

Elda Melchor

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

690
citations

516215

16
h-index

580395

25
g-index

32
all docs

32
docs citations

32
times ranked

509
citing authors

#	ARTICLE	IF	CITATIONS
1	Enzyme-mimicking capacities of carbon-dots nanozymes: Properties, catalytic mechanism, and applications – A review. <i>International Journal of Biological Macromolecules</i> , 2022, 194, 676-687.	3.6	72
2	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.	6.5	56
3	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.	2.3	47
4	Environmental impact of emerging contaminants from battery waste: A mini review. <i>Case Studies in Chemical and Environmental Engineering</i> , 2021, 3, 100104.	2.9	46
5	Therapeutic attributes and applied aspects of biological macromolecules (polypeptides, fucoxanthin,) <i>Tj ETQq1 1 0.784314 rgBT /Overlo</i> <i>of Biological Macromolecules</i> , 2021, 171, 398-413.	3.6	41
6	Impact of climate change and early development of coffee rust – An overview of control strategies to preserve organic cultivars in Mexico. <i>Science of the Total Environment</i> , 2020, 738, 140225.	3.9	30
7	Soil carbon sequestration, greenhouse gas emissions, and water pollution under different tillage practices. <i>Science of the Total Environment</i> , 2022, 826, 154161.	3.9	30
8	Carbon dots-based nanomaterials for fluorescent sensing of toxic elements in environmental samples: Strategies for enhanced performance. <i>Chemosphere</i> , 2022, 300, 134515.	4.2	28
9	A paradigm shift to CO ₂ sequestration to manage global warming – With the emphasis on developing countries. <i>Science of the Total Environment</i> , 2021, 790, 148169.	3.9	27
10	Incorporating the sustainable development goals in engineering education. <i>International Journal on Interactive Design and Manufacturing</i> , 2020, 14, 739-745.	1.3	26
11	Antidepressants surveillance in wastewater: Overview extraction and detection. <i>Case Studies in Chemical and Environmental Engineering</i> , 2021, 3, 100074.	2.9	26
12	Towards a Circular Economy of Plastics: An Evaluation of the Systematic Transition to a New Generation of Bioplastics. <i>Polymers</i> , 2022, 14, 1203.	2.0	26
13	Biosensors for the detection of disease outbreaks through wastewater-based epidemiology. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 155, 116585.	5.8	24
14	Modern World Applications for Nano-Bio Materials: Tissue Engineering and COVID-19. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 597958.	2.0	21
15	Seasonal characterization and quantification of biomolecules from sargassum collected from Mexican Caribbean coast – A preliminary study as a step forward to blue economy. <i>Journal of Environmental Management</i> , 2021, 298, 113507.	3.8	20
16	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.	3.6	18
17	Stereochemistry of a Second Riolozone and Other Diterpenoids from <i>Jatropha dioica</i> . <i>Journal of Natural Products</i> , 2017, 80, 2252-2262.	1.5	17
18	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.	1.4	16

#	ARTICLE	IF	CITATIONS
19	Plant-derived endoperoxides: structure, occurrence, and bioactivity. <i>Phytochemistry Reviews</i> , 2020, 19, 827-864.	3.1	15
20	High Throughput Profiling of Flavonoid Abundance in Agave lechuguilla Residue-Valorizing under Explored Mexican Plant. <i>Plants</i> , 2021, 10, 695.	1.6	12
21	Lignocellulosic residues as supports for enzyme immobilization, and biocatalysts with potential applications. <i>International Journal of Biological Macromolecules</i> , 2022, 208, 748-759.	3.6	12
22	Functional Attributes and Anticancer Potentialities of Chico (<i>Pachycereus Weberi</i>) and Jiotilla (<i>Escontria Chiotilla</i>) Fruits Extract. <i>Plants</i> , 2020, 9, 1623.	1.6	11
23	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.	2.9	11
24	Nutrient Budgeting – A Robust Indicator of Soil – Water – Air Contamination Monitoring and Prevention. <i>Environmental Technology and Innovation</i> , 2021, 24, 101944.	3.0	11
25	Nephroprotective Plants: A Review on the Use in Pre-Renal and Post-Renal Diseases. <i>Plants</i> , 2022, 11, 818.	1.6	11
26	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.	1.2	10
27	Sargassum-based potential biosorbent to tackle pollution in aqueous ecosystems – An overview. <i>Case Studies in Chemical and Environmental Engineering</i> , 2020, 2, 100032.	2.9	9
28	Early Optimization Stages of Agave lechuguilla Bagasse Processing toward Biorefinement: Drying Procedure and Enzymatic Hydrolysis for Flavonoid Extraction. <i>Molecules</i> , 2021, 26, 7292.	1.7	5
29	Paper and Other Fibrous Materials – A Complete Platform for Biosensing Applications. <i>Biosensors</i> , 2021, 11, 128.	2.3	4
30	Active Flavonoids from <i>Colubrina greggii</i> var. <i>greggii</i> S. Watson against Clinical Isolates of <i>Candida</i> spp.. <i>Molecules</i> , 2021, 26, 5760.	1.7	3
31	Current challenges for modern vaccines and perspectives for novel treatment alternatives. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 70, 103222.	1.4	3
32	Validation of aqueous two-phase extraction method. <i>MethodsX</i> , 2021, 8, 101421.	0.7	2