Silvia Suarez

List of Publications by Year
in descending order

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Version: 2024-02-01

57	3,745	186265 28	155660 55
papers	citations	h-index	g-index

59	59	59	5532
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photooxidation of NO and NO2 with TiO2-Based Materials. Environmental Science and Engineering, 2021, , 213-218.	0.2	0
2	Simultaneous Photocatalytic Abatement of NO and SO2: Influence of the TiO2 Nature and Mechanistic Insights. Journal of Photocatalysis, 2021, 2, 130-139.	0.4	1
3	Key factors to develop hybrid photoactive materials based on mesoporous carbon/TiO2 for removal of volatile organic compounds in air streams. Applied Catalysis A: General, 2021, 623, 118281.	4.3	8
4	Evaluation of the photocatalytic performance of construction materials for urban air depollution. Euro-Mediterranean Journal for Environmental Integration, 2020, 5, 1.	1.3	6
5	Air purification applications using photocatalysis. , 2020, , 99-128.		6
6	Silicalite-1 synthesized with geothermal and Ludox colloidal silica and corresponding TiO2/silicalite-1 hybrid photocatalysts for VOC oxidation. Microporous and Mesoporous Materials, 2020, 302, 110202.	4.4	6
7	From titania nanoparticles to decahedral anatase particles: Photocatalytic activity of TiO2/zeolite hybrids for VOCs oxidation. Catalysis Today, 2019, 326, 2-7.	4.4	50
8	Photocatalytic NOx removal: Rigorous kinetic modelling and ISO standard reactor simulation. Catalysis Today, 2019, 326, 82-93.	4.4	26
9	Natural silicate-TiO 2 hybrids for photocatalytic oxidation of formaldehyde in gas phase. Chemical Engineering Journal, 2017, 310, 560-570.	12.7	66
10	Elucidating the Photoredox Nature of Isolated Iron Active Sites on MCM-41. ACS Catalysis, 2017, 7, 1646-1654.	11.2	19
11	ZSM-5/TiO2 Hybrid Photocatalysts: Influence of the Preparation Method and Synergistic Effect. Topics in Catalysis, 2017, 60, 1171-1182.	2.8	13
12	Decahedral anatase titania particles immobilized on zeolitic materials for photocatalytic degradation of VOC. Catalysis Today, 2017, 287, 22-29.	4.4	35
13	Visible light responsive Zeolite/WO3â€“Pt hybrid photocatalysts for degradation of pollutants in air. Applied Catalysis A: General, 2016, 521, 208-219.	4.3	30
14	Zeoliteâ€“TiO 2 hybrid composites for pollutant degradation in gas phase. Applied Catalysis B: Environmental, 2015, 178, 100-107.	20.2	106
15	Regeneration approaches for TiO2 immobilized photocatalyst used in the elimination of emerging contaminants in water. Catalysis Today, 2014, 230, 27-34.	4.4	111
16	Photocatalytic materials: recent achievements and near future trends. Journal of Materials Chemistry A, 2014, 2, 2863-2884.	10.3	387
17	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
18	Enhanced photocatalytic activity of TiO2 thin films on plasma-pretreated organic polymers. Catalysis Today, 2014, 230, 145-151.	4.4	39

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19	Immobilised Photocatalysts. Green Energy and Technology, 2013, , 245-267.	0.6	6
20	Operando DRIFTS study of the role of hydroxyls groups in trichloroethylene photo-oxidation over titanate and TiO2 nanostructures. Catalysis Today, 2013, 206, 32-39.	4.4	19
21	Single-Site Photocatalysts: Photoactive Species Dispersed on Porous Matrixes. Green Energy and Technology, 2013, , 171-194.	0.6	1
22	Photocatalysis for Continuous Air Purification in Wastewater Treatment Plants: From Lab to Reality. Environmental Science & Technology, 2012, 46, 5040-5048.	10.0	35
23	SiO2/TiO2 Antireflective Coatings With Photocatalytic Properties Prepared by Solâ€“Gel for Solar Glass Covers. Journal of Solar Energy Engineering, Transactions of the ASME, 2012, 134, .	1.8	11
24	Photocatalytic elimination of indoor air biological and chemical pollution in realistic conditions. Chemosphere, 2012, 87, 625-630.	8.2	55
25	Photocatalytic degradation of TCE in dry and wet air conditions with TiO2 porous thin films. Applied Catalysis B: Environmental, 2011, 108-109, 14-21.	20.2	38
26	Highly selective one-dimensional TiO2-based nanostructures for air treatment applications. Applied Catalysis B: Environmental, 2011, 110, 251-259.	20.2	15
27	Solar/lamp-irradiated tubular photoreactor for air treatment with transparent supported photocatalysts. Applied Catalysis B: Environmental, 2011, 105, 95-102.	20.2	32
28	Behaviour of TiO2â€“SiMgOx hybrid composites on the solar photocatalytic degradation of polluted air. Applied Catalysis B: Environmental, 2011, 101, 176-182.	20.2	25
29	Photocatalytic degradation of emerging contaminants in municipal wastewater treatment plant effluents using immobilized TiO2 in a solar pilot plant. Applied Catalysis B: Environmental, 2011, 103, 294-301.	20.2	268
30	Photocatalytic-based strategies for H2S elimination. Catalysis Today, 2010, 151, 64-70.	4.4	61
31	Hybrid TiO₂â^'SiMgO_X Composite for Combined Chemisorption and Photocatalytic Elimination of Gaseous H₂S. Industrial & Engineering Chemistry Research, 2010, 49, 6685-6690.	3.7	23
32	Pd/Î³-Al2O3 monolithic catalysts for NOx reduction with CH4 in excess of O2: Effect of precursor salt. Chemical Engineering Journal, 2009, 150, 8-14.	12.7	20
33	Hybrid photocatalysts for the degradation of trichloroethylene in air. Catalysis Today, 2009, 143, 302-308.	4.4	38
34	Synthesis and photocatalytic properties of dense and porous TiO2-anatase thin films prepared by solâ€“gel. Applied Catalysis B: Environmental, 2009, 86, 1-7.	20.2	174
35	Effect of sulphuric acid pretreatment concentration on the behaviour of CoOX/Î³-Al2O3-SO4 monolithic catalysts in the lean CH4-SCR process. Applied Catalysis B: Environmental, 2009, 91, 423-427.	20.2	17
36	Development of alternative photocatalysts to TiO2: Challenges and opportunities. Energy and Environmental Science, 2009, 2, 1231.	30.8	1,150

