

Devendra Kumar Pandey

List of Publications by Citations

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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	Natural products against Alzheimer's disease: Pharmaco-therapeutics and biotechnological interventions. <i>Biotechnology Advances</i> , 2017 , 35, 178-216	17.8	122
97	Optimizing conditions for oleanolic acid extraction from Lantana camara roots using response surface methodology. <i>Industrial Crops and Products</i> , 2008 , 27, 241-248	5.9	59
96	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
95	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
94	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
93	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
92	Optimization of salicylic acid and chitosan treatment for bitter secoiridoid and xanthone glycosides production in shoot cultures of Swertia paniculata using response surface methodology and artificial neural network. <i>BMC Plant Biology</i> , 2020 , 20, 225	5.3	25
91	Screening of different East Himalayan species and populations of Swertia L. based on exomorphology and mangiferin content. <i>Asian Pacific Journal of Tropical Biomedicine</i> , 2012 , 2, S1450-S1456	1.4	22
90	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
89	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
88	A validated and densitometric HPTLC method for the simultaneous quantification of reserpine and ajmalicine in Rauvolfia serpentina and Rauvolfia tetraphylla. <i>Revista Brasileira De Farmacognosia</i> , 2016 , 26, 553-557	2	19
87	Evaluation of antioxidant, antibacterial, and antidiabetic potential of two traditional medicinal plants of India: Swertia cordata and Swertia chirayita. <i>Pharmacognosy Research (discontinued)</i> , 2015 , 7, S57-62	0.7	18
86	Indian Sarsaparilla (Hemidesmus indicus): Recent progress in research on ethnobotany, phytochemistry and pharmacology. <i>Journal of Ethnopharmacology</i> , 2020 , 254, 112609	5	17
85	Comparison of RSM, ANN and Fuzzy Logic for extraction of Oleanolic Acid from Ocimum sanctum. <i>Computers in Industry</i> , 2020 , 117, 103200	11.6	16
84	Evaluation of sodium nitroprusside and putrescine on polyethylene glycol induced drought stress in Stevia rebaudiana Bertonii under in vitro condition. <i>Industrial Crops and Products</i> , 2020 , 154, 112754	5.9	15
83	Optimization of extraction parameters of pentacyclic triterpenoids from stem using response surface methodology. <i>3 Biotech</i> , 2018 , 8, 152	2.8	14
82	Methyl jasmonate and salicylic acid elicit indole alkaloid production and modulate antioxidant defence and biocidal properties in Rauvolfia serpentina Benth. ex Kurz. in vitro cultures. <i>South African Journal of Botany</i> , 2020 , 135, 1-17	2.9	13

81	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
80	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
79	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
78	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
77	Classification and Identification of Primitive Kharif Crops using Supervised Deep Convolutional Networks. <i>Sustainable Computing: Informatics and Systems</i> , 2020 , 28, 100340	3	9
76	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
75	Assessment of genetic diversity among different population of five <i>Swertia</i> species by using molecular and phytochemical markers. <i>Industrial Crops and Products</i> , 2019 , 138, 111569	5.9	8
74	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
73	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
72	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
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	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
69	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
68	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
67	A Systematic Review on Synthetic Drugs and Phytopharmaceuticals Used to Manage Diabetes. <i>Current Diabetes Reviews</i> , 2020 , 16, 340-356	2.7	7
66	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
65	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
64	<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

63	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
62	Fungal endophytes: Futuristic tool in recent research area of phytoremediation. <i>South African Journal of Botany</i> , 2020 , 134, 285-295	2.9	5
61	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
60	CRISPR/Cas genome-editing toolkit to enhance salt stress tolerance in rice and wheat.. <i>Physiologia Plantarum</i> , 2022 , e13642	4.6	5
59	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
58	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
57	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
56	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
55	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
54	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
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	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
51	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
50	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
49	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
48	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
47	Ethnobotany, phytochemistry, pharmacology, and toxicity of <i>Centella asiatica</i> (L.) Urban: A comprehensive review. <i>Phytotherapy Research</i> , 2021 ,	6.7	3
46	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

