

Mohammad A Ali

List of Publications by Year in descending order

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78
papers

2,249
citations

236833

25
h-index

243529

44
g-index

78
all docs

78
docs citations

78
times ranked

3347
citing authors

#	ARTICLE	IF	CITATIONS
1	Methyl Jasmonate and Salicylic Acid Induced Oxidative Stress and Accumulation of Phenolics in Panax ginseng Bioreactor Root Suspension Cultures. <i>Molecules</i> , 2007, 12, 607-621.	1.7	148
2	Silver nanoparticles synthesized from Adenium obesum leaf extract induced DNA damage, apoptosis and autophagy via generation of reactive oxygen species. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 141, 158-169.	2.5	142
3	Unravelling lead antiviral phytochemicals for the inhibition of SARS-CoV-2 Mpro enzyme through in silico approach. <i>Life Sciences</i> , 2020, 255, 117831.	2.0	132
4	Antimicrobial efficacy of green synthesized drug blended silver nanoparticles against dental caries and periodontal disease causing microorganisms. <i>Materials Science and Engineering C</i> , 2015, 56, 374-379.	3.8	108
5	An Updated Review of Computer-Aided Drug Design and Its Application to COVID-19. <i>BioMed Research International</i> , 2021, 2021, 1-18.	0.9	95
6	Synthesis and characterization of polypyrrole decorated graphene/β-cyclodextrin composite for low level electrochemical detection of mercury (II) in water. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 888-894.	4.0	87
7	Simultaneous determination of catechol and hydroquinone using a Pt/ZrO ₂ -RGO/GCE composite modified glassy carbon electrode. <i>Electrochimica Acta</i> , 2014, 125, 503-509.	2.6	79
8	Palladium nanoparticles decorated on activated fullerene modified screen printed carbon electrode for enhanced electrochemical sensing of dopamine. <i>Journal of Colloid and Interface Science</i> , 2015, 448, 251-256.	5.0	74
9	Green synthesized silver nanoparticles decorated on reduced graphene oxide for enhanced electrochemical sensing of nitrobenzene in waste water samples. <i>RSC Advances</i> , 2015, 5, 31139-31146.	1.7	73
10	Green biosynthesis of silver nanoparticles and nanomolar detection of p-nitrophenol. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1847-1854.	1.2	70
11	A highly sensitive and selective electrochemical determination of non-steroidal prostate anti-cancer drug nilutamide based on f-MWCNT in tablet and human blood serum sample. <i>Journal of Colloid and Interface Science</i> , 2017, 487, 289-296.	5.0	61
12	Direct electrochemistry of glucose oxidase immobilized on ZrO ₂ nanoparticles-decorated reduced graphene oxide sheets for a glucose biosensor. <i>RSC Advances</i> , 2014, 4, 30358-30367.	1.7	51
13	Enhanced electrocatalytic oxidation of isoniazid at electrochemically modified rhodium electrode for biological and pharmaceutical analysis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 121, 444-450.	2.5	50
14	An electrocatalytic oxidation and voltammetric method using a chemically reduced graphene oxide film for the determination of caffeic acid. <i>Journal of Colloid and Interface Science</i> , 2014, 423, 33-40.	5.0	48
15	A sensitive and selective enzyme-free amperometric glucose biosensor using a composite from multi-walled carbon nanotubes and cobalt phthalocyanine. <i>RSC Advances</i> , 2015, 5, 26762-26768.	1.7	46
16	Synthesis and application of bismuth ferrite nanosheets supported functionalized carbon nanofiber for enhanced electrochemical detection of toxic organic compound in water samples. <i>Journal of Colloid and Interface Science</i> , 2018, 514, 59-69.	5.0	45
17	A simple hydrothermal synthesis and fabrication of zinc oxide-copper oxide heterostructure for the sensitive determination of nonenzymatic glucose biosensor. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 1299-1306.	4.0	42
18	Exploring the physicochemical profile and the binding patterns of selected novel anticancer Himalayan plant derived active compounds with macromolecular targets. <i>Informatics in Medicine Unlocked</i> , 2016, 5, 1-14.	1.9	40

