

Prashant Singh

List of Publications by Year in descending order

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59
papers

1,061
citations

430874

18
h-index

454955

30
g-index

63
all docs

63
docs citations

63
times ranked

869
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic short-range order and incipient long-range order in high-entropy alloys. <i>Physical Review B</i> , 2015, 91, .	3.2	148
2	Electronic structure, magnetism, and antisite disorder in CoFeCrGe and CoMnCrAl quaternary Heusler alloys. <i>Physical Review B</i> , 2015, 92, .	3.2	73
3	Phylogenetically distant clade of Nostoc-like taxa with the description of <i>Aliinostoc</i> gen. nov. and <i>Aliinostoc morphoplasticum</i> sp. nov.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2017, 67, 3329-3338.	1.7	70
4	Power management and control of a grid-independent DC microgrid with hybrid energy storage system. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 43, 100924.	2.7	45
5	SUMO Suppresses the Activity of the Jasmonic Acid Receptor CORONATINE INSENSITIVE1. <i>Plant Cell</i> , 2018, 30, 2099-2115.	6.6	43
6	<i>Desikacharya</i> gen. nov., a phylogenetically distinct genus of Cyanobacteria along with the description of two new species, <i>Desikacharya nostocoides</i> sp. nov. and <i>Desikacharya soli</i> sp. nov., and reclassification of <i>Nostoc thermotolerans</i> to <i>Desikacharya thermotolerans</i> comb. nov.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2019, 69, 307-315.	1.7	43
7	Dynamic power management and control for low voltage DC microgrid with hybrid energy storage system using hybrid bat search algorithm and artificial neural network. <i>Journal of Energy Storage</i> , 2020, 32, 101974.	8.1	34
8	Molecular phylogeny, population genetics, and evolution of heterocystous cyanobacteria using <i>nifH</i> gene sequences. <i>Protoplasma</i> , 2013, 250, 751-764.	2.1	31
9	Experimental comparison of open sun drying and solar drying based on evacuated tube collector. <i>International Journal of Sustainable Energy</i> , 2019, 38, 348-367.	2.4	31
10	Molecular phylogeny and evogenomics of heterocystous cyanobacteria using <i>rbcl</i> gene sequence data. <i>Annals of Microbiology</i> , 2015, 65, 799-807.	2.6	29
11	Dynamic current sharing, voltage and SOC regulation for HESS based DC microgrid using CPISMIC technique. <i>Journal of Energy Storage</i> , 2020, 30, 101509.	8.1	29
12	<i>Nostoc thermotolerans</i> sp. nov., a soil-dwelling species of <i>Nostoc</i> (Cyanobacteria). <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2017, 67, 1296-1305.	1.7	26
13	<i>Neowestiellopsis</i> gen. nov, a new genus of true branched cyanobacteria with the description of <i>Neowestiellopsis persica</i> sp. nov. and <i>Neowestiellopsis bilateralis</i> sp. nov., isolated from Iran. <i>Plant Systematics and Evolution</i> , 2018, 304, 501-510.	0.9	25
14	Description of novel species of <i>Aliinostoc</i> , <i>Desikacharya</i> and <i>Desmonostoc</i> using a polyphasic approach. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2020, 70, 3413-3426.	1.7	25
15	The Impact of Microbes in Plant Immunity and Priming Induced Inheritance: A Sustainable Approach for Crop protection. <i>Plant Stress</i> , 2022, 4, 100072.	5.5	25
16	Description of two new species of <i>Aliinostoc</i> and one new species of <i>Desmonostoc</i> from India based on the Polyphasic Approach and reclassification of <i>Nostoc punensis</i> to <i>Desmonostoc punense</i> comb. nov. <i>FEMS Microbiology Letters</i> , 2018, 365, .	1.8	23
17	Chemotaxonomy of heterocystous cyanobacteria using FAME profiling as species markers. <i>Protoplasma</i> , 2012, 249, 651-661.	2.1	21
18	New species of <i>Nostoc</i> (cyanobacteria) isolated from Pune, India, using morphological, ecological and molecular attributes. <i>Plant Systematics and Evolution</i> , 2016, 302, 1381-1394.	0.9	20

