

Bushra Mirza

List of Publications by Year in descending order

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94
papers

2,242
citations

201674

27
h-index

276875

41
g-index

99
all docs

99
docs citations

99
times ranked

2680
citing authors

#	ARTICLE	IF	CITATIONS
1	Extraction optimization of medicinally important metabolites from <i>Datura innoxia</i> Mill.: an in vitro biological and phytochemical investigation. <i>BMC Complementary and Alternative Medicine</i> , 2015, 15, 376.	3.7	124
2	Chloroplast genome of <i>Hibiscus rosa-sinensis</i> (Malvaceae): Comparative analyses and identification of mutational hotspots. <i>Genomics</i> , 2020, 112, 581-591.	2.9	107
3	Characterization of <i>Withania somnifera</i> chloroplast genome and its comparison with other selected species of Solanaceae. <i>Genomics</i> , 2020, 112, 1522-1530.	2.9	79
4	Antipyretic, anti-inflammatory and analgesic activity of <i>Acacia hydaspica</i> R. Parker and its phytochemical analysis. <i>BMC Complementary and Alternative Medicine</i> , 2015, 15, 136.	3.7	78
5	Plants <i>Fagonia cretica</i> L. and <i>Hedera nepalensis</i> K. Koch contain natural compounds with potent dipeptidyl peptidase-4 (DPP-4) inhibitory activity. <i>Journal of Ethnopharmacology</i> , 2014, 156, 26-32.	4.1	72
6	Chloroplast genome sequences of <i>Artemisia maritima</i> and <i>Artemisia absinthium</i> : Comparative analyses, mutational hotspots in genus <i>Artemisia</i> and phylogeny in family Asteraceae. <i>Genomics</i> , 2020, 112, 1454-1463.	2.9	71
7	In Planta Transformation of Tomato. <i>Plant Molecular Biology Reporter</i> , 2009, 27, 20-28.	1.8	65
8	NCoR/SMRT co-repressors cooperate with c-MYC to create an epigenetic barrier to somatic cell reprogramming. <i>Nature Cell Biology</i> , 2018, 20, 400-412.	10.3	64
9	Polarity based characterization of biologically active extracts of <i>Ajuga bracteosa</i> Wall. ex Benth. and RP-HPLC analysis. <i>BMC Complementary and Alternative Medicine</i> , 2017, 17, 443.	3.7	61
10	Artemisinin and its derivatives: a promising cancer therapy. <i>Molecular Biology Reports</i> , 2020, 47, 6321-6336.	2.3	58
11	Evaluation of <i>Ajuga bracteosa</i> for antioxidant, anti-inflammatory, analgesic, antidepressant and anticoagulant activities. <i>BMC Complementary and Alternative Medicine</i> , 2016, 16, 375.	3.7	50
12	Agrobacterium-Mediated Transformation of Tomato with rolB Gene Results in Enhancement of Fruit Quality and Foliar Resistance against Fungal Pathogens. <i>PLoS ONE</i> , 2014, 9, e96979.	2.5	49
13	Genetic Transformation of <i>Artemisia carvifolia</i> Buch with rol Genes Enhances Artemisinin Accumulation. <i>PLoS ONE</i> , 2015, 10, e0140266.	2.5	47
14	Synthesis, characterization, electrochemistry and evaluation of biological activities of some ferrocenyl Schiff bases. <i>Applied Organometallic Chemistry</i> , 2011, 25, 61-69.	3.5	45
15	Correlations among oligonucleotide repeats, nucleotide substitutions, and insertion-deletion mutations in chloroplast genomes of plant family Malvaceae. <i>Journal of Systematics and Evolution</i> , 2021, 59, 388-402.	3.1	43
16	The pentacyclic triterpenoid, plectranthoic acid, a novel activator of AMPK induces apoptotic death in prostate cancer cells. <i>Oncotarget</i> , 2016, 7, 3819-3831.	1.8	43
17	Plastid genomics of <i>Nicotiana</i> (Solanaceae): insights into molecular evolution, positive selection and the origin of the maternal genome of Aztec tobacco (<i>Nicotiana rustica</i>). <i>PeerJ</i> , 2020, 8, e9552.	2.0	43
18	Enhanced artemisinin yield by expression of rol genes in <i>Artemisia annua</i> . <i>Malaria Journal</i> , 2015, 14, 424.	2.3	39

