

Nishanta Rajakaruna

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81
papers

1,998
citations

22
h-index

43
g-index

90
ext. papers

2,348
ext. citations

2.5
avg, IF

5.47
L-index

#	Paper	IF	Citations
81	Transfer of heavy metals through terrestrial food webs: a review. <i>Environmental Monitoring and Assessment</i> , 2015 , 187, 201	3.1	386
80	The Edaphic Factor in the Origin of Plant Species. <i>International Geology Review</i> , 2004 , 46, 471-478	2.3	135
79	Immobilization and phytotoxicity reduction of heavy metals in serpentine soil using biochar. <i>Journal of Soils and Sediments</i> , 2015 , 15, 126-138	3.4	113
78	Heavy metal-induced oxidative stress on seed germination and seedling development: a critical review. <i>Environmental Geochemistry and Health</i> , 2019 , 41, 1813-1831	4.7	78
77	Differential responses to Na /K and Ca /Mg in two edaphic races of the <i>Lasthenia californica</i> (Asteraceae) complex: A case for parallel evolution of physiological traits. <i>New Phytologist</i> , 2003 , 157, 93-103	9.8	75
76	Antimicrobial Activity of Plants Collected from Serpentine Outcrops in Sri Lanka. <i>Pharmaceutical Biology</i> , 2002 , 40, 235-244	3.8	73
75	Ultramafic geocology of South and Southeast Asia. <i>Botanical Studies</i> , 2017 , 58, 18	2.3	70
74	Serpentine 2019 ,		62
73	Role of woody biochar and fungal-bacterial co-inoculation on enzyme activity and metal immobilization in serpentine soil. <i>Journal of Soils and Sediments</i> , 2017 , 17, 665-673	3.4	60
72	Metal release from serpentine soils in Sri Lanka. <i>Environmental Monitoring and Assessment</i> , 2014 , 186, 3415-29	3.1	59
71	Serpentine Geocology of Eastern North America: A Review. <i>Rhodora</i> , 2009 , 111, 21-108	0.3	55
70	Edaphic races and phylogenetic taxa in the <i>Lasthenia californica</i> complex (Asteraceae: Heliantheae): an hypothesis of parallel evolution. <i>Molecular Ecology</i> , 2003 , 12, 1675-9	5.7	53
69	Lessons on Evolution from the Study of Edaphic Specialization. <i>Botanical Review, The</i> , 2018 , 84, 39-78	3.8	50
68	Adaptive Differentiation in Response to Water Stress by Edaphic Races of <i>Lasthenia californica</i> (Asteraceae). <i>International Journal of Plant Sciences</i> , 2003 , 164, 371-376	2.6	47
67	The edaphic factor and patterns of variation in <i>Lasthenia californica</i> (Asteraceae). <i>American Journal of Botany</i> , 1999 , 86, 1576-1596	2.7	45
66	Plant growth promotion by <i>Bradyrhizobium japonicum</i> under heavy metal stress. <i>South African Journal of Botany</i> , 2016 , 105, 19-24	2.9	35
65	Ecological strategies in California chaparral: interacting effects of soils, climate, and fire on specific leaf area. <i>Plant Ecology and Diversity</i> , 2011 , 4, 179-188	2.2	34

64	Growth and nitrogen uptake in an experimental community of annuals exposed to elevated atmospheric CO ₂ . <i>Global Change Biology</i> , 1998 , 4, 607-626	11.4	34
63	Edaphic adaptation maintains the coexistence of two cryptic species on serpentine soils. <i>American Journal of Botany</i> , 2012 , 99, 890-7	2.7	33
62	Investigation of the importance of rock chemistry for saxicolous lichen communities of the New Idria serpentinite mass, San Benito County, California, USA. <i>Lichenologist</i> , 2012 , 44, 695-714	1.1	30
61	Edaphic Factor 2008 , 1201-1207		29
60	A preliminary study of the role of nickel in enhancing flowering of the nickel hyperaccumulating plant <i>Alyssum inflatum</i> NyÅ (Brassicaceae). <i>South African Journal of Botany</i> , 2014 , 92, 47-52	2.9	24
59	Trophic transfer and bioaccumulation of lead along soil-plant-aphid-ladybird food chain. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 23460-23470	5.1	20
58	Lichens of the Callahan Mine, a Copper- and Zinc-Enriched Superfund Site in Brooksville, Maine, U.S.A.. <i>Rhodora</i> , 2011 , 113, 1-31	0.3	19
57	Intraspecific Variation, Adaptation, and Evolution 2011 , 96-137		18
56	A preliminary study of the role of bacterial/fungal co-inoculation on heavy metal phytotoxicity in serpentine soil. <i>Australian Journal of Botany</i> , 2015 , 63, 261	1.2	16
55	Vascular Plants of Adjacent Serpentine and Granite Outcrops on the Deer Isles, Maine, U.S.A. <i>Rhodora</i> , 2010 , 112, 105-141	0.3	16
54	Biology of Ultramafic Rocks and Soils: Research Goals for the Future. <i>Northeastern Naturalist</i> , 2009 , 16, 422-440	0.5	16
53	LICHENS OF PINE HILL, A PERIDOTITE OUTCROP IN EASTERN NORTH AMERICA. <i>Rhodora</i> , 2007 , 109, 430-447	0.3	16
52	Global research on ultramafic (serpentine) ecosystems (8th International Conference on Serpentine Ecology in Sabah, Malaysia): a summary and synthesis. <i>Australian Journal of Botany</i> , 2015 , 63, 1	1.2	15
51	Calcium : magnesium ratio affects environmental stress sensitivity in the serpentine-endemic <i>Alyssum inflatum</i> (Brassicaceae). <i>Australian Journal of Botany</i> , 2015 , 63, 39	1.2	14
50	Roles of Rhizospheric Processes and Plant Physiology in Applied Phytoremediation of Contaminated Soils Using Brassica Oilseeds. <i>Environmental Pollution</i> , 2012 , 313-330	0	13
49	Bryophytes of Adjacent Serpentine and Granite Outcrops on the Deer Isles, Maine, U.S.A. <i>Rhodora</i> , 2009 , 111, 1-20	0.3	13
48	Phytoremediation of Agricultural Soils: Using Plants to Clean Metal-Contaminated Arable Land 2015 , 159-168		12
47	Sympatric serpentine endemic <i>Monardella</i> (Lamiaceae) species maintain habitat differences despite hybridization. <i>Molecular Ecology</i> , 2018 , 27, 2302-2316	5.7	12

