

Devendra Kumar Pandey

List of Publications by Year in descending order

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103
papers

1,541
citations

331642

21
h-index

395678

33
g-index

104
all docs

104
docs citations

104
times ranked

1418
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural products against Alzheimer's disease: Pharmaco-therapeutics and biotechnological interventions. <i>Biotechnology Advances</i> , 2017, 35, 178-216.	11.7	175
2	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.	14.4	82
3	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.	5.2	68
4	<i>Moringa oleifera</i> Lam. and derived phytochemicals as promising antiviral agents: A review. <i>South African Journal of Botany</i> , 2020, 129, 272-282.	2.5	62
5	A comprehensive survey of edge prediction in social networks: Techniques, parameters and challenges. <i>Expert Systems With Applications</i> , 2019, 124, 164-181.	7.6	48
6	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.	3.6	44
7	Enhanced bacoside content in polyamine treated in-vitro raised <i>Bacopa monnieri</i> (L.) Wettst. <i>South African Journal of Botany</i> , 2019, 123, 259-269.	2.5	37
8	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.	3.9	37
9	Simultaneous quantification of oleanolic acid, ursolic acid, betulinic acid and lupeol in different populations of five <i>Swertia</i> species by using HPTLC-densitometry: Comparison of different extraction methods and solvent selection. <i>Industrial Crops and Products</i> , 2019, 130, 537-546.	5.2	35
10	Indian Sarsaparilla (<i>Hemidesmus indicus</i>): Recent progress in research on ethnobotany, phytochemistry and pharmacology. <i>Journal of Ethnopharmacology</i> , 2020, 254, 112609.	4.1	35
11	Simultaneous microwave assisted extraction and HPTLC quantification of mangiferin, amarogentin, and swertiamarin in <i>Swertia</i> species from Western Himalayas. <i>Industrial Crops and Products</i> , 2019, 132, 449-459.	5.2	34
12	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.	5.2	30
13	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.	2.5	29
14	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, 57.	0.6	29
15	Comparison of RSM, ANN and Fuzzy Logic for extraction of Oleanolic Acid from <i>Ocimum sanctum</i> . <i>Computers in Industry</i> , 2020, 117, 103200.	9.9	28
16	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> , 2022, 34, 5083-5099.	3.9	27
17	Betelvine (<i>Piper betle</i> L.): A comprehensive insight into its ethnopharmacology, phytochemistry, and pharmacological, biomedical and therapeutic attributes. <i>Journal of Cellular and Molecular Medicine</i> , 2022, 26, 3083-3119.	3.6	26
18	Screening of different East Himalayan species and populations of <i>Swertia</i> L. based on exomorphology and mangiferin content. <i>Asian Pacific Journal of Tropical Biomedicine</i> , 2012, 2, S1450-S1456.	1.2	25

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19	Biotechnological strategies for the sustainable production of diosgenin from <i>Dioscorea</i> spp.. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 569-585.	3.6	25
20	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.	1.4	23
21	Unraveling the medicinal potential and conservation of Indian <i>Crinum</i> (Amaryllidaceae) species. <i>South African Journal of Botany</i> , 2021, 136, 7-15.	2.5	22
22	Ethnobotany, phytochemistry, pharmacology, and toxicity of <i>Centella asiatica</i> (L.) Urban: A comprehensive review. <i>Phytotherapy Research</i> , 2021, 35, 6624-6654.	5.8	21
23	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, .	2.5	20
24	<i>Dioscorea bulbifera</i> L. (Dioscoreaceae): A review of its ethnobotany, pharmacology and conservation needs. <i>South African Journal of Botany</i> , 2021, 140, 365-374.	2.5	19
25	Optimization of extraction parameters of pentacyclic triterpenoids from <i>Swertia chirata</i> stem using response surface methodology. <i>3 Biotech</i> , 2018, 8, 152.	2.2	18
26	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> , 2021, 140, 326-335.	2.5	18
27	Classification and Identification of Primitive Kharif Crops using Supervised Deep Convolutional Networks. <i>Sustainable Computing: Informatics and Systems</i> , 2020, 28, 100340.	2.2	17
28	Endophytic sources of diosgenin, a natural steroid with multiple therapeutic values. <i>South African Journal of Botany</i> , 2020, 134, 119-125.	2.5	17
29	Fungal endophytes: Futuristic tool in recent research area of phytoremediation. <i>South African Journal of Botany</i> , 2020, 134, 285-295.	2.5	17
30	Clustered regularly interspaced short palindromic repeats (CRISPR)/CRISPR-associated genome editing toolkit to enhance salt stress tolerance in rice and wheat. <i>Physiologia Plantarum</i> , 2022, 174, e13642.	5.2	17
31	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.	5.2	16
32	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.	5.2	16
33	A Systematic Review on Synthetic Drugs and Phytopharmaceuticals Used to Manage Diabetes. <i>Current Diabetes Reviews</i> , 2020, 16, 340-356.	1.3	16
34	Exploring the role of elicitors in enhancing medicinal values of plants under in vitro condition. <i>South African Journal of Botany</i> , 2022, 149, 1029-1043.	2.5	16
35	Biotechnological aspects of the production of natural sweetener glycyrrhizin from <i>Glycyrrhiza</i> sp.. <i>Phytochemistry Reviews</i> , 2018, 17, 397-430.	6.5	15
36	Unravelling the multi-faceted regulatory role of polyamines in plant biotechnology, transgenics and secondary metabolomics. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 905-929.	3.6	15