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19	Cyanobacteria in Diverse Habitats. , 2019, , 1-28.		20
20	Accurate determination of band gaps within density functional formalism. Physical Review B, 2013, 87, .	3.2	19
21	Decoding cyanobacterial phylogeny and molecular evolution using an evonumeric approach. Protoplasma, 2015, 252, 519-535.	2.1	19
22	Artificial neural network-based dynamic power management of a DC microgrid: a hardware-in-loop real-time verification. International Journal of Ambient Energy, 2020, , 1-9.	2.5	19
23	Ferric Uptake Regulator (FUR) protein: properties and implications in cyanobacteria. Annals of Microbiology, 2016, 66, 61-75.	2.6	18
24	Better band gaps with asymptotically corrected local exchange potentials. Physical Review B, 2016, 93, .	3.2	17
25	Accurate power-sharing, voltage regulation, and SOC regulation for LVDC microgrid with hybrid energy storage system using artificial neural network. International Journal of Green Energy, 2020, 17, 756-769.	3.8	17
26	Phylogenetic complexities of the members of Rivulariaceae with the re-creation of the family Calotrichaceae and description of <i>Dulcicalothrix necridiiformans</i> gen nov., sp nov., and reclassification of <i>Calothrix desertica</i> . FEMS Microbiology Letters, 2019, 366, .	1.8	16
27	Diversity and distribution pattern analysis of cyanobacteria isolated from paddy fields of Chhattisgarh, India. Journal of Asia-Pacific Biodiversity, 2014, 7, 462-470.	0.4	15
28	Phylogenetic analysis of heterocystous cyanobacteria (Subsections IV and V) using highly iterated palindromes as molecular markers. Physiology and Molecular Biology of Plants, 2014, 20, 331-342.	3.1	14
29	Characterization of frankial strains isolated from Hippophae salicifolia D. Don, based on physiological, SDS-PAGE of whole cell proteins and RAPD PCR analyses. World Journal of Microbiology and Biotechnology, 2010, 26, 985-992.	3.6	13
30	A new species of <i>Scytonema</i> isolated from Bilaspur, Chhattisgarh, India. Journal of Systematics and Evolution, 2016, 54, 519-527.	3.1	12
31	Phylogenetic evaluation of the genus Nostoc and description of Nostoc neudorfense sp. nov., from the Czech Republic. International Journal of Systematic and Evolutionary Microbiology, 2020, 70, 2740-2749.	1.7	12
32	Variable structure control for dynamic power-sharing and voltage regulation of DC microgrid with a hybrid energy storage system. International Transactions on Electrical Energy Systems, 2020, 30, e12510.	1.9	11
33	Insights into the phylogeny of false-branching heterocystous cyanobacteria with the description of Scytonema pachmarhiense sp. nov. isolated from Pachmarhi Biosphere Reserve, India. FEMS Microbiology Letters, 2018, 365, .	1.8	10
34	Analysis and Comparison of Charging Time between Battery and Supercapacitor for 300W Stand-Alone PV System. , 2018, , .		9
35	Issues in cyanobacterial taxonomy: comprehensive case study of unbranched, false branched and true branched heterocystous cyanobacteria. FEMS Microbiology Letters, 2021, 368, .	1.8	7
36	A new species of Scytonema isolated from Bilaspur, Chhattisgarh, India using the polyphasic approach. Plant Systematics and Evolution, 2017, 303, 249-258.	0.9	6

