MarÃ-a JosÃ© LÃ³pez-MuÃ±oz

List of Publications by Year
in descending order

42 papers	1,670 citations	257101 24 h-index	276539 41 g-index
42 all docs	42 docs citations	42 times ranked	2448 citing authors

#	Article	IF	Citations
1	A comprehensive study of the synthesis, characterization and activity of TiO2 and mixed TiO2/SiO2 photocatalysts. Applied Catalysis A: General, 2006, 312, 202-212.	2.2	141
2	Influence of membrane, solute and solution properties on the retention of phenolic compounds in aqueous solution by nanofiltration membranes. Separation and Purification Technology, 2009, 66, 194-201.	3.9	127
3	Role of the support on the activity of silica-supported TiO2 photocatalysts: Structure of the TiO2/SBA-15 photocatalysts. Catalysis Today, 2005, 101, 307-314.	2.2	122
4	Coupling membrane separation and photocatalytic oxidation processes for the degradation of pharmaceutical pollutants. Water Research, 2013, 47, 5647-5658.	5.3	103
5	Photonic efficiency for methanol photooxidation and hydroxyl radical generation on silica-supported TiO2 photocatalysts. Applied Catalysis B: Environmental, 2006, 62, 201-207.	10.8	86
6	Photocatalytic oxidation of aromatic alcohols to aldehydes in aqueous suspension of home-prepared titanium dioxide. Applied Catalysis A: General, 2008, 349, 182-188.	2.2	79
7	Photocatalytic oxidation of aromatic alcohols to aldehydes in aqueous suspension of home prepared titanium dioxide. Applied Catalysis A: General, 2008, 349, 189-197.	2.2	74
8	Home-prepared anatase, rutile, and brookite TiO2 for selective photocatalytic oxidation of 4-methoxybenzyl alcohol in water: reactivity and ATR-FTIR study. Photochemical and Photobiological Sciences, 2009, 8, 663-669.	1.6	62
9	Adsorption of Hg(II) from aqueous solutions using TiO2 and titanate nanotube adsorbents. Applied Surface Science, 2016, 367, 91-100.	3.1	58
10	Microwave-assisted synthesis of TiO2 nanoparticles: photocatalytic activity of powders and thin films. Journal of Nanoparticle Research, 2018, 20, 1.	0.8	56
11	Assessment of different iron species as activators of S2O82- and HSO5- for inactivation of wild bacteria strains. Applied Catalysis B: Environmental, 2019, 248, 54-61.	10.8	53
12	Microwave-assisted synthesis of Nb2O5 for photocatalytic application of nanopowders and thin films. Journal of Materials Research, 2017, 32, 3271-3278.	1.2	52
13	Simultaneous photocatalytic reduction of silver and oxidation of cyanide from dicyanoargentate solutions. Applied Catalysis B: Environmental, 2009, 86, 53-62.	10.8	48
14	Adsorption of arsenite and arsenate on binary and ternary magnetic nanocomposites with high iron oxide content. Applied Surface Science, 2018, 454, 87-100.	3.1	48
15	Formation of peroxynitrite in vascular endothelial cells exposed to cyclosporine A. FASEB Journal, 2001, 15, 1291-1293.	0.2	47
16	Optimisation of the synthesis of high galacto-oligosaccharides (GOS) from lactose with Î²-galactosidase from Kluyveromyces lactis. International Dairy Journal, 2016, 61, 211-219.	1.5	44
17	Photocatalytic degradation of ironâ€“cyanocomplexes by TiO2 based catalysts. Applied Catalysis B: Environmental, 2005, 55, 201-211.	10.8	40
18	Photocatalytic Decolorization and Mineralization of Dyes with Nanocrystalline TiO2/SiO2 Materials. Industrial & Engineering Chemistry Research, 2007, 46, 7605-7610.	1.8	40

