

Vivekananda Mandal

List of Publications by Year in descending order

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73
papers

1,251
citations

361296

20
h-index

395590

33
g-index

76
all docs

76
docs citations

76
times ranked

1393
citing authors

#	ARTICLE	IF	CITATIONS
1	Microwave assisted extraction of curcumin by sampleâ€“solvent dual heating mechanism using Taguchi L9 orthogonal design. Journal of Pharmaceutical and Biomedical Analysis, 2008, 46, 322-327.	1.4	143
2	Critical analysis of research trends and issues in microwave assisted extraction of phenolics: Have we really done enough. TrAC - Trends in Analytical Chemistry, 2016, 85, 140-152.	5.8	88
3	Green synthesis of antibacterial and antifungal silver nanoparticles using Citrus limetta peel extract: Experimental and theoretical studies. Journal of Environmental Chemical Engineering, 2020, 8, 104019.	3.3	88
4	Recent advances in herbal medicine for treatment of liver diseases. Pharmaceutical Biology, 2011, 49, 970-988.	1.3	86
5	Design and performance evaluation of a microwave based low carbon yielding extraction technique for naturally occurring bioactive triterpenoid: Oleanolic acid. Biochemical Engineering Journal, 2010, 50, 63-70.	1.8	79
6	Effect of prebiotics on bacteriocin production and cholesterol lowering activity of <i>Pediococcus acidilactici</i> LAB 5. World Journal of Microbiology and Biotechnology, 2009, 25, 1837-1847.	1.7	50
7	A unique model of gravity assisted solvent free microwave based extraction of essential oil from mentha leaves ensuring biorefinery of leftover waste biomass for extraction of nutraceuticals: Towards cleaner and greener technology. Journal of Cleaner Production, 2019, 225, 587-598.	4.6	37
8	Green synthesis of antimicrobial silver nanoparticles using fruit extract of <i>Glycosmis pentaphylla</i> and its theoretical explanations. Journal of Molecular Structure, 2022, 1247, 131361.	1.8	35
9	Microwaveâ€“assisted extraction of total bioactive saponin fraction from <i>Gymnema sylvestre</i> with reference to gymnemagenin: a potential biomarker. Phytochemical Analysis, 2009, 20, 491-497.	1.2	32
10	Critical analysis of microwave hydrodiffusion and gravity as a green tool for extraction of essential oils: Time to replace traditional distillation. Trends in Food Science and Technology, 2019, 92, 12-21.	7.8	32
11	Effective Control of Type 2 Diabetes through Antioxidant Defense by Edible Fruits of <i>Diospyros peregrina</i> . Evidence-based Complementary and Alternative Medicine, 2011, 2011, 1-7.	0.5	30
12	Production and partial characterisation of an inducerâ€“dependent novel antifungal compound(s) by <i>Pediococcus acidilactici</i> LAB 5. Journal of the Science of Food and Agriculture, 2013, 93, 2445-2453.	1.7	29
13	L-theanine: A potential multifaceted natural bioactive amide as health supplement. Asian Pacific Journal of Tropical Biomedicine, 2017, 7, 842-848.	0.5	28
14	Synthesis of a new acetate bridged Cu building block generated 1D polymer and studies on structural, magnetic, antibacterial and anticancer properties. New Journal of Chemistry, 2019, 43, 2019-2029.	1.4	28
15	Design of Experiment Approach for the Process Optimisation of Microwave Assisted Extraction of Lupeol from <i>Ficus racemosa</i> Leaves Using Response Surface Methodology. Phytochemical Analysis, 2013, 24, 230-247.	1.2	26
16	A Brief Understanding of Process Optimisation in Microwaveâ€“assisted Extraction of Botanical Materials: Options and Opportunities with Chemometric Tools. Phytochemical Analysis, 2014, 25, 1-12.	1.2	25
17	Molecular Interaction, Antimicrobial, Antioxidant, Cytotoxic and Magnetic Properties of Mn ¹² Benzoate. Journal of Cluster Science, 2020, 31, 575-589.	1.7	23
18	A critical analysis of publication trends from 2005â€“2015 in microwave assisted extraction of botanicals: How far we have come and the road ahead. TrAC - Trends in Analytical Chemistry, 2016, 82, 100-108.	5.8	22

