO ₂ -WO ₃ mixed oxides in formic acid oxidation. <i>Catalysis Today</i> , 2017, 287, 176-181.	2.2	33
32	The effect of cobalt doping on the efficiency of semiconductor oxides in the photocatalytic water remediation. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103475.	3.3	32
33	Nitrogen-doped semiconducting oxides. Implications on photochemical, photocatalytic and electronic properties derived from EPR spectroscopy. <i>Chemical Science</i> , 2020, 11, 6623-6641.	3.7	32
34	O [•] radical anions on polycrystalline MgO. <i>Surface Science</i> , 2002, 521, 104-116.	0.8	30
35	Lifetime of alkyl macroradicals in irradiated ultra-high molecular weight polyethylene. <i>Polymer Degradation and Stability</i> , 2007, 92, 1498-1503.	2.7	30
36	Synthesis, Characterization, and Photocatalytic Tests of N-Doped Zinc Oxide: A New Interesting Photocatalyst. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-7.	1.5	30

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37	The role of Cerium, Europium and Erbium doped TiO ₂ photocatalysts in water treatment: A mini-review. <i>Chemical Engineering Journal Advances</i> , 2022, 10, 100268.	2.4	29
38	Surface Color Centers on Calcium Oxide: An Electron Paramagnetic Resonance Investigation. <i>Langmuir</i> , 1997, 13, 5306-5315.	1.6	28
39	Structural and spectroscopic properties of high temperature prepared ZrO ₂ -TiO ₂ mixed oxides. <i>Journal of Solid State Chemistry</i> , 2013, 201, 222-228.	1.4	27
40	Electron Traps on Oxide Surfaces: (H ⁺)(e ⁻) Pairs Stabilized on the Surface of 17O Enriched CaO. <i>ChemPhysChem</i> , 2006, 7, 728-734.	1.0	24
41	Trapped molecular species in N-doped TiO ₂ . <i>Research on Chemical Intermediates</i> , 2007, 33, 739-747.	1.3	24
42	Photoactivity properties of ZnO doped with cerium ions: an EPR study. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 444001.	0.7	23
43	EPR Study of the Surface Basicity of Calcium Oxide. 3. Surface Reactivity and Nonstoichiometry. <i>Journal of Physical Chemistry B</i> , 2006, 110, 11918-11923.	1.2	22
44	Structural and spectroscopic characterization of Mo _{1-x} W _x O ₃ mixed oxides. <i>Journal of Solid State Chemistry</i> , 2009, 182, 3342-3352.	1.4	21
45	Dependence between Ionic Liquid Structure and Mechanism of Visible-Light-Induced Activity of TiO ₂ Obtained by Ionic-Liquid-Assisted Solvothermal Synthesis. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3927-3937.	3.2	21
46	Electron magnetic resonance in heterogeneous photocatalysis research. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 444001.	0.7	21
47	New insight into zinc oxide doped with iron and its exploitation to pollutants abatement. <i>Catalysis Today</i> , 2019, 328, 230-234.	2.2	21
48	Beyond TiO ₂ : Cerium-Doped Zinc Oxide as a New Photocatalyst for the Photodegradation of Persistent Pollutants. <i>ChemistrySelect</i> , 2016, 1, 3377-3383.	0.7	20
49	Different approaches for the solar photocatalytic removal of micro-contaminants from aqueous environment: Titania vs. hybrid magnetic iron oxides. <i>Catalysis Today</i> , 2019, 328, 164-171.	2.2	20
50	Radical formation induced by ⁶⁰ Co radiation in poly(vinyl chloride) powder. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 215, 471-478.	0.6	19
51	Continuous wave electron paramagnetic resonance spectroscopy in the investigation of the surface properties and chemical reactivity of an ionic oxide (MgO). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1996, 115, 157-170.	2.3	18
52	An Easy Synthesis for Preparing Bio-Based Hybrid Adsorbent Useful for Fast Adsorption of Polar Pollutants. <i>Nanomaterials</i> , 2019, 9, 731.	1.9	16
53	Mechanism of visible photon absorption: unveiling of the C ₃ N ₄ -ZnO photoactive interface by means of EPR spectroscopy. <i>Materials Advances</i> , 2020, 1, 2357-2367.	2.6	16
54	SO ₂ reactivity on the MgO and CaO surfaces: A CW-EPR study of oxo-sulphur radical anions. <i>Journal of Molecular Catalysis A</i> , 2010, 322, 39-44.	4.8	14