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19	Physiological and biochemical mechanisms of allelopathy mediated by the allelochemical extracts of <i>Phytolacca latbenia</i> (Moq.) H. Walter. <i>Toxicology and Industrial Health</i> , 2015, 31, 931-937.	1.4	37
20	Comparative Plastomics of Ashwagandha (<i>Withania</i> , Solanaceae) and Identification of Mutational Hotspots for Barcoding Medicinal Plants. <i>Plants</i> , 2020, 9, 752.	3.5	37
21	Plastids: The Green Frontiers for Vaccine Production. <i>Frontiers in Plant Science</i> , 2015, 6, 1005.	3.6	36
22	Effect of Rol Genes on Polyphenols Biosynthesis in <i>Artemisia annua</i> and Their Effect on Antioxidant and Cytotoxic Potential of the Plant. <i>Applied Biochemistry and Biotechnology</i> , 2016, 179, 1456-1468.	2.9	34
23	<i>Ipomoea batatas</i> L. Lam. ameliorates acute and chronic inflammations by suppressing inflammatory mediators, a comprehensive exploration using in vitro and in vivo models. <i>BMC Complementary and Alternative Medicine</i> , 2018, 18, 216.	3.7	33
24	Evaluation of analgesic, anti-inflammatory, anti-depressant and anti-coagulant properties of <i>Lactuca sativa</i> (CV. Grand Rapids) plant tissues and cell suspension in rats. <i>BMC Complementary and Alternative Medicine</i> , 2015, 15, 199.	3.7	31
25	Biological evaluation of wild thyme (<i>Thymus serpyllum</i>). <i>Pharmaceutical Biology</i> , 2009, 47, 628-633.	2.9	30
26	Appraisal of phytochemical and in vitro biological attributes of an unexplored folklore: <i>Rhus Punjabensis</i> Stewart. <i>BMC Complementary and Alternative Medicine</i> , 2017, 17, 146.	3.7	30
27	Transformation of <i>Lactuca sativa</i> L. with rol C gene results in increased antioxidant potential and enhanced analgesic, anti-inflammatory and antidepressant activities in vivo. <i>3 Biotech</i> , 2016, 6, 215.	2.2	29
28	Significance of postgrowth processing of ZnO nanostructures on antibacterial activity against gram-positive and gram-negative bacteria. <i>International Journal of Nanomedicine</i> , 2015, 10, 4521.	6.7	28
29	Bioprospecting traditional Pakistani medicinal plants for potent antioxidants. <i>Food Chemistry</i> , 2012, 132, 222-229.	8.2	27
30	Synthesis, biological and electrochemical evaluation of novel nitroaromatics as potential anticancerous drugs. <i>Bioelectrochemistry</i> , 2015, 104, 85-92.	4.6	26
31	Neuroprotective, antidiabetic and antioxidant effect of <i>Hedera nepalensis</i> and lupeol against STZ-induced rats model. <i>DARU, Journal of Pharmaceutical Sciences</i> , 2018, 26, 179-190.	2.0	26
32	Transformation of Lettuce with rol ABC Genes: Extracts Show Enhanced Antioxidant, Analgesic, Anti-Inflammatory, Antidepressant, and Anticoagulant Activities in Rats. <i>Applied Biochemistry and Biotechnology</i> , 2017, 181, 1179-1198.	2.9	25
33	Biotechnological approaches for artemisinin production in <i>Artemisia</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2018, 34, 54.	3.6	25
34	Biological Evaluation of Some Selected Plant Species of Pakistan. <i>Pharmaceutical Biology</i> , 2007, 45, 397-403.	2.9	24
35	Seasonal and geographical impact on the morphology and 20-hydroxyecdysone content in different tissue types of wild <i>Ajuga bracteosa</i> Wall. ex Benth.. <i>Steroids</i> , 2014, 87, 12-20.	1.8	24
36	Rol genes enhance the biosynthesis of antioxidants in <i>Artemisia carvifolia</i> Buch. <i>BMC Plant Biology</i> , 2016, 16, 125.	3.6	24

