

Izabela Dobrosz-GÅ³mez

List of Publications by Year in descending order

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71
papers

1,036
citations

516215

16
h-index

454577

30
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72
all docs

72
docs citations

72
times ranked

1308
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization and toxicity assessment of a combined electrocoagulation, H ₂ O ₂ /Fe ²⁺ /UV and activated carbon adsorption for textile wastewater treatment. <i>Science of the Total Environment</i> , 2019, 651, 551-560.	3.9	128
2	Coagulation-flocculation sequential with Fenton or Photo-Fenton processes as an alternative for the industrial textile wastewater treatment. <i>Journal of Environmental Management</i> , 2017, 191, 189-197.	3.8	125
3	Au/Ce ¹⁺ ·xZr _x O ₂ as effective catalysts for low-temperature CO oxidation. <i>Applied Catalysis B: Environmental</i> , 2008, 83, 240-255.	10.8	79
4	Optimization of sequential chemical coagulation - electro-oxidation process for the treatment of an industrial textile wastewater. <i>Journal of Water Process Engineering</i> , 2018, 22, 73-79.	2.6	64
5	Integrated electrocoagulation-electrooxidation process for the treatment of soluble coffee effluent: Optimization of COD degradation and operation time analysis. <i>Journal of Environmental Management</i> , 2017, 200, 530-538.	3.8	48
6	Factors influencing structure and catalytic activity of Au/Ce ¹⁺ ·xZr _x O ₂ catalysts in CO oxidation. <i>Applied Catalysis B: Environmental</i> , 2009, 88, 83-97.	10.8	42
7	Efficient treatment for textile wastewater through sequential electrocoagulation, electrochemical oxidation and adsorption processes: Optimization and toxicity assessment. <i>Journal of Electroanalytical Chemistry</i> , 2020, 878, 114578.	1.9	41
8	Carbon Monoxide Oxidation over Au/Ce ¹⁺ ·x Zr _x O ₂ Catalysts: Effects of Moisture Content in the Reactant Gas and Catalyst Pretreatment. <i>Catalysis Letters</i> , 2009, 128, 297-306.	1.4	34
9	Kinetic study on the catalytic esterification of acetic acid with isoamyl alcohol over Amberlite IR-120. <i>Chemical Engineering Science</i> , 2013, 101, 755-763.	1.9	32
10	Optimization of solar-driven photo-electro-Fenton process for the treatment of textile industrial wastewater. <i>Journal of Water Process Engineering</i> , 2018, 24, 49-55.	2.6	31
11	Decolorization and mineralization of Diarylide Yellow 12 (PY12) by photo-Fenton process: the Response Surface Methodology as the optimization tool. <i>Water Science and Technology</i> , 2012, 65, 1795-1800.	1.2	21
12	Hybrid membrane and conventional processes comparison for isoamyl acetate production. <i>Chemical Engineering and Processing: Process Intensification</i> , 2014, 76, 70-82.	1.8	20
13	Statistical optimization of industrial textile wastewater treatment by electrochemical methods. <i>Journal of Applied Electrochemistry</i> , 2014, 44, 1421-1430.	1.5	19
14	Thermal stability and dynamic analysis of the acetic anhydride hydrolysis reaction. <i>Chemical Engineering Science</i> , 2016, 142, 269-276.	1.9	19
15	Membrane reactor design guidelines for ammonia decomposition. <i>Catalysis Today</i> , 2012, 191, 165-168.	2.2	18
16	Kinetic study on the homogeneous esterification of acetic acid with isoamyl alcohol. <i>International Journal of Chemical Kinetics</i> , 2013, 45, 10-18.	1.0	17
17	Sodium sulfate solubility in (water+ethanol) mixed solvents in the presence of hydrochloric acid: Experimental measurements and modeling. <i>Fluid Phase Equilibria</i> , 2014, 384, 106-113.	1.4	16
18	Combustion synthesis and properties of nanocrystalline zirconium oxide. <i>Comptes Rendus Chimie</i> , 2015, 18, 1094-1105.	0.2	16

