Mercedes Teresita Oropeza GuzmÃ¡n

List of Publications by Year
in descending order

92 papers	1,466 citations	331670 21 h-index	345221 36 g-index
92 all docs	92 docs citations	92 times ranked	1710 citing authors

#	Article	IF	Citations
1	Facile synthesis of platinum and nickel sulfides supported in N-doped carbon nanotubes for oxygen reduction reaction. Materials Letters, 2021, 293, 129686.	2.6	1
2	Optimizing the Efficiency of a Cytocompatible Carbon-Dots-Based FRET Platform and Its Application as a Riboflavin Sensor in Beverages. Nanomaterials, 2021, 11, 1981.	4.1	6
3	Synthesis and physicochemical mechanistic evaluation of chitosan-based interbiopolyelectrolyte complexes for effective encapsulation of OLZ for potential application in nano-psychiatry. Sustainable Chemistry and Pharmacy, 2021, 22, 100456.	3.3	5
4	Nejayote biopolyelectrolytes multifunctionality (glucurono ferulauted arabinoxylans) in the separation of hazardous metal ions from industrial wastewater. Chemical Engineering Journal, 2021, 423, 130210.	12.7	26
5	Simulation of a Solid Phase Cathodic Electro-Fenton Process as an Alternative for Improving the Quality of Treated Water. ECS Transactions, 2021, 101, 95-100.	0.5	0
6	Ecoâ€Friendly Magnetic Nanoscavengers as Emerging Materials for Improving Reclaimed Water Quality. Advanced Sustainable Systems, 2021, 5, 2000236.	5.3	2
7	Polylactic acid/multi walled carbon nanotubes (PLA/MWCNT) nanocomposite for 3D printing of medical devices. Revista De Ciencias TecnolÃ“gicas, 2021, 4, 388-398.	0.1	0
8	Direct chemical conversion of continuous CVD graphene/graphite films to graphene oxide without exfoliation. Carbon, 2020, 158, 202-209.	10.3	22
9	Synthesis and characterization of Ni2P and MoS2 on MWCNT as an innovative catalytic material for hydrogen generation. Applied Surface Science, 2020, 503, 144163.	6.1	9
10	Anodes for Direct Alcohol Fuel Cells Assisted by Plasmon-Accelerated Electrochemical Oxidation Using Gold Nanoparticle-Decorated Buckypapers. ACS Applied Energy Materials, 2020, 3, 8755-8764.	5.1	8
11	Chemical issues of coffee and Tule lignins as ecofriendly materials for the effective removal of hazardous metal ions contained in metal finishing wastewater. Chemical Engineering Journal, 2020, 397, 125384.	12.7	24
12	Modifying nitrogen species of nitrogen-doped carbon nanotubes by thermal annealing to explore their role in the triiodide reduction reaction. Carbon, 2020, 167, 209-218.	10.3	6
13	Estudio de propiedades fotofÃsicas de sensores del tipo bis-fluoroforicos y su aplicaciÃ³n en la detecciÃ³n de iones metÃ¡licos. Revista De Ciencias TecnolÃ“gicas, 2020, 2, 124-136.	0.1	0
14	Graphene Nanosensor for NO Metabolites Detection. IFMBE Proceedings, 2020, , 486-493.	0.3	0
15	Temperature effect on the porosity of hydroxyapatite scaffolds and its use in tissue engineering. Revista De Ciencias TecnolÃ“gicas, 2020, 3, 213-221.	0.1	0
16	EvaluaciÃ³n de compuestos bis-fluorofÃ³ricos en agua del rÃo Tijuana. Revista De Ciencias TecnolÃ“gicas, 2020, 3, 44-56.	0.1	0
17	PreparaciÃ³n de materiales funcionalmente graduados por deposiciÃ³n electroforÃ©tica. Revista De Ciencias TecnolÃ“gicas, 2020, 3, 1-9.	0.1	0
18	Electrocatalytic Promotion of Pt Nanoparticles by Incorporation of Ni(OH)₂ for Glycerol Electroâ€Oxidation: Analysis of Activity and Reaction Pathway. ChemNanoMat, 2019, 5, 68-78.	2.8	19