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37	<i>Westiellopsis ramosa</i> sp. nov., intensely branched species of <i>Westiellopsis</i> (cyanobacteria) from a freshwater habitat of Jabalpur, Madhya Pradesh, India. <i>Plant Systematics and Evolution</i> , 2017, 303, 1239-1249.	0.9	6
38	A PWM-based sliding mode voltage control of DC-DC boost converter for DC microgrid. , 2018, , .		6
39	<i>ConstrictifilumÂkaradense</i> gen. et sp. nov., a new Nostoclean genus from Maharashtra, India. <i>FEMS Microbiology Letters</i> , 2021, 368, .	1.8	6
40	Phylogeny and evolutionary genetics of <i>Frankia</i> strains based on 16S rRNA and <i>nif</i> gene sequences. <i>Journal of Basic Microbiology</i> , 2015, 55, 1013-1020.	3.3	5
41	Analysis and comparison of batteries charging time for stand alone photovoltaic system. , 2016, , .		5
42	Phylogenetic evaluation of the true-branched heterocytous cyanobacteria and description of soil dwelling <i>Westiellopsis akinetica</i> sp. nov.. <i>FEMS Microbiology Letters</i> , 2020, 367, .	1.8	5
43	Small-signal modeling and stability analysis of autonomous direct current microgrid with distributed energy storage system. <i>Journal of Energy Storage</i> , 2021, 41, 102973.	8.1	5
44	Description of hot spring dwelling <i>Mastigocladus ambikapurensis</i> sp. nov., using a polyphasic approach. <i>Plant Systematics and Evolution</i> , 2021, 307, 1.	0.9	4
45	New record of a bloom forming, genotoxic strain <i>Nodularia</i> strain (KT447209) from Andaman and Nicobar Islands, India. <i>Chemosphere</i> , 2017, 174, 315-320.	8.2	3
46	<i>Fortiea necridiiformans</i> sp. nov., a soil-dwelling cyanobacterium from Pachmarhi Biosphere Reserve, India. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2020, 70, 4714-4724.	1.7	3
47	Induction of Iron Stress in Hepatocellular Carcinoma Cell Lines by Siderophore of <i>Aspergillus nidulans</i> Towards Promising Anticancer Effect. <i>Biological Trace Element Research</i> , 2022, 200, 3594-3607.	3.5	3
48	A calcium-stimulated serine peptidase from a true-branching cyanobacterium, <i>Westiellopsis ramosa</i> sp. nov.. <i>Physiology and Molecular Biology of Plants</i> , 2018, 24, 261-273.	3.1	2
49	Antifungal Activity of Some Ethnomedicinally Important Tuberos Plants of Family Liliaceae. <i>The National Academy of Sciences, India</i> , 2020, 43, 93-97.	1.3	2
50	Infected congenital lumbosacral dermal sinus tract with conus epidermoid abscess: a rare entity. <i>Child's Nervous System</i> , 2021, 37, 741-747.	1.1	2
51	Cyanoprokaryotes and algae: classification and habitats. , 2022, , 1-38.		2
52	Comparison of batteries charging time for standalone photovoltaic system. , 2016, , .		1
53	A Five-Level PWM Inverter for Hybrid PV/Fuel Cell/Battery Standalone Power System. , 2018, , .		1
54	Importance of Cyanobacterial Taxonomy in Biotechnological Applications. , 2019, , 387-414.		1

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55	Assessment of Genetic Diversity and Evaluation of Relatedness Through Morphological and Molecular Markers Among Medicinally Important Trees: Terminalia arjuna, T. bellerica, T. catappa and T. chebula. The National Academy of Sciences, India, 2019, 42, 155-159.	1.3	1
56	Cyanobacteria in the polar regions: diversity, adaptation, and taxonomic problems. , 2021, , 189-212.		1
57	A giant nondural-based lumbar clear cell meningioma mimicking schwannoma: A case report and review of the literature. Journal of Innovative Optical Health Sciences, 2021, 16, 44-50.	1.0	1
58	Homology modeling in combination of phylogenetic assortment, a new approach to resolve the phylogeny of selected heterocystous cyanobacteria based on phycocyanin encoding cpcBA-IGS locus. Vegetos, 2021, 34, 339-354.	1.5	1
59	Dural Plasmacytoma Involving Calvarium with Soft Tissue Extension Mimicking Meningioma: A Diagnostic Dilemma. Indian Journal of Neurosurgery, 2019, 08, 053-056.	0.2	0