

Azamal Husen

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

5,824
citations

87723

38
h-index

118652

62
g-index

101
all docs

101
docs citations

101
times ranked

5433
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on biosynthesis of silver nanoparticles and their biocidal properties. Journal of Nanobiotechnology, 2018, 16, 14.	4.2	813
2	Properties of Zinc Oxide Nanoparticles and Their Activity Against Microbes. Nanoscale Research Letters, 2018, 13, 141.	3.1	667
3	Phytosynthesis of nanoparticles: concept, controversy and application. Nanoscale Research Letters, 2014, 9, 229.	3.1	290
4	Fabrication of Metal Nanoparticles from Fungi and Metal Salts: Scope and Application. Nanoscale Research Letters, 2016, 11, 98.	3.1	237
5	Carbon and fullerene nanomaterials in plant system. Journal of Nanobiotechnology, 2014, 12, 16.	4.2	210
6	Plants and microbes assisted selenium nanoparticles: characterization and application. Journal of Nanobiotechnology, 2014, 12, 28.	4.2	202
7	Plant Response to Engineered Metal Oxide Nanoparticles. Nanoscale Research Letters, 2017, 12, 92.	3.1	195
8	Recent advances in plant-mediated engineered gold nanoparticles and their application in biological system. Journal of Trace Elements in Medicine and Biology, 2017, 40, 10-23.	1.5	179
9	Green Synthesis, Characterization and Uses of Palladium/Platinum Nanoparticles. Nanoscale Research Letters, 2016, 11, 482.	3.1	168
10	A Review on Biosensors and Nanosensors Application in Agroecosystems. Nanoscale Research Letters, 2021, 16, 136.	3.1	123
11	Engineered Gold Nanoparticles and Plant Adaptation Potential. Nanoscale Research Letters, 2016, 11, 400.	3.1	122
12	Fabrication of Metal and Metal Oxide Nanoparticles by Algae and their Toxic Effects. Nanoscale Research Letters, 2016, 11, 363.	3.1	122
13	Biogenic Fabrication of Iron/Iron Oxide Nanoparticles and Their Application. Nanoscale Research Letters, 2016, 11, 498.	3.1	109
14	Metabolic changes during adventitious root primordium development in Tectona grandis Linn. f. (teak) cuttings as affected by age of donor plants and auxin (IBA and NAA) treatment. New Forests, 2007, 33, 309-323.	0.7	107
15	Metal-based nanoparticles, sensors, and their multifaceted application in food packaging. Journal of Nanobiotechnology, 2021, 19, 256.	4.2	102
16	Current status of plant metabolite-based fabrication of copper/copper oxide nanoparticles and their applications: a review. Biomaterials Research, 2020, 24, 11.	3.2	94
17	Plant response to jasmonates: current developments and their role in changing environment. Bulletin of the National Research Centre, 2019, 43, .	0.7	82
18	Salicylic acid alleviates salinity-caused damage to foliar functions, plant growth and antioxidant system in Ethiopian mustard (Brassica carinata A. Br.). Agriculture and Food Security, 2018, 7, .	1.6	81

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19	Potential Applications of Engineered Nanoparticles in Plant Disease Management: A Critical Update. <i>Chemosphere</i> , 2022, 295, 133798.	4.2	76
20	Recent Status of Nanomaterial Fabrication and Their Potential Applications in Neurological Disease Management. <i>Nanoscale Research Letters</i> , 2018, 13, 231.	3.1	75
21	Growth, water status, and leaf characteristics of <i>Brassica carinata</i> under drought and rehydration conditions. <i>Revista Brasileira De Botanica</i> , 2014, 37, 217-227.	0.5	73
22	Smart nanomaterial and nanocomposite with advanced agrochemical activities. <i>Nanoscale Research Letters</i> , 2021, 16, 156.	3.1	69
23	Improving the phytoextraction capacity of plants to scavenge metal(loid)-contaminated sites. <i>Environmental Reviews</i> , 2015, 23, 44-65.	2.1	65
24	Growth, Water Status, Physiological, Biochemical and Yield Response of Stay Green Sorghum (<i>Sorghum bicolor</i> (L.) Moench) Varieties-A Field Trial Under Drought-Prone Area in Amhara Regional State, Ethiopia. <i>Journal of Agronomy</i> , 2015, 14, 188-202.	0.4	64
25	Variation in Shoot Anatomy and Rooting Behaviour of Stem Cuttings in Relation to Age of Donor Plants in Teak (<i>Tectona grandis</i> Linn. f.). <i>New Forests</i> , 2006, 31, 57-73.	0.7	63
26	Biogenic fabrication and characterization of silver nanoparticles using aqueous-ethanolic extract of lichen (<i>Usnea longissima</i>) and their antimicrobial activity. <i>Biomaterials Research</i> , 2018, 22, 23.	3.2	63
27	Differential Sensitivity of <i>Pisum sativum</i> L. Cultivars to Water-deficit Stress: Changes in Growth, Water Status, Chlorophyll Fluorescence and Gas Exchange Attributes. <i>Journal of Agronomy</i> , 2016, 15, 45-57.	0.4	59
28	Clonal propagation of <i>Dalbergia sissoo</i> Roxb. and associated metabolic changes during adventitious root primordium development. <i>New Forests</i> , 2008, 36, 13-27.	0.7	57
29	Biogenic fabrication of nanomaterials from flower-based chemical compounds, characterization and their various applications: A review. <i>Saudi Journal of Biological Sciences</i> , 2020, 27, 2551-2562.	1.8	57
30	Plant response to silver nanoparticles: a critical review. <i>Critical Reviews in Biotechnology</i> , 2022, 42, 973-990.	5.1	57
31	Growth Characteristics, Physiological and Metabolic Responses of Teak (<i>Tectona Grandis</i> Linn. f.) Clones Differing in Rejuvenation Capacity Subjected to Drought Stress. <i>Silvae Genetica</i> , 2010, 59, 124-136.	0.4	55
32	Gold Nanoparticles from Plant System: Synthesis, Characterization and their Application. <i>Soil Biology</i> , 2017, , 455-479.	0.6	53
33	Phytochemistry, pharmacological activities, nanoparticle fabrication, commercial products and waste utilization of <i>Carica papaya</i> L.: A comprehensive review. <i>Current Research in Biotechnology</i> , 2020, 2, 145-160.	1.9	53
34	Effect of branch position and auxin treatment on clonal propagation of <i>Tectona grandis</i> Linn. f.. <i>New Forests</i> , 2007, 34, 223-233.	0.7	50
35	Plant growth and foliar characteristics of faba bean (<i>Vicia faba</i> L.) as affected by indole-acetic acid under water-sufficient and water-deficient conditions. <i>Journal of Environmental Biology</i> , 2017, 38, 179-186.	0.2	47
36	Nanomaterials and Plant Potential: An Overview. , 2019, , 3-29.		45