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19	In vitro antibacterial potential of <i>Hydrocotyle javanica</i> Thunb.. Asian Pacific Journal of Tropical Disease, 2016, 6, 54-62.	0.5	22
20	Isolation and Characterization of Pediocin NV 5 Producing <i>Pediococcus acidilactici</i> LAB 5 from Vacuum-Packed Fermented Meat Product. Indian Journal of Microbiology, 2011, 51, 22-29.	1.5	20
21	Optimized culture conditions for bacteriocin production by <i>Pediococcus acidilactici</i> LAB 5 and its characterization. Indian Journal of Biochemistry and Biophysics, 2008, 45, 106-10.	0.2	18
22	Detection, Isolation and Partial Characterization of Antifungal Compound(s) Produced by <i>Pediococcus acidilactici</i> LAB 5. Natural Product Communications, 2007, 2, 1934578X0700200.	0.2	17
23	Strategizing method optimization of microwave-assisted extraction of plant phenolics by developing standard working principles for universal robust optimization. Analytical Methods, 2017, 9, 2089-2103.	1.3	17
24	Physicochemical and elemental studies of <i>Hydrocotyle javanica</i> Thunb. for standardization as herbal drug. Asian Pacific Journal of Tropical Biomedicine, 2017, 7, 979-986.	0.5	16
25	Facile Green Synthesis of Silver Bionanocomposite with Size Dependent Antibacterial and Synergistic Effects: A Combined Experimental and Theoretical Studies. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 1839-1851.	1.9	16
26	Partial purification, characterization and mode of action of bacteriocins produced by three strains of <i>Pediococcus</i> sp.. Journal of Food Science and Technology, 2019, 56, 2594-2604.	1.4	14
27	Isolation of antimicrobial Tridecanoic acid from <i>Bacillus</i> sp. LBF-01 and its potentialization through silver nanoparticles synthesis: a combined experimental and theoretical studies. Journal of Nanostructure in Chemistry, 2021, 11, 573-587.	5.3	14
28	Mechanisms and Efficacy of Immunobiologic Therapies for Inflammatory Bowel Diseases. International Reviews of Immunology, 2010, 29, 4-37.	1.5	13
29	ASSESSMENT OF ANTIBACTERIAL ACTIVITIES OF PEDIOCIN PRODUCED BY <i>PEDIOCOCCLUS ACIDILACTICI</i> LAB 5. Journal of Food Safety, 2010, 30, 635-651.	1.1	12
30	Anti-inflammatory activity of a polyphenolic enriched extract of <i>Schima wallichii</i> bark. Natural Product Research, 2011, 25, 696-703.	1.0	12
31	Application of <i>Bacillus</i> sp. LBF-01 in <i>Capsicum annum</i> plant reduces the fungicide use against <i>Fusarium oxysporum</i> . Biocatalysis and Agricultural Biotechnology, 2020, 27, 101714.	1.5	11
32	Assessment of traditional knowledge of the antidiabetic plants of Darjeeling and Sikkim Himalayas in the context of recent phytochemical and pharmacological advances. Journal of Integrative Medicine, 2016, 14, 336-358.	1.4	10
33	Extraction of phenolic principles: value addition through effective sample pretreatment and operational improvement. Journal of Food Measurement and Characterization, 2019, 13, 177-186.	1.6	10
34	Physiological and biochemical responses of <i>Amaranthus cruentus</i> to polycyclic aromatic hydrocarbon pollution caused by thermal power units. Environmental Science and Pollution Research, 2020, 27, 14790-14806.	2.7	10
35	Development and validation of TLC-densitometric method for determination of lipid A adjuvant as a bulk and in solid fat nanoemulsions. Biomedical Chromatography, 2015, 29, 1473-1479.	0.8	8
36	In search of suitable extraction technique for large scale commercial production of bioactive fraction for the treatment of diabetes: The case <i>Diospyros melanoxylon</i> Roxb.. Journal of Traditional and Complementary Medicine, 2019, 9, 106-118.	1.5	8

