Vivekananda Mandal

List of Publications by Year
in descending order

73	1,251	361296	395590
papers	citations	20 h-index	33 g-index

76	76	76	1393
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Green synthesis of antimicrobial silver nanoparticles using fruit extract of Glycosmis pentaphylla and its theoretical explanations. Journal of Molecular Structure, 2022, 1247, 131361.	1.8	35
2	Green approach to synthesize MnxZn1-xO nanocomposite with enhanced photocatalytic, fluorescence and antibacterial activity. Current Research in Green and Sustainable Chemistry, 2022, 5, 100244.	2.9	7
3	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
4	Characterization of two new strains of Lactococcus lactis for their probiotic efficacy over commercial synbiotics consortia. Brazilian Journal of Microbiology, 2022, , 1.	0.8	4
5	Anti-enteric efficacy and mode of action of tridecanoic acid methyl ester isolated from Monochoria hastata (L.) Solms leaf. Brazilian Journal of Microbiology, 2022, , 1.	0.8	3
6	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
7	Production and characterization of a broad-spectrum antimicrobial 5-butyl-2-pyridine carboxylic acid from Aspergillus fumigatus nHF-01. Scientific Reports, 2022, 12, 6006.	1.6	7
8	Inhibitory effect of compounds extracted from Monochoria hastata (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
9	Antibiofilm and antimicrobial activity of biosurfactants from two Lactiplantibacillus pentosus strains against food and topical pathogens. Journal of Food Processing and Preservation, 2022, 46, .	0.9	0
10	In vivo and network pharmacological analysis of the antidiabetic and antihyperlipidemic metabolites of Litsea cubeba fruits. South African Journal of Botany, 2022, 149, 516-529.	1.2	0
11	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
12	Broadâ€spectrum antimicrobial efficacy of Pediococcus acidilactici LAB001 against food spoilage and toxigenic bacteria and fungi. Journal of Food Processing and Preservation, 2021, 45, .	0.9	3
13	Isolation of antimicrobial Tridecanoic acid from Bacillus 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
14	Morpho-biochemical and molecular characterization of two new strains of Aspergillus fumigatus nHF-01 and A. fumigatus PPR-01 producing broad-spectrum antimicrobial compounds. Brazilian Journal of Microbiology, 2021, 52, 905-917.	0.8	5
15	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
16	Partial characterization of novel inulinâ€like prebiotic fructooligosaccharides of Sechium edule (Jacq.) Sw. (Cucurbitaceae) tuberous roots. Journal of Food Biochemistry, 2021, 45, e13764.	1.2	5
17	Role of Phytomedicine in Alleviating Oxidative Stress-Mediated Vascular Complications in Diabetes. , 2021, , 141-162.		0
18	Catalytic Use toward the Redox Reaction of Toxic Industrial Wastes in Innocuous Aqueous Medium and Antibacterial Activity of Novel CuxAgxZn1â€“2xO Nanocomposites. ACS Omega, 2021, 6, 29629-29640.	1.6	4

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19	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
20	Molecular Interaction, Antimicrobial, Antioxidant, Cytotoxic and Magnetic Properties of Mn12 Benzoate. Journal of Cluster Science, 2020, 31, 575-589.	1.7	23
21	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
22	Application of Bacillus sp. LBF-01 in Capsicum annuum plant reduces the fungicide use against Fusarium oxysporum. Biocatalysis and Agricultural Biotechnology, 2020, 27, 101714.	1.5	11
23	Effect of different stimuli on twitching behavior of endophytic bacteria isolated from Loranthus sp. Jacq.. Antonie Van Leeuwenhoek, 2020, 113, 1489-1505.	0.7	2
24	Niche Competition and Mineral Utilization between Weeds in Standing Crop Fields: A Systematic Study. Russian Agricultural Sciences, 2020, 46, 476-483.	0.1	0
25	Biocontrol Potential and Growth Promotion Capability of Bacillus sp. LBF-1 for Management of Wilt Disease of Solanum lycopersicum Caused by Fusarium sp.. Russian Agricultural Sciences, 2020, 46, 139-147.	0.1	6
26	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
27	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
28	Physiological and biochemical responses of Amaranthus cruentus to polycyclic aromatic hydrocarbon pollution caused by thermal power units. Environmental Science and Pollution Research, 2020, 27, 14790-14806.	2.7	10
29	Preclinical and Clinical Trials of Indian Medicinal Plants in Disease Control. , 2020, , 119-142.		5
30	Correction to: Preclinical and Clinical Trials of Indian Medicinal Plants in Disease Control. , 2020, , C1-C1.		1
31	Extraction and volatile compounds profiling of the bioactive fraction of Monochoria hastata (L.) solms. Pharmacognosy Magazine, 2020, 16, 517.	0.3	2
32	In search of suitable extraction technique for large scale commercial production of bioactive fraction for the treatment of diabetes: The case Diospyros melanoxylon Roxb.. Journal of Traditional and Complementary Medicine, 2019, 9, 106-118.	1.5	8
33	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
34	Synthesis of a new acetate bridged Cu(<scp>ii</scp>) 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
35	Hydro-Priming and Hydration-Dehydration Treatment Improve Seed Invigoration and Biotic Stress Tolerance. Russian Agricultural Sciences, 2019, 45, 35-42.	0.1	2
36	Partial purification, characterization and mode of action of bacteriocins produced by three strains of Pediococcus sp.. Journal of Food Science and Technology, 2019, 56, 2594-2604.	1.4	14

