

Raquel Portela

List of Publications by Year in descending order

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51
papers

2,067
citations

279798

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docs citations

52
times ranked

2912
citing authors

#	ARTICLE	IF	CITATIONS
1	Monolithic SiC supports with tailored hierarchical porosity for molecularly selective membranes and supported liquid-phase catalysis. <i>Catalysis Today</i> , 2022, 383, 44-54.	4.4	8
2	A simultaneous operando FTIR & Raman study of propane ODH mechanism over V-Zr-O catalysts. <i>Catalysis Today</i> , 2022, 387, 197-206.	4.4	10
3	Review of Existing Standards, Guides, and Practices for Raman Spectroscopy. <i>Applied Spectroscopy</i> , 2022, 76, 747-772.	2.2	12
4	Chemometrics for Raman Spectroscopy Harmonization. <i>Applied Spectroscopy</i> , 2022, 76, 1021-1041.	2.2	11
5	<i>Operando</i> Investigation of Toluene Oxidation over 1D Pt@CeO ₂ Derived from Pt Cluster-Containing MOF. <i>Journal of the American Chemical Society</i> , 2021, 143, 196-205.	13.7	128
6	Tailored monolith supports for improved ultra-low temperature water-gas shift reaction. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 2114-2124.	3.7	8
7	Pt-free CoAl ₂ O ₄ catalyst for soot combustion with NO _x /O ₂ . <i>Applied Catalysis A: General</i> , 2020, 591, 117404.	4.3	13
8	<i>Operando</i> 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.	6.5	20
9	Pt mechanical dispersion on non-porous alumina for soot oxidation. <i>Catalysis Communications</i> , 2020, 140, 105999.	3.3	10
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.	3.5	14
11	MnO _x -support interactions in catalytic bodies for selective reduction of NO with NH ₃ . <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117821.	20.2	26
12	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.	20.2	48
13	Engineering operando methodology: Understanding catalysis in time and space. <i>Frontiers of Chemical Science and Engineering</i> , 2018, 12, 509-536.	4.4	39
14	Natural silicate-TiO ₂ hybrids for photocatalytic oxidation of formaldehyde in gas phase. <i>Chemical Engineering Journal</i> , 2017, 310, 560-570.	12.7	66
15	Novel Ni-Ce-Zr/Al ₂ O ₃ Cellular Structure for the Oxidative Dehydrogenation of Ethane. <i>Catalysts</i> , 2017, 7, 331.	3.5	6
16	Development of sepiolite/SiC porous catalytic filters for diesel soot abatement. <i>Microporous and Mesoporous Materials</i> , 2016, 230, 11-19.	4.4	12
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.	4.3	9
18	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.	12.7	21

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19	Structured catalysts based on sepiolite with tailored porosity to remove diesel soot. Applied Catalysis A: General, 2015, 498, 41-53.	4.3	15
20	Shaping up operando spectroscopy: Raman characterization of a working honeycomb monolith. Catalysis Science and Technology, 2015, 5, 4942-4945.	4.1	13
21	Nanostructured ZnO/sepiolite monolithic sorbents for H ₂ S removal. Journal of Materials Chemistry A, 2015, 3, 1306-1316.	10.3	33
22	Photocatalytic materials: recent achievements and near future trends. Journal of Materials Chemistry A, 2014, 2, 2863-2884.	10.3	387
23	Development of a versatile experimental setup for the evaluation of the photocatalytic properties of construction materials under realistic outdoor conditions. Environmental Science and Pollution Research, 2014, 21, 11208-11217.	5.3	9
24	Enhanced photocatalytic activity of TiO ₂ thin films on plasma-pretreated organic polymers. Catalysis Today, 2014, 230, 145-151.	4.4	39
25	Design of Advanced Photocatalytic Materials for Energy and Environmental Applications. Green Energy and Technology, 2013, , .	0.6	102
26	Operando DRIFTS study of the role of hydroxyls groups in trichloroethylene photo-oxidation over titanate and TiO ₂ nanostructures. Catalysis Today, 2013, 206, 32-39.	4.4	19
27	Non-metal Doping for Band-Gap Engineering. Green Energy and Technology, 2013, , 287-309.	0.6	2
28	Environmental Applications of Photocatalysis. Green Energy and Technology, 2013, , 35-66.	0.6	15
29	Future Perspectives of Photocatalysis. Green Energy and Technology, 2013, , 345-348.	0.6	1
30	Turning Sunlight into Fuels: Photocatalysis for Energy. Green Energy and Technology, 2013, , 67-84.	0.6	0
31	Comparison of three high-flow single-stage impaction-based air samplers for bacteria quantification: DUO SAS SUPER 360, SAMPL'AIR and SPIN AIR. Analytical Methods, 2012, 4, 399-405.	2.7	7
32	Photocatalysis for Continuous Air Purification in Wastewater Treatment Plants: From Lab to Reality. Environmental Science & Technology, 2012, 46, 5040-5048.	10.0	35
33	Photocatalytic elimination of indoor air biological and chemical pollution in realistic conditions. Chemosphere, 2012, 87, 625-630.	8.2	55
34	Photocatalytic degradation of TCE in dry and wet air conditions with TiO ₂ porous thin films. Applied Catalysis B: Environmental, 2011, 108-109, 14-21.	20.2	38
35	Photocatalytic oxidation of 2-propanol/toluene binary mixtures at indoor air concentration levels. Applied Catalysis B: Environmental, 2011, 107, 347-354.	20.2	80
36	Highly selective one-dimensional TiO ₂ -based nanostructures for air treatment applications. Applied Catalysis B: Environmental, 2011, 110, 251-259.	20.2	15

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37	Solar/lamp-irradiated tubular photoreactor for air treatment with transparent supported photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2011, 105, 95-102.	20.2	32
38	Behaviour of TiO ₂ ~SiMgO _x hybrid composites on the solar photocatalytic degradation of polluted air. <i>Applied Catalysis B: Environmental</i> , 2011, 101, 176-182.	20.2	25
39	Photocatalytic-based strategies for H ₂ S elimination. <i>Catalysis Today</i> , 2010, 151, 64-70.	4.4	61
40	Hybrid TiO ₂ ~SiMgO _x Composite for Combined Chemisorption and Photocatalytic Elimination of Gaseous H ₂ S. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 6685-6690.	3.7	23
41	Hybrid photocatalysts for the degradation of trichloroethylene in air. <i>Catalysis Today</i> , 2009, 143, 302-308.	4.4	38
42	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.	20.2	174
43	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.	20.2	53
44	Kinetics of denitrification using sulphur compounds: Effects of S/N ratio, endogenous and exogenous compounds. <i>Bioresource Technology</i> , 2008, 99, 1293-1299.	9.6	101
45	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, 5892-5896.	10.0	66
46	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, .	1.8	8
47	Solar Photocatalysis for the Elimination of Trichloroethylene in the Gas Phase. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2008, 130, .	1.8	5
48	Preparation of Photocatalytic Coatings Adapted to the Elimination of Airborne Pollutants: Influence of the Substrate on the Degradation Efficiency. <i>Journal of Advanced Oxidation Technologies</i> , 2008, 11, .	0.5	1
49	Photocatalytic Oxidation of H ₂ S on TiO ₂ and TiO ₂ -ZrO ₂ Thin Films. <i>Journal of Advanced Oxidation Technologies</i> , 2007, 10, .	0.5	0
50	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.	4.4	73
51	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.	20.2	81