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37	Plant response to strigolactones: Current developments and emerging trends. <i>Applied Soil Ecology</i> , 2017, 120, 247-253.	2.1	44
38	Modulation of salt-stress tolerance of niger (<i>Guizotia abyssinica</i>), an oilseed plant, by application of salicylic acid. <i>Journal of Environmental Biology</i> , 2019, 40, 96-104.	0.2	44
39	Water purification and antibacterial efficacy of <i>Moringa oleifera</i> Lam. <i>Agriculture and Food Security</i> , 2018, 7, .	1.6	43
40	Stock-plant etiolation causes drifts in total soluble sugars and anthraquinones, and promotes adventitious root formation in teak (<i>Tectona grandis</i> L. f.) coppice shoots. <i>Plant Growth Regulation</i> , 2007, 54, 13-21.	1.8	32
41	Role of Nanomaterials in the Mitigation of Abiotic Stress in Plants. , 2019, , 441-471.		31
42	Natural Product-Based Fabrication of Zinc-Oxide Nanoparticles and Their Applications. , 2019, , 193-219.		28
43	Changes of Soluble Sugars and Enzymatic Activities During Adventitious Rooting in Cuttings of <i>Grewia optiva</i> as Affected by Age of Donor Plants and Auxin Treatments. <i>American Journal of Plant Physiology</i> , 2011, 7, 1-16.	0.2	28
44	Green Synthesis of Iron Oxide Nanoparticles: Cutting Edge Technology and Multifaceted Applications. , 2019, , 239-259.		26
45	Ethnopharmacological, phytochemistry and other potential applications of <i>Dodonaea</i> genus: A comprehensive review. <i>Current Research in Biotechnology</i> , 2020, 2, 103-119.	1.9	24
46	Plant-Mediated Synthesis of Copper Oxide Nanoparticles and Their Biological Applications. , 2019, , 221-237.		21
47	Carbon-based nanomaterials and their interactions with agricultural crops. , 2020, , 199-218.		21
48	Significance of brassinosteroids and their derivatives in the development and protection of plants under abiotic stress. <i>Biologia (Poland)</i> , 2021, 76, 2837-2857.	0.8	21
49	Development of Cotton leaf curl virus resistant transgenic cotton using antisense AYC1 gene. <i>Saudi Journal of Biological Sciences</i> , 2016, 23, 358-362.	1.8	20
50	Interactions of metal and metal-oxide nanomaterials with agricultural crops: an overview. , 2020, , 167-197.		20
51	Algae-, fungi-, and yeast-mediated biological synthesis of nanoparticles and their various biomedical applications. , 2021, , 701-734.		20
52	Plant Allelochemicals and Their Various Applications. <i>Reference Series in Phytochemistry</i> , 2020, , 441-465.	0.2	20
53	Introduction and techniques in nanomaterials formulation. , 2020, , 1-14.		20
54	Recent Development and Future Prospects of Plant-Based Vaccines. <i>Current Drug Metabolism</i> , 2017, 18, 831-841.	0.7	20