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19	Simultaneous determination of dopamine and uric acid in the presence of high ascorbic acid concentration using cetyltrimethylammonium bromide-polyaniline/activated charcoal composite. <i>RSC Advances</i> , 2016, 6, 100605-100613.	1.7	40
20	Discovery of potential small molecular SARS-CoV-2 entry blockers targeting the spike protein. <i>Acta Pharmacologica Sinica</i> , 2022, 43, 788-796.	2.8	40
21	Highly sensing graphene oxide/poly-arginine-modified electrode for the simultaneous electrochemical determination of buspirone, isoniazid and pyrazinamide drugs. <i>Ionics</i> , 2015, 21, 547-555.	1.2	38
22	Flame synthesis of nitrogen doped carbon for the oxygen reduction reaction and non-enzymatic methyl parathion sensor. <i>RSC Advances</i> , 2016, 6, 71507-71516.	1.7	38
23	Metallated porphyrin noncovalent interaction with reduced graphene oxide-modified electrode for amperometric detection of environmental pollutant hydrazine. <i>Applied Organometallic Chemistry</i> , 2017, 31, e3703.	1.7	36
24	Fabrication of Silver Nanoparticles Decorated on Activated Screen Printed Carbon Electrode and Its Application for Ultrasensitive Detection of Dopamine. <i>Electroanalysis</i> , 2015, 27, 1998-2006.	1.5	33
25	Molecular docking and dynamics simulation study of bioactive compounds from <i>Ficus carica</i> L. with important anticancer drug targets. <i>PLoS ONE</i> , 2021, 16, e0254035.	1.1	32
26	Assessing Molecular Signature for Some Potential Date (<i>Phoenix dactylifera</i> L.) Cultivars from Saudi Arabia, Based on Chloroplast DNA Sequences rpoB and psbA-trnH. <i>International Journal of Molecular Sciences</i> , 2011, 12, 6871-6880.	1.8	26
27	Electrochemical determination of selected antihypertensive and antituberculosis drugs at a tyrosine-modified electrode. <i>Analytical Methods</i> , 2014, 6, 6774-6782.	1.3	26
28	Ethnomedicinal assessment of Irula tribes of Walayar valley of Southern Western Ghats, India. <i>Saudi Journal of Biological Sciences</i> , 2018, 25, 760-775.	1.8	26
29	A simple electrochemical platform based on pectin stabilized gold nanoparticles for picomolar detection of biologically toxic amitrole. <i>Analyst</i> , 2015, 140, 5764-5771.	1.7	24
30	Development of electrochemical sensor for the determination of palladium ions (Pd ²⁺) using flexible screen printed un-modified carbon electrode. <i>Journal of Colloid and Interface Science</i> , 2017, 485, 123-128.	5.0	24
31	Molecular authentication of the medicinal herb <i>Ruta graveolens</i> (Rutaceae) and an adulterant using nuclear and chloroplast DNA markers. <i>Genetics and Molecular Research</i> , 2011, 10, 2806-2816.	0.3	23
32	Direct Electrochemistry of Glucose Oxidase at Reduced Graphene Oxide and β -Cyclodextrin Composite Modified Electrode and Application for Glucose Biosensing. <i>Electroanalysis</i> , 2015, 27, 2412-2420.	1.5	23
33	Poly(basic red 9) doped functionalized multi-walled carbon nanotubes as composite films for neurotransmitters biosensors. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 118, 133-139.	2.5	22
34	Electrochemical oxidation and determination of norepinephrine in the presence of acetaminophen using MnO ₂ nanoparticle decorated reduced graphene oxide sheets. <i>Analytical Methods</i> , 2014, 6, 6504-6513.	1.3	19
35	Selective and Simultaneous Determination of Dihydroxybenzene Isomers Based on Green Synthesized Gold Nanoparticles Decorated Reduced Graphene Oxide. <i>Electroanalysis</i> , 2015, 27, 1144-1151.	1.5	19
36	Taxonomic significance of trichomes micromorphology in cucurbits. <i>Saudi Journal of Biological Sciences</i> , 2011, 18, 87-92.	1.8	18

