Miguel-Ãngel GÃ³mez-GarcÃ-a

List of Publications by Year
in descending order

65 papers	1,299 citations	471061 17 h-index	377514 34 g-index
65 all docs	65 docs citations	65 times ranked	1712 citing authors

#	Article	IF	Citations
1	Pollution by nitrogen oxides: an approach to NOx abatement by using sorbing catalytic materials. Environment International, 2005, 31, 445-467.	4.8	203
2	Optimization and toxicity assessment of a combined electrocoagulation, H2O2/Fe2+/UV and activated carbon adsorption for textile wastewater treatment. Science of the Total Environment, 2019, 651, 551-560.	3.9	128
3	Coagulation-flocculation sequential with Fenton or Photo-Fenton processes as an alternative for the industrial textile wastewater treatment. Journal of Environmental Management, 2017, 191, 189-197.	3.8	125
4	Study and modelling of kinetics of the oxidation of VOC catalyzed by nanosized Cuâ€“Mn spinels prepared via an alginate route. Applied Catalysis A: General, 2015, 504, 203-210.	2.2	75
5	Efficient hydrogen production by ethanol reforming over Rh catalysts. Effect of addition of Zr on CeO2 for the oxidation of CO to CO2. Comptes Rendus Chimie, 2004, 7, 617-622.	0.2	71
6	Optimization of sequential chemical coagulation - electro-oxidation process for the treatment of an industrial textile wastewater. Journal of Water Process Engineering, 2018, 22, 73-79.	2.6	64
7	Integrated electrocoagulation-electrooxidation process for the treatment of soluble coffee effluent: Optimization of COD degradation and operation time analysis. Journal of Environmental Management, 2017, 200, 530-538.	3.8	48
8	Efficient treatment for textile wastewater through sequential electrocoagulation, electrochemical oxidation and adsorption processes: Optimization and toxicity assessment. Journal of Electroanalytical Chemistry, 2020, 878, 114578.	1.9	41
9	Kinetic study on the catalytic esterification of acetic acid with isoamyl alcohol over Amberlite IR-120. Chemical Engineering Science, 2013, 101, 755-763.	1.9	32
10	Optimization of solar-driven photo-electro-Fenton process for the treatment of textile industrial wastewater. Journal of Water Process Engineering, 2018, 24, 49-55.	2.6	31
11	Effect of pH, CO₂, and High Glucose Concentrations on Polydimethylsiloxane Pervaporation Membranes for Ethanol Removal. Industrial & Engineering Chemistry Research, 2012, 51, 9328-9334.	1.8	23
12	Decolorization and mineralization of Diarylide Yellow 12 (PY12) by photo-Fenton process: the Response Surface Methodology as the optimization tool. Water Science and Technology, 2012, 65, 1795-1800.	1.2	21
13	Hybrid membrane and conventional processes comparison for isoamyl acetate production. Chemical Engineering and Processing: Process Intensification, 2014, 76, 70-82.	1.8	20
14	Statistical optimization of industrial textile wastewater treatment by electrochemical methods. Journal of Applied Electrochemistry, 2014, 44, 1421-1430.	1.5	19
15	Thermal stability and dynamic analysis of the acetic anhydride hydrolysis reaction. Chemical Engineering Science, 2016, 142, 269-276.	1.9	19
16	Removal of NOx from Lean Exhaust Gas by Storage/Reduction on H3PW12O40Â·6H2O Supported on CexZr4-xO8. Environmental Science & Technology, 2005, 39, 638-644.	4.6	18
17	Membrane reactor design guidelines for ammonia decomposition. Catalysis Today, 2012, 191, 165-168.	2.2	18
18	Multifunctional catalysts for de-NOx processes: The case of H3PW12O40Â·6H2O-metal supported on mixed oxides. Applied Catalysis B: Environmental, 2007, 70, 151-159.	10.8	17