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37	Validation and quantification of major biomarkers in "Mahasudarshan Churna"™- an ayurvedic polyherbal formulation through high-performance thin-layer chromatography. BMC Complementary Medicine and Therapies, 2020, 20, 184.	2.7	14
38	Improved Growth And Colchicine Concentration In &Gloriosa Superba& On Mycorrhizal Inoculation Supplemented With Phosphorus-Fertilizer. Tropical Journal of Obstetrics and Gynaecology, 2014, 11, 439.	0.3	13
39	Comparative HPTLC analysis of bioactive marker barbaloin from in vitro and naturally grown Aloe vera. Revista Brasileira De Farmacognosia, 2016, 26, 161-167.	1.4	13
40	Evaluation of Phytochemicals, Antioxidant, Antibacterial and Antidiabetic Potential of Alpinia galanga and Eryngium foetidum Plants of Manipur (India). Pharmacognosy Journal, 2016, 8, 459-464.	0.8	13
41	HPTLC detection of altitudinal variation of the potential antivenin stigmasterol in different populations of the tropical ethnic antidote Rauvolfia serpentina. Asian Pacific Journal of Tropical Medicine, 2014, 7, S540-S545.	0.8	12
42	Assessment of genetic diversity among different population of five Swertia species by using molecular and phytochemical markers. Industrial Crops and Products, 2019, 138, 111569.	5.2	12
43	Biotechnological interventions and genetic diversity assessment in Swertia sp.: a myriad source of valuable secondary metabolites. Applied Microbiology and Biotechnology, 2021, 105, 4427-4451.	3.6	12
44	HPTLC quantification of diosgenin in Dioscorea deltoidea: Evaluation of extraction efficacy, organ selection, drying method and seasonal variation. South African Journal of Botany, 2021, 138, 386-393.	2.5	12
45	Endophytes producing podophyllotoxin from Podophyllum sp. and other plants: A review on isolation, extraction and bottlenecks. South African Journal of Botany, 2020, 134, 303-313.	2.5	10
46	Chemotaxonomy of the ethnic antidote Aristolochia indica for aristolochic acid content: Implications of anti-phospholipase activity and genotoxicity study. Journal of Ethnopharmacology, 2021, 266, 113416.	4.1	10
47	CRISPR/Cas9-mediated genome editing is revolutionizing the improvement of horticultural crops: Recent advances and future prospects. Scientia Horticulturae, 2021, 289, 110476.	3.6	10
48	Unraveling the promise and limitations of CRISPR/Cas system in natural product research: Approaches and challenges. Biotechnology Journal, 2022, 17, e2100507.	3.5	10
49	Isolation and Characterization of Phosphate Solubilizing Bacteria from Rhizosphere of Dioscorea alata Stimulating Growth and Diosgenin Production. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2017, 87, 1143-1152.	1.0	9
50	Biotechnological strategies for production of camptothecin from fungal and bacterial endophytes. South African Journal of Botany, 2020, 134, 135-145.	2.5	9
51	Screening the elite chemotypes of Gloriosa superba L. in India for the production of anticancer colchicine: simultaneous microwave-assisted extraction and HPTLC studies. BMC Plant Biology, 2021, 21, 77.	3.6	9
52	Ameliorative Potential of Aqueous Root Extract of Withania somnifera Against Paracetamol Induced Liver Damage in Mice. Pharmacologia, 2013, 4, 89-94.	0.3	9
53	Biotechnological interventions of in vitro propagation and production of "valuable secondary metabolites in Stevia rebaudiana. Applied Microbiology and Biotechnology, 2021, 105, 8593-8614.	3.6	9
54	Promising botanical-derived monoamine oxidase (MAO) inhibitors: pharmacological aspects and structure-activity studies. South African Journal of Botany, 2022, 146, 127-145.	2.5	9