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19	Electrochemical functionalization strategy for chemical vapor deposited graphene on silicon substrates: grafting, electronic properties and biosensing. Nanotechnology, 2019, 30, 475703.	2.6	2
20	N-Doped carbon nanotubes enriched with graphitic nitrogen in a buckypaper configuration as efficient 3D electrodes for oxygen reduction to H₂O₂. Nanoscale, 2019, 11, 2829-2839.	5.6	54
21	Evaluation of N-Alkyl-bis-o-aminobenzamide Receptors for the Determination and Separation of Metal Ions by Fluorescence, UV-Visible Spectrometry and Zeta Potential. Molecules, 2019, 24, 1737.	3.8	4
22	Synthetic hydroxyapatite and its use in bioactive coatings. Journal of Applied Biomaterials and Functional Materials, 2019, 17, 228080001881746.	1.6	17
23	Design and mechanism of action of multifunctional BPEâ€™s with high performance in the separation of hazardous metal ions from polluted water Part I: Chitosan-poly(N-vinylcaprolactam) and its derivatives. Chemical Engineering Journal, 2019, 359, 840-851.	12.7	41
24	Pt-Based Chalcogenide As Cathodic Electrocatalysts for Proton Exchange Membrane FUEL CELL (PEMFC). ECS Meeting Abstracts, 2019, , .	0.0	0
25	Study of nanofiber scaffolds of PAA, PAA/CS, and PAA/ALG for its potential use in biotechnological applications. International Journal of Polymeric Materials and Polymeric Biomaterials, 2018, 67, 800-807.	3.4	12
26	Modification of chitosan with carbamoyl benzoic acids for testing its coagulant-flocculant and binding capacities in removal of metallic ions typically contained in plating wastewater. Chemical Engineering Journal, 2018, 332, 749-756.	12.7	41
27	Strategic Design of Heavy Metals Removal Agents through Zeta Potential Measurements. , 2018, , .		0
28	Innovation in the Electrophoretic Deposition of TiO2 Using Different Stabilizing Agents and Zeta Potential. , 2018, , .		2
29	Effect of Heteroatom Bridge in the Transfer Electron Process of O-Aminebenzamides and Quinazolinendiones Evaluated By Electrochemistry. ECS Meeting Abstracts, 2018, , .	0.0	0
30	Click Reaction Assisted By Cu Electro-Oxidation. ECS Meeting Abstracts, 2018, , .	0.0	0
31	Evaluation of the chelating performance of biopolyelectrolyte green complexes (NIBPEGCs) for wastewater treatment from the metal finishing industry. Journal of Hazardous Materials, 2017, 335, 18-27.	12.4	31
32	Capacity of â€˜nopalâ€™ pectin as a dual coagulant-flocculant agent for heavy metals removal. Chemical Engineering Journal, 2017, 323, 19-28.	12.7	63
33	Ordered Mesoporous Carbon Decorated with Magnetite for the Detection of Heavy Metals by Square Wave Anodic Stripping Voltammetry. Journal of the Electrochemical Society, 2017, 164, B304-B313.	2.9	14
34	Fabrication of porous polymeric structures using a simple sonication technique for tissue engineering. Journal of Polymer Engineering, 2017, 37, 943-951.	1.4	7
35	Effect of betaine in the successful synthesis of CoFe 2 O 4 containing octahedron nanoparticles for electrocatalytic water oxidation. Applied Surface Science, 2017, 426, 980-986.	6.1	7
36	Innovative uses of carbamoyl benzoic acids in coagulation-flocculationâ€™s processes of wastewater. Chemical Engineering Journal, 2017, 307, 981-988.	12.7	36

