

Angel DarÃ-o GonzÃ;lez-Delgado

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Evaluation of Three Biomaterials from Coconut Mesocarp for Use in Water Treatments Polluted with an Anionic Dye. <i>Water (Switzerland)</i> , 2022, 14, 408.	1.2	4
2	Equilibrium, Kinetics and Thermodynamics of Chromium (VI) Adsorption on Inert Biomasses of <i>Dioscorea rotundata</i> and <i>Elaeis guineensis</i> . <i>Water (Switzerland)</i> , 2022, 14, 844.	1.2	4
3	Sustainable Design Approach for Modeling Bioprocesses from Laboratory toward Commercialization: Optimizing Chitosan Production. <i>Polymers</i> , 2022, 14, 25.	2.0	9
4	Elimination of Chromium (VI) and Nickel (II) Ions in a Packed Column Using Oil Palm Bagasse and Yam Peels. <i>Water (Switzerland)</i> , 2022, 14, 1240.	1.2	4
5	Evaluation of Kinetic, Equilibrium and Thermodynamics of Cationic Ion Using Agro-Industrial Residues of Plantain (<i>Musa paradisiaca</i>). <i>Water (Switzerland)</i> , 2022, 14, 1383.	1.2	3
6	Green Nanoparticle-Aided Biosorption of Nickel Ions Using Four Dry Residual Biomasses: A Comparative Study. <i>Sustainability</i> , 2022, 14, 7250.	1.6	1
7	Inherent Safety Analysis and Sustainability Evaluation of Chitosan Production from Shrimp Exoskeleton in Colombia. <i>Water (Switzerland)</i> , 2021, 13, 553.	1.2	6
8	Efficient Sulfate Adsorption on Modified Adsorbents Prepared from Zea mays Stems. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1596.	1.3	7
9	Development of a Methodology for the Synthesis of Biorefineries Based on Incremental Economic and Exergetic Return on Investment. <i>ACS Omega</i> , 2021, 6, 6112-6123.	1.6	2
10	Adsorption of Cd ²⁺ Ions from Aqueous Solution Using Biomasses of <i>Theobroma cacao</i> , <i>Zea mays</i> , <i>Manihot esculenta</i> , <i>Dioscorea rotundata</i> and <i>Elaeis guineensis</i> . <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2657.	1.3	2
11	An Optimization Approach Based on Superstructures for Bioethanol Production from African Palm Kernel Shells. <i>Polish Journal of Environmental Studies</i> , 2021, 30, 2293-2300.	0.6	3
12	Evaluation of Algae-Based Biodiesel Production Topologies via Inherent Safety Index (ISI). <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2854.	1.3	1
13	Process Synthesis, Analysis, and Optimization Methodologies toward Chemical Process Sustainability. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 4193-4217.	1.8	13
14	Inherent Safety Assessment of Industrial-Scale Production of Chitosan Microbeads Modified with TiO ₂ Nanoparticles. <i>Biomolecules</i> , 2021, 11, 568.	1.8	5
15	Environmental Sustainability Evaluation of Iron Oxide Nanoparticles Synthesized via Green Synthesis and the Coprecipitation Method: A Comparative Life Cycle Assessment Study. <i>ACS Omega</i> , 2021, 6, 12410-12423.	1.6	30
16	Comparative analysis of biorefinery designs based on acetone-butanol-ethanol fermentation under exergetic, techno-economic, and sensitivity analyses towards a sustainability perspective. <i>Journal of Cleaner Production</i> , 2021, 298, 126761.	4.6	26
17	An integrated biorefinery approach via material recycle/reuse networks for the extraction of value-added components from shrimp: Computer-aided simulation and environmental assessment. <i>Food and Bioproducts Processing</i> , 2021, 127, 443-453.	1.8	8
18	Development of a biorefinery approach for shrimp processing in North-Colombia: Process simulation and sustainability assessment. <i>Environmental Technology and Innovation</i> , 2021, 22, 101461.	3.0	6

