

Majid Rezayi

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

2,643
citations

159525

30
h-index

223716

46
g-index

89
all docs

89
docs citations

89
times ranked

3528
citing authors

#	ARTICLE	IF	CITATIONS
1	Therapeutic Potential of Targeting PI3K/AKT Pathway in Treatment of Colorectal Cancer: Rational and Progress. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 2460-2469.	1.2	150
2	Copper-phthalocyanine and nickel nanoparticles as novel cathode catalysts in microbial fuel cells. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 9533-9540.	3.8	132
3	Ultra-sensitive molecularly imprinted electrochemical sensor for patulin detection based on a novel assembling strategy using Au@Cu-MOF/N-GQDs. <i>Sensors and Actuators B: Chemical</i> , 2020, 318, 128219.	4.0	121
4	Limit of detection and limit of quantification development procedures for organochlorine pesticides analysis in water and sediment matrices. <i>Chemistry Central Journal</i> , 2013, 7, 63.	2.6	90
5	Potentiometric Urea Biosensor Based on an Immobilised Fullerene-Urease Bio-Conjugate. <i>Sensors</i> , 2013, 13, 16851-16866.	2.1	87
6	A review of strategies to monitor water and sediment quality for a sustainability assessment of marine environment. <i>Environmental Science and Pollution Research</i> , 2014, 21, 813-833.	2.7	77
7	Synergy Effect of Nanocrystalline Cellulose for the Biosensing Detection of Glucose. <i>Sensors</i> , 2015, 15, 24681-24697.	2.1	77
8	Heavy metal contamination in water and sediment of the Port Klang coastal area, Selangor, Malaysia. <i>Environmental Earth Sciences</i> , 2013, 69, 2013-2025.	1.3	73
9	Distribution and Contamination of Heavy Metal in the Coastal Sediments of Port Klang, Selangor, Malaysia. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	1.1	67
10	Polycyclic Aromatic Hydrocarbons in Coastal Sediment of Klang Strait, Malaysia: Distribution Pattern, Risk Assessment and Sources. <i>PLoS ONE</i> , 2014, 9, e94907.	1.1	63
11	Dioxin risk assessment: mechanisms of action and possible toxicity in human health. <i>Environmental Science and Pollution Research</i> , 2015, 22, 19434-19450.	2.7	61
12	Highly Selective Detection of Titanium (III) in Industrial Waste Water Samples Using Meso-octamethylcalix[4]pyrrole-Doped PVC Membrane Ion-Selective Electrode. <i>Electrochimica Acta</i> , 2015, 178, 580-589.	2.6	55
13	The role of curcumin and its derivatives in sensory applications. <i>Materials Science and Engineering C</i> , 2019, 103, 109792.	3.8	50
14	Development of biosensors for detection of alpha-fetoprotein: As a major biomarker for hepatocellular carcinoma. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 130, 115961.	5.8	50
15	Early-stage cervical cancer diagnosis based on an ultra-sensitive electrochemical DNA nanobiosensor for HPV-18 detection in real samples. <i>Journal of Nanobiotechnology</i> , 2020, 18, 11.	4.2	50
16	Ultrasmall superparamagnetic Fe ₃ O ₄ nanoparticles: honey-based green and facile synthesis and in vitro viability assay. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 6903-6911.	3.3	46
17	Cesium selective polymeric membrane sensor based on p-isopropylcalix[6]arene and its application in environmental samples. <i>RSC Advances</i> , 2015, 5, 39209-39217.	1.7	45
18	Conductometric measurements of complexation study between 4-Isopropylcalix[4]arene and Cr ³⁺ cation in THF/DMSO binary solvents. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015, 70, 214-224.	2.5	44