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37	Antimicrobial activity study of a μ_3 -oxo bridged $[\text{Fe}_3\text{O}(\text{PhCO}_2)_6(\text{MeOH})_3](\text{NO}_3)(\text{MeOH})_2]$ cluster. Journal of Molecular Structure, 2017, 1147, 480-486.	1.8	7
38	Critical analysis and mapping of research trends and impact assessment of polyaromatic hydrocarbon accumulation in leaves: let history tell the future. Environmental Science and Pollution Research, 2018, 25, 22464-22474.	2.7	7
39	Green approach to synthesize $\text{Mn}_x\text{Zn}_{1-x}\text{O}$ nanocomposite with enhanced photocatalytic, fluorescence and antibacterial activity. Current Research in Green and Sustainable Chemistry, 2022, 5, 100244.	2.9	7
40	Production and characterization of a broad-spectrum antimicrobial 5-butyl-2-pyridine carboxylic acid from <i>Aspergillus fumigatus</i> nHF-01. Scientific Reports, 2022, 12, 6006.	1.6	7
41	Antidiabetic and antioxidant activity of the methanol extract of <i>Diospyros peregrina</i> fruit on Type I diabetic rats. Pharmaceutical Biology, 2009, 47, 1149-1153.	1.3	6
42	Biocontrol Potential and Growth Promotion Capability of <i>Bacillus</i> sp. LBF-1 for Management of Wilt Disease of <i>Solanum lycopersicum</i> Caused by <i>Fusarium</i> sp.. Russian Agricultural Sciences, 2020, 46, 139-147.	0.1	6
43	Morpho-biochemical and molecular characterization of two new strains of <i>Aspergillus fumigatus</i> nHF-01 and <i>A. fumigatus</i> PPR-01 producing broad-spectrum antimicrobial compounds. Brazilian Journal of Microbiology, 2021, 52, 905-917.	0.8	5
44	Partial characterization of novel inulin-like prebiotic fructooligosaccharides of <i>Sechium edule</i> (Jacq.) Sw. (Cucurbitaceae) tuberous roots. Journal of Food Biochemistry, 2021, 45, e13764.	1.2	5
45	Preclinical and Clinical Trials of Indian Medicinal Plants in Disease Control. , 2020, , 119-142.		5
46	In vitro Hypoglycemic and Antioxidant Activities of <i>Litsea cubeba</i> (Lour.) Pers. fruits, Traditionally used to Cure Diabetes in Darjeeling Hills (India). Pharmacognosy Journal, 2018, 10, s119-s128.	0.3	5
47	Change of Carbon Metabolic Activity of <i>Rhizobium</i> Under Carbon Starvation. Journal of Plant Biochemistry and Biotechnology, 2006, 15, 67-69.	0.9	4
48	A critical biochemical assessment on the antihyperglycemic activity of aqueous fraction of <i>Wattakaka volubilis</i> supported by antioxidant defense. Oriental Pharmacy and Experimental Medicine, 2014, 14, 15-24.	1.2	4
49	Novel fructooligosaccharides of <i>Dioscorea alata</i> L. tuber have prebiotic potentialities. European Food Research and Technology, 0, , 1.	1.6	4
50	Pharmacognostic Standardization of an Ethnomedicinal Aquatic Herb, <i>Monochoria hastata</i> (L.) Solms for its Antibacterial Potentiality. Pharmacognosy Journal, 2018, 10, 533-540.	0.3	4
51	Catalytic Use toward the Redox Reaction of Toxic Industrial Wastes in Innocuous Aqueous Medium and Antibacterial Activity of Novel $\text{Cu}_x\text{Ag}_y\text{Zn}_{1-x-y}\text{O}$ Nanocomposites. ACS Omega, 2021, 6, 29629-29640.	1.6	4
52	A cross talk based critical analysis of solvent free microwave extraction to accentuate it as the new normal for extraction of essential oil: an attempt to overhaul the science of distillation through a comprehensive tutelage. Critical Reviews in Food Science and Nutrition, 2022, , 1-23.	5.4	4
53	Characterization of two new strains of <i>Lactococcus lactis</i> for their probiotic efficacy over commercial synbiotics consortia. Brazilian Journal of Microbiology, 2022, , 1.	0.8	4
54	Microwave hydrodiffusion and gravity model with a blend of high and low power microwave firing for improved yield of phenolics and flavonoids from oyster mushroom. Sustainable Chemistry and Pharmacy, 2020, 17, 100311.	1.6	3

