

Devendra Kumar Pandey

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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.

98
papers

758
citations

15
h-index

24
g-index

104
ext. papers

1,128
ext. citations

3.8
avg, IF

4.97
L-index

#	Paper	IF	Citations
98	Unravelling the multi-faceted regulatory role of polyamines in plant biotechnology, transgenics and secondary metabolomics.. <i>Applied Microbiology and Biotechnology</i> , 2022 , 106, 905	5.7	2
97	CRISPR/Cas genome-editing toolkit to enhance salt stress tolerance in rice and wheat.. <i>Physiologia Plantarum</i> , 2022 , e13642	4.6	5
96	In vitro tuberization, genetic, and phytochemical fidelity assessment of <i>Dioscorea deltoidea</i> . <i>Industrial Crops and Products</i> , 2022 , 175, 114174	5.9	1
95	Response surface methodology and artificial neural network modeling for optimization of ultrasound-assisted extraction and rapid HPTLC analysis of asiaticoside from <i>Centella asiatica</i> . <i>Industrial Crops and Products</i> , 2022 , 176, 114320	5.9	0
94	Establishment of adventitious root culture from leaf explants of <i>Plumbago zeylanica</i> : an endangered medicinal plant. <i>Vegetos</i> , 2022 , 35, 276	1.2	0
93	Promising botanical-derived monoamine oxidase (MAO) inhibitors: pharmacological aspects and structure-activity studies. <i>South African Journal of Botany</i> , 2022 , 146, 127-145	2.9	1
92	Biotechnology for propagation and secondary metabolite production in <i>Bacopa monnieri</i> .. <i>Applied Microbiology and Biotechnology</i> , 2022 , 106, 1837	5.7	0
91	Response surface methodology and artificial neural network modelling for optimization of solid-liquid extraction and rapid HPTLC analysis of glycyrrhizin in <i>Glycyrrhiza glabra</i> root. <i>South African Journal of Botany</i> , 2022 , 148, 11-20	2.9	0
90	Phytotherapy for Attention Deficit Hyperactivity Disorder (ADHD): A Systematic Review and Meta-analysis.. <i>Frontiers in Pharmacology</i> , 2022 , 13, 827411	5.6	1
89	CRISPR/Cas Genome Editing in Engineering Plant Secondary Metabolites of Therapeutic Benefits 2022 , 187-208		
88	Unravelling the promise and limitations of CRISPR/Cas system in natural product research: Approaches and challenges. <i>Biotechnology Journal</i> , 2021 , e2100507	5.6	1
87	Exploring the role of elicitors in enhancing medicinal values of plants under in vitro condition. <i>South African Journal of Botany</i> , 2021 ,	2.9	0
86	Comparative Study of the Support Vector Machine with Two Hyper-Parameter Optimization Methods for the Prediction of FSHD. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 549-555	0.4	
85	Biotechnological interventions of in vitro propagation and production of valuable secondary metabolites in <i>Stevia rebaudiana</i> . <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 8593-8614	5.7	2
84	Biotechnological interventions and genetic diversity assessment in <i>Swertia</i> sp.: a myriad source of valuable secondary metabolites. <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 4427-4451	5.7	2
83	HPTLC quantification of diosgenin in <i>Dioscorea deltoidea</i> : Evaluation of extraction efficacy, organ selection, drying method and seasonal variation. <i>South African Journal of Botany</i> , 2021 , 138, 386-393	2.9	5
82	Elicitation of industrially promising vanillin type aromatic compound 2-hydroxy 4-methoxy benzaldehyde (MBAID) yield in the in-vitro raised medicinal crop <i>Hemidesmus indicus</i> (L) R. Br. by methyl jasmonate and salicylic acid. <i>Industrial Crops and Products</i> , 2021 , 164, 113375	5.9	2

