

Raquel Portela

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49
papers

1,626
citations

21
h-index

40
g-index

52
ext. papers

1,828
ext. citations

9
avg, IF

4.62
L-index

#	Paper	IF	Citations
49	Photocatalytic materials: recent achievements and near future trends. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2863-2884	13	342
48	Synthesis and photocatalytic properties of dense and porous TiO ₂ -anatase thin films prepared by sol-gel. <i>Applied Catalysis B: Environmental</i> , 2009 , 86, 1-7	21.8	158
47	Kinetics of denitrification using sulphur compounds: effects of S/N ratio, endogenous and exogenous compounds. <i>Bioresource Technology</i> , 2008 , 99, 1293-9	11	83
46	Photocatalytic oxidation of 2-propanol/toluene binary mixtures at indoor air concentration levels. <i>Applied Catalysis B: Environmental</i> , 2011 , 107, 347-354	21.8	74
45	Preparation of TiO ₂ coatings on PET monoliths for the photocatalytic elimination of trichloroethylene in the gas phase. <i>Applied Catalysis B: Environmental</i> , 2006 , 66, 295-301	21.8	69
44	Design of Advanced Photocatalytic Materials for Energy and Environmental Applications. <i>Green Energy and Technology</i> , 2013 ,	0.6	65
43	On the preparation of TiO ₂ -sepiolite hybrid materials for the photocatalytic degradation of TCE: influence of TiO ₂ distribution in the mineralization. <i>Environmental Science & Technology</i> , 2008 , 42, 5892-6	10.3	63
42	Selection of TiO ₂ -support: UV-transparent alternatives and long-term use limitations for H ₂ S removal. <i>Catalysis Today</i> , 2007 , 129, 223-230	5.3	62
41	Photocatalytic-based strategies for H ₂ S elimination. <i>Catalysis Today</i> , 2010 , 151, 64-70	5.3	53
40	Natural silicate-TiO ₂ hybrids for photocatalytic oxidation of formaldehyde in gas phase. <i>Chemical Engineering Journal</i> , 2017 , 310, 560-570	14.7	51
39	Photocatalytic elimination of indoor air biological and chemical pollution in realistic conditions. <i>Chemosphere</i> , 2012 , 87, 625-30	8.4	46
38	H ₂ S photodegradation by TiO ₂ /M-MCM-41 (M = Cr or Ce): Deactivation and by-product generation under UV-A and visible light. <i>Applied Catalysis B: Environmental</i> , 2008 , 84, 643-650	21.8	45
37	Investigation of Toluene Oxidation over 1D Pt@CeO Derived from Pt Cluster-Containing MOF. <i>Journal of the American Chemical Society</i> , 2021 , 143, 196-205	16.4	39
36	Photocatalytic degradation of TCE in dry and wet air conditions with TiO ₂ porous thin films. <i>Applied Catalysis B: Environmental</i> , 2011 , 108-109, 14-21	21.8	35
35	Hybrid photocatalysts for the degradation of trichloroethylene in air. <i>Catalysis Today</i> , 2009 , 143, 302-308	5.3	35
34	Transient operando study on the NH ₃ /NH ₄ ⁺ interplay in V-SCR monolithic catalysts. <i>Applied Catalysis B: Environmental</i> , 2018 , 224, 109-115	21.8	34
33	Enhanced photocatalytic activity of TiO ₂ thin films on plasma-pretreated organic polymers. <i>Catalysis Today</i> , 2014 , 230, 145-151	5.3	34