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37	Comparative analyses of chloroplast genomes of <i>Theobroma cacao</i> and <i>Theobroma grandiflorum</i> . <i>Biologia (Poland)</i> , 2020, 75, 761-771.	1.5	24
38	Metabolic signatures altered by in vitro temperature stress in <i>Ajuga bracteosa</i> Wall. ex. Benth.. <i>Acta Physiologiae Plantarum</i> , 2017, 39, 1.	2.1	23
39	Expression of rol genes in transgenic soybean (<i>Glycine max</i> L.) leads to changes in plant phenotype, leaf morphology, and flowering time. <i>Plant Cell, Tissue and Organ Culture</i> , 2010, 103, 227-236.	2.3	22
40	Anthelmintic activity of <i>Artemisia vestita</i> Wall ex DC. and <i>Artemisia maritima</i> L. against <i>Haemonchus contortus</i> from sheep. <i>Veterinary Parasitology</i> , 2015, 212, 451-455.	1.8	22
41	Potential Nutraceutical Benefits of In Vivo Grown Saffron (<i>Crocus sativus</i> L.) As Analgesic, Anti-inflammatory, Anticoagulant, and Antidepressant in Mice. <i>Plants</i> , 2020, 9, 1414.	3.5	22
42	Ferrocene-Based Aliphatic and Aromatic Poly(azomethine)esters: Synthesis, Physicochemical Studies, and Biological Evaluation. <i>Macromolecules</i> , 2013, 46, 2800-2807.	4.8	19
43	Synthesis, Characterization, and Pharmacological Evaluation of Selected Aromatic Amines. <i>Journal of Chemistry</i> , 2015, 2015, 1-9.	1.9	19
44	Cellular engineering of <i>Artemisia annua</i> and <i>Artemisia dubia</i> with the rol ABC genes for enhanced production of potent anti-malarial drug artemisinin. <i>Malaria Journal</i> , 2016, 15, 252.	2.3	19
45	Antioxidant, Antimicrobial, Cytotoxic and Protein Kinase Inhibition Activities of Fifteen Traditional Medicinal Plants From Pakistan. <i>Pharmaceutical Chemistry Journal</i> , 2017, 51, 391-398.	0.8	19
46	Synthesis, molecular docking and comparative efficacy of various alkyl/aryl thioureas as antibacterial, antifungal and α -amylase inhibitors. <i>Computational Biology and Chemistry</i> , 2018, 77, 193-198.	2.3	18
47	Chloroplast-based inducible expression of ESAT-6 antigen for development of a plant-based vaccine against tuberculosis. <i>Journal of Biotechnology</i> , 2019, 305, 1-10.	3.8	18
48	Profiling of Antifungal Activities and In Silico Studies of Natural Polyphenols from Some Plants. <i>Molecules</i> , 2021, 26, 7164.	3.8	17
49	The Health Promoting Bioactivities of <i>Lactuca sativa</i> can be Enhanced by Genetic Modulation of Plant Secondary Metabolites. <i>Metabolites</i> , 2019, 9, 97.	2.9	16
50	Disease Status of Afghan Refugees and Migrants in Pakistan. <i>Frontiers in Public Health</i> , 2019, 7, 185.	2.7	15
51	Naturally-occurring TGR5 agonists modulating glucagon-like peptide-1 biosynthesis and secretion. <i>Peptides</i> , 2016, 78, 51-58.	2.4	14
52	Assessing the biological potential of new symmetrical ferrocene based bithiourea analogues. <i>Bioorganic Chemistry</i> , 2021, 106, 104180.	4.1	14
53	Medicinal Plants: A Complementary and Alternative Antidepressant Therapy. <i>Current Pharmaceutical Design</i> , 2018, 24, 2609-2624.	1.9	14
54	Assessment of the Antitumor Potential of Umbelliprenin, a Naturally Occurring Sesquiterpene Coumarin. <i>Biomedicines</i> , 2020, 8, 126.	3.2	14