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19	Adsorption of Azo-Anionic Dyes in a Solution Using Modified Coconut (Cocos nucifera) Mesocarp: Kinetic and Equilibrium Study. <i>Water (Switzerland)</i> , 2021, 13, 1382.	1.2	25
20	A Hybrid Methodology to Minimize Freshwater Consumption during Shrimp Shell Waste Valorization Combining Multi-Contaminant Pinch Analysis and Superstructure Optimization. <i>Polymers</i> , 2021, 13, 1887.	2.0	0
21	Evaluación ambiental de la producción de microperlas de quitosano modificadas con TiO ₂ y magnetita usando el algoritmo de reducción de residuos (WAR). <i>Revista Ion</i> , 2021, 34, .	0.1	1
22	Evaluación de la producción de aceite crudo de palma y palmiste en el norte de Colombia mediante el análisis de exergía asistido por computador. <i>Revista Ion</i> , 2021, 34, .	0.1	1
23	Removal of Nitrate Ions Using Thermally and Chemically Modified Bioadsorbents. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8455.	1.3	3
24	Evaluating the feasibility of a pilot-scale shrimp biorefinery via techno-economic analysis. <i>Journal of Cleaner Production</i> , 2021, 320, 128740.	4.6	9
25	Evaluating the Sustainability and Inherent Safety of a Crude Palm Oil Production Process in North-Colombia. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1046.	1.3	3
26	Environmental and Exergetic Analysis of Large-Scale Production of Citric Acid-Coated Magnetite Nanoparticles via Computer-Aided Process Engineering Tools. <i>ACS Omega</i> , 2021, 6, 3644-3658.	1.6	3
27	Computer-Aided Modeling, Simulation, and Exergy Analysis of Large-Scale Production of Magnetite (Fe ₃ O ₄) Nanoparticles via Coprecipitation. <i>ACS Omega</i> , 2021, 6, 30666-30673.	1.6	3
28	Evaluación ambiental asistida por computador del proceso de producción de hidromiel a escala piloto en el Departamento de Boyacá y Bolívar (Colombia). <i>Ingeniería Y Competitividad</i> , 2021, 24, .	0.1	0
29	Exergetic sensibility analysis and environmental evaluation of chitosan production from shrimp exoskeleton in Colombia. <i>Journal of Cleaner Production</i> , 2020, 248, 119285.	4.6	34
30	Aggregate/Weighted Global Sustainability and Exergy Metric for Assessing Emerging Transformation Technologies. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 16637-16646.	3.2	10
31	Ionic Cross-Linking Fabrication of Chitosan-Based Beads Modified with FeO and TiO ₂ Nanoparticles: Adsorption Mechanism toward Naphthalene Removal in Seawater from Cartagena Bay Area. <i>ACS Omega</i> , 2020, 5, 26463-26475.	1.6	38
32	Application of Techno-economic and Sensitivity Analyses as Decision-Making Tools for Assessing Emerging Large-Scale Technologies for Production of Chitosan-Based Adsorbents. <i>ACS Omega</i> , 2020, 5, 17601-17610.	1.6	22
33	Nickel adsorption from aqueous solution using lemon peel biomass chemically modified with TiO ₂ nanoparticles. <i>Sustainable Chemistry and Pharmacy</i> , 2020, 17, 100299.	1.6	31
34	Comparison of Biobutanol Production Pathways via Acetone→Butanol→Ethanol Fermentation Using a Sustainability Exergy-Based Metric. <i>ACS Omega</i> , 2020, 5, 18710-18730.	1.6	18
35	Economic Evaluation and Techno-Economic Sensitivity Analysis of a Mass Integrated Shrimp Biorefinery in North Colombia. <i>Polymers</i> , 2020, 12, 2397.	2.0	16
36	Process Simulation and Exergy Analysis of a Mercaptan Oxidation Unit in a Latin American Refinery. <i>ACS Omega</i> , 2020, 5, 21428-21436.	1.6	5

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37	Evaluation of Shrimp Waste Valorization Combining Computer-Aided Simulation and Numerical Descriptive Inherent Safety Technique (NuDIST). <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5339.	1.3	5