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19	Thermodynamic Study of the Complexation of p-Isopropylcalix[6]arene with Cs ⁺ Cation in N,N-Dimethylsulfoxide-Acetonitrile Binary Media. <i>Molecules</i> , 2011, 16, 8130-8142.	1.7	43
20	A Novel Potentiometric Sensor Based on 1,2-Bis(N ⁺ -benzoylthioureido)benzene and Reduced Graphene Oxide for Determination of Lead (II) Cation in Raw Milk. <i>Electrochimica Acta</i> , 2015, 165, 221-231.	2.6	43
21	Titanium (III) cation selective electrode based on synthesized tris(2pyridyl) methylamine ionophore and its application in water samples. <i>Scientific Reports</i> , 2014, 4, 4664.	1.6	42
22	Early detection of cervical cancer based on high-risk HPV DNA-based genosensors: A systematic review. <i>BioFactors</i> , 2019, 45, 101-117.	2.6	41
23	Exosomes: New insights into cancer mechanisms. <i>Journal of Cellular Biochemistry</i> , 2020, 121, 7-16.	1.2	41
24	Response surface methodology optimized electrochemical DNA biosensor based on HAPNPTs/PPY/MWCNTs nanocomposite for detecting Mycobacterium tuberculosis. <i>Talanta</i> , 2021, 226, 122099.	2.9	37
25	Immobilization of tris(2 pyridyl) methylamine in a PVC-Membrane Sensor and Characterization of the Membrane Properties. <i>Chemistry Central Journal</i> , 2012, 6, 40.	2.6	35
26	Gold nanoparticle and polyethylene glycol in neural regeneration in the treatment of neurodegenerative diseases. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 2749-2755.	1.2	35
27	Immobilization of Ionophore and Surface Characterization Studies of the Titanium(III) Ion in a PVC-Membrane Sensor. <i>Sensors</i> , 2012, 12, 8806-8814.	2.1	34
28	Human health risk of polycyclic aromatic hydrocarbons from consumption of blood cockle and exposure to contaminated sediments and water along the Klang Strait, Malaysia. <i>Marine Pollution Bulletin</i> , 2014, 84, 268-279.	2.3	33
29	Advancements in electrochemical DNA sensor for detection of human papilloma virus - A review. <i>Analytical Biochemistry</i> , 2018, 556, 136-144.	1.1	33
30	Targeting cancer stem cells as therapeutic approach in the treatment of colorectal cancer. <i>International Journal of Biochemistry and Cell Biology</i> , 2019, 110, 75-83.	1.2	33
31	Reactive oxygen species in colorectal cancer: The therapeutic impact and its potential roles in tumor progression via perturbation of cellular and physiological dysregulated pathways. <i>Journal of Cellular Physiology</i> , 2019, 234, 10072-10079.	2.0	33
32	An overview and bibliometric analysis on the colorectal cancer therapy by magnetic functionalized nanoparticles for the responsive and targeted drug delivery. <i>Journal of Nanobiotechnology</i> , 2021, 19, 399.	4.2	33
33	Sensitive and specific clinically diagnosis of SARS-CoV-2 employing a novel biosensor based on boron nitride quantum dots/flower-like gold nanostructures signal amplification. <i>Biosensors and Bioelectronics</i> , 2022, 207, 114209.	5.3	30
34	Integrated ecological risk assessment of dioxin compounds. <i>Environmental Science and Pollution Research</i> , 2015, 22, 11193-11208.	2.7	29
35	A Novel Ion selective Polymeric Membrane Sensor for Determining Thallium(I) With High Selectivity. <i>IOP Conference Series: Materials Science and Engineering</i> , 2011, 17, 012010.	0.3	28
36	Ecological quality assessment based on macrobenthic assemblages indices along West Port, Malaysia coast. <i>Environmental Earth Sciences</i> , 2015, 74, 1331-1341.	1.3	26

