

# M L A Gil

## List of Publications by Year in descending order

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32  
papers

584  
citations

567281

15  
h-index

642732

23  
g-index

35  
all docs

35  
docs citations

35  
times ranked

601  
citing authors

#	ARTICLE	IF	CITATIONS
1	New, fast and green procedure for the synthesis of gold nanoparticles based on sonocatalysis. <i>Ultrasonics Sonochemistry</i> , 2011, 18, 789-794.	8.2	55
2	CuO/SiO <sub>2</sub> nanocomposites: A multifunctional coating for application on building stone. <i>Materials and Design</i> , 2017, 114, 364-372.	7.0	54
3	Sonosynthesis of gold nanoparticles from a geranium leaf extract. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 1570-1577.	8.2	49
4	Students' Perceptions about the Use of Educational Games as a Tool for Teaching the Periodic Table of Elements at the High School Level. <i>Journal of Chemical Education</i> , 2015, 92, 278-285.	2.3	43
5	TiO <sub>2</sub> -SiO <sub>2</sub> Coatings with a Low Content of AuNPs for Producing Self-Cleaning Building Materials. <i>Nanomaterials</i> , 2018, 8, 177.	4.1	35
6	Formation and Reductive Desorption of Mercaptohexanol Monolayers on Mercury. <i>Journal of Physical Chemistry B</i> , 2001, 105, 5477-5488.	2.6	28
7	Self-cleaning durability assessment of TiO <sub>2</sub> /SiO <sub>2</sub> photocatalysts coated concrete: Effect of indoor and outdoor conditions on the photocatalytic activity. <i>Building and Environment</i> , 2022, 211, 108743.	6.9	26
8	Ormosils loaded with SiO <sub>2</sub> nanoparticles functionalized with Ag as multifunctional superhydrophobic/biocidal/consolidant treatments for buildings conservation. <i>Nanotechnology</i> , 2019, 30, 345701.	2.6	24
9	Cu-TiO <sub>2</sub> /SiO <sub>2</sub> photocatalysts for concrete-based building materials: Self-cleaning and air de-pollution performance. <i>Construction and Building Materials</i> , 2021, 313, 125419.	7.2	23
10	Quantitative characterization of desorptive stripping voltammograms complicated by surface dimerization reactions. Application to the reductive desorption of thiols from mercury. <i>Journal of Electroanalytical Chemistry</i> , 2000, 482, 18-31.	3.8	21
11	New Consolidant-Hydrophobic Treatment by Combining SiO <sub>2</sub> Composite and Fluorinated Alkoxysilane: Application on Decayed Biocalcareous Stone from an 18th Century Cathedral. <i>Coatings</i> , 2018, 8, 170.	2.6	21
12	Evaluation of the effectiveness of CuONPs/SiO <sub>2</sub> -based treatments for building stones against the growth of phototrophic microorganisms. <i>Construction and Building Materials</i> , 2018, 187, 501-509.	7.2	19
13	Formation of siliceous sediments in brandy after diatomite filtration. <i>Food Chemistry</i> , 2015, 170, 84-89.	8.2	17
14	Analytical determination of the reducing and stabilization agents present in different <i>Zostera noltii</i> extracts used for the biosynthesis of gold nanoparticles. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 179, 32-38.	3.8	17
15	Diatomite releases silica during spirit filtration. <i>Food Chemistry</i> , 2014, 159, 381-387.	8.2	16
16	Comparative study of the electrocatalytic activity of different types of gold nanoparticles using Sonogel-Carbon material as supporting electrode. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 1244-1256.	7.8	14
17	Use of X-ray and other techniques to analyse the phase transformation induced in archaeological cast iron after its stabilisation by the electrolytic method. <i>Analytica Chimica Acta</i> , 2003, 494, 245-254.	5.4	13
18	Biosynthesis of uniform ultra-small gold nanoparticles by aged <i>Dracaena Draco</i> L extracts. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 581, 123744.	4.7	13

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19	Anti-fouling nano-Ag/SiO <sub>2</sub> ormosil treatments for building materials: The role of cell-surface interactions on toxicity and bioreceptivity. <i>Progress in Organic Coatings</i> , 2021, 153, 106120.	3.9	13
20	Effects of surface functionalization with alkylalkoxysilanes on the structure, visible light photoactivity and biocidal performance of Ag-TiO <sub>2</sub> nanoparticles. <i>Powder Technology</i> , 2021, 383, 381-395.	4.2	11
21	Quantitative determination of the penetration of a silica-based consolidant in a limestone by FTIR spectroscopy. <i>Vibrational Spectroscopy</i> , 2020, 110, 103109.	2.2	9
22	Alkoxysilane-based consolidation treatments: Laboratory and 3-years In-Situ assessment tests on biocalcarene stone from Roman Theatre (Cádiz). <i>Construction and Building Materials</i> , 2021, 312, 125398.	7.2	9
23	Voltammetry of Surface Electrodimerization Processes. Application to the Oxidation of Adsorbed 2-Mercaptoethyl Ether on Mercury. <i>Langmuir</i> , 1999, 15, 1480-1490.	3.5	7
24	Voltammetry of Surface Redox Processes Perturbed by Dimerization and Adsorption of the Products. <i>Journal of the Electrochemical Society</i> , 2002, 149, E45.	2.9	7
25	A Photochemical Reactor for the Study of Kinetics and Adsorption Phenomena. <i>Journal of Chemical Education</i> , 2004, 81, 537.	2.3	7
26	Development of a novel engineered stone containing a CuO/SiO <sub>2</sub> nanocomposite matrix with biocidal properties. <i>Construction and Building Materials</i> , 2021, 303, 124459.	7.2	7
27	Voltammetry of surface redox processes perturbed by a father-son reaction. <i>Electrochimica Acta</i> , 2000, 45, 3087-3097.	5.2	6
28	Dye decomposition and air de-pollution performance of TiO <sub>2</sub> /SiO <sub>2</sub> and N-TiO <sub>2</sub> /SiO <sub>2</sub> photocatalysts coated on Portland cement mortar substates. <i>Environmental Science and Pollution Research</i> , 2022, 29, 63112-63125.	5.3	6
29	Incorporation of functionalized Ag-TiO <sub>2</sub> NPs to ormosil-based coatings as multifunctional biocide, superhydrophobic and photocatalytic surface treatments for porous ceramic materials. <i>Surfaces and Interfaces</i> , 2021, 25, 101257.	3.0	5
30	Understanding the Idea of Chemical Elements and Their Periodic Classification in Spanish Students Aged 16-18 Years. <i>International Journal of Science and Mathematics Education</i> , 2016, 14, 885-906.	2.5	3
31	Análisis de contenido de las pruebas de acceso a la universidad en la asignatura de Química en Andalucía. <i>Revista Eureka Sobre Enseñanza Y Divulgación De Las Ciencias</i> , 2015, 12, 456-474.	0.4	3
32	Alkylsiloxane/alkoxysilane sols as hydrophobic treatments for concrete: A comparative study of bulk vs surface application. <i>Journal of Building Engineering</i> , 2022, 46, 103729.	3.4	2