81	Optimization of diosgenin extraction from <i>Dioscorea deltoidea</i> tubers using response surface methodology and artificial neural network modelling. <i>PLoS ONE</i> , 2021 , 16, e0253617	3.7	2
80	Unraveling the medicinal potential and conservation of Indian <i>Crinum</i> (Amaryllidaceae) species. <i>South African Journal of Botany</i> , 2021 , 136, 7-15	2.9	8
79	Chemotaxonomy of the ethnic antidote <i>Aristolochia indica</i> for aristolochic acid content: Implications of anti-phospholipase activity and genotoxicity study. <i>Journal of Ethnopharmacology</i> , 2021 , 266, 113416	5	3
78	Biotechnological strategies for the sustainable production of diosgenin from <i>Dioscorea</i> spp. <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 569-585	5.7	9
77	A comprehensive survey of deep learning in the field of medical imaging and medical natural language processing: Challenges and research directions. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2021 ,	2.5	8
76	Recent advances and future prospects of indole alkaloids producing endophytes from <i>Catharanthus roseus</i> 2021 , 449-472		
75	Screening the elite chemotypes of <i>Gloriosa superba</i> L. in India for the production of anticancer colchicine: simultaneous microwave-assisted extraction and HPTLC studies. <i>BMC Plant Biology</i> , 2021 , 21, 77	5.3	1
74	Ethnobotany, phytochemistry, pharmacology, and toxicity of <i>Centella asiatica</i> (L.) Urban: A comprehensive review. <i>Phytotherapy Research</i> , 2021 ,	6.7	3
73	Optimization of harvest and extraction factors by full factorial design for the improved yield of C-glucosyl xanthone mangiferin from <i>Swertia chirata</i> . <i>Scientific Reports</i> , 2021 , 11, 16346	4.9	1
72	Mitigation of heat stress responses in crops using nitrate primed seeds. <i>South African Journal of Botany</i> , 2021 , 140, 25-36	2.9	2
71	Statistical optimization of in vitro callus induction of wild and cultivated varieties of <i>Mucuna pruriens</i> L. (DC.) using response surface methodology and assessment of L-Dopa biosynthesis. <i>Industrial Crops and Products</i> , 2021 , 169, 113626	5.9	8
70	CRISPR/Cas9-mediated genome editing is revolutionizing the improvement of horticultural crops: Recent advances and future prospects. <i>Scientia Horticulturae</i> , 2021 , 289, 110476	4.1	2
69	Brassinosteroids and their analogs: Feedback in plants under in vitro condition. <i>South African Journal of Botany</i> , 2021 , 143, 256-265	2.9	1
68	Optimization of salicylic acid and chitosan treatment for bitter secoiridoid and xanthone glycosides production in shoot cultures of <i>Swertia paniculata</i> using response surface methodology and artificial neural network. <i>BMC Plant Biology</i> , 2020 , 20, 225	5.3	25
67	Endophytic sources of diosgenin, a natural steroid with multiple therapeutic values. <i>South African Journal of Botany</i> , 2020 , 134, 119-125	2.9	9
66	Validation and quantification of major biomarkers in Mahasudarshan Churna an ayurvedic polyherbal formulation through high-performance thin-layer chromatography. <i>BMC Complementary Medicine and Therapies</i> , 2020 , 20, 184	2.9	7
65	Fungal endophytes: Futuristic tool in recent research area of phytoremediation. <i>South African Journal of Botany</i> , 2020 , 134, 285-295	2.9	5
64	Plant Natural Products as Neuroprotective Nutraceuticals: Preclinical and Clinical Studies and Future Implications. <i>Proceedings of the National Academy of Sciences India Section B - Biological Sciences</i> , 2020 , 90, 929-943	1.4	3