32	Photocatalysis for continuous air purification in wastewater treatment plants: from lab to reality. <i>Environmental Science & Technology</i> , 2012 , 46, 5040-8	10.3	31
31	Nanostructured ZnO/sepiolite monolithic sorbents for H ₂ S removal. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1306-1316	13	29
30	Solar/lamp-irradiated tubular photoreactor for air treatment with transparent supported photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2011 , 105, 95-102	21.8	25
29	Engineering operando methodology: Understanding catalysis in time and space. <i>Frontiers of Chemical Science and Engineering</i> , 2018 , 12, 509-536	4.5	22
28	Behaviour of TiO ₂ /MgO hybrid composites on the solar photocatalytic degradation of polluted air. <i>Applied Catalysis B: Environmental</i> , 2011 , 101, 176-182	21.8	21
27	Hybrid TiO ₂ /MgO Composite for Combined Chemisorption and Photocatalytic Elimination of Gaseous H ₂ S. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 6685-6690	3.9	20
26	Photocatalytic activity of TiO ₂ films prepared by surfactant-mediated sol-gel methods over commercial polymer substrates. <i>Chemical Engineering Journal</i> , 2016 , 283, 535-543	14.7	16
25	MnO _x -support interactions in catalytic bodies for selective reduction of NO with NH ₃ . <i>Applied Catalysis B: Environmental</i> , 2019 , 256, 117821	21.8	15
24	Operando DRIFTS study of the role of hydroxyls groups in trichloroethylene photo-oxidation over titanate and TiO ₂ nanostructures. <i>Catalysis Today</i> , 2013 , 206, 32-39	5.3	14
23	Highly selective one-dimensional TiO ₂ -based nanostructures for air treatment applications. <i>Applied Catalysis B: Environmental</i> , 2011 , 110, 251-259	21.8	14
22	Structured catalysts based on sepiolite with tailored porosity to remove diesel soot. <i>Applied Catalysis A: General</i> , 2015 , 498, 41-53	5.1	12
21	Reactor-Cell with Simultaneous Transmission FTIR and Raman Characterization (IRRAMAN) for the Study of Gas-Phase Reactions with Solid Catalysts. <i>Analytical Chemistry</i> , 2020 , 92, 5100-5106	7.8	12
20	Shaping up operando spectroscopy: Raman characterization of a working honeycomb monolith. <i>Catalysis Science and Technology</i> , 2015 , 5, 4942-4945	5.5	11
19	Development of sepiolite/SiC porous catalytic filters for diesel soot abatement. <i>Microporous and Mesoporous Materials</i> , 2016 , 230, 11-19	5.3	11
18	Environmental Applications of Photocatalysis. <i>Green Energy and Technology</i> , 2013 , 35-66	0.6	11
17	Influence of the pore generation method on the metal dispersion and oxidation activity of supported Pt in monolithic catalysts. <i>Applied Catalysis A: General</i> , 2016 , 510, 49-56	5.1	8
16	Development of a versatile experimental setup for the evaluation of the photocatalytic properties of construction materials under realistic outdoor conditions. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 11208-17	5.1	8
15	Pt mechanical dispersion on non-porous alumina for soot oxidation. <i>Catalysis Communications</i> , 2020 , 140, 105999	3.2	7

14	Comparison of three high-flow single-stage impaction-based air samplers for bacteria quantification: DUO SAS SUPER 360, SAMPLAIR and SPIN AIR. <i>Analytical Methods</i> , 2012 , 4, 399-405	3.2	7
13	Influence of Catalyst Properties and Reactor Configuration on the Photocatalytic Degradation of Trichloroethylene Under Sunlight Irradiation. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2008 , 130,	2.3	7
12	Pt-free CoAl ₂ O ₄ catalyst for soot combustion with NO _x /O ₂ . <i>Applied Catalysis A: General</i> , 2020 , 591, 1174-1184	5.0	7
11	Monolithic SiC supports with tailored hierarchical porosity for molecularly selective membranes and supported liquid-phase catalysis. <i>Catalysis Today</i> , 2020 , 383, 44-44	5.3	5
10	Performance and Stability of Wet-Milled CoAl ₂ O ₄ , Ni/CoAl ₂ O ₄ , and Pt,Ni/CoAl ₂ O ₄ for Soot Combustion. <i>Catalysts</i> , 2020 , 10, 406	4	5
9	Solar Photocatalysis for the Elimination of Trichloroethylene in the Gas Phase. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2008 , 130,	2.3	5
8	Novel Ni-Ce-Zr/Al ₂ O ₃ Cellular Structure for the Oxidative Dehydrogenation of Ethane. <i>Catalysts</i> , 2017 , 7, 331	4	4
7	A simultaneous operando FTIR & Raman study of propane ODH mechanism over V-Zr-O catalysts. <i>Catalysis Today</i> , 2021 ,	5.3	3
6	Tailored monolith supports for improved ultra-low temperature water-gas shift reaction. <i>Reaction Chemistry and Engineering</i> ,	4.9	3
5	Non-metal Doping for Band-Gap Engineering. <i>Green Energy and Technology</i> , 2013 , 287-309	0.6	2
4	Future Perspectives of Photocatalysis. <i>Green Energy and Technology</i> , 2013 , 345-348	0.6	1
3	Review of Existing Standards, Guides, and Practices for Raman Spectroscopy.. <i>Applied Spectroscopy</i> , 2022 , 37028221090988	3.1	1
2	Chemometrics for Raman Spectroscopy Harmonization. <i>Applied Spectroscopy</i> ,000370282210940	3.1	1
1	Turning Sunlight into Fuels: Photocatalysis for Energy. <i>Green Energy and Technology</i> , 2013 , 67-84	0.6	