Maria J Rivero

List of Publications by Year
in descending order

54 papers	2,219 citations	236833 25 h-index	223716 46 g-index
55 all docs	55 docs citations	55 times ranked	3042 citing authors

#	Article	IF	Citations
1	Non-homogeneous dispersion of graphene in polyacrylonitrile substrates induces a migrastatic response and epithelial-like differentiation in MCF7 breast cancer cells. Cancer Nanotechnology, 2022, 13, .	1.9	3
2	Assessing the feasibility of reduced graphene oxide as an electronic promoter for photocatalytic hydrogen production over Nb-Ta perovskite photocatalysts. Catalysis Today, 2021, 362, 22-27.	2.2	9
3	New insights in the performance and reuse of rGO/TiO2 composites for the photocatalytic hydrogen production. International Journal of Hydrogen Energy, 2021, 46, 17500-17506.	3.8	21
4	Mobile learning in chemical engineering: An outlook based on case studies. Education for Chemical Engineers, 2021, 35, 132-145.	2.8	14
5	Influence of QD photosensitizers in the photocatalytic production of hydrogen with biomimetic [FeFe]-hydrogenase. Comparative performance of CdSe and CdTe. Chemosphere, 2021, 278, 130485.	4.2	8
6	Removal of Aniline and Benzothiazole Wastewaters Using an Efficient MnO2/GAC Catalyst in a Photocatalytic Fluidised Bed Reactor. Materials, 2021, 14, 5207.	1.3	2
7	Comprehensive Kinetics of the Photocatalytic Degradation of Emerging Pollutants in a LED-Assisted Photoreactor. S-Metolachlor as Case Study. Catalysts, 2021, 11, 48.	1.6	7
8	TiO2â€“Zeolite Metal Composites for Photocatalytic Degradation of Organic Pollutants in Water. Catalysts, 2021, 11, 1367.	1.6	15
9	Hollow Fiber Membranes of PCL and PCL/Graphene as Scaffolds with Potential to Develop In Vitro Bloodâ€”Brain Barrier Models. Membranes, 2020, 10, 161.	1.4	13
10	Performance of rGO/TiO2 Photocatalytic Membranes for Hydrogen Production. Membranes, 2020, 10, 218.	1.4	18
11	Unravelling the Mechanisms that Drive the Performance of Photocatalytic Hydrogen Production. Catalysts, 2020, 10, 901.	1.6	45
12	Heterogeneous Catalytic Ozonation of Aniline-Contaminated Waters: A Three-Phase Modelling Approach Using TiO2/GAC. Water (Switzerland), 2020, 12, 3448.	1.2	9
13	Comparative performance of TiO2-rGO photocatalyst in the degradation of dichloroacetic and perfluorooctanoic acids. Separation and Purification Technology, 2020, 240, 116637.	3.9	29
14	Critical Issues and Guidelines to Improve the Performance of Photocatalytic Polymeric Membranes. Catalysts, 2020, 10, 570.	1.6	41
15	Role of reactive oxygen species on the activity of noble metal-doped TiO2 photocatalysts. Journal of Hazardous Materials, 2019, 372, 45-51.	6.5	113
16	Reprint of: Education of chemical engineering in Spain: A global picture. Education for Chemical Engineers, 2019, 26, 2-7.	2.8	2
17	Comprehensive review and future perspectives on the photocatalytic hydrogen production. Journal of Chemical Technology and Biotechnology, 2019, 94, 3049-3063.	1.6	136
18	Advanced oxidative and catalytic processes. , 2019, , 161-201.		6