38	Enhancement of Cadmium Adsorption Capacities of Agricultural Residues and Industrial Fruit Byproducts by the Incorporation of Al ₂ O ₃ Nanoparticles. <i>ACS Omega</i> , 2020, 5, 23645-23653.	1.6	16
39	Assessing the Exergetic and Inherent Safety Performance of a Shrimp-Based Biorefinery via Computer-Aided Tools. <i>Energies</i> , 2020, 13, 6688.	1.6	0
40	Assessment of a Sour Water Treatment Unit Using Process Simulation, Parametric Sensitivity, and Exergy Analysis. <i>ACS Omega</i> , 2020, 5, 23654-23661.	1.6	2
41	Design, Simulation, and Environmental Assessment of an Adsorption-Based Treatment Process for the Removal of Polycyclic Aromatic Hydrocarbons (PAHs) from Seawater and Sediments in North Colombia. <i>ACS Omega</i> , 2020, 5, 12126-12135.	1.6	5
42	Enzymatic Transesterification of Waste Frying Oil from Local Restaurants in East Colombia Using a Combined Lipase System. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3566.	1.3	8
43	Variables Affecting Delignification of Corn Wastes Using Urea for Total Reducing Sugars Production. <i>ACS Omega</i> , 2020, 5, 12196-12201.	1.6	6
44	Cd (II) and Ni (II) uptake by novel biosorbent prepared from oil palm residual biomass and Al ₂ O ₃ nanoparticles. <i>Sustainable Chemistry and Pharmacy</i> , 2020, 15, 100216.	1.6	31
45	Evaluation of mechanical-green solvent pretreatment of oil palm wastes for reducing sugars production in North-Colombia. <i>Sustainable Chemistry and Pharmacy</i> , 2020, 16, 100256.	1.6	7
46	Biodiesel and Hydrogen Production in a Combined Palm and Jatropha Biomass Biorefinery: Simulation, Techno-Economic, and Environmental Evaluation. <i>ACS Omega</i> , 2020, 5, 7074-7084.	1.6	28
47	Application of environmental and hazard assessment methodologies towards the sustainable production of crude palm oil in North-Colombia. <i>Sustainable Chemistry and Pharmacy</i> , 2020, 15, 100221.	1.6	13
48	Computer-Aided Exergy Sensibility Analysis of Nitrobenzene Production through Benzene Nitration Using an Acid Mixture. <i>International Journal of Chemical Engineering</i> , 2019, 2019, 1-7.	1.4	2
49	Characterization of Residual Biomasses and Its Application for the Removal of Lead Ions from Aqueous Solution. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4486.	1.3	32
50	Biorefinery synthesis and design using sustainability parameters and hierarchical/3D multi-objective optimization. <i>Journal of Cleaner Production</i> , 2019, 240, 118134.	4.6	27
51	A Technical and Environmental Evaluation of Six Routes for Industrial Hydrogen Production from Empty Palm Fruit Bunches. <i>ACS Omega</i> , 2019, 4, 15457-15470.	1.6	19
52	Computer-aided environmental and exergy analyses of a large-scale production of chitosan microbeads modified with TiO ₂ nanoparticles. <i>Journal of Cleaner Production</i> , 2019, 237, 117804.	4.6	21
53	Computer-aided environmental and exergy analysis as decision-making tools for selecting bio-oil feedstocks. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 112, 42-57.	8.2	37
54	Immobilization of Lead and Nickel Ions from Polluted Yam Peels Biomass Using Cement-Based Solidification/Stabilization Technique. <i>International Journal of Chemical Engineering</i> , 2019, 2019, 1-8.	1.4	5

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55	Environmental Assessment of Large Scale Production of Magnetite (Fe ₃ O ₄) Nanoparticles via Coprecipitation. Applied Sciences (Switzerland), 2019, 9, 1682.	1.3	31
56	Evaluation of Large-Scale Production of Chitosan Microbeads Modified with Nanoparticles Based on Exergy Analysis. Energies, 2019, 12, 1200.	1.6	18
57	Kinetics of Mercury and Nickel Adsorption Using Chemically Pretreated Cocoa (<i>Theobroma</i>) Tj ETQq1 1 0.784314rgBT /Overlock 11.1	1.1	9