45	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
44	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
43	Biotechnological interventions of in vitro propagation and production of valuable secondary metabolites in Stevia rebaudiana. <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 8593-8614	5.7	2
42	Swertia spp.: A Potential Source of High-Value Bioactive Components, Pharmacology, and Analytical Techniques 2020 , 165-213		2
41	Biotechnological interventions and genetic diversity assessment in Swertia sp.: a myriad source of valuable secondary metabolites. <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 4427-4451	5.7	2
40	Elicitation of industrially promising vanillin type aromatic compound 2-hydroxy 4-methoxy benzaldehyde (MBAID) yield in the in-vitro raised medicinal crop Hemidesmus indicus (L) R. Br. by methyl jasmonate and salicylic acid. <i>Industrial Crops and Products</i> , 2021 , 164, 113375	5.9	2
39	Optimization of diosgenin extraction from Dioscorea deltoidea tubers using response surface methodology and artificial neural network modelling. <i>PLoS ONE</i> , 2021 , 16, e0253617	3.7	2
38	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
37	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
36	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
35	Knowledge and intelligent computing techniques in bioinformatics. <i>International Journal of Computational Biology and Drug Design</i> , 2016 , 9, 173	0.4	1
34	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
33	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
32	In vitro tuberization, genetic, and phytochemical fidelity assessment of Dioscorea deltoidea. <i>Industrial Crops and Products</i> , 2022 , 175, 114174	5.9	1
31	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
30	Current Knowledge of Cinnamomum Species: A Review on the Bioactive Components, Pharmacological Properties, Analytical and Biotechnological Studies 2020 , 127-164		1
29	Advances in bioactive compounds from Crocus sativus (saffron): Structure, bioactivity and biotechnology. <i>Studies in Natural Products Chemistry</i> , 2020 , 66, 273-304	1.5	1
28	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

27	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
26	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
25	Arbuscular Mycorrhizal Fungi: Effects on Secondary Metabolite Production in Medicinal Plants 2018 , 507-538		1
24	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
23	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
22	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
21	Phytotherapy for Attention Deficit Hyperactivity Disorder (ADHD): A Systematic Review and Meta-analysis.. <i>Frontiers in Pharmacology</i> , 2022 , 13, 827411	5.6	1
20	A Novel Hybrid Feature Selection Model for Classification of Neuromuscular Dystrophies Using Bhattacharyya Coefficient, Genetic Algorithm and Radial Basis Function Based Support Vector Machine. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2018 , 10, 244-250	3.5	0
19	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
18	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
17	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
16	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
15	Biotechnology for propagation and secondary metabolite production in <i>Bacopa monnieri</i> .. <i>Applied Microbiology and Biotechnology</i> , 2022 , 106, 1837	5.7	0
14	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
13	Biotechnology for micropropagation and camptothecin production in <i>Ophiorrhiza</i> sp.. <i>Applied Microbiology and Biotechnology</i> ,	5.7	0
12	Biotechnological Advances in Lychee (<i>Litchi chinensis</i>) and Their Future Implication in Improvement of Crop 2017 , 59-99		
11	<i>Bacopa monnieri</i> : The Neuroprotective Elixir from the East Phytochemistry, Pharmacology, and Biotechnological Improvement 2020 , 97-126		
10	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	

- 9 Recent advances and future prospects of indole alkaloids producing endophytes from *Catharanthus roseus* **2021**, 449-472
- 8 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. *International Journal of Computational Biology and Drug Design*, **2018**, 11, 328 0.4
- 7 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
- 6 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
- 5 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
- 4 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
- 3 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
- 2 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
- 1 CRISPR/Cas Genome Editing in Engineering Plant Secondary Metabolites of Therapeutic Benefits **2022**, 187-208