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55	Coagulansin-A has beneficial effects on the development of bovine embryos <i>in vitro</i> via HSP70 induction. <i>Bioscience Reports</i> , 2016, 36, .	2.4	13
56	Five Indigenous Plants of Pakistan with Antinociceptive, Anti-Inflammatory, Antidepressant, and Anticoagulant Properties in Sprague Dawley Rats. <i>Evidence-based Complementary and Alternative Medicine</i> , 2017, 2017, 1-10.	1.2	13
57	Lupeol supplementation improves the developmental competence of bovine embryos <i>in vitro</i> . <i>Theriogenology</i> , 2018, 107, 203-210.	2.1	13
58	Expression of ESAT6 antigen from <i>Mycobacterium tuberculosis</i> in broccoli: An edible plant. <i>Biotechnology and Applied Biochemistry</i> , 2020, 67, 148-157.	3.1	13
59	Interaction of Naproxen with transition metals: synthesis, characterization, anti-inflammatory activity and kinetic studies. <i>Journal of Coordination Chemistry</i> , 2009, 62, 3463-3470.	2.2	11
60	Synthesis and coordination chemistry of organotin(IV) complexes of 2,3-methylenedioxyphenylpropenoic acid. <i>Journal of Coordination Chemistry</i> , 2009, 62, 2229-2238.	2.2	11
61	The effect of rol genes on phytoecdysteroid biosynthesis in <i>Ajuga bracteosa</i> differs between transgenic plants and hairy roots. <i>RSC Advances</i> , 2016, 6, 22700-22708.	3.6	11
62	Assessment of antidiabetic potential and phytochemical profiling of <i>Rhazya stricta</i> root extracts. <i>BMC Complementary Medicine and Therapies</i> , 2020, 20, 293.	2.7	11
63	Engineering electroactive and biocompatible tetra(aniline)-based terpolymers with tunable intrinsic antioxidant properties <i>in vivo</i> . <i>Materials Science and Engineering C</i> , 2020, 108, 110456.	7.3	9
64	Effect of pRi T-DNA genes and elicitation on morphology and phytoecdysteroid biosynthesis in <i>Ajuga bracteosa</i> hairy roots. <i>RSC Advances</i> , 2017, 7, 47945-47953.	3.6	8
65	Targeting epithelial to mesenchymal transition in prostate cancer by a novel compound, plectranthoic acid, isolated from <i>Ficus microcarpa</i> . <i>Molecular Carcinogenesis</i> , 2018, 57, 653-663.	2.7	8
66	A Multi-Mode Bioactive Agent Isolated From <i>Ficus microcarpa</i> L. Fill. With Therapeutic Potential for Type 2 Diabetes Mellitus. <i>Frontiers in Pharmacology</i> , 2018, 9, 1376.	3.5	8
67	<i>MTHFR</i> polymorphisms as risk for male infertility in Pakistan and its comparison with socioeconomic status in the world. <i>Personalized Medicine</i> , 2019, 16, 35-49.	1.5	8
68	Novel copper complexes of metronidazole and metronidazole benzoate: synthesis, characterization, biological and computational studies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 5446-5461.	3.5	8
69	Antibacterial, Antihemolytic, Cytotoxic, Anticancer, and Antileishmanial Effects of <i>Ajuga bracteosa</i> Transgenic Plants. <i>Plants</i> , 2021, 10, 1894.	3.5	8
70	Green Synthesis of Gold and Iron Nanoparticles for Targeted Delivery: An <i>In Vitro</i> and <i>In Vivo</i> Study. <i>Journal of Chemistry</i> , 2021, 2021, 1-16.	1.9	8
71	Synthesis, characterization and biological properties of novel ON donor bidentate Schiff bases and their copper(II) complexes. <i>Journal of Coordination Chemistry</i> , 2017, 70, 2463-2478.	2.2	7
72	Polyphenolic profiling of <i>Ipomoea carnea</i> Jacq. by HPLC-DAD and its implications in oxidative stress and cancer. <i>Natural Product Research</i> , 2019, 33, 2099-2104.	1.8	7

