

Miguel Ángel Gracia-Pinilla

List of Publications by Year in descending order

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54
papers

1,689
citations

257101

24
h-index

288905

40
g-index

54
all docs

54
docs citations

54
times ranked

2487
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar photocatalytic activity of TiO ₂ modified with WO ₃ on the degradation of an organophosphorus pesticide. <i>Journal of Hazardous Materials</i> , 2013, 263, 36-44.	6.5	163
2	Effective removal of phosphate from aqueous solution using humic acid coated magnetite nanoparticles. <i>Water Research</i> , 2017, 123, 353-360.	5.3	127
3	Synthesis by sol-gel of WO ₃ /TiO ₂ for solar photocatalytic degradation of malathion pesticide. <i>Catalysis Today</i> , 2013, 209, 35-40.	2.2	115
4	Mechanochemical synthesis of Ag/TiO ₂ for photocatalytic methyl orange degradation and hydrogen production. <i>Chemical Engineering Research and Design</i> , 2018, 120, 339-347.	2.7	106
5	Deposition of Size-Selected Cu Nanoparticles by Inert Gas Condensation. <i>Nanoscale Research Letters</i> , 2010, 5, 180-188.	3.1	99
6	Highly size-controlled synthesis of Au/Pd nanoparticles by inert-gas condensation. <i>Faraday Discussions</i> , 2008, 138, 353-362.	1.6	98
7	Influence of mesoporous defect induced mixed-valent NiO (Ni ²⁺ /Ni ³⁺)-TiO ₂ nanocomposite for non-enzymatic glucose biosensors. <i>Sensors and Actuators B: Chemical</i> , 2018, 264, 27-37.	4.0	88
8	Kinetic and Mechanistic Evaluation of Inorganic Arsenic Species Adsorption onto Humic Acid Grafted Magnetite Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13540-13547.	1.5	54
9	On the Structure and Properties of Silver Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13492-13498.	1.5	48
10	Sonophotocatalytic (42kHz) degradation of Simazine in the presence of Au-TiO ₂ nanocatalysts. <i>Applied Catalysis B: Environmental</i> , 2014, 160-161, 692-700.	10.8	47
11	Construction of direct Z-scheme WO ₃ /ZnS heterojunction to enhance the photocatalytic degradation of tetracycline antibiotic. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105111.	3.3	47
12	UV and Visible Light-Driven Production of Hydroxyl Radicals by Reduced Forms of N, F, and P Codoped Titanium Dioxide. <i>Molecules</i> , 2019, 24, 2147.	1.7	46
13	Synthesis, characterization, photocatalytic evaluation, and toxicity studies of TiO ₂ -Fe ³⁺ nanocatalyst. <i>Journal of Materials Science</i> , 2014, 49, 5309-5323.	1.7	42
14	Low frequency ultrasound (42 kHz) assisted degradation of Acid Blue 113 in the presence of visible light driven rare earth nanoclusters loaded TiO ₂ nanophotocatalysts. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 1675-1681.	3.8	39
15	Sonochemical synthesis of CuO nanostructures and their morphology dependent optical and visible light driven photocatalytic properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 2448-2457.	1.1	36
16	Hydrogen adsorption properties of Ag decorated TiO ₂ nanomaterials. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 2861-2868.	3.8	35
17	Heterostructures of mesoporous TiO ₂ and SnO ₂ nanocatalyst for improved electrochemical oxidation ability of vitamin B ₆ in pharmaceutical tablets. <i>Journal of Colloid and Interface Science</i> , 2019, 542, 45-53.	5.0	35
18	Deactivation of Ni-SiO ₂ catalysts that are synthesized via a modified direct synthesis method during the dry reforming of methane. <i>Applied Catalysis A: General</i> , 2020, 594, 117455.	2.2	35