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37	An overview of detection techniques for monitoring dioxin-like compounds: latest technique trends and their applications. RSC Advances, 2016, 6, 55415-55429.	1.7	26
38	The Role of microRNAs in the Viral Infections. Current Pharmaceutical Design, 2019, 24, 4659-4667.	0.9	24
39	A novel method for fabricating Fe ²⁺ ion selective sensor using polypyrrole and sodium dodecyl sulfate based on carbon screen-printed electrode. Measurement: Journal of the International Measurement Confederation, 2015, 69, 115-125.	2.5	23
40	Health Risk Assessment for Human Exposure to Trace Metals and Arsenic via Consumption of Hen Egg Collected from Largest Poultry Industry in Iran. Biological Trace Element Research, 2019, 188, 485-493.	1.9	23
41	Comprehensive experimental and theoretical investigations on chromium (III) trace detection in biological and environmental samples using polymeric membrane sensor. International Journal of Environmental Analytical Chemistry, 0, , 1-16.	1.8	23
42	Semi-empirical study of ortho-cresol photo degradation in manganese-doped zinc oxide nanoparticles suspensions. Chemistry Central Journal, 2012, 6, 88.	2.6	21
43	Risk assessment of polycyclic aromatic hydrocarbons in the West Port semi-enclosed basin (Malaysia). Environmental Earth Sciences, 2014, 71, 4319-4332.	1.3	21
44	Enhanced Photovoltaic Performance of Polymer Hybrid Nanostructure Heterojunction Solar Cells Based on Poly(3-hexylthiophene)/ZnS/ZnO/Reduced Graphene Oxide Shell@Core Nanorod Arrays. Industrial & Engineering Chemistry Research, 2014, 53, 14301-14309.	1.8	20
45	The clinical impact of exosomes in cardiovascular disorders: From basic science to clinical application. Journal of Cellular Physiology, 2019, 234, 12226-12236.	2.0	20
46	A Novel Electrochemical DNA Biosensor Based on a Gold Nanoparticles-Reduced Graphene Oxide-Polypyrrole Nanocomposite to Detect Human T-Lymphotropic Virus-1. IEEE Sensors Journal, 2020, 20, 10625-10632.	2.4	20
47	The status and characteristics of eutrophication in tropical coastal water. Environmental Sciences: Processes and Impacts, 2017, 19, 1086-1103.	1.7	19
48	MicroRNA-based Biosensors for Early Detection of Cancers. Current Pharmaceutical Design, 2019, 24, 4675-4680.	0.9	19
49	A comparison of analytical methods for measuring concentrations of 25-hydroxy vitamin D in biological samples. Analytical Methods, 2018, 10, 5599-5612.	1.3	18
50	Scavenger receptor Class B type I as a potential risk stratification biomarker and therapeutic target in cardiovascular disease. Journal of Cellular Physiology, 2019, 234, 16925-16932.	2.0	17
51	Current approaches for detection of human T-lymphotropic virus Type 1: A systematic review. Journal of Cellular Physiology, 2019, 234, 12433-12441.	2.0	17
52	Aptamers as potential recognition elements for detection of vitamins and minerals: a systematic and critical review. Critical Reviews in Clinical Laboratory Sciences, 2020, 57, 126-144.	2.7	17
53	Interactions between photodegradation components. Chemistry Central Journal, 2012, 6, 100.	2.6	16
54	A novel potentiometric self-plasticizing polypyrrole sensor based on a bidentate bis-NHC ligand for determination of Hg(II) cation. RSC Advances, 2015, 5, 76263-76274.	1.7	16

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55	The effects of vitamin D supplementation on indices of glycemic control in Iranian diabetics: A systematic review and meta-analysis. <i>Complementary Therapies in Clinical Practice</i> , 2019, 34, 294-304.	0.7	16
56	A genetic variant in <i>CDKN2A/2B</i> locus was associated with poor prognosis in patients with esophageal squamous cell carcinoma. <i>Journal of Cellular Physiology</i> , 2019, 234, 5070-5076.	2.0	16
57	Rapid and label-free electrochemical DNA biosensor based on a facile one-step electrochemical synthesis of rGO@PPy@Cys-AuNPs nanocomposite for the HTLV-1 oligonucleotide detection. <i>Biotechnology and Applied Biochemistry</i> , 2021, 68, 626-635.	1.4	16
58	Dual-signaling electrochemical ratiometric strategy for simultaneous quantification of anticancer drugs. <i>Talanta</i> , 2021, 234, 122662.	2.9	16
59	High-density lipoprotein functionality and breast cancer: A potential therapeutic target. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 5756-5765.	1.2	15
60	The overview and perspectives of biosensors and <i>Mycobacterium tuberculosis</i> : A systematic review. <i>Journal of Cellular Physiology</i> , 2021, 236, 1730-1750.	2.0	15
61	Facile and greener hydrothermal honey-based synthesis of Fe ₃ O ₄ /Au core/shell nanoparticles for drug delivery applications. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 6624-6631.	1.2	14
62	Potentiometric Chromate Anion Detection Based on Co(SALEN) ₂ Ionophore in a PVC-Membrane Sensor. <i>Journal of the Electrochemical Society</i> , 2014, 161, B129-B136.	1.3	13
63	PCR-free electrochemical genosensor for <i>Mycobacterium tuberculosis</i> complex detection based on two-dimensional Ti ₃ C ₂ Mxene-polypyrrole signal amplification. <i>Microchemical Journal</i> , 2022, 179, 107467.	2.3	13
64	A novel polymeric membrane sensor for determining titanium (III) in real samples: Experimental, molecular and regression modeling. <i>Sensors and Actuators B: Chemical</i> , 2016, 224, 805-813.	4.0	12
65	Recent advances in nanotechnology for the treatment of metabolic syndrome. <i>Diabetes and Metabolic Syndrome: Clinical Research and Reviews</i> , 2019, 13, 1561-1568.	1.8	12
66	Application of a transition metal oxide/carbon-based nanocomposite for designing a molecularly imprinted poly (L-cysteine) electrochemical sensor for curcumin. <i>Food Chemistry</i> , 2022, 386, 132845.	4.2	12
67	A review of biosensors for the detection of B-type natriuretic peptide as an important cardiovascular biomarker. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 5949-5967.	1.9	11
68	Conjugates of Curcumin with Graphene and Carbon Nanotubes: A Review on Biomedical Applications. <i>Current Medicinal Chemistry</i> , 2020, 27, 6849-6863.	1.2	11
69	The West Coast of Peninsular Malaysia. , 2019, , 437-458.		10
70	Correlation of human papillomavirus 16 and 18 with cervical cancer and their diagnosis methods in Iranian women: A systematic review and meta-analysis. <i>Current Problems in Cancer</i> , 2020, 44, 100493.	1.0	10
71	Association of vitamin D status with liver and kidney disease: A systematic review of clinical trials, and cross-sectional and cohort studies. <i>International Journal for Vitamin and Nutrition Research</i> , 2021, 91, 175-187.	0.6	10
72	The first diagnostic test for specific detection of <i>Mycobacterium simiae</i> using an electrochemical label-free DNA nanobiosensor. <i>Talanta</i> , 2022, 238, 123049.	2.9	10