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37	Pulsed Fe Electro-Oxidation for Catalytic Synthesis of Hydantoin Derivatives. International Journal of Electrochemical Science, 2016, , 6324-6335.	1.3	1
38	Methanol electro-oxidation with alloy nanoparticles of Pt10â^'â€“Fe supported on CNTs. Fuel, 2016, 182, 1-7.	6.4	21
39	Flavone functionalized magnetic nanoparticles: A new fluorescent sensor for Cu2+ ions with nanomolar detection limit. Sensors and Actuators B: Chemical, 2016, 233, 459-468.	7.8	49
40	Methanol dehydrogenation and oxidation on Pt 1â€“X Ni X /CNTs at low temperature: Effect of Ni addition. Renewable Energy, 2016, 99, 437-442.	8.9	3
41	Eco-friendly innovation for nejayote coagulationâ€“flocculation process using chitosan: Evaluation through zeta potential measurements. Chemical Engineering Journal, 2016, 284, 536-542.	12.7	100
42	Sonochemical synthesis and characterization of Pt/CNT, Pt/TiO2, and Pt/CNT/TiO2 electrocatalysts for methanol electro-oxidation. Electrochimica Acta, 2015, 186, 76-84.	5.2	54
43	Improving the Efficiency of a Coagulation-Flocculation Wastewater Treatment of the Semiconductor Industry through Zeta Potential Measurements. Journal of Chemistry, 2014, 2014, 1-10.	1.9	29
44	Sequential electrochemical treatment of dairy wastewater using aluminum and DSA-type anodes. Environmental Science and Pollution Research, 2014, 21, 8573-8584.	5.3	40
45	Is pickling rate of A36 steel dependent on the saturation of the pickling bath in acidic sulfate media?. Fuel, 2014, 138, 200-202.	6.4	1
46	Coagulationâ€“flocculation mechanisms in wastewater treatment plants through zeta potential measurements. Journal of Hazardous Materials, 2014, 279, 1-10.	12.4	179
47	Study of the Stability of Highly Oxidized Metals (Ir, Ti, Ta, Sn) in Ethanol-Water and Isopropanol-Water Dispersions Previous to Epd. ECS Meeting Abstracts, 2013, , .	0.0	0
48	Oxygen Reduction Studies on Carbon-supported Pt-M Catalysts (M: Ru, W, Mo). Journal of New Materials for Electrochemical Systems, 2012, 15, 137-143.	0.6	1
49	A Multiparameter Colloidal Titrations for the Determination of Cationic Polyelectrolytes. Journal of Environmental Protection, 2012, 03, 1559-1570.	0.7	17
50	Potential Measurements Used to Study the Bentonite-Pollutant and Kaolin-Pollutant Interphase. ECS Transactions, 2011, 36, 341-347.	0.5	2
51	Evaluation of an Electrochemical Advanced Oxidation Process for the Organic Matter Removal from Dairy Wastewater. ECS Transactions, 2011, 36, 323-329.	0.5	1
52	Electrochemical Oxidation of Synthetic Analogous of Capsaicin in Hartmann Solution. ECS Transactions, 2011, 36, 423-429.	0.5	0
53	Evaluation of lead removal from sandy soils using different electrolytes in electrokinetic experiments: prospective for remediation of a real site contaminated with mining wastes. Journal of Applied Electrochemistry, 2010, 40, 1145-1152.	2.9	5
54	Electrokinetic treatment for clayed and sandy soils. Journal of Applied Electrochemistry, 2010, 40, 1255-1261.	2.9	9

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55	Mass transport studies at rotating cylinder electrode: Influence of the inter-electrode gap. Electrochimica Acta, 2010, 55, 3275-3278.	5.2	12
56	Electrochemical Oxidation of Vanillin and Capsaicin in Hartmann Solution. ECS Transactions, 2010, 29, 339-347.	0.5	5
57	Electrochemical Evaluation of Electrocatalytic Materials for Water Oxidation. ECS Transactions, 2009, 20, 227-235.	0.5	1
58	Selection of the Electrolyte Solution by Applying Electro-kinetic Treatment of Lead Contaminated Soil. ECS Transactions, 2009, 20, 327-332.	0.5	0
59	Electrochemical Characterization of CPEs Modified with Gold Nanoparticles Deposited by Immersion. ECS Transactions, 2009, 20, 251-258.	0.5	1
60	Identification of Flavonoid Oxidation Potentials as a Function of pH. ECS Transactions, 2009, 20, 141-149.	0.5	4
61	Influence of anolyte and catholyte composition on TPHs removal from low permeability soil by electrokinetic reclamation. Electrochimica Acta, 2009, 54, 2119-2124.	5.2	21
62	Electrochemical Recovery of Cadmium from Simulated Waste Nickelâ€“Cadmium Battery Solutions. Water, Air, and Soil Pollution, 2008, 194, 45-55.	2.4	15
63	Determination of the effective thickness of a porous electrode in a flow-through reactor; effect of the specific surface area of stainless steel fibres, used as a porous cathode, during the deposition of Ag(I) ions. Hydrometallurgy, 2008, 91, 98-103.	4.3	17
64	Pb Detection in Soil Samples by Electroanalysis: Cyclic Voltammetry and Osteryoung Square Wave Stripping Voltammetry. ECS Transactions, 2008, 15, 527-533.	0.5	0
65	Electrokinetic Treatment Applied to Sandy and Clay Soils. ECS Transactions, 2008, 15, 309-314.	0.5	0
66	Preparation and Evaluation of Electrocatalysts to Generate Oxygen Bubbles for the Electroflotation Process. ECS Transactions, 2008, 15, 51-59.	0.5	4
67	The Effect of Zeta Potential on the Electrokinetic Process for Removal of Phenanthrene in Soil. ECS Transactions, 2008, 15, 417-425.	0.5	0
68	Modelling of the concentrationâ€“time relationship based on global diffusion-charge transfer parameters in a flow-by reactor with a 3D electrode. Electrochimica Acta, 2006, 51, 4210-4217.	5.2	5
69	Electrolysis of Methyl-t-Butyl Ether in Aqueous Solutions using Electro-generated Persulfate. ECS Transactions, 2006, 3, 47-60.	0.5	0
70	Mathematical modeling of a galvanostatic soil electroremediation process. AICHE Journal, 2005, 51, 1822-1833.	3.6	6
71	Voltammetric evaluation of the electrode material on the oxidation of cyanide catalyzed by copper ions. Journal of Solid State Electrochemistry, 2005, 9, 566-573.	2.5	9
72	Oxidation of Mineral Species as a Function of the Anodic Potential of Zinc Concentrate in Sulfuric Acid. Journal of the Electrochemical Society, 2004, 151, B387.	2.9	9