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73	Inducible expression of human papillomavirus L1 capsomeres in the plastomes of <i>Nicotiana tabacum</i> : Transplastomic plants develop normal flowers and pollen. <i>Biotechnology and Applied Biochemistry</i> , 2022, 69, 596-611.	3.1	6
74	Antioxidant, anticancer and antibacterial potential of Zakhm-e-hayat rhizomes crude extract and fractions. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 2016, 29, 895-902.	0.2	6
75	UV-absorption studies of interaction of karanjin and karanjachromene with ds. DNA: Evaluation of binding and antioxidant activity. <i>Open Chemistry</i> , 2013, 11, 2040-2047.	1.9	5
76	Synthesis, characterization and biological evaluation of novel benzimidazole derivatives. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 1-13.	3.5	5
77	Drier Climatic Conditions Increase Withanolide Content of <i>Withania coagulans</i> Enhancing Its Inhibitory Potential Against Human Prostate Cancer Cells. <i>Applied Biochemistry and Biotechnology</i> , 2019, 188, 460-480.	2.9	5
78	Quinovic acid purified from medicinal plant <i>Fagonia indica</i> mediates anticancer effects via death receptor 5. <i>Molecular and Cellular Biochemistry</i> , 2020, 474, 159-169.	3.1	5
79	Facile one-pot synthesis, butyrylcholinesterase and α -glucosidase inhibitory activities, structure-activity relationship, molecular docking and DNA-drug binding analysis of Meldrum's acid derivatives. <i>Research on Chemical Intermediates</i> , 2020, 46, 2437-2456.	2.7	5
80	Development of efficient miniprep transformation methods for <i>Artemisia annua</i> using <i>Agrobacterium tumefaciens</i> and <i>Agrobacterium rhizogenes</i> . <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2014, 50, 590-600.	2.1	4
81	Structure-activity relationship and in silico study of unique bi-heterocycles: 5-[(2-amino-1,3-thiazol-4-yl)methyl]-1,3,4-oxadiazole-2-thiol derivatives. <i>Journal of the Serbian Chemical Society</i> , 2019, 84, 649-661.	0.8	4
82	Evaluation of antioxidant potential and HPLC based identification of phenolics in <i>Polygonum amplexicaule</i> extract and its fractions. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 2015, 28, 431-5.	0.2	4
83	Synthesis of Novel Bi-Heterocycles as Valuable Anti-Diabetic Agents: 2-[(5-((2-Amino-1,3-Thiazol-4-yl)methyl)-1,3,4-Oxadiazol-2-yl)sulfonyl]-N-(Substituted)acetamides. <i>Russian Journal of Bioorganic Chemistry</i> , 2020, 46, 590-598.	1.0	3
84	Polyphenol Rich <i>Ajuga bracteosa</i> Transgenic Regenerants Display Better Pharmacological Potential. <i>Molecules</i> , 2021, 26, 4874.	3.8	3
85	Optimization of cell suspension culture of transformed and untransformed lettuce for the enhanced production of secondary metabolites and their pharmaceutical evaluation. <i>3 Biotech</i> , 2019, 9, 339.	2.2	2
86	A unique amphiphilic triblock copolymer, nontoxic to human blood and potential supramolecular drug delivery system for dexamethasone. <i>Scientific Reports</i> , 2021, 11, 21507.	3.3	2
87	Design and Evaluation of pH-Sensitive Nanoformulation of Bergenin Isolated from <i>Bergenia ciliata</i> . <i>Polymers</i> , 2022, 14, 1639.	4.5	2
88	Comparative physiological responses of the yeast halotolerance genes expressed in transgenic lines of tomato cv Rio Grande under saline conditions. <i>Acta Physiologiae Plantarum</i> , 2013, 35, 919-929.	2.1	1
89	Advances in Genetic Engineering of <i>Ajuga</i> Species. , 2018, , 599-629.		1
90	High-Throughput DNA Extraction and Optimization of PCR Efficiency for Barley SSRs Genotyping. <i>Arabian Journal for Science and Engineering</i> , 2018, 43, 143-154.	3.0	0

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91	Synthesis, Characterization and Biological Studies of Ether-Based Ferrocenyl Amides and their Organic Analogues. <i>Crystals</i> , 2020, 10, 480.	2.2	0
92	Synthesis of 2-[(5-benzyl-1,3,4-oxadiazol-2-yl)sulfanyl]-N-(arylated/arenylated) acetamides as antibacterial and acetyl cholinesterase inhibitors. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 2017, 30, 1743-1751.	0.2	0
93	2-[[5-(Substituted-phenyl)-1,3,4-oxadiazol-2-yl]sulfanyl]-N-(1,3-thiazol-2-yl)acetamides: New bi-heterocycles as possible therapeutic agents. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 2018, 31, 1051-1059.	0.2	0
94	Inhibition of mouse embryonic stem cell proliferation and induction of differentiation by natural products isolated from <i>Rhazya stricta</i> Decne. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 2019, 32, 1885-1891.	0.2	0