Eduardo Sosa-HernÃ¡ndez

List of Publications by Year
in descending order

42 papers	1,746 citations	279798 23 h-index	289244 40 g-index
43 all docs	43 docs citations	43 times ranked	2059 citing authors

#	Article	IF	Citations
1	Highly hazardous pesticides and related pollutants: Toxicological, regulatory, and analytical aspects. Science of the Total Environment, 2022, 807, 151879.	8.0	74
2	Enzyme-mimicking capacities of carbon-dots nanozymes: Properties, catalytic mechanism, and applications â€“ A review. International Journal of Biological Macromolecules, 2022, 194, 676-687.	7.5	72
3	Biosensors for the detection of disease outbreaks through wastewater-based epidemiology. TrAC - Trends in Analytical Chemistry, 2022, 155, 116585.	11.4	24
4	Towards a Circular Economy of Plastics: An Evaluation of the Systematic Transition to a New Generation of Bioplastics. Polymers, 2022, 14, 1203.	4.5	26
5	Nephroprotective Plants: A Review on the Use in Pre-Renal and Post-Renal Diseases. Plants, 2022, 11, 818.	3.5	11
6	Current challenges for modern vaccines and perspectives for novel treatment alternatives. Journal of Drug Delivery Science and Technology, 2022, 70, 103222.	3.0	3
7	Nanostructures for drug delivery in respiratory diseases therapeutics: Revision of current trends and its comparative analysis. Journal of Drug Delivery Science and Technology, 2022, 70, 103219.	3.0	16
8	Lignocellulosic residues as supports for enzyme immobilization, and biocatalysts with potential applications. International Journal of Biological Macromolecules, 2022, 208, 748-759.	7.5	12
9	Micro-algae assisted green bioremediation of water pollutants rich leachate and source products recovery. Environmental Pollution, 2022, 306, 119422.	7.5	11
10	Microalgae Bioactive Compounds to Topical Applications Productsâ€”A Review. Molecules, 2022, 27, 3512.	3.8	27
11	Extensive Wastewater-Based Epidemiology as a Resourceful Tool for SARS-CoV-2 Surveillance in a Low-to-Middle-Income Country through a Successful Collaborative Quest: WBE, Mobility, and Clinical Tests. Water (Switzerland), 2022, 14, 1842.	2.7	10
12	Antidepressant drugs as emerging contaminants: Occurrence in urban and non-urban waters and analytical methods for their detection. Science of the Total Environment, 2021, 757, 143722.	8.0	78
13	Exploring the potential of coffee husk as caffeine bio-adsorbent â€“ A mini-review. Case Studies in Chemical and Environmental Engineering, 2021, 3, 100070.	6.1	11
14	Paper and Other Fibrous Materialsâ€”A Complete Platform for Biosensing Applications. Biosensors, 2021, 11, 128.	4.7	4
15	Evaluation of SARS-COV-2 transmission through indoor air in hospitals and prevention methods: A systematic review. Environmental Research, 2021, 195, 110841.	7.5	28
16	Implementation of kLa-Based Strategy for Scaling Up Porphyridium purpureum (Red Marine Microalga) to Produce High-Value Phycoerythrin, Fatty Acids, and Proteins. Marine Drugs, 2021, 19, 290.	4.6	6
17	Nanoclay/Polymer-Based Hydrogels and Enzyme-Loaded Nanostructures for Wound Healing Applications. Gels, 2021, 7, 59.	4.5	28
18	Modern World Applications for Nano-Bio Materials: Tissue Engineering and COVID-19. Frontiers in Bioengineering and Biotechnology, 2021, 9, 597958.	4.1	21

