

Hossein Ahmadzadeh

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6396627/publications.pdf>

Version: 2024-02-01

54
papers

1,983
citations

331670

21
h-index

254184

43
g-index

56
all docs

56
docs citations

56
times ranked

2634
citing authors

#	ARTICLE	IF	CITATIONS
1	Potential use of algae for heavy metal bioremediation, a critical review. <i>Journal of Environmental Management</i> , 2016, 181, 817-831.	7.8	394
2	The Use of Microalgae for Coupling Wastewater Treatment With CO ₂ Biofixation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 42.	4.1	178
3	Picomolar Assay of Native Proteins by Capillary Electrophoresis Precolumn Labeling, Submicellar Separation, and Laser-Induced Fluorescence Detection. <i>Analytical Chemistry</i> , 1997, 69, 3015-3021.	6.5	132
4	Sample preparation and extraction methods for pesticides in aquatic environments: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 123, 115772.	11.4	120
5	CO ₂ bioremediation by microalgae in photobioreactors: Impacts of biomass and CO ₂ concentrations, light, and temperature. <i>Algal Research</i> , 2014, 6, 78-85.	4.6	99
6	Surface modification based on Si-O and Si-C sublayers and a series of N-substituted acrylamide top-layers for capillary electrophoresis. <i>Electrophoresis</i> , 1998, 19, 1677-1682.	2.4	81
7	Kinetics and mechanism of antibacterial activity and cytotoxicity of Ag-RGO nanocomposite. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 159, 366-374.	5.0	77
8	Nitrate and Nitrite Removal from Wastewater using Algae. <i>Current Biotechnology</i> , 2016, 4, 426-440.	0.4	64
9	Synergistic effect of graphene nanosheets and zinc oxide nanoparticles for effective adsorption of Ni (II) ions from aqueous solutions. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	59
10	A multiple-capillary electrophoresis system for small-scale DNA sequencing and analysis. <i>Nucleic Acids Research</i> , 1999, 27, 36e-36.	14.5	57
11	3-D mesoporous nitrogen-doped reduced graphene oxide as an efficient metal-free electrocatalyst for oxygen reduction reaction in alkaline fuel cells: Role of π and lone pair electrons. <i>Electrochimica Acta</i> , 2016, 222, 608-618.	5.2	52
12	Bioprocess engineering of microalgae to optimize lipid production through nutrient management. <i>Journal of Applied Phycology</i> , 2016, 28, 3235-3250.	2.8	52
13	Organophosphorus pesticides extraction with polyvinyl alcohol coated magnetic graphene oxide particles and analysis by gas chromatography-mass spectrometry: Application to apple juice and environmental water. <i>Talanta</i> , 2021, 227, 122078.	5.5	43
14	Improving antibacterial activity of phosphomolybdic acid using graphene. <i>Materials Chemistry and Physics</i> , 2017, 188, 58-67.	4.0	37
15	Photoelectrochemical water splitting by engineered multilayer TiO ₂ /GQDs photoanode with cascade charge transfer structure. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 123-134.	7.1	35
16	Graphitic carbon nitride embedded hydrogels for enhanced gel electrophoresis. <i>Analytica Chimica Acta</i> , 2015, 887, 245-252.	5.4	33
17	Osteoconductive composite graft based on bacterial synthesized hydroxyapatite nanoparticles doped with different ions: From synthesis to in vivo studies. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 1387-1395.	3.3	32
18	Porous perovskite-lanthanum cobaltite as an efficient cocatalyst in photoelectrocatalytic water oxidation by bismuth doped g-C ₃ N ₄ . <i>Solar Energy</i> , 2021, 227, 426-437.	6.1	31

#	ARTICLE	IF	CITATIONS
19	Direct Sampling from Muscle Cross Sections for Electrophoretic Analysis of Individual Mitochondria. <i>Analytical Chemistry</i> , 2004, 76, 315-321.	6.5	28
20	Automated analysis of individual particles using a commercial capillary electrophoresis system. <i>Journal of Chromatography A</i> , 2005, 1064, 107-114.	3.7	27
21	Use of solvent mixtures for total lipid extraction of <i>Chlorella vulgaris</i> and gas chromatography FAME analysis. <i>Bioprocess and Biosystems Engineering</i> , 2017, 40, 1363-1373.	3.4	27
22	Sodium dodecyl sulfate-capillary electrophoresis of proteins in a sieving matrix utilizing two-spectral channel laser-induced fluorescence detection. <i>Electrophoresis</i> , 1998, 19, 2175-2178.	2.4	21
23	Differential carbon partitioning and fatty acid composition in mixotrophic and autotrophic cultures of a new marine isolate <i>Tetraselmis</i> sp. KY114885. <i>Journal of Applied Phycology</i> , 2019, 31, 201-210.	2.8	21
24	Graphitic carbon nitride nanosheets prepared by electrophoretic size fractionation as an anticancer agent against human bone carcinoma. <i>Materials Science and Engineering C</i> , 2020, 111, 110803.	7.3	20
25	Growth of <i>Chlorella vulgaris</i> in High Concentrations of Nitrate and Nitrite for Wastewater Treatment. <i>Current Biotechnology</i> , 2016, 4, 441-447.	0.4	20
26	On-column labeling for capillary electrophoretic analysis of individual mitochondria directly sampled from tissue cross sections. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 384, 169-174.	3.7	18
27	Improvement of heat dissipation in agarose gel electrophoresis by metal oxide nanoparticles. <i>RSC Advances</i> , 2015, 5, 88655-88665.	3.6	18
28	Neglected antibacterial activity of ethylene glycol as a common solvent. <i>Microbial Pathogenesis</i> , 2017, 107, 457-461.	2.9	18
29	Asymmetry between Sister Cells in a Cancer Cell Line Revealed by Chemical Cytometry. <i>Analytical Chemistry</i> , 2004, 76, 3864-3866.	6.5	16
30	Electrophoretic size fractionation of graphene oxide nanosheets. <i>New Journal of Chemistry</i> , 2019, 43, 5047-5054.	2.8	14
31	Production of Microalgae-Derived High-Protein Biomass to Enhance Food for Animal Feedstock and Human Consumption. , 2019, , 393-405.		13
32	Algae as a Source of Microcrystalline Cellulose. , 2019, , 331-350.		13
33	Capillary Coating for Protein Separation Based on Si-O and Si-C Covalent Bond Formation for Capillary Electrophoresis With Laser-Induced Fluorescence Detection. , 2004, 276, 015-028.		12
34	Embedded ceria nanoparticles in gel improve electrophoretic separation: a preliminary demonstration. <i>Analyst</i> , 2015, 140, 4434-4444.	3.5	12
35	Cell Wall Disruption: A Critical Upstream Process for Biofuel Production. , 2019, , 21-35.		12
36	REVISITING ELECTROOSMOTIC FLOW: AN IMPORTANT PARAMETER AFFECTING SEPARATION IN CAPILLARY AND MICROCHIP ELECTROPHORESIS. <i>Chemical Engineering Communications</i> , 2007, 195, 129-146.	2.6	11