63	Indian Sarsaparilla (<i>Hemidesmus indicus</i>): Recent progress in research on ethnobotany, phytochemistry and pharmacology. <i>Journal of Ethnopharmacology</i> , 2020 , 254, 112609	5	17
62	Evaluation of sodium nitroprusside and putrescine on polyethylene glycol induced drought stress in <i>Stevia rebaudiana</i> Bertoni under in vitro condition. <i>Industrial Crops and Products</i> , 2020 , 154, 112754	5.9	15
61	Comparison of RSM, ANN and Fuzzy Logic for extraction of Oleonic Acid from <i>Ocimum sanctum</i> . <i>Computers in Industry</i> , 2020 , 117, 103200	11.6	16
60	A review on antimicrobial botanicals, phytochemicals and natural resistance modifying agents from Apocynaceae family: Possible therapeutic approaches against multidrug resistance in pathogenic microorganisms. <i>Drug Resistance Updates</i> , 2020 , 51, 100695	23.2	34
59	Endophytes producing podophyllotoxin from <i>Podophyllum</i> sp. and other plants: A review on isolation, extraction and bottlenecks. <i>South African Journal of Botany</i> , 2020 , 134, 303-313	2.9	2
58	An evidence based efficacy and safety assessment of the ethnobiologicals against poisonous and non-poisonous bites used by the tribals of three westernmost districts of West Bengal, India: Anti-phospholipase A2 and genotoxic effects. <i>PLoS ONE</i> , 2020 , 15, e0242944	3.7	3
57	<i>Bacopa monnieri</i> : The Neuroprotective Elixir from the East Phytochemistry, Pharmacology, and Biotechnological Improvement 2020 , 97-126		
56	A Systematic Review on Synthetic Drugs and Phytopharmaceuticals Used to Manage Diabetes. <i>Current Diabetes Reviews</i> , 2020 , 16, 340-356	2.7	7
55	Current Knowledge of <i>Cinnamomum</i> Species: A Review on the Bioactive Components, Pharmacological Properties, Analytical and Biotechnological Studies 2020 , 127-164		1
54	<i>Swertia</i> spp.: A Potential Source of High-Value Bioactive Components, Pharmacology, and Analytical Techniques 2020 , 165-213		2
53	Selection of elite germplasms for industrially viable medicinal crop <i>Bacopa monnieri</i> for bacoside A production: An HPTLC-coupled chemotaxonomic study. <i>Industrial Crops and Products</i> , 2020 , 158, 112975	5.9	4
52	Methyl jasmonate and salicylic acid elicit indole alkaloid production and modulate antioxidant defence and biocidal properties in <i>Rauvolfia serpentina</i> Benth. ex Kurz. in vitro cultures. <i>South African Journal of Botany</i> , 2020 , 135, 1-17	2.9	13
51	Polyamine elicited aristolochic acid production in in vitro clonally fidel <i>Aristolochia indica</i> L.: An ISSR and RAPD markers and HPTLC based study. <i>South African Journal of Botany</i> , 2020 , 140, 326-326	2.9	8
50	<i>Dioscorea bulbifera</i> L. (Dioscoreaceae): A review of its ethnobotany, pharmacology and conservation needs. <i>South African Journal of Botany</i> , 2020 ,	2.9	7
49	Advances in bioactive compounds from <i>Crocus sativus</i> (saffron): Structure, bioactivity and biotechnology. <i>Studies in Natural Products Chemistry</i> , 2020 , 66, 273-304	1.5	1
48	Biotechnological strategies for production of camptothecin from fungal and bacterial endophytes. <i>South African Journal of Botany</i> , 2020 , 134, 135-145	2.9	5
47	In vitro propagation and assessment of genetic fidelity in <i>Dioscorea deltoidea</i> , a potent diosgenin yielding endangered plant. <i>South African Journal of Botany</i> , 2020 ,	2.9	7
46	Implications of phytochemicals as disease-modifying agents against Huntington's disease (HD): Bioactivity, animal models and transgenics, synergism and structure-activity studies. <i>Studies in Natural Products Chemistry</i> , 2020 , 27-79	1.5	0