46	Ornithocoprophilous Plants of Mount Desert Rock, a Remote Bird-Nesting Island in the Gulf of Maine, U.S.A. <i>Rhodora</i> , 2009 , 111, 417-447	0.3	12
45	Advances in Serpentine Geoecology: A Retrospective. <i>Northeastern Naturalist</i> , 2009 , 16, 1-7	0.5	11
44	<i>Adiantum viridimontanum</i> , <i>Aspidotis densa</i> , <i>Minuartiamarcescens</i> , and <i>Symphytotrichum rhiannon</i> : Additional Serpentine Endemics from Eastern North America. <i>Northeastern Naturalist</i> , 2009 , 16, 111-120	0.5	10
43	<i>Senecio conrathii</i> N.E.Br. (Asteraceae), a new hyperaccumulator of nickel from serpentinite outcrops of the Barberton Greenstone Belt, South Africa. <i>Ecological Research</i> , 2018 , 33, 651-658	1.9	9
42	Additional lichen records and mineralogical data from metal-contaminated sites in Maine. <i>Rhodora</i> , 2014 , 116, 323-347	0.3	9
41	Biological crusts of serpentine and non-serpentine soils from the Barberton Greenstone Belt of South Africa. <i>Ecological Research</i> , 2018 , 33, 629-640	1.9	9
40	Ultramafic vegetation and soils in the circumboreal region of the Northern Hemisphere. <i>Ecological Research</i> , 2018 , 33, 609-628	1.9	8
39	Growth and nickel uptake by serpentine and non-serpentine populations of <i>Fimbristylis ovata</i> (Cyperaceae) from Sri Lanka. <i>Australian Journal of Botany</i> , 2015 , 63, 128	1.2	8
38	Stressors and threats to the flora of Acadia National Park, Maine: Current knowledge, information gaps, and future directions ¹ . <i>Journal of the Torrey Botanical Society</i> , 2012 , 139, 323-344	0.5	8
37	Heavy metal dissolution mechanisms from electrical industrial sludge. <i>Science of the Total Environment</i> , 2019 , 696, 133922	10.2	7
36	A preliminary survey of the diversity of soil algae and cyanoprokaryotes on mafic and ultramafic substrates in South Africa. <i>Australian Journal of Botany</i> , 2015 , 63, 341	1.2	7
35	Diversity and soil-tissue elemental relations of vascular plants of Callahan Mine, Brooksville, Maine, U.S.A. <i>Rhodora</i> , 2014 , 116, 283-322	0.3	7
34	Vegetation dynamics and mesophication in response to conifer encroachment within an ultramafic system. <i>Australian Journal of Botany</i> , 2015 , 63, 292	1.2	6
33	Inducing Ni sensitivity in the Ni hyperaccumulator plant <i>Alyssum inflatum</i> Nyffly (Brassicaceae) by transforming with CAX1, a vacuolar membrane calcium transporter. <i>Ecological Research</i> , 2018 , 33, 737-747	1.9	6
32	The role of elevation and soil chemistry in the distribution and ion accumulation of floral morphs of <i>Streptanthus polygaloides</i> Gray (Brassicaceae), a Californian nickel hyperaccumulator. <i>Plant Ecology and Diversity</i> , 2014 , 7, 421-432	2.2	6
31	Heavy Metals in Seaweeds from a Polluted Estuary in Coastal Maine. <i>Rhodora</i> , 2017 , 119, 201-211	0.3	6
30	Ecotypic differentiation of mid-Atlantic <i>Quercus</i> species in response to ultramafic soils. <i>Australian Journal of Botany</i> , 2015 , 63, 308	1.2	6
29	Mycorrhizal Colonization of <i>Hypericum perforatum</i> L. (Hypericaceae) from Serpentine and Granite Outcrops on the Deer Isles, Maine. <i>Northeastern Naturalist</i> , 2012 , 19, 517-526	0.5	6