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19	Influence of type and position of functional groups of phenolic compounds on NF/RO performance. Journal of Membrane Science, 2011, 372, 380-386.	4.1	38
20	Photocatalytic abatement of emerging pollutants in pure water and wastewater effluent by TiO2 and Ce-ZnO: degradation kinetics and assessment of transformation products. Photochemical and Photobiological Sciences, 2019, 18, 845-852.	1.6	35
21	Î²-galactosidase covalent immobilization over large-pore mesoporous silica supports for the production of high galacto-oligosaccharides (GOS). Microporous and Mesoporous Materials, 2018, 257, 51-61.	2.2	30
22	Synergistic and antagonistic effects in the photoelectrocatalytic disinfection of water with TiO2 supported on activated carbon as a bipolar electrode in a novel 3D photoelectrochemical reactor. Separation and Purification Technology, 2020, 247, 117002.	3.9	30
23	Fe/TiO2/pH Interactions in Solar Degradation of Imidacloprid with TiO2/SiO2Photocatalysts at Pilot-Plant Scale. Industrial & Engineering Chemistry Research, 2006, 45, 8900-8908.	1.8	28
24	On the comparison of photocatalysts activity: A novel procedure for the measurement of titania surface in TiO2/SiO2 materials. Catalysis Today, 2007, 124, 103-109.	2.2	27
25	Quantum yield of heterogeneous photocatalytic systems: Further application of an experimental method for determining the absorbed photon flow. Research on Chemical Intermediates, 1999, 25, 213-227.	1.3	22
26	Photocatalytic gold recovery from spent cyanide plating bath solutions. Gold Bulletin, 2005, 38, 180-187.	3.2	21
27	Superoxide limits cyclosporine-A-induced formation of peroxynitrite in endothelial cells2 2Part of this article has been previously published in abstract form in the 6th International Symposium on spin trapping, â€œSpin Traps, Nitroxides and Nitric Oxide: Spectroscopy, Chemistry and Free Radical Biology,â€• August 27â€“31, 2000, Marseille, France. Abstract book page 48.. Free Radical Biology and Medicine, 2002, 32, 702-711.	1.3	18
28	Separation of phenols and their advanced oxidation intermediate products in aqueous solution by NF/RO membranes. Separation and Purification Technology, 2010, 71, 246-251.	3.9	17
29	Synthesis of mono- and di-nuclear palladium(II) complexes containing ylide ligands [PPh2(CHCO2R)2]â€“(R = Me or Et). Crystal structures of [Pd{(CHCO2Et)2PPh2}2], [Pd{(CHCO2Et)2PPh2}Cl(PPh3)], and [Pd{(CHCO2Et)2PPh2}(NC5H5)2]ClO4. Journal of the Chemical Society Dalton Transactions, 1990, , 3683-3689.	1.1	16
30	The influence of dissolved transition metals on the photocatalytic degradation of phenol with TiO2. Research on Chemical Intermediates, 2007, 33, 377-392.	1.3	16
31	Nanofiltration removal of pharmaceutically active compounds. Desalination and Water Treatment, 2012, 42, 138-143.	1.0	16
32	UV-Cured Chitosan and Gelatin Hydrogels for the Removal of As(V) and Pb(II) from Water. Polymers, 2022, 14, 1268.	2.0	15
33	Production of High Galacto-oligosaccharides by Pectinex Ultra SP-L: Optimization of Reaction Conditions and Immobilization on Glyoxyl-Functionalized Silica. Journal of Agricultural and Food Chemistry, 2017, 65, 1649-1658.	2.4	14
34	Membrane treatment applied to aqueous solutions containing atrazine photocatalytic oxidation products. Desalination and Water Treatment, 2010, 21, 175-180.	1.0	9
35	Characterization and immobilization of engineered sialidases from Trypanosoma rangeli for transsialylation. AIMS Molecular Science, 2017, 4, 140-163.	0.3	8
36	Ethiopian natural zeolites for photocatalysis. Bulletin of the Chemical Society of Ethiopia, 2015, 29, 431.	0.5	7

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37	Preparation of Co-doped TiO2 for Photocatalytic Degradation of NOx in Air under Visible Light. Journal of Advanced Oxidation Technologies, 2009, 12, .	0.5	5
38	CHAPTER 4. Solar Photocatalysis: Fundamentals, Reactors and Applications. RSC Energy and Environment Series, 2016, , 92-129.	0.2	5
39	Investigation of the photocatalytic transformation of acesulfame K in the presence of different TiO2-based materials. Chemosphere, 2018, 193, 151-159.	4.2	4
40	Effect of thermal treatment on the photocatalytic behavior of TiO2 supported on zeolites. New Journal of Chemistry, 2018, 42, 12001-12007.	1.4	4
41	Sol-Gel Titania and Titania-Silica Mixed Oxides Photocatalysts. Solid State Phenomena, 2010, 162, 221-238.	0.3	3
42	In situ DRIFTS-MS study of EDTA photocatalytic degradation. Catalysis Today, 2021, 361, 2-10.	2.2	2