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55	Electron beam radiation effects on UHMWPE: an EPR study. <i>Magnetic Resonance in Chemistry</i> , 2011, 49, 562-569.	1.1	14
56	Formation of Reversible Adducts by Adsorption of Oxygen on Ce ^{IV} ZrO ₂ : An Unusual $\dot{\text{I}}^{\text{2}}$ Ionic Superoxide. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27088-27096.	1.5	14
57	The role of Yb doped ZnO in the charge transfer process and stabilization. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152555.	2.8	13
58	Combining the highest degradation efficiency with the lowest environmental impact in zinc oxide based photocatalytic systems. <i>Journal of Cleaner Production</i> , 2020, 252, 119762.	4.6	13
59	Partial Ionization of Cesium Atoms at Point Defects over Polycrystalline Magnesium Oxide. <i>Journal of Physical Chemistry B</i> , 2001, 105, 10457-10460.	1.2	12
60	Bidimensional Solvation and Delocalisation of Electrons at the Surface of an Insulating Oxide: The Role of Surface Hydroxyl Groups on MgO. <i>ChemPhysChem</i> , 2004, 5, 1897-1900.	1.0	12
61	Heterogeneity of surface colour centres on alkaline earth metal oxides as revealed through EPR/ENDOR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2002, 40, 381-386.	1.1	11
62	Coadsorption of NO and H ₂ at the surface of MgO monitored by EPR spectroscopy. Towards a site specific discrimination of polycrystalline oxide surfaces. <i>Surface Science</i> , 2003, 527, 80-88.	0.8	11
63	The interaction of oxygen with the surface of CeO ₂ /TiO ₂ mixed systems: an example of fully reversible surface-to-molecule electron transfer. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 21438-21445.	1.3	11
64	Control of Membrane Fouling in Organics Filtration Using Ce-Doped Zirconia and Visible Light. <i>Nanomaterials</i> , 2019, 9, 534.	1.9	11
65	Cerium-, Europium- and Erbium-Modified ZnO and ZrO ₂ for Photocatalytic Water Treatment Applications: A Review. <i>Catalysts</i> , 2021, 11, 1520.	1.6	11
66	Nitrogen-Doped Zinc Oxide for Photo-Driven Molecular Hydrogen Production. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5222.	1.8	9
67	EPR of Charge Carriers Stabilized at the Surface of Metal Oxides. <i>Applied Magnetic Resonance</i> , 2010, 37, 605-618.	0.6	8
68	First Evidence of a Single-Ion Electron Trap at the Surface of an Ionic Oxide. <i>Angewandte Chemie</i> , 2003, 115, 1801-1803.	1.6	7
69	Exploring the Interaction of Ammonia with Supported Vanadia Catalysts by Continuous Wave and Pulsed Electron Paramagnetic Resonance Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 7861-7869.	1.5	7
70	HYSORE and Davies ENDOR study of irradiated ultra high molecular weight polyethylene. <i>Magnetic Resonance in Chemistry</i> , 2012, 50, 615-619.	1.1	6
71	Comparison of the Photocatalytic Activity of ZnO/CeO ₂ and ZnO/Yb ₂ O ₃ Mixed Systems in the Phenol Removal from Water: A Mechanistic Approach. <i>Catalysts</i> , 2020, 10, 1222.	1.6	6
72	Ternary systems based on ZnO/CeO ₂ /Cu ₂ O for the degradation of phenol and carbamazepine. <i>Journal of Alloys and Compounds</i> , 2021, 856, 158167.	2.8	6

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73	Photocatalytic reductive and oxidative ability study of pristine ZnO and CeO ₂ -ZnO heterojunction impregnated with Cu ₂ O. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 427, 113775.	2.0	6
74	Preparation and spectroscopic characterisation of nitrogen doped titanium dioxide. <i>Studies in Surface Science and Catalysis</i> , 2005, 155, 375-380.	1.5	4
75	Reduction and fragmentation of CS ₂ at the surface of electron-rich MgO: an EPR study. <i>Research on Chemical Intermediates</i> , 2006, 32, 777-786.	1.3	4
76	Natural solar activation of modified zinc oxides with rare earth elements (Ce, Yb) and Fe for the simultaneous disinfection and decontamination of urban wastewater. <i>Chemosphere</i> , 2022, 303, 135017.	4.2	4
77	Point Defects in Electron Paramagnetic Resonance. <i>Springer Series in Surface Sciences</i> , 2015, , 303-326.	0.3	3
78	Zinc oxide hollow spheres decorated with cerium dioxide. The role of morphology in the photoactivity of semiconducting oxides. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 134001.	0.7	2
79	Red Upconverter Nanocrystals Functionalized with Verteporfin for Photodynamic Therapy Triggered by Upconversion. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6951.	1.8	2
80	EPR study of electron trapping on partially hydroxylated alkali-earth oxides occurring during SO ₂ disproportionation. <i>Journal of Molecular Catalysis A</i> , 2011, 349, 100-104.	4.8	1
81	EPR study of the relationship between ultra high molecular weight polyethylene structure and radicals formed during irradiation with high energy sources. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 194-199.	1.1	1
82	The "Lab4treat" Outreach Experience: Preparation of Sustainable Magnetic Nanomaterials for Remediation of Model Wastewater. <i>Molecules</i> , 2021, 26, 3361.	1.7	1
83	Photoactive systems based on semiconducting metal oxides. , 2021, , 221-234.		0