#	Article	IF	Citations
19	Kinetic study on the homogeneous esterification of acetic acid with isoamyl alcohol. International Journal of Chemical Kinetics, 2013, 45, 10-18.	1.0	17
20	Sodium sulfate solubility in (water+ethanol) mixed solvents in the presence of hydrochloric acid: Experimental measurements and modeling. Fluid Phase Equilibria, 2014, 384, 106-113.	1.4	16
21	Combustion synthesis and properties of nanocrystalline zirconium oxide. Comptes Rendus Chimie, 2015, 18, 1094-1105.	0.2	16
22	Transition metal loaded TiO2 for phenol photo-degradation. Comptes Rendus Chimie, 2015, 18, 1170-1182.	0.2	16
23	Thermal safety assessment for catalytic decomposition of hydrogen peroxide by dynamic analysis. Chemical Engineering Research and Design, 2017, 109, 46-54.	2.7	16
24	Activity model and consistent thermodynamic features for acetic acidâ€“isoamyl alcoholâ€“isoamyl acetateâ€“water reactive system. Fluid Phase Equilibria, 2013, 345, 68-80.	1.4	15
25	Treatment of automotive industry oily wastewater by electrocoagulation: statistical optimization of the operational parameters. Water Science and Technology, 2009, 60, 2581-2588.	1.2	13
26	Decolorization and mineralization of yellow 5 (E102) by UV/Fe2+/H2O2 process. Optimization of the operational conditions by response surface methodology. Comptes Rendus Chimie, 2015, 18, 1152-1160.	0.2	13
27	Mineralization of cyanide originating from gold leaching effluent using electro-oxidation: multi-objective optimization and kinetic study. Journal of Applied Electrochemistry, 2020, 50, 217-230.	1.5	13
28	Multifunctional catalyst for de-NO processes: The selective reduction of NO by methane. Catalysis Communications, 2007, 8, 400-404.	1.6	12
29	CO oxidation over Au/CeO2-ZrO2 catalists: The effect of the support composition of the au-support interaction. Kinetics and Catalysis, 2010, 51, 823-827.	0.3	12
30	The removal of the trivalent chromium from the leather tannery wastewater: the optimisation of the electro-coagulation process parameters. Water Science and Technology, 2011, 63, 385-394.	1.2	12
31	Kinetic study on HCN volatilization in gold leaching tailing ponds. Minerals Engineering, 2017, 110, 185-194.	1.8	12
32	Experimental assessment and simulation of isoamyl acetate production using a batch pervaporation membrane reactor. Chemical Engineering and Processing: Process Intensification, 2017, 122, 155-160.	1.8	10
33	Design directions for ethyl lactate synthesis in a pervaporation membrane reactor. Desalination and Water Treatment, 2013, 51, 2394-2401.	1.0	9
34	Simulation of an industrial adiabatic multi-bed catalytic reactor for sulfur dioxide oxidation using the Maxwellâ€“Stefan model. Chemical Engineering Journal, 2015, 282, 101-107.	6.6	9
35	Membrane reactors for isoamyl acetate production. Chemical Engineering and Processing: Process Intensification, 2016, 102, 27-36.	1.8	9
36	Intensification of isoamyl acetate production: transport properties of silica membranes. Desalination and Water Treatment, 2013, 51, 2377-2386.	1.0	8