28	Diversity and functional traits of lichens in ultramafic areas: a literature-based worldwide analysis integrated by field data at the regional scale. <i>Ecological Research</i> , 2018 , 33, 593-608	1.9	5
27	Serpentine The Evolution and Ecology of a Model System 2011 ,		5
26	Global research on ultramafic (serpentine) ecosystems (8th International Conference on Serpentine Ecology in Sabah, Malaysia). <i>Australian Journal of Botany</i> , 2015 , 63, iii	1.2	4
25	A Preliminary Study of the Vegetation of Vernal Pools of Acadia National Park, Maine, U.S.A. <i>Rhodora</i> , 2011 , 113, 260-279	0.3	4
24	Serpentine Soils		4
23	The Effects of Edaphic and Climatic Factors on Secondary Lichen Chemistry: A Case Study Using Saxicolous Lichens. <i>Diversity</i> , 2019 , 11, 94	2.5	3
22	Long-term phytoremediating abilities of <i>Dalbergia sissoo</i> Roxb. (Fabaceae). <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	3
21	The ecophysiology, genetics, adaptive significance, and biotechnology of nickel hyperaccumulation in plants 2020 , 327-347		3
20	Gabbro Soil-Plant Relations in the California Floristic Province. <i>Madroño</i> , 2015 , 62, 75-87	0.4	3
19	Little evidence for local adaptation to soils or microclimate in the post-fire recruitment of three Californian shrubs. <i>Plant Ecology and Diversity</i> , 2014 , 7, 411-420	2.2	3
18	Limestone flora of the Simonton Corner Quarry Preserve, Rockport, Maine, USA. <i>Rhodora</i> , 2016 , 118, 206-226	0.3	3
17	Biotransfer, bioaccumulation and detoxification of nickel along the soil - faba bean - aphid - ladybird food chain. <i>Science of the Total Environment</i> , 2021 , 785, 147226	10.2	3
16	The edaphic factor and patterns of variation in <i>Lasthenia californica</i> (Asteraceae). <i>American Journal of Botany</i> , 1999 , 86, 1576-96	2.7	3
15	Influence of soil water content and soil amendments on trace metal release and seedling growth in serpentine soil. <i>Journal of Soils and Sediments</i> , 2019 , 19, 3908-3921	3.4	2
14	<i>Burrowsia</i> , a new genus of lichenized fungi (Caliciaceae), plus the new species <i>B. cataractae</i> and <i>Scoliciosporum fabisporum</i> , from Mpumalanga, South Africa. <i>South African Journal of Botany</i> , 2020 , 132, 471-481	2.9	2
13	Influence of land use and topography on distribution and bioaccumulation of potentially toxic metals in soil and plant leaves: A case study from Sekhukhuneland, South Africa. <i>Science of the Total Environment</i> , 2022 , 806, 150659	10.2	2
12	Seasonal Impact of Phosphate-Based Fire Retardants on Soil Chemistry Following the Prophylactic Treatment of Vegetation. <i>Environmental Science & Technology</i> , 2021 , 55, 2316-2323	10.3	2
11	Lichens of Six Vernal Pools in Acadia National Park, Maine, USA. <i>Evansia</i> , 2014 , 31, 31-39	0.2	1

10	The Lasthenia Californica Story: It Started with Flavonoids. <i>Natural Product Communications</i> , 2006 , 1, 1934578X0600101	0.9	1
9	Plant Biodiversity, Overview 2001 , 621-630		1
8	A comparative study of the flora and soils of Great Duck and Little Duck Islands, Maine, USA. <i>Rhodora</i> , 2016 , 118, 46-85	0.3	1
7	Edaphic Factor 2019 , 361-367		1
6	Assessment of plant diversity and foliar chemistry on the Sri Lankan ultramafics reveals inconsistencies in the metal hyperaccumulator trait. <i>Ecological Research</i> , 2022 , 37, 215-227	1.9	1
5	Global Plant Ecology of Tropical Ultramafic Ecosystems. <i>Botanical Review</i> , <i>The</i> , 1	3.8	1
4	The Effects of Nitrogen Enrichment on Low-Nutrient Environments: Insights from Studies of Serpentine Soil-Plant Relations 2022 , 277-311		0
3	Plant Ecology and Evolution in Harsh Environments Plant Ecology and Evolution in Harsh Environments by Nishanta Rajakaruna , Robert S. Boyd , and Tanner B. Harris , eds. 2014. 475 pp. ISBN-13:978-1633219557 \$250.00 (hardcover), ebook available. Nova Science Publishers, Hauppauge, NY.. <i>Rhodora</i> , 2015 , 117, 106-108	0.3	
2	The Alpine Vascular Plants of Baxter State Park, Maine, USA. <i>Rhodora</i> , 2017 , 119, 110-131	0.3	
1	A global forum on ultramafic ecosystems: from ultramafic ecology to rehabilitation of degraded environments. <i>Ecological Research</i> , 2018 , 33, 517-522	1.9	