45	Hemidesmus indicus L. Br.: critical assessment of in vitro biotechnological advancements and perspectives. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 8517-8548	5.7	1
44	Software fault prediction based on change metrics using hybrid algorithms: An empirical study. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2020 , 32, 419-424	2.5	13
43	Classification and Identification of Primitive Kharif Crops using Supervised Deep Convolutional Networks. <i>Sustainable Computing: Informatics and Systems</i> , 2020 , 28, 100340	3	9
42	Moringa oleifera Lam. and derived phytochemicals as promising antiviral agents: A review. <i>South African Journal of Botany</i> , 2020 , 129, 272-282	2.9	26
41	An evidence based efficacy and safety assessment of the ethnobiologicals against poisonous and non-poisonous bites used by the tribals of three westernmost districts of West Bengal, India: Anti-phospholipase A2 and genotoxic effects 2020 , 15, e0242944		
40	An evidence based efficacy and safety assessment of the ethnobiologicals against poisonous and non-poisonous bites used by the tribals of three westernmost districts of West Bengal, India: Anti-phospholipase A2 and genotoxic effects 2020 , 15, e0242944		
39	An evidence based efficacy and safety assessment of the ethnobiologicals against poisonous and non-poisonous bites used by the tribals of three westernmost districts of West Bengal, India: Anti-phospholipase A2 and genotoxic effects 2020 , 15, e0242944		
38	An evidence based efficacy and safety assessment of the ethnobiologicals against poisonous and non-poisonous bites used by the tribals of three westernmost districts of West Bengal, India: Anti-phospholipase A2 and genotoxic effects 2020 , 15, e0242944		
37	An evidence based efficacy and safety assessment of the ethnobiologicals against poisonous and non-poisonous bites used by the tribals of three westernmost districts of West Bengal, India: Anti-phospholipase A2 and genotoxic effects 2020 , 15, e0242944		
36	An evidence based efficacy and safety assessment of the ethnobiologicals against poisonous and non-poisonous bites used by the tribals of three westernmost districts of West Bengal, India: Anti-phospholipase A2 and genotoxic effects 2020 , 15, e0242944		
35	Phytoestrogens as Anticancer Therapeutics: A Retrospective and Future Perspectives. <i>Journal of Biologically Active Products From Nature</i> , 2019 , 9, 179-196	0.7	1
34	A comprehensive survey of edge prediction in social networks: Techniques, parameters and challenges. <i>Expert Systems With Applications</i> , 2019 , 124, 164-181	7.8	32
33	Simultaneous microwave assisted extraction and HPTLC quantification of mangiferin, amarogentin, and swertiamarin in Swertia species from Western Himalayas. <i>Industrial Crops and Products</i> , 2019 , 132, 449-459	5.9	21
32	Enhanced bacoside content in polyamine treated in-vitro raised Bacopa monnieri (L.) Wettst. <i>South African Journal of Botany</i> , 2019 , 123, 259-269	2.9	21
31	Assessment of genetic diversity among different population of five Swertia species by using molecular and phytochemical markers. <i>Industrial Crops and Products</i> , 2019 , 138, 111569	5.9	8
30	Simultaneous quantification of oleanolic acid, ursolic acid, betulinic acid and lupeol in different populations of five Swertia species by using HPTLC-densitometry: Comparison of different extraction methods and solvent selection. <i>Industrial Crops and Products</i> , 2019 , 130, 537-546	5.9	27
29	Optimization of extraction parameters of pentacyclic triterpenoids from stem using response surface methodology. <i>3 Biotech</i> , 2018 , 8, 152	2.8	14
28	A Novel Hybrid Feature Selection Model for Classification of Neuromuscular Dystrophies Using Bhattacharyya Coefficient, Genetic Algorithm and Radial Basis FunctionBased Support Vector Machine. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2018 , 10, 244-250	3.5	0