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55	Assessment of Rhizospheric Arbuscular Mycorrhizae Spores in Relation to Soil Characters in the Rice Fields of Malda District, India. Russian Agricultural Sciences, 2020, 46, 48-55.	0.1	3
56	Broad-spectrum antimicrobial efficacy of <i>Pediococcus acidilactici</i> LAB001 against food spoilage and toxigenic bacteria and fungi. Journal of Food Processing and Preservation, 2021, 45, .	0.9	3
57	A status report with critical analysis of research trends in exploring medicinal plants as antiviral: Let us dig into the history to predict the future. Phytotherapy Research, 2021, 35, 4284-4296.	2.8	3
58	Status of Arsenic Toxicity in Ground Water in West Bengal, India: A Review. MOJ Toxicology, 2017, 3, .	0.2	3
59	Anti-enteric efficacy and mode of action of tridecanoic acid methyl ester isolated from <i>Monochoria hastata</i> (L.) Solms leaf. Brazilian Journal of Microbiology, 2022, , 1.	0.8	3
60	Hydro-Priming and Hydration-Dehydration Treatment Improve Seed Invigoration and Biotic Stress Tolerance. Russian Agricultural Sciences, 2019, 45, 35-42.	0.1	2
61	Effect of different stimuli on twitching behavior of endophytic bacteria isolated from <i>Loranthus</i> sp. Jacq.. Antonie Van Leeuwenhoek, 2020, 113, 1489-1505.	0.7	2
62	Developing Microwave Based Extraction as a Tool to Valorize Extraction of Phenolics to Boost Nutraceutical Industries: A Case Study on <i>Taraxcum officinale</i> . Current Bioactive Compounds, 2019, 15, 249-256.	0.2	2
63	Extraction and volatile compounds profiling of the bioactive fraction of <i>Monochoria hastata</i> (L.) solms. Pharmacognosy Magazine, 2020, 16, 517.	0.3	2
64	Inhibitory effect of compounds extracted from <i>Monochoria hastata</i> (L.) Solms on SARS-CoV-2 main protease: An insight from molecular docking and MD-simulation studies. Journal of Molecular Structure, 2022, 1257, 132644.	1.8	2
65	New Health Potentials of Orally Consumed Probiotic Microorganisms. Microbiology Monographs, 2011, , 167-189.	0.3	1
66	Harvesting Strategy for Different Mango Varieties Based on Comparative Sugar and Phenol Contents. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2021, 91, 1-11.	0.4	1
67	Correction to: Preclinical and Clinical Trials of Indian Medicinal Plants in Disease Control. , 2020, , C1-C1.		1
68	Fundamentals of Microwave-Based Sample Preparation for Plant-Based Drug Discovery. , 2018, , 633-642.		0
69	Niche Competition and Mineral Utilization between Weeds in Standing Crop Fields: A Systematic Study. Russian Agricultural Sciences, 2020, 46, 476-483.	0.1	0
70	Role of Phytomedicine in Alleviating Oxidative Stress-Mediated Vascular Complications in Diabetes. , 2021, , 141-162.		0
71	Post-Green Revolution Degradation of Agricultural Land in India: Role of Mycorrhizae in the Sustainability of Agriculture and Ecosystems. Advances in Science, Technology and Innovation, 2022, , 349-357.	0.2	0
72	Antibiofilm and antimicrobial activity of biosurfactants from two <i>Lactiplantibacillus pentosus</i> strains against food and topical pathogens. Journal of Food Processing and Preservation, 2022, 46, .	0.9	0

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73	In vivo and network pharmacological analysis of the antidiabetic and antihyperlipidemic metabolites of <i>Litsea cubeba</i> fruits. <i>South African Journal of Botany</i> , 2022, 149, 516-529.	1.2	0