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55	Effect of Indole-3-Butyric Acid on Clonal Propagation of Mulberry (<i>Morus alba</i> L.) Stem Cuttings: Rooting and Associated Biochemical Changes. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2017, 87, 161-166.	0.4	19
56	Plant-Mediated Fabrication of Gold Nanoparticles and Their Applications. , 2019, , 71-110.		19
57	Nanomaterials from non-wood forest products and their applications. , 2020, , 15-40.		17
58	Growth, chlorophyll fluorescence and biochemical markers in clonal ramets of shisham (<i>Dalbergia</i>) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	0.7	16
59	Root-based fabrication of metal/metal-oxide nanomaterials and their various applications. , 2020, , 135-166.		16
60	Rejuvenation and Adventitious Rooting in Coppice-Shoot Cuttings of <i>Tectona grandis</i> as Affected by Stock-Plant Etiolation. American Journal of Plant Sciences, 2011, 02, 370-374.	0.3	14
61	Behavior of agricultural crops in relation to nanomaterials under adverse environmental conditions. , 2020, , 219-256.		14
62	Traditional Herbal Therapy for the Human Immune System. , 0, , .		14
63	Current status of Aloe-based nanoparticle fabrication, characterization and their application in some cutting-edge areas. South African Journal of Botany, 2022, 147, 1058-1069.	1.2	13
64	Role of Anthraquinones as a Marker of Juvenility and Maturity in Response to Adventitious Rooting of <i>Tectona grandis</i> . American Journal of Plant Physiology, 2012, 7, 220-231.	0.2	13
65	Suitability of Indian mustard genotypes for phytoremediation of mercury-contaminated sites. South African Journal of Botany, 2021, 142, 12-18.	1.2	11
66	Impact of Fabricated Nanoparticles on the Rhizospheric Microorganisms and Soil Environment. , 2019, , 529-552.		10
67	Morpho-anatomical, Physiological, Biochemical and Molecular Responses of Plants to Air Pollution. , 2021, , 203-234.		10
68	Nanomaterials from various forest tree species and their biomedical applications. , 2020, , 81-106.		10
69	Role of viruses, prions and miRNA in neurodegenerative disorders and dementia. VirusDisease, 2018, 29, 419-433.	1.0	9
70	Plant-Based Fabrication of Silver Nanoparticles and Their Application. , 2019, , 135-175.		9
71	Biofabrication of Silver Nanoparticles from <i>Diospyros montana</i> , Their Characterization and Activity Against Some Clinical Isolates. BioNanoScience, 2019, 9, 302-312.	1.5	9
72	Plant Allelochemicals and Their Various Applications. Reference Series in Phytochemistry, 2019, , 1-25.	0.2	8

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73	Green synthesis, characterization, antibacterial and photocatalytic activity of black cupric oxide nanoparticles. Agriculture and Food Security, 2020, 9, .	1.6	8
74	Response of <i>Datura innoxia</i> Linn. to Gamma Rays and Its Impact on Plant Growth and Productivity. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2016, 86, 623-629.	0.4	7
75	Role of nanomaterials in soil and water quality management. , 2020, , 491-503.		7
76	Functions of Hydrogen Sulfide in Plant Regulation and Response to Abiotic Stress. , 2021, , 329-355.		7
77	Growth Characteristics, Biomass and Chlorophyll Fluorescence Variation of Garhwal Himalayaâ€™s Fodder and Fuel Wood Tree Species at the Nursery Stage. Open Journal of Forestry, 2013, 03, 12-16.	0.1	6
78	Improving futuristic nanomaterial researches in forestry sector: an overview. , 2020, , 505-518.		5
79	Cross Talk Between Autophagy and Hormones for Abiotic Stress Tolerance in Plants. , 2021, , 1-15.		4
80	Microwave-Assisted Synchronous Nanogold Synthesis Reinforced by Kenaf Seed and Decoding Their Biocompatibility and Anticancer Activity. Pharmaceuticals, 2022, 15, 111.	1.7	4
81	Medicinal Plants and Their Pharmaceutical Properties Under Adverse Environmental Conditions. , 2021, , 457-502.		3
82	Health-Promoting Benefits, Value-Added Products, and Other Uses of Banana. , 2021, , 339-364.		3
83	The Harsh Environment and Resilient Plants: An Overview. , 2021, , 1-23.		3
84	Potential Role of Medicinal Plants in the Cure of Liver and Kidney Diseases. , 2021, , 229-254.		3
85	Current Trends in Engineered Gold Nanoparticles for Cancer Therapy. Nanotechnology in the Life Sciences, 2021, , 1-40.	0.4	3
86	Effect of Carbon-Based Nanomaterials on Rhizosphere and Plant Functioning. , 2019, , 553-575.		2
87	Forest-Based Edible Seeds and Nuts for Health Care and Disease Control. , 2021, , 145-174.		1
88	Molecular diagnosis of begomovirus associated with yellow vein mosaic disease of <i>Urena lobata</i> . Pakistan Journal of Botany, 2019, 51, .	0.2	1
89	Role of Hormones in Crop Plants Root System Architecture Under Changing Environmental Conditions. , 2022, , 145-159.		1
90	Food, Fodder and Fuelwoods from Forest. , 2021, , 383-425.		0

#	ARTICLE	IF	CITATIONS
91	Role of Traditional Chewing Sticks in Oral Hygiene and Other Benefits. , 2021, , 39-73.		0