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73	Electrochemically grown passive films on carbon steel (SAE 1018) in alkaline sour medium. Electrochimica Acta, 2003, 48, 1665-1674.	5.2	45
74	Chemical Characterization of Corrosion Films Electrochemically Grown on Carbon Steel in Alkaline Sour Environment. Journal of the Electrochemical Society, 2003, 150, B530.	2.9	10
75	Stability Study of Iron Sulfide Films, Electrochemically Grown on Carbon Steel, in Different Electrolytic Media. Corrosion, 2002, 58, 659-669.	1.1	9
76	The role of different surface damages in corrosion process in alkaline sour media. Corrosion Science, 2002, 44, 1515-1528.	6.6	30
77	Prediction of the Combustion Enthalpy of Municipal Solid Waste. The Chemical Educator, 2002, 7, 66-70.	0.0	8
78	Electrochemical characterisation of sulfur species formed during anodic dissolution of galena concentrate in perchlorate medium at pH 0. Electrochimica Acta, 2002, 47, 1513-1525.	5.2	30
79	Evolution of non-stoichiometric iron sulfide film formed by electrochemical oxidation of carbon steel in alkaline sour environment. Electrochimica Acta, 2002, 47, 1197-1208.	5.2	45
80	Electrochemical study on carbon steel corrosion process in alkaline sour media. Electrochimica Acta, 2002, 47, 2149-2158.	5.2	46
81	Title is missing!. Journal of Applied Electrochemistry, 2002, 32, 905-913.	2.9	11
82	Effectiveness factors in an electrochemical reactor with rotating cylinder electrode for the acid-cupric/copper cathode interface process. Chemical Engineering Science, 2001, 56, 2695-2702.	3.8	20
83	Mathematical Modeling of Electrochemical Remediation for Soils under Galvanostatic Conditions. Environmental Technology (United Kingdom), 2001, 22, 17-26.	2.2	1
84	Lead deposition onto fractured vitreous carbon: influence of electrochemical pretreated electrode. Applied Surface Science, 2000, 153, 245-258.	6.1	12
85	An electrochemical study of galena concentrate in perchlorate medium at pH 2.0: the influence of chloride ions. Electrochimica Acta, 2000, 45, 2729-2741.	5.2	31
86	Cyclic voltammetry applied to the characterisation of galena. Hydrometallurgy, 1999, 53, 133-144.	4.3	29
87	Anion influence in lead removal from aqueous solution by deposition onto a vitreous carbon electrode. Electrochimica Acta, 1999, 44, 2633-2643.	5.2	13
88	Silver electrocrystallization from a nonpolluting aqueous leaching solution containing ammonia and chloride. Journal of Applied Electrochemistry, 1996, 26, 451.	2.9	40
89	Integral use of Nejayote: Characterization, New Strategies for Physicochemical Treatment and Recovery of Valuable By-Products. , 0, , .		3
90	Innovation of Coagulation-Flocculation Processes Using Biopolyelectrolytes and Zeta Potential for Water Reuse. , 0, , .		0

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91	Chalcogenides and Carbon Nanostructures: Great Applications for PEM Fuel Cells. , 0, , .		2
92	Physicochemical Insights of the Organic Matter Particles Dispersed in Wastewaters Induced by Bio-Polyelectrolytes. , 0, , .		1