#	ARTICLE	IF	CITATIONS
37	Algae-Based Wastewater Treatment for Biofuel Production: Processes, Species, and Extraction Methods. <i>Biofuel and Biorefinery Technologies</i> , 2015, , 95-115.	0.3	10
38	Heat dissipation in slab gel electrophoresis: The effect of embedded TiO ₂ nanoparticles on the thermal profiles. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2019, 1118-1119, 63-69.	2.3	10
39	Enhanced electrophoretic separation of proteins by tethered SiO ₂ nanoparticles in an SDS-polyacrylamide gel network. <i>Analyst</i> , The, 2020, 145, 415-423.	3.5	10
40	Capillary Electrophoresis Reveals Changes in Individual Mitochondrial Particles Associated With Skeletal Muscle Fiber Type and Age. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2006, 61, 1211-1218.	3.6	9
41	Assessment of groundwater quality for the irrigation of melon farms: a comparison between two arable plains in northeastern Iran. <i>Environmental Earth Sciences</i> , 2019, 78, 1.	2.7	7
42	Recent Advances in Lipid Extraction for Biodiesel Production. , 2019, , 179-198.		6
43	Supercritical carbon dioxide extraction and analysis of lipids from <i>Chlorella vulgaris</i> using gas chromatography. <i>Journal of the Iranian Chemical Society</i> , 2017, 14, 2427-2436.	2.2	5
44	Electrophoretic extraction of highly monodispersed graphene quantum dots from widely polydispersed bulk and its cytotoxicity effect against cancer cells. <i>Microchemical Journal</i> , 2020, 159, 105391.	4.5	5
45	CO ₂ Environmental Bioremediation by Microalgae. <i>Biofuel and Biorefinery Technologies</i> , 2015, , 117-136.	0.3	4
46	A Mechanically Flexible Superhydrophobic Rock Wool Modified with Reduced Graphene Oxide-Chloroprene Rubber for Oil Spill Cleanup. <i>Global Challenges</i> , 2021, 5, 2100072.	3.6	4
47	Magnetic solid-phase extraction of organophosphorus pesticides from apple juice and environmental water samples using magnetic graphene oxide coated with poly(2-aminoterephthalic acid-co-aniline) nanocomposite as a sorbent. <i>Journal of Separation Science</i> , 2022, , .	2.5	4
48	Correlation of Total Lipid Content of <i>Chlorella vulgaris</i> With the Dynamics of Individual Fatty Acid Growth Rates. <i>Frontiers in Marine Science</i> , 2022, 9, .	2.5	4
49	Fatty Acid Profiling of Biofuels Produced From Microalgae, Vegetable Oil, and Waste Vegetable Oil. , 2019, , 239-254.		3
50	Preparation of monodispersed carbonaceous nanomaterials – A review. <i>Colloids and Interface Science Communications</i> , 2021, 44, 100479.	4.1	2
51	Artemia Cysts as dynamic biosorbent for efficient and fast uptake of lead ions from contaminated environments. <i>International Journal of Environmental Science and Technology</i> , 2022, 19, 6467-6480.	3.5	2
52	On-Column Labeling Reaction for Analysis of Protein Contents of a Single Cell Using Capillary Electrophoresis With Laser-Induced Fluorescence Detection. , 2004, 276, 029-038.		1
53	Multipurpose Use of Microalgae to Treat Municipal Wastewater and Produce Biofuels. , 2019, , 313-330.		0
54	Microstructural, Thermal and Electrical Properties of Methyl Methacrylate and 1-Hexene Copolymers Made by Dinuclear Ni-Based Catalysts. <i>ChemistrySelect</i> , 2021, 6, 10190-10200.	1.5	0