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19	Enzyme mimics in-focus: Redefining the catalytic attributes of artificial enzymes for renewable energy production. International Journal of Biological Macromolecules, 2021, 179, 80-89.	7.5	18
20	Environmental impact of emerging contaminants from battery waste: A mini review. Case Studies in Chemical and Environmental Engineering, 2021, 3, 100104.	6.1	46
21	Antidepressants surveillance in wastewater: Overview extraction and detection. Case Studies in Chemical and Environmental Engineering, 2021, 3, 100074.	6.1	26
22	Phenolic Compounds From Brewer's Spent Grains: Toward Green Recovery Methods and Applications in the Cosmetic Industry. Frontiers in Sustainable Food Systems, 2021, 5, .	3.9	18
23	Exploring current tendencies in techniques and materials for immobilization of laccases â€“ A review. International Journal of Biological Macromolecules, 2021, 181, 683-696.	7.5	56
24	CO2 biocapture by Scenedesmus sp. grown in industrial wastewater. Science of the Total Environment, 2021, 790, 148222.	8.0	11
25	Phycocapture of CO2 as an option to reduce greenhouse gases in cities: Carbon sinks in urban spaces. Journal of CO2 Utilization, 2021, 53, 101704.	6.8	35
26	Sources of antibiotics pollutants in the aquatic environment under SARS-CoV-2 pandemic situation. Case Studies in Chemical and Environmental Engineering, 2021, 4, 100127.	6.1	25
27	Validation of aqueous two-phase extraction method. MethodsX, 2021, 8, 101421.	1.6	2
28	Accumulation of PHA in the Microalgae Scenedesmus sp. under Nutrient-Deficient Conditions. Polymers, 2021, 13, 131.	4.5	46
29	Enzyme (Single and Multiple) and Nanozyme Biosensors: Recent Developments and Their Novel Applications in the Water-Food-Health Nexus. Biosensors, 2021, 11, 410.	4.7	47
30	Polyâ€3â€hydroxybutyrateâ€based constructs with novel characteristics for drug delivery and tissue engineering applicationsâ€”A review. Polymer Engineering and Science, 2020, 60, 1760-1772.	3.1	17
31	Effectiveness of wastewater treatment systems in removing microbial agents: a systematic review. Globalization and Health, 2020, 16, 13.	4.9	80
32	High-throughput multi-residue quantification of contaminants of emerging concern in wastewaters enabled using direct injection liquid chromatography-tandem mass spectrometry. Journal of Hazardous Materials, 2020, 398, 122933.	12.4	56
33	Light Intensity and Nitrogen Concentration Impact on the Biomass and Phycoerythrin Production by Porphyridium purpureum. Marine Drugs, 2019, 17, 460.	4.6	22
34	Mexican Microalgae Biodiversity and State-Of-The-Art Extraction Strategies to Meet Sustainable Circular Economy Challenges: High-Value Compounds and Their Applied Perspectives. Marine Drugs, 2019, 17, 174.	4.6	38
35	Bistable behaviour and medium-dependent post-translational regulation of the tryptophanase operon regulatory pathway in Echerichia coli. Scientific Reports, 2019, 9, 5451.	3.3	6
36	Bioinspired biomaterials and enzyme-based biosensors for point-of-care applications with reference to cancer and bio-imaging. Biocatalysis and Agricultural Biotechnology, 2019, 17, 168-176.	3.1	30

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37	State-of-the-Art Extraction Methodologies for Bioactive Compounds from Algal Biome to Meet Bio-Economy Challenges and Opportunities. Molecules, 2018, 23, 2953.	3.8	75
38	Organs-on-a-Chip Module: A Review from the Development and Applications Perspective. Micromachines, 2018, 9, 536.	2.9	155
39	Electrochemical Biosensors: A Solution to Pollution Detection with Reference to Environmental Contaminants. Biosensors, 2018, 8, 29.	4.7	139
40	Biosorption: An Interplay between Marine Algae and Potentially Toxic Elementsâ€”A Review. Marine Drugs, 2018, 16, 65.	4.6	308
41	Motility ofEscherichia coliin a quasi-two-dimensional porous medium. Physical Review E, 2017, 95, 032404.	2.1	25
42	Experimental and Mathematical-Modeling Characterization of Trypanosoma cruzi Epimastigote Motility. PLoS ONE, 2015, 10, e0142478.	2.5	3