

# Eduardo Sosa-Hernández

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/211036/publications.pdf>

Version: 2024-02-01

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	Biosorption: An Interplay between Marine Algae and Potentially Toxic Elementsâ€”A Review. <i>Marine Drugs</i> , 2018, 16, 65.	4.6	308
2	Organs-on-a-Chip Module: A Review from the Development and Applications Perspective. <i>Micromachines</i> , 2018, 9, 536.	2.9	155
3	Electrochemical Biosensors: A Solution to Pollution Detection with Reference to Environmental Contaminants. <i>Biosensors</i> , 2018, 8, 29.	4.7	139
4	Effectiveness of wastewater treatment systems in removing microbial agents: a systematic review. <i>Globalization and Health</i> , 2020, 16, 13.	4.9	80
5	Antidepressant drugs as emerging contaminants: Occurrence in urban and non-urban waters and analytical methods for their detection. <i>Science of the Total Environment</i> , 2021, 757, 143722.	8.0	78
6	State-of-the-Art Extraction Methodologies for Bioactive Compounds from Algal Biome to Meet Bio-Economy Challenges and Opportunities. <i>Molecules</i> , 2018, 23, 2953.	3.8	75
7	Highly hazardous pesticides and related pollutants: Toxicological, regulatory, and analytical aspects. <i>Science of the Total Environment</i> , 2022, 807, 151879.	8.0	74
8	Enzyme-mimicking capacities of carbon-dots nanozymes: Properties, catalytic mechanism, and applications â€” A review. <i>International Journal of Biological Macromolecules</i> , 2022, 194, 676-687.	7.5	72
9	Exploring current tendencies in techniques and materials for immobilization of laccases â€” A review. <i>International Journal of Biological Macromolecules</i> , 2021, 181, 683-696.	7.5	56
10	High-throughput multi-residue quantification of contaminants of emerging concern in wastewaters enabled using direct injection liquid chromatography-tandem mass spectrometry. <i>Journal of Hazardous Materials</i> , 2020, 398, 122933.	12.4	56
11	Enzyme (Single and Multiple) and Nanozyme Biosensors: Recent Developments and Their Novel Applications in the Water-Food-Health Nexus. <i>Biosensors</i> , 2021, 11, 410.	4.7	47
12	Environmental impact of emerging contaminants from battery waste: A mini review. <i>Case Studies in Chemical and Environmental Engineering</i> , 2021, 3, 100104.	6.1	46
13	Accumulation of PHA in the Microalgae <i>Scenedesmus</i> sp. under Nutrient-Deficient Conditions. <i>Polymers</i> , 2021, 13, 131.	4.5	46
14	Mexican Microalgae Biodiversity and State-Of-The-Art Extraction Strategies to Meet Sustainable Circular Economy Challenges: High-Value Compounds and Their Applied Perspectives. <i>Marine Drugs</i> , 2019, 17, 174.	4.6	38
15	Phycocapture of CO <sub>2</sub> as an option to reduce greenhouse gases in cities: Carbon sinks in urban spaces. <i>Journal of CO<sub>2</sub> Utilization</i> , 2021, 53, 101704.	6.8	35
16	Bioinspired biomaterials and enzyme-based biosensors for point-of-care applications with reference to cancer and bio-imaging. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 17, 168-176.	3.1	30
17	Evaluation of SARS-COV-2 transmission through indoor air in hospitals and prevention methods: A systematic review. <i>Environmental Research</i> , 2021, 195, 110841.	7.5	28
18	Nanoclay/Polymer-Based Hydrogels and Enzyme-Loaded Nanostructures for Wound Healing Applications. <i>Gels</i> , 2021, 7, 59.	4.5	28