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37	Structuration of Pd(2 wt %)/Feâ˜Al Oxide Catalysts on Ceramic and Metallic Monoliths: Physicochemical Characterization, Effect of the Nature of the Slurry, and Comparison with LaMnO3 Catalysts. Journal of Physical Chemistry C, 2009, 113, 16503-16516.	3.1	10
38	H2S photodegradation by TiO2/M-MCM-41 (M=Cr or Ce): Deactivation and by-product generation under UV-A and visible light. Applied Catalysis B: Environmental, 2008, 84, 643-650.	20.2	53
39	Structuration of LaMnO3 perovskite catalysts on ceramic and metallic monoliths: Physico-chemical characterisation and catalytic activity in methane combustion. Applied Catalysis A: General, 2008, 339, 1-14.	4.3	79
40	On the Preparation of TiO₂â˜Sepiolite Hybrid Materials for the Photocatalytic Degradation of TCE: Influence of TiO₂ Distribution in the Mineralization. Environmental Science & Technology, 2008, 42, 5892-5896.	10.0	66
41	Influence of Catalyst Properties and Reactor Configuration on the Photocatalytic Degradation of Trichloroethylene Under Sunlight Irradiation. Journal of Solar Energy Engineering, Transactions of the ASME, 2008, 130, .	1.8	8
42	Solar Photocatalysis for the Elimination of Trichloroethylene in the Gas Phase. Journal of Solar Energy Engineering, Transactions of the ASME, 2008, 130, .	1.8	5
43	Preparation of Photocatalytic Coatings Adapted to the Elimination of Airborne Pollutants: Influence of the Substrate on the Degradation Efficiency. Journal of Advanced Oxidation Technologies, 2008, 11, .	0.5	1
44	Selection of TiO2-support: UV-transparent alternatives and long-term use limitations for H2S removal. Catalysis Today, 2007, 129, 223-230.	4.4	73
45	Nitrous oxide formation in low temperature selective catalytic reduction of nitrogen oxides with V2O5/TiO2 catalysts. Applied Catalysis B: Environmental, 2007, 70, 330-334.	20.2	45
46	Development of a new Rh/TiO2â€“sepiolite monolithic catalyst for N2O decomposition. Applied Catalysis B: Environmental, 2006, 64, 302-311.	20.2	62
47	Influence of support acid pretreatment on the behaviour of CoOx/Î³-alumina monolithic catalysts in the CH4-SCR reaction. Applied Catalysis B: Environmental, 2006, 67, 270-278.	20.2	15
48	Novel One-Step Synthesis of Porous-Supported Catalysts by Activated-Carbon Templating. Advanced Materials, 2006, 18, 1162-1165.	21.0	30
49	New TiO2 monolithic supports based on the improvement of the porosity. Catalysis Today, 2005, 105, 499-506.	4.4	26
50	N2O formation in the selective catalytic reduction of NOx with NH3 at low temperature on CuO-supported monolithic catalysts. Journal of Catalysis, 2005, 229, 227-236.	6.2	71
51	Rh/Î³-Al2O3â€“sepiolite monolithic catalysts for decomposition of N2O traces. Applied Catalysis B: Environmental, 2005, 55, 57-64.	20.2	29
52	N2O formation in the ammonia oxidation and in the SCR process with V2O5-WO3 catalysts. Catalysis Today, 2005, 107-108, 120-125.	4.4	99
53	CuO/NiO monolithic catalysts for NOx removal from nitric acid plant flue gas. Chemical Engineering Journal, 2004, 97, 1-9.	12.7	42
54	Influence of NH3 and NO oxidation on the SCR reaction mechanism on copper/nickel and vanadium oxide catalysts supported on alumina and titania. Catalysis Today, 2002, 75, 331-338.	4.4	76

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55	Low temperature monolithic SCR catalysts for tail gas treatment in nitric acid plants. Studies in Surface Science and Catalysis, 2000, 130, 1391-1396.	1.5	3
56	Alumina- and titania-based monolithic catalysts for low temperature selective catalytic reduction of nitrogen oxides. Applied Catalysis B: Environmental, 2000, 28, 235-244.	20.2	41
57	Influence of CeO2 content on Rh/TiO2 monolithic catalysts for N2O decomposition. Studies in Surface Science and Catalysis, 2000, , 111-119.	1.5	5