MarÃa A Grela

List of Publications by Year
in descending order

55 papers	2,494 citations	257450 24 h-index	189892 50 g-index
57 all docs	57 docs citations	57 times ranked	3375 citing authors

#	Article	IF	Citations
1	Cu2O/TiO2 heterostructures for CO2 reduction through a direct Z-scheme: Protecting Cu2O from photocorrosion. Applied Catalysis B: Environmental, 2017, 217, 485-493.	20.2	442
2	Heterogeneous Photocatalytic Reduction of Chromium(VI) over TiO2Particles in the Presence of Oxalate:Â Involvement of Cr(V) Species. Environmental Science & Technology, 2004, 38, 1589-1594.	10.0	329
3	Quantitative Spin-Trapping Studies of Weakly Illuminated Titanium Dioxide Sols. Implications for the Mechanism of Photocatalysis. The Journal of Physical Chemistry, 1996, 100, 16940-16946.	2.9	171
4	Heterogeneous photocatalysis of Cr(VI) in the presence of citric acid over TiO2 particles: Relevance of Cr(V)â€"citrate complexes. Applied Catalysis B: Environmental, 2007, 71, 101-107.	20.2	120
5	Experimental Evidence in Favor of an Initial One-Electron-Transfer Process in the Heterogeneous Photocatalytic Reduction of Chromium(VI) over TiO2. Langmuir, 2001, 17, 3515-3517.	3.5	108
6	Yield of Carboxyl Anion Radicals in the Photocatalytic Degradation of Formate over TiO2Particles. Langmuir, 2001, 17, 8422-8427.	3.5	103
7	Ag@ZnO Coreâ€"Shell Nanoparticles Formed by the Timely Reduction of Ag⁺ Ions and Zinc Acetate Hydrolysis in <i>N</i>,<i>N</i>-Dimethylformamide: Mechanism of Growth and Photocatalytic Properties. Journal of Physical Chemistry C, 2011, 115, 24967-24974.	3.1	95
8	Kinetics of Stochastic Charge Transfer and Recombination Events in Semiconductor Colloids. Relevance to Photocatalysis Efficiency. The Journal of Physical Chemistry, 1996, 100, 18214-18221.	2.9	90
9	Facile Synthesis of Potassium Poly(heptazine imide) (PHIK)/Ti-Based Metalâ€"Organic Framework (MIL-125-NH₂) Composites for Photocatalytic Applications. ACS Applied Materials & Interfaces, 2017, 9, 22941-22949.	8.0	74
10	Effect of crab bioturbation on organic matter processing in South West Atlantic intertidal sediments. Journal of Sea Research, 2015, 95, 206-216.	1.6	62
11	Effects of the dominant SW Atlantic intertidal burrowing crab Chasmagnathus granulatus on sediment chemistry and nutrient distribution. Marine Ecology - Progress Series, 2007, 341, 177-190.	1.9	58
12	Structural characterization, optical properties and photocatalytic activity of MOF-5 and its hydrolysis products: implications on their excitation mechanism. RSC Advances, 2015, 5, 73112-73118.	3.6	49
13	Impact of crab bioturbation on benthic flux and nitrogen dynamics of Southwest Atlantic intertidal marshes and mudflats. Estuarine, Coastal and Shelf Science, 2011, 92, 629-638.	2.1	47
14	Ground and excited state properties of alizarin and its isomers. Dyes and Pigments, 2014, 103, 202-213.	3.7	45
15	Photoinduced Reactivity of Strongly Coupled TiO₂ Ligands under Visible Irradiation: An Examination of an Alizarin Red@TiO₂ Nanoparticulate System. Journal of Physical Chemistry C, 2008, 112, 16532-16538.	3.1	43
16	Therapeutic properties, SOD and catecholase mimetic activities of novel ternary copper(II) complexes of the anti-inflammatory drug Fenoprofen with imidazole and caffeine. Polyhedron, 2012, 34, 74-83.	2.2	43
17	Photon Flux and Wavelength Effects on the Selectivity and Product Yields of the Photocatalytic Air Oxidation of Neat Cyclohexane on TiO2Particles. Journal of Physical Chemistry B, 2005, 109, 1914-1918.	2.6	41
18	The Southwest Atlantic intertidal burrowing crab Neohelice granulata modifies nutrient loads of phreatic waters entering coastal area. Estuarine, Coastal and Shelf Science, 2008, 79, 300-306.	2.1	40