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37	In vitro cytotoxicity screening of wild plant extracts from Saudi Arabia on human breast adenocarcinoma cells. <i>Genetics and Molecular Research</i> , 2014, 13, 3981-3990.	0.3	18
38	Molecular docking of the anticancer bioactive compound proceraside with macromolecules involved in the cell cycle and DNA replication. <i>Genetics and Molecular Research</i> , 2016, 15, .	0.3	18
39	In silico screening of FDA approved drugs reveals ergotamine and dihydroergotamine as potential coronavirus main protease enzyme inhibitors. <i>Saudi Journal of Biological Sciences</i> , 2020, 27, 2674-2682.	1.8	18
40	An Amperometric Biological Toxic Hydrazine Sensor Based on Multiwalled Carbon Nanotubes and Iron Tetrasulfonated Phthalocyanine Composite Modified Electrode. <i>Electroanalysis</i> , 2015, 27, 1403-1410.	1.5	17
41	One-pot synthesis of three-dimensional Mn ₃ O ₄ microcubes for high-level sensitive detection of head and neck cancer drug nimorazole. <i>Journal of Colloid and Interface Science</i> , 2017, 505, 1193-1201.	5.0	17
42	Enzymatic glucose biosensor based on bismuth nanoribbons electrochemically deposited on reduced graphene oxide. <i>Mikrochimica Acta</i> , 2015, 182, 2165-2172.	2.5	16
43	Amplified Detection of Chemical Warfare Agents Using Two-Dimensional Chemical Potential Gradients. <i>ACS Omega</i> , 2018, 3, 14665-14670.	1.6	15
44	Dynamic Gradient Directed Molecular Transport and Concentration in Hydrogel Films. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5001-5006.	7.2	14
45	In silico analyses of major active constituents of fingerroot (<i>Boesenbergia rotunda</i>) unveils inhibitory activities against SARS-CoV-2 main protease enzyme. <i>Saudi Journal of Biological Sciences</i> , 2022, 29, 65-74.	1.8	14
46	Reactive Oxygen Species-Mediated Cytotoxicity in Liver Carcinoma Cells Induced by Silver Nanoparticles Biosynthesized Using <i>Schinus molle</i> Extract. <i>Nanomaterials</i> , 2022, 12, 161.	1.9	14
47	A non-covalent interaction of Schiff base copper alanine complex with green synthesized reduced graphene oxide for highly selective electrochemical detection of nitrite. <i>RSC Advances</i> , 2016, 6, 107416-107425.	1.7	13
48	Identification of SARS-CoV-2 inhibitors from extracts of <i>Houttuynia cordata</i> Thunb.. <i>Saudi Journal of Biological Sciences</i> , 2021, 28, 7517-7527.	1.8	13
49	Temperature-enabled reversible "On/Off" switch-like hazardous herbicide picloram voltammetric sensor in agricultural and environmental samples based on thermo-responsive PVCL-tethered MWCNT@Au catalyst. <i>Journal of Hazardous Materials</i> , 2021, 402, 123672.	6.5	13
50	Molecular phylogenetic relationships among members of the family Phytolaccaceae sensu lato inferred from internal transcribed spacer sequences of nuclear ribosomal DNA. <i>Genetics and Molecular Research</i> , 2013, 12, 4515-4525.	0.3	12
51	Detection of real sample DNA at a cadmium sulfide " chitosan/gelatin modified electrode. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 113, 85-91.	2.5	12
52	Evaluation of traditional medicinal plant, <i>Cissus setosa</i> Roxb. (Vitaceae) for antiulcer property. <i>Saudi Journal of Biological Sciences</i> , 2018, 25, 293-297.	1.8	12
53	The potential of Paritaprevir and Emetine as inhibitors of SARS-CoV-2 RdRp. <i>Saudi Journal of Biological Sciences</i> , 2021, 28, 1426-1432.	1.8	11
54	Electropolymerized Diphenylamine on Functionalized Multiwalled Carbon Nanotube Composite Film and Its Application to Develop a Multifunctional Biosensor. <i>Electroanalysis</i> , 2014, 26, 399-408.	1.5	10

