Mansour Ghorbanpour

List of Publications by Year
in descending order

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Version: 2024-02-01

86 papers	3,634 citations	172457 29 h-index	144013 57 g-index
89 all docs	89 docs citations	89 times ranked	3602 citing authors

#	Article	IF	Citations
1	Application of silicon nanoparticles in agriculture. 3 Biotech, 2019, 9, 90.	2.2	328
2	Heavy metals in contaminated environment: Destiny of secondary metabolite biosynthesis, oxidative status and phytoextraction in medicinal plants. Ecotoxicology and Environmental Safety, 2017, 145, 377-390.	6.0	269
3	Mechanisms underlying the protective effects of beneficial fungi against plant diseases. Biological Control, 2018, 117, 147-157.	3.0	210
4	Effects of nanoparticulate anatase titanium dioxide on physiological and biochemical performance of Linum usitatissimum (Linaceae) under well-watered and drought stress conditions. Revista Brasileira De Botanica, 2016, 39, 139-146.	1.3	186
5	Multi-walled carbon nanotubes stimulate callus induction, secondary metabolites biosynthesis and antioxidant capacity in medicinal plant Satureja khuzestanica grown in vitro. Carbon, 2015, 94, 749-759.	10.3	168
6	Status and future scope of plant-based green hydrogels in biomedical engineering. Applied Materials Today, 2019, 16, 213-246.	4.3	154
7	Phytoextraction of heavy metals from contaminated soil, water and atmosphere using ornamental plants: mechanisms and efficiency improvement strategies. Environmental Science and Pollution Research, 2019, 26, 8468-8484.	5.3	136
8	Engineered nanomaterial-mediated changes in the metabolism of terrestrial plants. Science of the Total Environment, 2016, 571, 275-291.	8.0	135
9	Mechanisms underlying toxicity and stimulatory role of single-walled carbon nanotubes in Hyoscyamus niger during drought stress simulated by polyethylene glycol. Journal of Hazardous Materials, 2017, 324, 306-320.	12.4	131
10	Physiological and antioxidative responses of medicinal plants exposed to heavy metals stress. Plant Gene, 2017, 11, 247-254.	2.3	129
11	Polyamines and their possible mechanisms involved in plant physiological processes and elicitation of secondary metabolites. Acta Physiologiae Plantarum, 2018, 40, 1.	2.1	118
12	Synthesis and therapeutic potential of silver nanomaterials derived from plant extracts. Ecotoxicology and Environmental Safety, 2019, 168, 260-278.	6.0	111
13	Exogenous putrescine changes redox regulations and essential oil constituents in field-grown Thymus vulgaris L. under well-watered and drought stress conditions. Industrial Crops and Products, 2018, 122, 119-132.	5.2	83
14	Nanosilicon-based recovery of barley (Hordeum vulgare) plants subjected to drought stress. Environmental Science: Nano, 2020, 7, 443-461.	4.3	83
15	Major essential oil constituents, total phenolics and flavonoids content and antioxidant activity of Salvia officinalis plant in response to nano-titanium dioxide. Indian Journal of Plant Physiology, 2015, 20, 249-256.	0.8	81
16	Defense enzyme activities and biochemical variations of Pelargonium zonale in response to nanosilver application and dark storage. Turkish Journal of Biology, 2014, 38, 130-139.	0.8	77
17	Application of artificial neural networks for predicting tree survival and mortality in the Hyrcanian forest of Iran. Computers and Electronics in Agriculture, 2019, 164, 104929.	7.7	70
18	Activating antioxidant enzymes, hyoscyamine and scopolamine biosynthesis of Hyoscyamus niger L. plants with nano-sized titanium dioxide and bulk application. Acta Agriculturae Slovenica, 2015, 105, .	0.3	66