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19	Photon Energy and Photon Intermittence Effects on the Quantum Efficiency of Photoinduced Oxidations in Crystalline and Metastable TiO2 Colloidal Nanoparticles. Journal of Physical Chemistry B, 1999, 103, 2614-2619.	2.6	39
20	Stopband tuning of TiO2 inverse opals for slow photon absorption. Materials Research Bulletin, 2017, 91, 155-165.	5.2	38
21	Harnessing Excess Photon Energy in Photoinduced Surface Electron Transfer between Salicylate and Illuminated Titanium Dioxide Nanoparticles. Journal of Physical Chemistry B, 1997, 101, 10986-10989.	2.6	37
22	Photoreduction of Cr(vi) using hydroxoaluminiumtricarboxymonoamide phthalocyanine adsorbed on TiO2. Photochemical and Photobiological Sciences, 2009, 8, 604-612.	2.9	32
23	Decomposition of methylamino and aminomethyl radicals. The heats of formation of methyleneimine (CH2?NH) and hydrazyl (N2H3) radical. International Journal of Chemical Kinetics, 1988, 20, 713-718.	1.6	29
24	Photocatalytic air oxidation of cyclohexane in CH2Cl2â€"C6H12 mixtures over TiO2 particles. Journal of Molecular Catalysis A, 2007, 268, 29-35.	4.8	29
25	On the yield of intermediates formed in the photoreduction of benzophenone. Journal of Photochemistry and Photobiology A: Chemistry, 1996, 99, 51-56.	3.9	24
26	Efficiency of Hot Carrier Trapping by Outer-Sphere Redox Probes at Quantum Dot Interfaces. Journal of Physical Chemistry B, 1999, 103, 6400-6402.	2.6	24
27	EPR spectroscopy applied to the study of the TEMPO mediated oxidation of nanocellulose. Carbohydrate Polymers, 2016, 136, 744-749.	10.2	24
28	Surface Chemistry Determines Electron Storage Capabilities in Alcoholic Sols of Titanium Dioxide Nanoparticles. A Combined FTIR and Room Temperature EPR Investigation. Journal of Physical Chemistry C, 2012, 116, 9646-9652.	3.1	20
29	Exploiting electron storage in TiO2 nanoparticles for dark reduction of As(v) by accumulated electrons. Physical Chemistry Chemical Physics, 2013, 15, 10335.	2.8	20
30	Photoelectrochemical Behavior of Alizarin Modified TiO₂ Films. Journal of Physical Chemistry C, 2010, 114, 11515-11521.	3.1	17
31	Pyrolysis of ethylenediamines. The stabilization energies of aminomethyl and N,N-dimethylaminomethyl radicals. The Journal of Physical Chemistry, 1984, 88, 5995-5998.	2.9	16
32	Experimental upper bound on phosphate radical production in TiO2 photocatalytic transformations in the presence of phosphate ions. Physical Chemistry Chemical Physics, 2003, 5, 3294.	2.8	16
33	Reaction volume and reaction enthalpy upon aqueous peroxodisulfate dissociation: S2O82-â†'2SO4â€¢-. Physical Chemistry Chemical Physics, 2000, 2, 2383-2387.	2.8	15
34	Electron Transfer from Photoexcited TiO₂ to Chelating Alizarin Molecules: Reversible Photochromic Effect in Alizarin@TiO₂ under UV Irradiation. ChemPhysChem, 2009, 10, 1077-1083.	2.1	15
35	Reaction of lithium metal with benzil in THF. A kinetic study. Journal of Physical Organic Chemistry, 2003, 16, 669-674.	1.9	13
36	Critical Water Effect on the Plasmon Band and Visible Light Activity of Au/ZnO Nanocomposites. Journal of Physical Chemistry C, 2014, 118, 2018-2027.	3.1	13