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19	Transition metal loaded TiO ₂ for phenol photo-degradation. <i>Comptes Rendus Chimie</i> , 2015, 18, 1170-1182.	0.2	16
20	Thermal safety assessment for catalytic decomposition of hydrogen peroxide by dynamic analysis. <i>Chemical Engineering Research and Design</i> , 2017, 109, 46-54.	2.7	16
21	Activity model and consistent thermodynamic features for acetic acid-isoamyl alcohol-isoamyl acetate-water reactive system. <i>Fluid Phase Equilibria</i> , 2013, 345, 68-80.	1.4	15
22	Surface, structural and morphological characterization of nanocrystalline ceria-zirconia mixed oxides upon thermal aging. <i>Catalysis Today</i> , 2012, 191, 142-145.	2.2	14
23	Decolorization and mineralization of yellow 5 (E102) by UV/Fe ²⁺ /H ₂ O ₂ process. Optimization of the operational conditions by response surface methodology. <i>Comptes Rendus Chimie</i> , 2015, 18, 1152-1160.	0.2	13
24	Mineralization of cyanide originating from gold leaching effluent using electro-oxidation: multi-objective optimization and kinetic study. <i>Journal of Applied Electrochemistry</i> , 2020, 50, 217-230.	1.5	13
25	CO oxidation over Au/CeO ₂ -ZrO ₂ catalysts: The effect of the support composition of the au-support interaction. <i>Kinetics and Catalysis</i> , 2010, 51, 823-827.	0.3	12
26	The removal of the trivalent chromium from the leather tannery wastewater: the optimisation of the electro-coagulation process parameters. <i>Water Science and Technology</i> , 2011, 63, 385-394.	1.2	12
27	Kinetic study on HCN volatilization in gold leaching tailing ponds. <i>Minerals Engineering</i> , 2017, 110, 185-194.	1.8	12
28	Experimental assessment and simulation of isoamyl acetate production using a batch pervaporation membrane reactor. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 122, 155-160.	1.8	10
29	Simulation of an industrial adiabatic multi-bed catalytic reactor for sulfur dioxide oxidation using the Maxwell-Stefan model. <i>Chemical Engineering Journal</i> , 2015, 282, 101-107.	6.6	9
30	Membrane reactors for isoamyl acetate production. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 102, 27-36.	1.8	9
31	Intensification of isoamyl acetate production: transport properties of silica membranes. <i>Desalination and Water Treatment</i> , 2013, 51, 2377-2386.	1.0	8
32	Adsorptive Removal of Cr(VI) from Aqueous Solution on Hydrous Cerium-Zirconium Oxide. Part I: Process Optimization by Response Surface Methodology. <i>Adsorption Science and Technology</i> , 2014, 32, 209-226.	1.5	8
33	Integration of environmental and economic performance of Electro-Coagulation-Anodic Oxidation sequential process for the treatment of soluble coffee industrial effluent. <i>Science of the Total Environment</i> , 2021, 764, 142818.	3.9	8
34	Kinetic Study on Sodium Sulfate Synthesis by Reactive Crystallization. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 2311-2316.	1.8	7
35	Electrochemical Degradation of Acid Yellow 23 by Anodic Oxidation-Optimization of Operating Parameters. <i>Journal of Environmental Engineering, ASCE</i> , 2016, 142, .	0.7	7
36	Dynamic modeling and bifurcation analysis for the methyl isocyanate hydrolysis reaction. <i>Journal of Loss Prevention in the Process Industries</i> , 2016, 39, 106-111.	1.7	7