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55	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.	5.2	9
56	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.	5.2	8
57	Mitigation of heat stress responses in crops using nitrate primed seeds. <i>South African Journal of Botany</i> , 2021, 140, 25-36.	2.5	8
58	In vitro tuberization, genetic, and phytochemical fidelity assessment of <i>Dioscorea deltoidea</i> . <i>Industrial Crops and Products</i> , 2022, 175, 114174.	5.2	8
59	Biotechnology for propagation and secondary metabolite production in <i>Bacopa monnieri</i> . <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 1837-1854.	3.6	8
60	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> , 2022, 22, 2347-2377.	3.4	8
61	Comparative HPTLC Analysis of Antioxidant Compound Gallic Acid from <i>in vitro</i> and Naturally Grown <i>Stevia rebaudiana</i> . <i>Journal of Biologically Active Products From Nature</i> , 2015, 5, 397-405.	0.3	7
62	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.	1.1	7
63	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.	2.5	7
64	Phytotherapy for Attention Deficit Hyperactivity Disorder (ADHD): A Systematic Review and Meta-analysis. <i>Frontiers in Pharmacology</i> , 2022, 13, 827411.	3.5	7
65	Biotechnological interventions and indole alkaloid production in <i>Rauvolfia serpentina</i> . <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 4867-4883.	3.6	7
66	HPTLC Analysis of the Antioxidant and Possible Antidiabetic Chlorogenic Acid in the <i>in situ</i> and <i>in vitro</i> Populations of the Low-calorie Sweetener <i>Stevia rebaudiana</i> (Bert.) Bertoni. <i>Analytical Chemistry Letters</i> , 2018, 8, 872-881.	1.0	6
67	Arbuscular Mycorrhizal Fungi: Effects on Secondary Metabolite Production in Medicinal Plants. , 2018, , 507-538.		5
68	<i>Hemidesmus indicus</i> L. Br.: critical assessment of in vitro biotechnological advancements and perspectives. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 8517-8548.	3.6	5
69	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.	1.0	5
70	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.	3.3	5
71	Brassinosteroids and their analogs: Feedback in plants under in vitro condition. <i>South African Journal of Botany</i> , 2021, 143, 256-265.	2.5	5
72	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.	2.5	5

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73	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.	0.3	5
74	Development of Diagnostic Microscopic and Chemical Markers of Some <i>Euphorbia</i> Latexes. <i>Journal of Integrative Plant Biology</i> , 2006, 48, 1115-1121.	8.5	4
75	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.	0.3	4
76	Establishment of adventitious root culture from leaf explants of <i>Plumbago zeylanica</i> : an endangered medicinal plant. <i>Vegetos</i> , 2022, 35, 276-280.	1.5	4
77	Biotechnology for micropropagation and camptothecin production in <i>Ophiorrhiza</i> sp.. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 3851-3877.	3.6	4
78	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.	3.6	3
79	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.	2.5	3
80	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.	1.6	2
81	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.	1.8	2
82	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.	1.8	2
83	Current Knowledge of <i>Cinnamomum</i> Species: A Review on the Bioactive Components, Pharmacological Properties, Analytical and Biotechnological Studies. , 2020, , 127-164.		2
84	<i>Swertia</i> spp.: A Potential Source of High-Value Bioactive Components, Pharmacology, and Analytical Techniques. , 2020, , 165-213.		2
85	<i>Bacopa monnieri</i> : The Neuroprotective Elixir from the East-Phytochemistry, Pharmacology, and Biotechnological Improvement. , 2020, , 97-126.		2
86	CRISPR/Cas Genome Editing in Engineering Plant Secondary Metabolites of Therapeutic Benefits. , 2022, , 187-208.		2
87	Knowledge and intelligent computing techniques in bioinformatics. <i>International Journal of Computational Biology and Drug Design</i> , 2016, 9, 173.	0.3	1
88	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.	0.2	1
89	Anti-insomniac Botanicals and Natural Products: Pre-clinical and Clinical Evidences. <i>Journal of Biologically Active Products From Nature</i> , 2018, 8, 295-311.	0.3	1
90	Phytoestrogens as Anticancer Therapeutics: A Retrospective and Future Perspectives. <i>Journal of Biologically Active Products From Nature</i> , 2019, 9, 179-196.	0.3	1

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91	Conservation Strategy for African Medicinal Species: In Vitro Biotechnological Approach. <i>Phyton</i> , 2020, 89, 779-794.	0.7	1
92	Improved performance of the switched inductor quasi Z-source inverter. , 2016, , .		0
93	Biotechnological Advances in Lychee (<i>Litchi chinensis</i>) and Their Future Implication in Improvement of Crop. , 2017, , 59-99.		0
94	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.	0.3	0
95	Recent advances and future prospects of indole alkaloids producing endophytes from <i>Catharanthus roseus</i> . , 2021, , 449-472.		0
96	Enzyme Inhibition Activity Both in vitro and in silico Screening of Triphala Plant Extracts on Phospholipase A2. <i>International Journal of Pharmaceutical Investigation</i> , 2021, 11, 158-164.	0.3	0
97	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.	0.6	0
98	Title is missing!. , 2020, 15, e0242944.		0
99	Title is missing!. , 2020, 15, e0242944.		0
100	Title is missing!. , 2020, 15, e0242944.		0
101	Title is missing!. , 2020, 15, e0242944.		0
102	Title is missing!. , 2020, 15, e0242944.		0
103	Title is missing!. , 2020, 15, e0242944.		0