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37	Photochemistry of Benzophenone in 2-Propanol: An Easy Experiment for Undergraduate Physical Chemistry Courses. Journal of Chemical Education, 1997, 74, 436.	2.3	11
38	Pyrolysis of 2-phenylethylamines heats of formation of aminomethyl radicals R2NCH2Â· (R = H, CH3). International Journal of Chemical Kinetics, 1985, 17, 257-264.	1.6	9
39	Evidence on dye clustering in the sensitization of TiO2 by aluminum phthalocyanine. Photochemical and Photobiological Sciences, 2013, 12, 1984-1990.	2.9	9
40	Alizarin complexone: an interesting ligand for designing TiO2-hybrid nanostructures. New Journal of Chemistry, 2013, 37, 969.	2.8	9
41	Modulation of the electron transfer processes in Auâ€“ZnO nanostructures. Nanoscale, 2015, 7, 6667-6674.	5.6	8
42	The spontaneous room temperature reduction of HAuCl₄ in ethylene glycol in the presence of ZnO: a simple strategy to obtain stable Au/ZnO nanostructures exhibiting strong surface plasmon resonance and efficient electron storage properties. New Journal of Chemistry, 2015, 39, 909-914.	2.8	8
43	Angle dependence in slow photon photocatalysis using TiO 2 inverse opals. Chemical Physics, 2018, 502, 33-38.	1.9	8
44	Rate of the reaction between oxygen monofluoride and ozone. Chemical Physics Letters, 1994, 229, 134-138.	2.6	7
45	Time-resolved photoacoustic calorimetry of aqueous peroxodisulfate photolysis in the presence of nitrite anions. Physical Chemistry Chemical Physics, 2003, 5, 902.	2.8	7
46	Magnetic ZIF-8 as a stable support for biomolecules via adsorption in aqueous buffered solutions at pHâ€¯=â€¯7. Inorganic Chemistry Communication, 2019, 105, 225-229.	3.9	7
47	Very low pressure pyrolysis of phenylacetic acid. Journal of the Chemical Society, Faraday Transactions, 1992, 88, 2125.	1.7	5
48	Application of photoacoustic calorimetry to the determination of volume changes in reactions involving radical anions in aqueous solutionsDedicated to Professor Silvia Braslavsky, to mark her great contribution to photochemistry and photobiology particularly in the field of photothermal methods.. Photochemical and Photobiological Sciences, 2003, 2, 754.	2.9	5
49	Triethylamine as a tuning agent of the MIL-125 particle morphology and its effect on the photocatalytic activity. SN Applied Sciences, 2020, 2, 1.	2.9	5
50	The thermodynamic functions of a Poschl-Teller oscillator. Journal of Chemical Education, 1990, 67, 390.	2.3	4
51	Low intensity, continuous wave photodoping of ZnO quantum dots â€“ photon energy and particle size effects. Physical Chemistry Chemical Physics, 2017, 19, 4494-4499.	2.8	4
52	Systematic characterization of transition states for radical decompositions. International Journal of Chemical Kinetics, 1987, 19, 869-879.	1.6	3
53	A simple computational model for MOF-5W absorption and photoluminescence to distinguish MOF-5 from its hydrolysis products. Journal of Materials Science, 2020, 55, 6588-6597.	3.7	3
54	Effective potential of .beta.-bonds in free radicals. The Journal of Physical Chemistry, 1982, 86, 4844-4846.	2.9	1

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55	A time-resolved photoacoustic calorimetry study for the determination of the partial volume and formation enthalpy of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:mrow><mml:msubsup><mml:mrow><mml:mtext>SO</mml:mtext></mml:mrow><mml:mrow><mml:mn>3</m /><mml:mo>-</mml:mo></mml:mrow></mml:msubsup></mml:mrow></mml:math> aqueous radical. Chemical Physics Letters, 2008, 463, 78-83.	2.6	0