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19	Manganese oxide nanoparticle-induced changes in growth, redox reactions and elicitation of antioxidant metabolites in deadly nightshade (Atropa belladonna L.). Industrial Crops and Products, 2018, 126, 403-414.	5.2	56
20	Salicylic acid induced changes in physiological traits and essential oil constituents in different ecotypes of Thymus kotschyanus and Thymus vulgaris under well-watered and water stress conditions. Industrial Crops and Products, 2019, 129, 561-574.	5.2	50
21	Multi-walled carbon nanotubes stimulate growth, redox reactions and biosynthesis of antioxidant metabolites in Thymus daenensis celak. inAvitro. Chemosphere, 2020, 249, 126069.	8.2	50
22	Physico-chemical induced modification of seed germination and early development in artichoke (Cynara scolymus L.) using low energy plasma technology. Physics of Plasmas, 2018, 25, .	1.9	44
23	Phytochemical Variations and Enhanced Efficiency of Antioxidant and Antimicrobial Ingredients in Salvia officinalis as Inoculated with Different Rhizobacteria. Chemistry and Biodiversity, 2016, 13, 319-330.	2.1	42
24	Changes in growth, antioxidant defense system and major essential oils constituents of Pelargonium graveolens plant exposed to nano-scale silver and thidiazuron. Indian Journal of Plant Physiology, 2015, 20, 116-123.	0.8	38
25	Potential toxicity of nano-graphene oxide on callus cell of Plantago major L. under polyethylene glycol-induced dehydration. Ecotoxicology and Environmental Safety, 2018, 148, 910-922.	6.0	38
26	Guar (Cyamopsis tetragonoloba L.) plant gum: From biological applications to advanced nanomedicine. International Journal of Biological Macromolecules, 2021, 193, 1972-1985.	7.5	37
27	Effect of Nanosilver on Physiological Performance of Pelargonium Plants Exposed to Dark Storage. Journal of Horticultural Research, 2013, 21, 15-20.	0.9	36
28	Enhancement of growth and salt tolerance in Brassica napus L. seedlings by halotolerant Rhizobium strains containing ACC-deaminase activity. Plant Physiology Reports, 2019, 24, 225-235.	1.5	35
29	Role of plant growth promoting rhizobacteria on antioxidant enzyme activities and tropane alkaloids production of Hyoscyamus niger under water deficit stress. Turkish Journal of Biology, 0, , .	0.8	32
30	Mitigating effect of nano-zerovalent iron, iron sulfate and EDTA against oxidative stress induced by chromium in Helianthus annuus L.. Acta Physiologiae Plantarum, 2018, 40, 1.	2.1	32
31	Spray treatment with silver nanoparticles plus thidiazuron increases anti-oxidant enzyme activities and reduces petal and leaf abscission in four cultivars of geranium (Pelargonium zonale) during storage in the dark. Journal of Horticultural Science and Biotechnology, 2014, 89, 712-718.	1.9	31
32	Fe0 nanoparticles improve physiological and antioxidative attributes of sunflower (Helianthus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222	2.2	28
33	Physiological and antioxidative responses to GO/PANI nanocomposite in intact and demucilaged seeds and young seedlings of Salvia mirzayanii. Chemosphere, 2019, 233, 920-935.	8.2	27
34	Production of Recombinant Antimicrobial Polymeric Protein Beta Casein-E 50-52 and Its Antimicrobial Synergistic Effects Assessment with Thymol. Molecules, 2017, 22, 822.	3.8	21
35	Deciphering morpho-physiological and phytochemical attributes of Tanacetum parthenium L. plants exposed to C60 fullerene and salicylic acid. Chemosphere, 2020, 259, 127406.	8.2	21
36	Silicon-nanoparticle Mediated Changes in Seed Germination and Vigor Index of Marigold (Calendula) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 575-589.	3.0	20