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19	Microalgae Bioactive Compounds to Topical Applications Products—A Review. <i>Molecules</i> , 2022, 27, 3512.	3.8	27
20	Antidepressants surveillance in wastewater: Overview extraction and detection. <i>Case Studies in Chemical and Environmental Engineering</i> , 2021, 3, 100074.	6.1	26
21	Towards a Circular Economy of Plastics: An Evaluation of the Systematic Transition to a New Generation of Bioplastics. <i>Polymers</i> , 2022, 14, 1203.	4.5	26
22	Motility of <i>Escherichia coli</i> in a quasi-two-dimensional porous medium. <i>Physical Review E</i> , 2017, 95, 032404.	2.1	25
23	Sources of antibiotics pollutants in the aquatic environment under SARS-CoV-2 pandemic situation. <i>Case Studies in Chemical and Environmental Engineering</i> , 2021, 4, 100127.	6.1	25
24	Biosensors for the detection of disease outbreaks through wastewater-based epidemiology. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 155, 116585.	11.4	24
25	Light Intensity and Nitrogen Concentration Impact on the Biomass and Phycoerythrin Production by <i>Porphyridium purpureum</i> . <i>Marine Drugs</i> , 2019, 17, 460.	4.6	22
26	Modern World Applications for Nano-Bio Materials: Tissue Engineering and COVID-19. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 597958.	4.1	21
27	Enzyme mimics in-focus: Redefining the catalytic attributes of artificial enzymes for renewable energy production. <i>International Journal of Biological Macromolecules</i> , 2021, 179, 80-89.	7.5	18
28	Phenolic Compounds From Brewer's Spent Grains: Toward Green Recovery Methods and Applications in the Cosmetic Industry. <i>Frontiers in Sustainable Food Systems</i> , 2021, 5, .	3.9	18
29	Poly- $\beta$ -hydroxybutyrate-based constructs with novel characteristics for drug delivery and tissue engineering applications—A review. <i>Polymer Engineering and Science</i> , 2020, 60, 1760-1772.	3.1	17
30	Nanostructures for drug delivery in respiratory diseases therapeutics: Revision of current trends and its comparative analysis. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 70, 103219.	3.0	16
31	Lignocellulosic residues as supports for enzyme immobilization, and biocatalysts with potential applications. <i>International Journal of Biological Macromolecules</i> , 2022, 208, 748-759.	7.5	12
32	Exploring the potential of coffee husk as caffeine bio-adsorbent — A mini-review. <i>Case Studies in Chemical and Environmental Engineering</i> , 2021, 3, 100070.	6.1	11
33	CO2 biocapture by <i>Scenedesmus</i> sp. grown in industrial wastewater. <i>Science of the Total Environment</i> , 2021, 790, 148222.	8.0	11
34	Nephroprotective Plants: A Review on the Use in Pre-Renal and Post-Renal Diseases. <i>Plants</i> , 2022, 11, 818.	3.5	11
35	Micro-algae assisted green bioremediation of water pollutants rich leachate and source products recovery. <i>Environmental Pollution</i> , 2022, 306, 119422.	7.5	11
36	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. <i>Water (Switzerland)</i> , 2022, 14, 1842.	2.7	10

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37	Bistable behaviour and medium-dependent post-translational regulation of the tryptophanase operon regulatory pathway in <i>Echerichia coli</i> . <i>Scientific Reports</i> , 2019, 9, 5451.	3.3	6
38	Implementation of kLa-Based Strategy for Scaling Up <i>Porphyridium purpureum</i> (Red Marine Microalga) to Produce High-Value Phycoerythrin, Fatty Acids, and Proteins. <i>Marine Drugs</i> , 2021, 19, 290.	4.6	6
39	Paper and Other Fibrous Materials—A Complete Platform for Biosensing Applications. <i>Biosensors</i> , 2021, 11, 128.	4.7	4
40	Experimental and Mathematical-Modeling Characterization of <i>Trypanosoma cruzi</i> Epimastigote Motility. <i>PLoS ONE</i> , 2015, 10, e0142478.	2.5	3
41	Current challenges for modern vaccines and perspectives for novel treatment alternatives. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 70, 103222.	3.0	3
42	Validation of aqueous two-phase extraction method. <i>MethodsX</i> , 2021, 8, 101421.	1.6	2