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19	Preparation of nanosized yttrium doped CeO ₂ catalyst used for photocatalytic application. Journal of Saudi Chemical Society, 2015, 19, 505-510.	2.4	34
20	Industrial synthesis and characterization of nanophotocatalysts materials: titania. Nanotechnology Reviews, 2016, 5, 467-479.	2.6	31
21	Size-Selected Ag Nanoparticles with Five-Fold Symmetry. Nanoscale Research Letters, 2009, 4, 896-902.	3.1	29
22	Sonophotocatalytic mineralization of Norflurazon in aqueous environment. Chemosphere, 2016, 146, 216-225.	4.2	28
23	Enhanced photo-induced catalytic activity of Cu ion doped ZnO - Graphene ternary nanocomposite for degrading organic dyes. Journal of Water Process Engineering, 2019, 32, 100966.	2.6	27
24	Sonophotocatalytic degradation of Acid Blue 113 in the presence of rare earth nanoclusters loaded TiO ₂ nanophotocatalysts. Separation and Purification Technology, 2014, 133, 407-414.	3.9	26
25	Photosynthesis of H ₂ and its storage on the Bandgap Engineered Mesoporous (Ni ²⁺ /Ni ³⁺)O @ TiO ₂ heterostructure. Journal of Power Sources, 2020, 466, 228305.	4.0	23
26	Fluorine-free synthesis of reduced graphene oxide modified anatase TiO ₂ nanoflowers photoanode with highly exposed {0 0 1} facets for high performance dye-sensitized solar cell. Solar Energy, 2020, 211, 1017-1026.	2.9	18
27	Ultrasound assisted synthesis of morphology tunable rGO:ZnO hybrid nanostructures and their optical and UV-A light driven photocatalysis. Journal of Luminescence, 2017, 186, 53-61.	1.5	17
28	Heterogeneous sonocatalytic activation of peroxomonosulphate in the presence of CoFe ₂ O ₄ /TiO ₂ nanocatalysts for the degradation of Acid Blue 113 in an aqueous environment. Journal of Environmental Chemical Engineering, 2020, 8, 104024.	3.3	15
29	Synthesis, characterization, and photocatalytic performance of FeTiO ₃ /ZnO on ciprofloxacin degradation. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 411, 113186.	2.0	14
30	CuO-ZnO-PANI a lethal p-n-p combination in degradation of 4-chlorophenol under visible light. Journal of Hazardous Materials, 2021, 416, 125989.	6.5	14
31	Realization of structural transformation for the enhancement of magnetic and magneto capacitance effect in BiFeO ₃ â€“CoFe ₂ O ₄ ceramics for energy storage application. Scientific Reports, 2021, 11, 2265.	1.6	12
32	Synthesis, characterization, and visible lightâ€“induced photocatalytic evaluation of WO ₃ /NaNbO ₃ composites for the degradation of 2,4-D herbicide. Materials Today Chemistry, 2021, 19, 100406.	1.7	12
33	Effect of rare earth dopants on structural and mechanical properties of nanocerium synthesized by combustion method. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 649, 168-173.	2.6	11
34	Magnetically recyclable CoFe ₂ O ₄ /ZnO nanocatalysts for the efficient catalytic degradation of Acid Blue 113 under ambient conditions. RSC Advances, 2020, 10, 16473-16480.	1.7	10
35	Low frequency ultrasound assisted sequential and co-precipitation syntheses of nanoporous RE (Gd) Tj ETQq1 1 0.784314 rgBT / Over	1.7	9
36	Influence of RE (Pr ³⁺ , Er ³⁺ , Nd ³⁺) doping on structural, vibrational and enhanced persistent photocatalytic properties of ZnO nanostructures. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 268, 120679.	2.0	9

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37	Effective degradation of cefuroxime by heterogeneous photo-Fenton under simulated solar radiation using Fe^{2+} - Fe_2O_3 - TiO_2 . Journal of Environmental Chemical Engineering, 2021, 9, 106822.	3.3	9
38	Microstructure, vibrational and visible emission properties of low frequency ultrasound (42 kHz) assisted ZnO nanostructures. RSC Advances, 2016, 6, 20437-20446.	1.7	8
39	Effect of Sr ²⁺ and Ba ²⁺ doping on structural stability and mechanical properties of La ₂ NiO ₄ . Ceramics International, 2018, 44, 10551-10557.	2.3	7
40	Graphene induced band gap widening and luminescence quenching in ceria:graphene nanocomposites. Journal of Alloys and Compounds, 2019, 770, 1221-1228.	2.8	7
41	Probing the Defect-Induced Magnetocaloric Effect on Ferrite/Graphene Functional Nanocomposites and their Magnetic Hyperthermia. Journal of Physical Chemistry C, 2019, 123, 25844-25855.	1.5	7
42	Spray-assisted layer-by-layer assembly of decorated PEI/PAA films: morphological, growth and mechanical behavior. Journal of Coatings Technology Research, 2017, 14, 927-935.	1.2	6
43	Photocatalysis as an effective advanced oxidation process. Water Intelligence Online, 2017, 16, 333-381.	0.3	6
44	Morphology controlled synthesis of Sm doped ZnO nanostructures for photodegradation studies of Acid Blue 113 under UV-A light. Journal of Materials Science: Materials in Electronics, 2015, 26, 8784-8792.	1.1	5
45	Long-term influence of chitin concentration on the resistance of cement pastes determined by atomic force microscopy. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 3110-3116.	0.8	5
46	A facile hydrothermal synthesis of CeO ₂ nanocubes decorated ZnO nanostructures: optical and enhanced photocatalytic properties. Journal of Materials Science: Materials in Electronics, 2019, 30, 11643-11651.	1.1	5
47	Structural, electrical, ferroelastic behavior, and multiferroic properties of BiFeO ₃ . Journal of Materials Science: Materials in Electronics, 2020, 31, 13141-13149.	1.1	5
48	Structural studies on the gadolinium doped nanoceria prepared by combustion synthesis. Materials Letters, 2014, 125, 19-24.	1.3	4
49	Influence of refluxing time and HMTA on structural and optical properties of rod, prism like ZnO nanostructures. Journal of Materials Science: Materials in Electronics, 2019, 30, 5670-5680.	1.1	4
50	Spectroscopic Investigation on rGO:ZnO Composites Nanostructures. Springer Proceedings in Physics, 2017, , 63-69.	0.1	3
51	Structural and mechanical properties of La _{0.6} Sr _{0.4} M _{0.1} Fe _{0.9} O _{3-δ} (M: Co, Ni and Cu) perovskites. Ceramics International, 2017, 43, 2089-2094.	2.3	3
52	Synthesis and Characterization of NiCr Self-Assembled Nanorings. Journal of Nano Research, 2010, 9, 101-108.	0.8	2
53	Structural investigation and sonocatalytic efficiency of Ce _{0.9} Nd _{0.1} O _{1.95} and Ce _{0.9} Pr _{0.1} O _{1.95} nanocatalysts. Materials Chemistry and Physics, 2017, 200, 241-249.	2.0	2
54	Water Disinfection Using Chitosan Microbeads With N-, C-, C-N/TiO ₂ By Photocatalysis Under Visible Light. Topics in Catalysis, 2021, 64, 142-154.	1.3	2