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37	Differential effects of biogenic and chemically synthesized silver-nanoparticles application on physiological traits, antioxidative status and californidine content in California poppy (Eschscholzia) Tj ETQq1 1 0.784314 rgBT /Overlo		20
38	Increasing Phytoremediation Efficiency of Heavy Metal-Contaminated Soil Using PGPR for Sustainable Agriculture. , 2016, , 187-204.		19
39	Comparison of morphological and phytochemical characteristics in guar (Cyamopsis tetragonoloba) Tj ETQq1 1 0.784314 rgBT /Overlo Products, 2019, 140, 111606.	5.2	19
40	Recombinant Production and Antimicrobial Assessment of Beta Casein- IbAMP4 as a Novel Antimicrobial Polymeric Protein and its Synergistic Effects with Thymol. International Journal of Peptide Research and Therapeutics, 2018, 24, 213-222.	1.9	17
41	Analysis of phytochemical and morphological variability in different wild-and agro-ecotypic populations of Melissa officinalis L. growing in northern habitats of Iran. Industrial Crops and Products, 2018, 112, 262-273.	5.2	17
42	Changes in phenological attributes, yield and phytochemical compositions of guar (Cyamopsis) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54 Horticulturae, 2019, 256, 108577.	3.6	17
43	Effect of different concentrations of IAA, GA3 and chitosan nano-fiber on physio-morphological characteristics and metabolite contents in roselle (Hibiscus sabdariffa L.). South African Journal of Botany, 2022, 145, 323-333.	2.5	17
44	The Effect of Different Drying Methods on the Content and Chemical Composition of Essential Oil of Lemon verbena (Lippia citriodora). Journal of Essential Oil-bearing Plants: JEOP, 2013, 16, 474-481.	1.9	16
45	In vitro mass propagation and conservation of a rare medicinal plant, Zhumeria Majdae Rech.f & Wendelbo (Lamiaceae). Biocatalysis and Agricultural Biotechnology, 2019, 17, 318-325.	3.1	16
46	Assessment of essential oil constituents and main agro-morphological variability in Satureja mutica populations. Revista Brasileira De Botanica, 2016, 39, 77-85.	1.3	13
47	Monitoring cell energy, physiological functions and grain yield in field-grown mung bean exposed to exogenously applied polyamines under drought stress. Journal of Soil Science and Plant Nutrition, 2018, , 0-0.	3.4	13
48	Chitosan-Mediated Changes in dry Matter, Total Phenol Content and Essential Oil Constituents of two Origanum Species under Water Deficit Stress. Gesunde Pflanzen, 2021, 73, 181-191.	3.0	13
49	Single-wall carbon nano tubes (SWCNTs) penetrate Thymus daenensis Celak. plant cells and increase secondary metabolite accumulation in vitro. Industrial Crops and Products, 2021, 165, 113424.	5.2	13
50	Physiological responses and secondary metabolite ingredients in sage plants induced by 24-epibrassinolide foliar application under different water deficit regimes. Scientia Horticulturae, 2020, 263, 109139.	3.6	12
51	Plant Microbiome and Its Important in Stressful Agriculture. , 2020, , 13-48.		12
52	Importance of Medicinal and Aromatic Plants in Human Life. , 2017, , 1-23.		11
53	Engineering bacterial ACC deaminase for improving plant productivity under stressful conditions. , 2020, , 259-277.		11
54	Study of Essential Oil Content and Composition of Different Parts of Lemon verbena (Lippia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	1.9	10

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55	Diversity of phytochemical components and biological activities in Zataria multiflora Boiss. (Lamiaceae) populations. South African Journal of Botany, 2020, 135, 148-157.	2.5	10
56	Changes in growth and quality performance of Roselle (Hibiscus sabdariffa L.) in response to soil amendments with hydrogel and compost under drought stress. South African Journal of Botany, 2022, 145, 334-347.	2.5	10
57	Genetic structure and essential oil composition in wild populations of Salvia multicaulis Vahl.. Biochemical Systematics and Ecology, 2021, 96, 104269.	1.3	10
58	Biogenic Synthesis of Gold Nanoparticles and Their Potential Application in Agriculture. , 2020, , 187-204.		10
59	The effect of drying methods on yield and chemical constituents of the essential oil in Lavandula angustifolia Mill. (Lamiaceae). Plant Physiology Reports, 2019, 24, 96-103.	1.5	9
60	Tolerance mechanisms of medicinal plants to abiotic stresses. , 2020, , 663-679.		9
61	Influence of Distillation Time on the Content and Constituent of Essential Oils Isolated from Lemon verbena (Lippia citriodora Kunth). Journal of Essential Oil-bearing Plants: JEOP, 2017, 20, 1083-1089.	1.9	8
62	Cold Tolerance in Plants: Molecular Machinery Deciphered. , 2018, , 57-71.		8
63	Somaclonal variation in callus samples ofPlantago majorusing inter-simple sequence repeat marker. Caryologia, 2015, 68, 19-24.	0.3	7
64	Agromorphological Variations and Essential Oil Production of Satureja khuzestanica Jamzad Under Different Planting Densities. Journal of Essential Oil-bearing Plants: JEOP, 2016, 19, 1102-1110.	1.9	7
65	The potential of biotechnology for mitigation of greenhouse gasses effects: solutions, challenges, and future perspectives. Arabian Journal of Geosciences, 2019, 12, 1.	1.3	7
66	A general overview on application of nanoparticles in agriculture and plant science. Comprehensive Analytical Chemistry, 2019, , 85-110.	1.3	7
67	Transcriptomics Analyses and the Relationship Between Plant and Plant Growth-Promoting Rhizobacteria (PGPR). Rhizosphere Biology, 2021, , 89-111.	0.6	7
68	Chemical Composition of the Essential Oil ofFerulago phialocarpaRech.f. & H. Riedl., An Endemic Medicinal Plant from Iran. Journal of Essential Oil-bearing Plants: JEOP, 2016, 19, 778-781.	1.9	6
69	Cadmium and lead differentially affect growth, physiology, and metal accumulation in guar (Cyamopsis tetragonoloba L.) genotypes. Environmental Science and Pollution Research, 2022, 29, 4180-4192.	5.3	6
70	Engineered Nanomaterials and Their Interactions with Plant Cells: Injury Indices and Detoxification Pathways. Soil Biology, 2017, , 429-453.	0.8	5
71	Introduction to Environmental Challenges in All Over the World. , 2017, , 25-48.		5
72	Insight into plant-bacteria-fungi interactions to improve plant performance via remediation of heavy metals: an overview. , 2020, , 123-132.		5

