Manuel Alvarez-Guerra

List of Publications by Year
in descending order

37	2,114	304743	361022
papers	citations	22 h-index	35 g-index

38	38	38	2661
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Towards the electrochemical conversion of carbon dioxide into methanol. Green Chemistry, 2015, 17, 2304-2324.	9.0	441
2	Ionic liquids in the electrochemical valorisation of CO₂. Energy and Environmental Science, 2015, 8, 2574-2599.	30.8	172
3	Sn nanoparticles on gas diffusion electrodes: Synthesis, characterization and use for continuous CO 2 electroreduction to formate. Journal of CO2 Utilization, 2017, 18, 222-228.	6.8	152
4	Design of ionic liquids: an ecotoxicity (Vibrio fischeri) discrimination approach. Green Chemistry, 2011, 13, 1507.	9.0	130
5	Electrocatalytic reduction of CO2 to formate using particulate Sn electrodes: Effect of metal loading and particle size. Applied Energy, 2015, 157, 165-173.	10.1	116
6	Conversion of carbon dioxide into formate using a continuous electrochemical reduction process in a lead cathode. Chemical Engineering Journal, 2012, 207-208, 278-284.	12.7	114
7	Assessment of Self-Organizing Map artificial neural networks for the classification of sediment quality. Environment International, 2008, 34, 782-790.	10.0	95
8	Continuous electrochemical reduction of carbon dioxide into formate using a tin cathode: Comparison with lead cathode. Chemical Engineering Research and Design, 2014, 92, 692-701.	5.6	92
9	Environmental Assessment of Dimethyl Carbonate Production: Comparison of a Novel Electrosynthesis Route Utilizing CO₂with a Commercial Oxidative Carbonylation Process. ACS Sustainable Chemistry and Engineering, 2016, 4, 2088-2097.	6.7	85
10	Continuous electroreduction of CO₂ to formate using Sn gas diffusion electrodes. AICHE Journal, 2014, 60, 3557-3564.	3.6	81
11	CO2 electroreduction to formate: Continuous single-pass operation in a filter-press reactor at high current densities using Bi gas diffusion electrodes. Journal of CO2 Utilization, 2019, 34, 12-19.	6.8	68
12	Improving trade-offs in the figures of merit of gas-phase single-pass continuous CO2 electrocatalytic reduction to formate. Chemical Engineering Journal, 2021, 405, 126965.	12.7	57
13	A multicriteria-based methodology for site prioritisation in sediment management. Environment International, 2009, 35, 920-930.	10.0	53
14	Prioritization of sediment management alternatives using stochastic multicriteria acceptability analysis. Science of the Total Environment, 2010, 408, 4354-4367.	8.0	41
15	Catalyst coated membrane electrodes for the gas phase CO2 electroreduction to formate. Catalysis Today, 2020, 346, 58-64.	4.4	35
16	Sediment quality assessment and dredged material management in Spain: Part I, application of sediment quality guidelines in the bay of Santander. Integrated Environmental Assessment and Management, 2007, 3, 529-538.	2.9	34
17	Development of models for predicting toxicity from sediment chemistry by partial least squares-discriminant analysis and counter-propagation artificial neural networks. Environmental Pollution, 2010, 158, 607-614.	7.5	32
18	Continuous electroconversion of CO2 into formate using 2 nm tin oxide nanoparticles. Applied Catalysis B: Environmental, 2021, 297, 120447.	20.2	31

#	Article	IF	Citations
19	Toxicity bioassays in core sediments from the Bay of Santander, northern Spain. Environmental Research, 2008, 106, 304-312.	7.5	29
20	Enhancement of the electrochemical reduction of CO2 to methanol and suppression of H2 evolution over CuO nanowires. Electrochimica Acta, 2020, 363, 137207.	5.2	25
21	Gasâ€“liquidâ€“solid reaction system for <scp>CO₂</scp> electroreduction to formate without using supporting electrolyte. AIChE Journal, 2020, 66, e16299.	3.6	24
22	Sediment Quality Assessment and Dredged Material Management in Spain: Part II, Analysis of Action Levels for Dredged Material Management and Application to the Bay of CÃ¡diz. Integrated Environmental Assessment and Management, 2007, 3, 539.	2.9	22
23	A chemometric approach to the environmental problem of predicting toxicity in contaminated sediments. Journal of Chemometrics, 2010, 24, 379-386.	1.3	21
24	Electrosynthesis of dimethyl carbonate from methanol and <scp>CO₂</scp> using potassium methoxide and the ionic liquid [bmim][Br] in a filterâ€press cell: a study of the influence of cell configuration. Journal of Chemical Technology and Biotechnology, 2016, 91, 507-513.	3.2	21
25	Continuous electroreduction of CO2 towards formate in gas-phase operation at high current densities with an anion exchange membrane. Journal of CO2 Utilization, 2022, 56, 101822.	6.8	19
26	Binary copper-bismuth catalysts for the electrochemical reduction of CO2: Study on surface properties and catalytic activity. Chemical Engineering Journal, 2022, 445, 136575.	12.7	19
27	Continuous Electrochemical Reduction of CO2 to Formate: Comparative Study of the Influence of the Electrode Configuration with Sn and Bi-Based Electrocatalysts. Molecules, 2020, 25, 4457.	3.8	18
28	CO2electro-valorization to dimethyl carbonate from methanol using potassium methoxide and the ionic liquid [bmim][Br] in a filter-press electrochemical cell. Journal of Chemical Technology and Biotechnology, 2015, 90, 1433-1438.	3.2	17
29	Electrochemical Conversion of CO 2 to Value-Added Products. , 2018, , 29-59.		17
30	A SOMâ€based methodology for classifying air quality monitoring stations. Environmental Progress and Sustainable Energy, 2011, 30, 424-438.	2.3	13
31	Monitoring and managing sediment quality and impact assessment in Spain in the past 10 years. TrAC - Trends in Analytical Chemistry, 2007, 26, 252-260.	11.4	12
32	Modeling of the binodal curve of ionic liquid/salt aqueous systems. Fluid Phase Equilibria, 2016, 426, 10-16.	2.5	10
33	Learning-by-Doing: The Chem-E-Car CompetitionÂ® in the University of Cantabria as case study. Education for Chemical Engineers, 2019, 26, 14-23.	4.8	9
34	The many faces of carbon in electrochemistry: general discussion. Faraday Discussions, 2014, 172, 117-137.	3.2	4
35	Role of surface contaminants, functionalities, defects and electronic structure: general discussion. Faraday Discussions, 2014, 172, 365-395.	3.2	1
36	Carbon electrode interfaces for synthesis, sensing and electrocatalysis: general discussion. Faraday Discussions, 2014, 172, 497-520.	3.2	1

#	Article	IF	Citations
37	Continuous gas-phase electrochemical reduction of CO2 to formate using Bi Catalyst Coated Membrane Electrodes in a filter press reactor Â. , 0, , .		0