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73	Conductance Studies on Complex Formation between c-Methylcalix[4]resorcinarene and Titanium (III) in Acetonitrile-H ₂ O Binary Solutions. <i>Molecules</i> , 2013, 18, 12041-12050.	1.7	9
74	A New N-Heterocyclic Carbene Ionophore in Plasticizer-free Polypyrrole Membrane for Determining Ag ⁺ in Tap Water. <i>Electrochimica Acta</i> , 2016, 197, 10-22.	2.6	9
75	A Novel Electrochemical DNA Biosensor Based on Hydroxyapatite Nanoparticles to Detect BK Polyomavirus in the Urine Samples of Transplant Patients. <i>IEEE Sensors Journal</i> , 2020, 20, 12088-12095.	2.4	9
76	Current status and future prospects of transforming growth factor- β 2 as a potential prognostic and therapeutic target in the treatment of breast cancer. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 6962-6971.	1.2	8
77	Distribution characteristics and ecological risk of heavy metals in surface sediments of West Port, Malaysia. <i>Environmental Protection Engineering</i> , 2012, 38, .	0.1	8
78	Biosynthesis and antibiotic activity of silver nanoparticles using different sources: Glass industrial sewage-adapted <i>Bacillus</i> sp. and herbaceous <i>Amaranthus</i> sp. <i>Biotechnology and Applied Biochemistry</i> , 2019, 66, 900-910.	1.4	7
79	Nanotechnology-driven advances in the treatment of diabetic wounds. <i>Biotechnology and Applied Biochemistry</i> , 2020, , .	1.4	7
80	Passive mode-locking at S-band by single-mode thulium-doped fluoride fiber using a thin film PtAg/N-G saturable absorber. <i>Journal of Nanophotonics</i> , 2017, 11, 026008.	0.4	6
81	The Response of Macrobenthic Communities to Environmental Variability in Tropical Coastal Waters. <i>Estuaries and Coasts</i> , 2018, 41, 1178-1192.	1.0	5
82	A PCR-Free Genome Detection of Mycobacterium Tuberculosis Complex in Clinical Samples using MWCNT/PPy/KHApNps Modified Electrochemical Nano-Biosensor. <i>Journal of the Electrochemical Society</i> , 0, , .	1.3	5
83	Toward Early Diagnosis of Colorectal Cancer: Focus on Optical Nano Biosensors. <i>Mini-Reviews in Medicinal Chemistry</i> , 2022, 22, .	1.1	4
84	Measurements of thermodynamic parameters for complexation between a tetra-aza macrocycle ligand and some metal cations based on conductometric method. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 77, 362-372.	2.5	2
85	Development of detection methods for the diagnosis and analysis of highly toxic metal phosphides: A comprehensive and critical review. <i>Biotechnology and Applied Biochemistry</i> , 2022, 69, 1121-1147.	1.4	2
86	A new molecularly imprinted polymer electrochemical sensor based on CuCo ₂ O ₄ /N-doped CNTs/P-doped GO nanocomposite for detection of 25-hydroxyvitamin D ₃ in serum samples. <i>Biotechnology and Applied Biochemistry</i> , 0, , .	1.4	2
87	Fabrication of Novel Potentiometric Sensor for Lead Ion Detection in Blood Samples: Experimental and Theoretical Approaches. <i>Microchemical Journal</i> , 2022, 178, 107383.	2.3	1
88	A Critical Systematic Review of Developing Aptasensors for Diagnosis and Detection of Diabetes Biomarkers. <i>Critical Reviews in Analytical Chemistry</i> , 2021, , 1-23.	1.8	0