27	Biotechnological aspects of the production of natural sweetener glycyrrhizin from <i>Glycyrrhiza</i> sp.. <i>Phytochemistry Reviews</i> , 2018 , 17, 397-430	7.7	9
26	A novel approach for dissimilar gene selection and multi-class classification of neuromuscular disorders: combining median matrix and radial basis function based support vector machine. <i>International Journal of Computational Biology and Drug Design</i> , 2018 , 11, 328	0.4	
25	HPTLC Analysis of the Antioxidant and Possible Antidiabetic Chlorogenic Acid in the in situ and in vitro Populations of the Low-calorie Sweetener <i>Stevia rebaudiana</i> (Bert.) Bertoni. <i>Analytical Chemistry Letters</i> , 2018 , 8, 872-881	1	3
24	Anti-insomniac Botanicals and Natural Products: Pre-clinical and Clinical Evidences. <i>Journal of Biologically Active Products From Nature</i> , 2018 , 8, 295-311	0.7	1
23	Arbuscular Mycorrhizal Fungi: Effects on Secondary Metabolite Production in Medicinal Plants 2018 , 507-538		1
22	Isolation and Characterization of Phosphate Solubilizing Bacteria from Rhizosphere of <i>Dioscorea alata</i> Stimulating Growth and Diosgenin Production. <i>Proceedings of the National Academy of Sciences India Section B - Biological Sciences</i> , 2017 , 87, 1143-1152	1.4	7
21	Biotechnological Advances in Lychee (<i>Litchi chinensis</i>) and Their Future Implication in Improvement of Crop 2017 , 59-99		
20	Natural products against Alzheimer's disease: Pharmaco-therapeutics and biotechnological interventions. <i>Biotechnology Advances</i> , 2017 , 35, 178-216	17.8	122
19	Facioscapulohumeral Muscular Dystrophy Diagnosis Using Hierarchical Clustering Algorithm and K-Nearest Neighbor Based Methodology. <i>International Journal of E-Health and Medical Communications</i> , 2017 , 8, 33-46	1.4	2
18	Building an intelligent integrated method of gene selection for facioscapulohumeral muscular dystrophy diagnosis. <i>International Journal of Biomedical Engineering and Technology</i> , 2017 , 24, 285	1.3	1
17	Knowledge and intelligent computing techniques in bioinformatics. <i>International Journal of Computational Biology and Drug Design</i> , 2016 , 9, 173	0.4	1
16	A validated and densitometric HPTLC method for the simultaneous quantification of reserpine and ajmalicine in <i>Rauvolfia serpentina</i> and <i>Rauvolfia tetraphylla</i> . <i>Revista Brasileira De Farmacognosia</i> , 2016 , 26, 553-557	2	19
15	Comparative HPTLC analysis of bioactive marker barbaloin from in vitro and naturally grown <i>Aloe vera</i> . <i>Revista Brasileira De Farmacognosia</i> , 2016 , 26, 161-167	2	9
14	Evaluation of Phytochemicals, Antioxidant, Antibacterial and Antidiabetic Potential of <i>Alpinia galanga</i> and <i>Eryngium foetidum</i> Plants of Manipur (India). <i>Pharmacognosy Journal</i> , 2016 , 8, 459-464	1.6	7
13	A Stigmasterol Containing n-hexane Fraction of <i>Rauvolfia serpentina</i> Methanolic Extract Shows Tissue-Specific Variation of Biocidal and Antioxidant Activities. <i>Journal of Herbs, Spices and Medicinal Plants</i> , 2016 , 22, 81-91	0.9	5
12	Comparative HPTLC Analysis of Antioxidant Compound Gallic Acid from in vitro and Naturally Grown <i>Stevia rebaudiana</i> . <i>Journal of Biologically Active Products From Nature</i> , 2015 , 5, 397-405	0.7	5
11	Evaluation of antioxidant, antibacterial, and antidiabetic potential of two traditional medicinal plants of India: <i>Swertia cordata</i> and <i>Swertia chirayita</i> . <i>Pharmacognosy Research (discontinued)</i> , 2015 , 7, S57-62	0.7	18
10	HPTLC Method for Quantitative Evaluation of Seasonal Variation of Stigmasterol in <i>Rauvolfia serpentina</i> (L). Benth. ex Kurz.. <i>Journal of Biologically Active Products From Nature</i> , 2014 , 4, 254-261	0.7	4

9	Improved growth and colchicine concentration in <i>Gloriosa superba</i> on mycorrhizal inoculation supplemented with phosphorus-fertilizer. <i>Tropical Journal of Obstetrics and Gynaecology</i> , 2014 , 11, 439-463	0.3	4
8	HPTLC detection of altitudinal variation of the potential antivenin stigmaterol in different populations of the tropical ethnic antidote <i>Rauvolfia serpentina</i> . <i>Asian Pacific Journal of Tropical Medicine</i> , 2014 , 7S1, S540-5	2.1	7
7	Validated HPTLC Method for Quantification of Variability in Content of Oleanolic Acid in Different Variety of <i>Lantana camara</i> .. <i>Pharmacologia</i> , 2013 , 4, 126-131		4
6	Ameliorative Potential of Aqueous Root Extract of <i>Withania somnifera</i> Against Paracetamol Induced Liver Damage in Mice. <i>Pharmacologia</i> , 2013 , 4, 89-94		7
5	Screening of different East Himalayan species and populations of <i>Swertia L.</i> based on exomorphology and mangiferin content. <i>Asian Pacific Journal of Tropical Biomedicine</i> , 2012 , 2, S1450-S1456	1.4	22
4	Optimizing conditions for oleanolic acid extraction from <i>Lantana camara</i> roots using response surface methodology. <i>Industrial Crops and Products</i> , 2008 , 27, 241-248	5.9	59
3	Development of Diagnostic Microscopic and Chemical Markers of Some <i>Euphorbia</i> Latexes. <i>Journal of Integrative Plant Biology</i> , 2006 , 48, 1115-1121	8.3	3
2	Beneficial Role of Selenium (Se) Biofortification in Developing Resilience Against Potentially Toxic Metal and Metalloid Stress in Crops: Recent Trends in Genetic Engineering and Omics Approaches. <i>Journal of Soil Science and Plant Nutrition</i> , 1	3.2	1
1	Biotechnology for micropropagation and camptothecin production in <i>Ophiorrhiza sp.</i> . <i>Applied Microbiology and Biotechnology</i> ,	5.7	0