58	Assessment of the Effect of Al ₂ O ₃ and TiO ₂ Nanoparticles on Orange Peel Biomass and its Application for Cd (II) and Ni (II) Uptake. Transactions of the ASABE, 2019, 62, 139-147.	1.1	8
59	Evaluating the Exergetic Performance of the Amine Treatment Unit in a Latin-American Refinery. ACS Omega, 2019, 4, 21993-21997.	1.6	12
60	Optimization of Enzyme-Assisted Extraction of Flavonoids from Corn Husks. Processes, 2019, 7, 804.	1.3	21
61	Computer-aided simulation and exergy analysis of TiO ₂ nanoparticles production via green chemistry. PeerJ, 2019, 7, e8113.	0.9	17
62	Physico-chemical characterization of superficial water and sediments from Cartagena bay. Contemporary Engineering Sciences, 2018, 11, 1571-1578.	0.2	4
63	Effect of pH and particle size for lead and nickel uptake from aqueous solution using cassava (<i>Manihot esculenta</i>) and yam (<i>Dioscorea alata</i>) residual biomasses modified with titanium dioxide nanoparticles. Indian Journal of Science and Technology, 2018, 11, 1-7.	0.5	7
64	Study of the Phenomenology of Dispersion of Hydrocarbon Spillage into Freshwater Bodies. Computer Aided Chemical Engineering, 2018, 44, 2227-2232.	0.3	0
65	Computer-aided exergy analysis of a palm based-biorefinery for producing palm oil, kernel oil and hydrogen. Contemporary Engineering Sciences, 2018, 11, 537-545.	0.2	5
66	Effect of alkaline pretreatment on biogas production from corn (<i>Zea mays</i>) crop residues biomass. Contemporary Engineering Sciences, 2018, 11, 973-981.	0.2	3
67	Synthesis and characterization of cassava, yam and lemon peels modified with TiO ₂ nanoparticles. Contemporary Engineering Sciences, 2018, 11, 1863-1871.	0.2	6
68	Application of Cement-based Solidification/ Stabilization Technique for Immobilizing Lead and Nickel Ions after Sorption-desorption Cycles using Cassava Peels Biomass. Indian Journal of Science and Technology, 2017, 11, 1-4.	0.5	3
69	Astaxanthin production from <i>Haematococcus pluvialis</i> : effects of light wavelength and salinity. Contemporary Engineering Sciences, 2017, 10, 1739-1746.	0.2	8
70	Computer-aided economic evaluation of pectin extraction from cocoa pod husk (<i>Theobroma cacao</i> L.). Contemporary Engineering Sciences, 2017, 10, 1493-1500.	0.2	8
71	Producción de biomasa y proteínas de <i>Chlorella vulgaris</i> Beyerinck (Chlorellales: Chlorellaceae) a través del diseño de medios de cultivo selectivos. Ciencia Tecnología Agropecuaria, 2017, 18, 451-461.	0.3	4
72	Ajuste experimental y evaluación económica de la extracción HBE de aceite de microalgas para biocombustibles y bioproductos. Prospectiva, 2016, 14, 45.	0.2	1

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73	Aprovechamiento de energía offshore: Avances y perspectivas. Revista Esaica, 2016, 2, 3.	0.0	0
74	Development of a topology of microalgae-based biorefinery: process synthesis and optimization using a combined forward and backward screening and superstructure approach. Clean Technologies and Environmental Policy, 2015, 17, 2213-2228.	2.1	21
75	Evaluation of alternatives for microalgae oil extraction based on exergy analysis. Applied Energy, 2013, 101, 226-236.	5.1	74
76	Simulation of bioethanol production process from residual microalgae biomass. Computer Aided Chemical Engineering, 2012, , 1048-1052.	0.3	8
77	Environmental assessment of HF alkylation process using WAR algorithm. Contemporary Engineering Sciences, 0, 10, 641-649.	0.2	2
78	Removal of Cr(VI) ions from aqueous solution using orange peel residual biomass: thermodynamic and sorption-desorption study. , 0, 203, 309-314.		3