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37	Integration of environmental and economic performance of Electro-Coagulation-Anodic Oxidation sequential process for the treatment of soluble coffee industrial effluent. Science of the Total Environment, 2021, 764, 142818.	3.9	8
38	Kinetic Study on Sodium Sulfate Synthesis by Reactive Crystallization. Industrial & Engineering Chemistry Research, 2015, 54, 2311-2316.	1.8	7
39	Electrochemical Degradation of Acid Yellow 23 by Anodic Oxidationâ€"Optimization of Operating Parameters. Journal of Environmental Engineering, ASCE, 2016, 142, .	0.7	7
40	Dynamic modeling and bifurcation analysis for the methyl isocyanate hydrolysis reaction. Journal of Loss Prevention in the Process Industries, 2016, 39, 106-111.	1.7	7
41	Storage and reduction of leanâ€"NOx by using H3PW12O40Â·6H2O supported on TixZr1â^'xO4. Catalysis Today, 2005, 107-108, 60-67.	2.2	6
42	Pervaporation membrane reactor design guidelines for the production of methyl acetate. Desalination and Water Treatment, 2013, 51, 2387-2393.	1.0	6
43	Modeling and simulation of an industrial falling film reactor using the method of lines with adaptive mesh. Study case: Industrial sulfonation of tridecylbenzene. Computers and Chemical Engineering, 2014, 68, 233-241.	2.0	6
44	Temperature-Scanning Method for the kinetic studies of CO oxidation over ceriaâ€"zirconia supported gold catalysts. Chemical Engineering Journal, 2015, 282, 20-28.	6.6	6
45	Multifunctional Catalyst for de-NO_x Processes:â€‰ The Use of Methanol for the Selective Reduction of NO_x. Industrial & Engineering Chemistry Research, 2007, 46, 7045-7049.	1.8	5
46	Multifactorial optimization of the decolorisation parameters of wastewaters resulting from dyeing flowers. Water Science and Technology, 2009, 59, 1361-1369.	1.2	4
47	Interaction parameters and (solid + liquid) equilibria calculation for KClâ€"H2Oâ€"HClâ€"C2H5OH, K2SO4â€"H2Oâ€"H2SO4 and K2SO4â€"H2Oâ€"C2H5OH mixed solvent-electrolyte systems. Journal of Chemical Thermodynamics, 2015, 91, 427-434.	1.0	4
48	Corrigendum to â€˜Coagulation-flocculation sequential with Fenton or Photo-Fenton processes as an alternative for the industrial textile wastewater treatmentâ€™ [J. Environ. Manag. 191 (2017) 189â€"197]. Journal of Environmental Management, 2017, 203, 615.	3.8	4
49	Learning on chemical equilibrium shift assessment for membrane reactors using Gibbs free energy minimization method. Education for Chemical Engineers, 2018, 22, 20-26.	2.8	4
50	Selective reduction of NOx by liquid hydrocarbons with supported HPWâ€"metal catalysts. Catalysis Today, 2007, 119, 52-58.	2.2	3
51	The Box-Benkhen experimental design for the optimization of the electrocatalytic treatment of wastewaters with high concentrations of phenol and organic matter. Water Science and Technology, 2009, 60, 2809-2818.	1.2	3
52	The application of dynamic modeling for thermal risks analysis of the acidâ€catalyzed hydrolysis of glycidol. AICHE Journal, 2016, 62, 4418-4426.	1.8	3
53	The Origin of Au/Ce1-xZrxO2 Catalystâ€™s Active Sites in Low-Temperature CO Oxidation. Catalysts, 2020, 10, 1312.	1.6	3
54	Prediction of acid hydrolysis of lignocellulosic materials in batch and plug flow reactors. Bioresource Technology, 2013, 142, 570-578.	4.8	2

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55	The electrochemical elimination of coliforms from water using BBD/Ti or graphite anodes: a comparative study. Water Science and Technology: Water Supply, 2018, 18, 408-417.	1.0	2
56	Potassium Nitrate Solubility in (Water + Ethanol) Mixed Solvents at Different Temperatures and Hydrochloric Acid Concentrations. Experimental Study and Modeling Using the Extended UNIQUAC Model. Journal of Chemical & Engineering Data, 2020, 65, 567-576.	1.0	2
57	Foto-DegradaciÃ³n de Fenol sobre Catalizadores de TiO2 y Mo/TiO2: La MetodologÃa de Superficie de Respuesta como Herramienta de OptimizaciÃ³n. Informacion Tecnologica (discontinued), 2014, 25, 02-10.	0.1	1
58	DegradaciÃ³n y MineralizaciÃ³n de Tartrazina mediante Electro-oxidaciÃ³n: OptimizaciÃ³n de las Condiciones de OperaciÃ³n. Informacion Tecnologica (discontinued), 2014, 25, 163-174.	0.1	1
59	Vapourâ€liquid equilibrium and distillation scheme for the hydrochloric acidâ€ethanolâ€water ternary mixture. Canadian Journal of Chemical Engineering, 2016, 94, 2380-2385.	0.9	1
60	The study of water + HCl + ethanol vapor-liquid equilibrium at 78 kPa. Journal of Chemical Thermodynamics, 2017, 107, 201-206.	1.0	1
61	An adaptive WENO algorithm for one-dimensional convection-dominated partial differential equations. Chemical Engineering Science, 2020, 213, 115391.	1.9	1
62	Enhanced adsorption and desorption of Cr(VI) from aqueous solution using hydrous Ce_{1â€“}_xZr_xO₂: Isotherm, kinetics and thermodynamic evaluation. Journal of Dispersion Science and Technology, 2021, 42, 2181-2198.	1.3	1
63	Solar and Artificial UV Inactivation of Bacterial Microbes by Ca-alginate Immobilized TiO2 Assisted by H2O2 Using Fluidized Bed Photoreactors. Journal of Advanced Oxidation Technologies, 2014, 17, .	0.5	0
64	Parametric Sensitivity Analysis for the Industrial Case of O-Xylene Oxidation to Phthalic Anhydride in a Packed Bed Catalytic Reactor. Catalysts, 2020, 10, 626.	1.6	0
65	A structured study on the dynamic bifurcation behavior of a continuous ethanol fermentor. Chemical Engineering Science, 2021, 243, 116777.	1.9	0