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37	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
38	Temperature-Scanning Method for the kinetic studies of CO oxidation over ceria-zirconia supported gold catalysts. Chemical Engineering Journal, 2015, 282, 20-28.	6.6	6
39	Interaction parameters and (solid + liquid) equilibria calculation for $KCl-H_2O-HCl-C_2H_5OH$, $K_2SO_4-H_2O-H_2SO_4$ and $K_2SO_4-H_2O-C_2H_5OH$ mixed solvent-electrolyte systems. Journal of Chemical Thermodynamics, 2015, 91, 427-434.	1.0	4
40	Corrigendum to "Coagulation-flocculation sequential with Fenton or Photo-Fenton processes as an alternative for the industrial textile wastewater treatment" [J. Environ. Manag. 191 (2017) 189-197]. Journal of Environmental Management, 2017, 203, 615.	3.8	4
41	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
42	CO and H ₂ oxidation over Pt/BaSnO ₃ catalysts. Reaction Kinetics, Mechanisms and Catalysis, 2018, 123, 659-677.	0.8	4
43	Optimizaci3n Multiobjetivo del Proceso Fenton en el Tratamiento de Aguas Residuales provenientes de la Producci3n de Caf3 Soluble. Informacion Tecnologica (discontinued), 2018, 29, 111-122.	0.1	4
44	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
45	Ceria-zirconia supported gold catalysts. Annales Universitatis Mariae Curie-Sklodowska Sectio AA "Chemia, 2009, 64, .	0.2	3
46	Degradaci3n de Colorante Amarillo 12 de Aguas Residuales Industriales utilizando Hierro Cero Valente, Per3xido de Hidr3geno y Radiaci3n Ultravioleta. Informacion Tecnologica (discontinued), 2016, 27, 23-34.	0.1	3
47	The application of dynamic modeling for thermal risks analysis of the acid-catalyzed hydrolysis of glycidol. AIChE Journal, 2016, 62, 4418-4426.	1.8	3
48	Optimizaci3n del Proceso de Adsorci3n de Cr(VI) sobre Carb3n Activado de Origen Bituminoso. Informacion Tecnologica (discontinued), 2018, 29, 43-56.	0.1	3
49	The Origin of Au/Ce _{1-x} Zr _x O ₂ Catalysts' Active Sites in Low-Temperature CO Oxidation. Catalysts, 2020, 10, 1312.	1.6	3
50	An3lisis de la Sensibilidad Param3trica del Proceso de Producci3n de Ciclo-Trimetileno-Triamina. Informacion Tecnologica (discontinued), 2014, 25, 153-162.	0.1	2
51	Optimizaci3n de los Costos de Operaci3n del Proceso de Electro-oxidaci3n para una Planta de Tratamiento de Aguas Mediante An3lisis Estad3stico de Superficie de Respuesta. Informacion Tecnologica (discontinued), 2016, 27, 73-82.	0.1	2
52	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
53	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
54	Treatment of soluble coffee industrial effluent by electro-coagulation-electro-oxidation process: multiobjective optimization and kinetic study. International Journal of Environmental Science and Technology, 0, , 1.	1.8	2

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55	Ethanol dehydration by pervaporation using microporous silica membranes. Desalination and Water Treatment, 2013, 51, 2368-2376.	1.0	1
56	Modelamiento Matemático y Simulación de un Reactor Rotatorio Industrial para la Producción de Clinker. Informacion Tecnológica (discontinued), 2014, 25, 79-88.	0.1	1
57	Foto-Degradación de Fenol sobre Catalizadores de TiO ₂ y Mo/TiO ₂ : La Metodología de Superficie de Respuesta como Herramienta de Optimización. Informacion Tecnológica (discontinued), 2014, 25, 02-10.	0.1	1
58	Degradación y Mineralización de Tartrazina mediante Electro-oxidación: Optimización de las Condiciones de Operación. Informacion Tecnológica (discontinued), 2014, 25, 163-174.	0.1	1
59	Análisis de la Sensibilidad Paramétrica y del Comportamiento Dinámico de la Hidrólisis del Isocianato de Metilo. Informacion Tecnológica (discontinued), 2016, 27, 49-56.	0.1	1
60	Vapour-liquid equilibrium and distillation scheme for the hydrochloric acid-ethanol-water ternary mixture. Canadian Journal of Chemical Engineering, 2016, 94, 2380-2385.	0.9	1
61	The study of water + HCl + ethanol vapor-liquid equilibrium at 78 kPa. Journal of Chemical Thermodynamics, 2017, 107, 201-206.	1.0	1
62	An adaptive WENO algorithm for one-dimensional convection-dominated partial differential equations. Chemical Engineering Science, 2020, 213, 115391.	1.9	1
63	Enhanced adsorption and desorption of Cr(VI) from aqueous solution using hydrous Ce ₂ SO ₄ ·xH ₂ O/Zr ₂ SO ₄ ·xH ₂ O: Isotherm, kinetics and thermodynamic evaluation. Journal of Dispersion Science and Technology, 2021, 42, 2181-2198.	1.3	1
64	Sensibilidad Paramétrica y Condiciones Seguras de Operación de la Hidrólisis del Anhídrido Acético en un Reactor Batch. Informacion Tecnológica (discontinued), 2016, 27, 83-92.	0.1	1
65	Solar and Artificial UV Inactivation of Bacterial Microbes by Ca-alginate Immobilized TiO ₂ Assisted by H ₂ O ₂ Using Fluidized Bed Photoreactors. Journal of Advanced Oxidation Technologies, 2014, 17, .	0.5	0
66	Región de Inestabilidad y Optimización de las Condiciones de Producción de Metanol en un Reactor Lurgi. Informacion Tecnológica (discontinued), 2016, 27, 171-178.	0.1	0
67			