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73	Trichome Structures and Characterization of Essential Oil Constituents in Iranian populations of Salvia limbata C.A. Meyer. Iranian Journal of Science and Technology, Transaction A: Science, 2021, 45, 41-54.	1.5	5
74	Beneficial microorganisms in the remediation of heavy metals. , 2020, , 417-423.		4
75	Molecular Mechanisms of Heavy Metal Tolerance in Plants. Nanotechnology in the Life Sciences, 2020, , 125-136.	0.6	4
76	Effect of Seed Priming with Nanosilicon on Morpho-Physiological Characterestics, Quercetin Content and Antioxidant Capacity in Calendula officinalis L. under Drought Stress Conditions. Journal of Medicinal Plants, 2020, 4, 186-203.	0.3	4
77	Influence of CeO2-Nanoparticles on morpho-physiological tritas and tanshinone contents of roots in Salvia miltiorrihiza Bunge upon foliar and soil application methods. Journal of Medicinal Plants, 2020, 19, 168-187.	0.3	3
78	Intercropping improves yield and phytochemical attributes in guar (Cyamopsis tetragonoloba L.) and roselle (Hibiscus sabdariffa L.) plants under nitrogen application. South African Journal of Botany, 2022, 147, 608-617.	2.5	3
79	Variation of morphological and phytochemical traits in Roselle (Hibiscus sabdariffa L.) genotypes under different planting dates. Acta Ecologica Sinica, 2021, , .	1.9	2
80	An Overview on the Effect of Soil Physicochemical Properties on the Immobilization of Biogenic Nanoparticles. , 2020, , 133-160.		2
81	Selenium- and Silicon-Mediated Recovery of Satureja (Satureja mutica Fisch. & C.ÂA. Mey.) Chemotypes Subjected to Drought Stress Followed by Rewatering. Gesunde Pflanzen, 2022, 74, 737-757.	3.0	2
82	Biogenic Nanoparticles in the Insect World: Challenges and Constraints. , 2020, , 173-185.		1
83	Role of night interruption lighting and NPK application on growth and flowering of Phalaenopsis. South African Journal of Botany, 2022, 150, 88-98.	2.5	1
84	Variation of the Phytochemical Constituents of Different Individual Plants inSatureja macrosiphoniaBornm (Labiatae) Growing Wild in Iran. Journal of Essential Oil-bearing Plants: JEOP, 2017, 20, 720-728.	1.9	0
85	Phytoremediation of Contaminated Soils Using Trees. Nanotechnology in the Life Sciences, 2020, , 419-437.	0.6	0
86	C15082. Phytochemical Variations and Enhanced Efficiency of Antioxidant and Antimicrobial Ingredients inSalvia officinalisas Inoculated with Different Rhizobacteria. Chemistry and Biodiversity, 2016, , n/a-n/a.	2.1	0