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55	Potentiostatic Electrochemical Preparation of Bismuth Nanoribbons and its Application in Biologically Poisoning Lead and Cadmium Heavy Metal Ions Detection. <i>Electroanalysis</i> , 2015, 27, 2341-2346.	1.5	8
56	Molecular docking and molecular dynamics simulation of anticancer active ligand 3,5,7,3,5-pentahydroxy-flavanonol-3-O- β -L-rhamnopyranoside™ from <i>Bauhinia strychnifolia</i> Craib to the cyclin-dependent protein kinase. <i>Journal of King Saud University - Science</i> , 2020, 32, 891-895.	1.8	7
57	Assessment of biological activity and UPLC-MS based chromatographic profiling of ethanolic extract of <i>Ochradenus arabicus</i> . <i>Saudi Journal of Biological Sciences</i> , 2016, 23, 229-236.	1.8	7
58	Evaluation of anti-nociceptive, anti-inflammatory and antipyretic potential of <i>Mikania cordata</i> (Burm.) Tj ETQq0 0 0 rgBT /Overlock 10 TF	1.8	7
59	Interactome analysis and design of inhibitors against selected protein targets of Ser/Thr protein kinase (STPK) signaling pathways in <i>Mycobacterium tuberculosis</i> H37Rv. <i>Genetics and Molecular Research</i> , 2015, 14, 10390-10403.	0.3	6
60	Dynamic Gradient Directed Molecular Transport and Concentration in Hydrogel Films. <i>Angewandte Chemie</i> , 2017, 129, 5083-5088.	1.6	6
61	Molecular docking elucidates the plausible mechanisms underlying the anticancer properties of acetyldigitoxigenin from <i>Adenium obesum</i> . <i>Saudi Journal of Biological Sciences</i> , 2020, 27, 1907-1911.	1.8	6
62	Protective Effect of <i>Capparis spinosa</i> Extract against Potassium Bromate Induced Oxidative Stress and Genotoxicity in Mice. <i>Evidence-based Complementary and Alternative Medicine</i> , 2021, 2021, 1-15.	0.5	6
63	Preparation, Characterization, and Bioelectrocatalytic Properties of Hemoglobin Incorporated Multiwalled Carbon Nanotubes-Poly-L-lysine Composite Film Modified Electrodes Towards Bromate. <i>Electroanalysis</i> , 2014, 26, 996-1003.	1.5	5
64	Target fishing of glycopentalone using integrated inverse docking and reverse pharmacophore mapping approach. <i>Genetics and Molecular Research</i> , 2016, 15, .	0.3	5
65	Physiological, Biochemical and Reproductive Studies on <i>Valeriana wallichii</i> , a Critically Endangered Medicinal Plant of the Himalayan Region Grown under In-Situ and Ex-Situ Conditions. <i>Plants</i> , 2020, 9, 131.	1.6	4
66	Bifunctional 3D-MOF-based nanoprobe for electrochemical sensing and nanozyme enhanced with peroxidase mimicking for colorimetric detection of acetaminophen. <i>Materials Today Chemistry</i> , 2022, 23, 100725.	1.7	4
67	Two-dimensional copper oxide/zinc oxide nanoflakes with three-dimensional flower-like heterostructure enhanced with electrocatalytic activity toward Animesulide detection. <i>Materials Today Chemistry</i> , 2022, 24, 100768.	1.7	4
68	Molecular phylogenetic study of <i>Cardamine amaraeformis</i> Nakai using nuclear and chloroplast DNA markers. <i>Genetics and Molecular Research</i> , 2012, 11, 3086-3090.	0.3	3
69	Unraveling systematic inventory of <i>Echinops</i> (Asteraceae) with special reference to nrDNA ITS sequence-based molecular typing of <i>Echinops abuzinadianus</i> . <i>Genetics and Molecular Research</i> , 2015, 14, 11752-11762.	0.3	3
70	Simultaneously Determination of Procaine and Catechol at Functionalized Multi-Walled Carbon Nanotube with Poly-Glutamic Acid Modified Electrode. <i>Journal of Biobased Materials and Bioenergy</i> , 2014, 8, 149-157.	0.1	3
71	In Silico Elucidation of the Plausible Inhibitory Potential of Withaferin A of <i>Withania Somnifera</i> Medicinal Herb Against Breast Cancer Targeting Estrogen Receptor. <i>Current Pharmaceutical Biotechnology</i> , 2020, 21, 842-851.	0.9	3
72	Phylogenetic implication of molecular genotyping of <i>Euryops jaberiana</i>; Abedin & Chaudhary (Asteraceae). <i>Bangladesh Journal of Plant Taxonomy</i> , 2016, 23, 45-51.	0.1	2

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73	Delimiting invasive <i>Myriophyllum aquaticum</i> in Kashmir Himalaya using a molecular phylogenetic approach. <i>Genetics and Molecular Research</i> , 2014, 13, 7564-7570.	0.3	1
74	The binding proximity of methyl \hat{I}^2 -lilacinobioside isolated from <i>Caralluma retrospiciens</i> with topoisomerase II attributes apoptosis in breast cancer cell line. <i>Saudi Journal of Biological Sciences</i> , 2018, 25, 1826-1833.	1.8	1
75	Identification of novel drug candidates for the inhibition of catalytic cleavage activity of coronavirus 3CL-like protease enzyme. <i>Current Pharmaceutical Biotechnology</i> , 2021, 22, .	0.9	1
76	Molecular Insights into the Interaction of Ursolic Acid and Cucurbitacin from <i>Colocynth</i> with Therapeutic Targets of <i>Mycobacterium tuberculosis</i> . <i>Letters in Drug Design and Discovery</i> , 2020, 17, 1309-1318.	0.4	1
77	Generic relationships among Molluginaceae inferred from a molecular phylogenetic analysis of the <i>matK</i> gene. <i>Genetics and Molecular Research</i> , 2017, 16, .	0.3	0
78	Evaluation of a labdane diterpene forskolin isolated from <i>Solena amplexicaulis</i> (Lam.) Gandhi (<i>Cucurbitaceae</i>) revealed promising antidiabetic and antihyperlipidemic pharmacological properties. <i>Saudi Journal of Biological Sciences</i> , 2019, 26, 1710-1715.	1.8	0