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19	An efficient catalytic process for the treatment of genotoxic aniline wastewater using a new granular activated carbon-supported titanium dioxide composite. Journal of Cleaner Production, 2019, 228, 1282-1295.	4.6	31
20	Analysis of a Hybrid Suspended-Supported Photocatalytic Reactor for the Treatment of Wastewater Containing Benzothiazole and Aniline. Water (Switzerland), 2019, 11, 337.	1.2	20
21	Electrochemical Oxidation of Two Phenolic Compounds: Evaluation of Kinetics and Energy Consumption. ECS Transactions, 2019, 94, 181-187.	0.3	1
22	Challenges arising from the use of TiO2/rGO/Pt photocatalysts to produce hydrogen from crude glycerol compared to synthetic glycerol. International Journal of Hydrogen Energy, 2019, 44, 28494-28506.	3.8	27
23	Kinetic performance of TiO2/Pt/reduced graphene oxide composites in the photocatalytic hydrogen production. International Journal of Hydrogen Energy, 2019, 44, 101-109.	3.8	51
24	Enhanced photocatalytic activity using GO/TiO2 catalyst for the removal of DCA solutions. Environmental Science and Pollution Research, 2018, 25, 34893-34902.	2.7	20
25	LCA of greywater management within a water circular economy restorative thinking framework. Science of the Total Environment, 2018, 621, 1047-1056.	3.9	56
26	Coupling of the electrochemical oxidation (EO-BDD)/photocatalysis (TiO2-Fe-N) processes for degradation of acid blue BR dye. Journal of Electroanalytical Chemistry, 2018, 808, 180-188.	1.9	25
27	Photocatalytic degradation and mineralization of perfluorooctanoic acid (PFOA) using a composite TiO2 â˜rGO catalyst. Journal of Hazardous Materials, 2018, 344, 950-957.	6.5	159
28	Education of chemical engineering in Spain: A global picture. Education for Chemical Engineers, 2018, 24, 27-31.	2.8	11
29	Integration of Electrochemical Advanced Oxidation With Membrane Separation and Biodegradation. , 2018, , 495-510.		4
30	Review and perspectives on the use of magnetic nanophotocatalysts (MNPCs) in water treatment. Chemical Engineering Journal, 2017, 310, 407-427.	6.6	247
31	Performance of electrochemical oxidation and photocatalysis in terms of kinetics and energy consumption. New insights into the p-cresol degradation. Journal of Environmental Management, 2017, 195, 117-124.	3.8	33
32	TiO2 structures doped with noble metals and/or graphene oxide to improve the photocatalytic degradation of dichloroacetic acid. Environmental Science and Pollution Research, 2017, 24, 12628-12637.	2.7	72
33	Magnetically recoverable TiO2-WO3 photocatalyst to oxidize bisphenol A from model wastewater under simulated solar light. Environmental Science and Pollution Research, 2017, 24, 12589-12598.	2.7	22
34	Kinetic modeling and energy evaluation of sodium dodecylbenzenesulfonate photocatalytic degradation in a new LED reactor. Journal of Industrial and Engineering Chemistry, 2016, 37, 237-242.	2.9	28
35	Membrane-based photocatalytic systems for process intensification. Chemical Engineering Journal, 2016, 305, 136-148.	6.6	120
36	Influence of radiation and TiO2 concentration on the hydroxyl radicals generation in a photocatalytic LED reactor. Application to dodecylbenzenesulfonate degradation. Applied Catalysis B: Environmental, 2015, 178, 165-169.	10.8	53

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37	Kinetic analysis and biodegradability of the Fenton mineralization of bisphenol A. Journal of Chemical Technology and Biotechnology, 2014, 89, 1228-1234.	1.6	15
38	Chemical Engineering European Project Semester: an international proposal for teaching Chemical Engineering. @tic: Revista D'InnovaciÃ³ Educativa, 2014, .	0.3	0
39	Kinetic Modeling of the Photocatalytic Oxidation of Sodium Dodecylbenzenesulphonate. Journal of Advanced Oxidation Technologies, 2011, 14, .	0.5	0
40	Modelling photodegradation in the global carbon cycle. Soil Biology and Biochemistry, 2011, 43, 1383-1386.	4.2	33
41	Kinetics of dodecylbenzenesulphonate mineralisation by TiO2 photocatalysis. Applied Catalysis B: Environmental, 2011, 101, 515-521.	10.8	43
42	Photocatalytic oxidation of grey water over titanium dioxide suspensions. Desalination, 2010, 262, 141-146.	4.0	67
43	Nitrate removal from electro-oxidized landfill leachate by ion exchange. Journal of Hazardous Materials, 2009, 164, 389-393.	6.5	69
44	Effect of dye auxiliaries on the kinetics of advanced oxidation UV/H₂O₂ of Acid Orange 7 (AO7). Journal of Chemical Technology and Biotechnology, 2008, 83, 1339-1346.	1.6	8
45	Photo-Fenton process as an efficient alternative to the treatment of landfill leachates. Journal of Hazardous Materials, 2008, 153, 834-842.	6.5	173
46	An Integrated Process, Fenton Reactionâ”Ultrafiltration, for the Treatment of Landfill Leachate:â€‰ Pilot Plant Operation and Analysis. Industrial & Engineering Chemistry Research, 2008, 47, 946-952.	1.8	59
47	Ammonium removal from landfill leachate by anodic oxidation. Journal of Hazardous Materials, 2007, 144, 715-719.	6.5	141
48	Mathematical modelling of phenol photooxidation: Kinetics of the process toxicity. Chemical Engineering Journal, 2007, 134, 23-28.	6.6	27
49	Membrane chemical reactor (MCR) combining photocatalysis and microfiltration for grey water treatment. Water Science and Technology, 2006, 53, 173-180.	1.2	39
50	Modelling of Cr(VI) removal from polluted groundwaters by ion exchange. Journal of Chemical Technology and Biotechnology, 2004, 79, 822-829.	1.6	35
51	Analysis of the elimination process of polymerisation inhibitors from styrene by means of adsorption. Journal of Chemical Technology and Biotechnology, 2003, 78, 64-72.	1.6	8
52	Scale-up of adsorptive styrene drying. Polymer International, 2002, 51, 792-799.	1.6	6
53	Mathematical modelling of styrene drying by adsorption onto activated alumina. Chemical Engineering Science, 2002, 57, 2589-2592.	1.9	25
54	Improved Performance of a Newly Synthesized Magnetite Photocatalyst for S-Metolachlor Degradation. , 0, , .		0