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37	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
38	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
39	Developing Microwave Based Extraction as a Tool to Valorize Extraction of Phenolics to Boost Nutraceutical Industries: A Case Study on Taraxcum officinale. Current Bioactive Compounds, 2019, 15, 249-256.	0.2	2
40	Fundamentals of Microwave-Based Sample Preparation for Plant-Based Drug Discovery. , 2018, , 633-642.		0
41	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
42	Pharmacognostic Standardization of an Ethnomedicinal Aquatic Herb, Monochoria hastata (L.) Solms for its Antibacterial Potentiality. Pharmacognosy Journal, 2018, 10, 533-540.	0.3	4
43	In vitro Hypoglycemic and Antioxidant Activities of Litsea cubeba (Lour.) Pers. fruits, Traditionally used to Cure Diabetes in Darjeeling Hills (India). Pharmacognosy Journal, 2018, 10, s119-s128.	0.3	5
44	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
45	Physicochemical and elemental studies of Hydrocotyle javanica Thunb. for standardization as herbal drug. Asian Pacific Journal of Tropical Biomedicine, 2017, 7, 979-986.	0.5	16
46	l -theanine: A potential multifaceted natural bioactive amide as health supplement. Asian Pacific Journal of Tropical Biomedicine, 2017, 7, 842-848.	0.5	28
47	Antimicrobial activity study of a Î¼3-oxo bridged [Fe3O(PhCO2)6(MeOH)3](NO3)(MeOH)2] cluster. Journal of Molecular Structure, 2017, 1147, 480-486.	1.8	7
48	Status of Arsenic Toxicity in Ground Water in West Bengal, India: A Review. MOJ Toxicology, 2017, 3, .	0.2	3
49	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
50	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
51	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
52	In vitro antibacterial potential of Hydrocotyle javanica Thunb.. Asian Pacific Journal of Tropical Disease, 2016, 6, 54-62.	0.5	22
53	Development and validation of TLCâ€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
54	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

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55	A critical biochemical assessment on the antihyperglycemic activity of aqueous fraction of Wattakaka volubilis supported by antioxidant defense. Oriental Pharmacy and Experimental Medicine, 2014, 14, 15-24.	1.2	4
56	Design of Experiment Approach for the Process Optimisation of Microwave Assisted Extraction of Lupeol from Ficus racemosa Leaves Using Response Surface Methodology. Phytochemical Analysis, 2013, 24, 230-247.	1.2	26
57	Production and partial characterisation of an inducerâ€dependent novel antifungal compound(s) by Pediococcus acidilactici <scp>LAB</scp> 5. Journal of the Science of Food and Agriculture, 2013, 93, 2445-2453.	1.7	29
58	Anti-inflammatory activity of a polyphenolic enriched extract ofSchima wallichiibark. Natural Product Research, 2011, 25, 696-703.	1.0	12
59	New Health Potentials of Orally Consumed Probiotic Microorganisms. Microbiology Monographs, 2011, , 167-189.	0.3	1
60	Recent advances in herbal medicine for treatment of liver diseases. Pharmaceutical Biology, 2011, 49, 970-988.	1.3	86
61	Isolation and Characterization of Pediocin NV 5 Producing Pediococcus acidilactici LAB 5 from Vacuum-Packed Fermented Meat Product. Indian Journal of Microbiology, 2011, 51, 22-29.	1.5	20
62	Effective Control of Type 2 Diabetes through Antioxidant Defense by Edible Fruits ofDiospyros peregrina. Evidence-based Complementary and Alternative Medicine, 2011, 2011, 1-7.	0.5	30
63	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
64	ASSESSMENT OF ANTIBACTERIAL ACTIVITIES OF PEDIOCIN PRODUCED BY PEDIOCOCCUS ACIDILACTICI LAB 5. Journal of Food Safety, 2010, 30, 635-651.	1.1	12
65	Mechanisms and Efficacy of Immunobiologic Therapies for Inflammatory Bowel Diseases. International Reviews of Immunology, 2010, 29, 4-37.	1.5	13
66	Effect of prebiotics on bacteriocin production and cholesterol lowering activity of Pediococcus acidilactici LAB 5. World Journal of Microbiology and Biotechnology, 2009, 25, 1837-1847.	1.7	50
67	Microwaveâ€assisted extraction of total bioactive saponin fraction from Gymnema sylvestre with reference to gymnemagenin: a potential biomarker. Phytochemical Analysis, 2009, 20, 491-497.	1.2	32
68	Antidiabetic and antioxidant activity of the methanol extract ofDiospyros peregrinafruit on Type I diabetic rats. Pharmaceutical Biology, 2009, 47, 1149-1153.	1.3	6
69	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
70	Optimized culture conditions for bacteriocin production by Pediococcus acidilactici LAB 5 and its characterization. Indian Journal of Biochemistry and Biophysics, 2008, 45, 106-10.	0.2	18
71	Detection, Isolation and Partial Characterization of Antifungal Compound(s) Produced by Pediococcus acidilactici LAB 5. Natural Product Communications, 2007, 2, 1934578X0700200.	0.2	17
72	Change of Carbon Metabolic Activity of Rhizobium Under Carbon Starvation. Journal of Plant Biochemistry and Biotechnology, 2006, 15, 67-69.	0.9	4

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73	Novel fructooligosaccharides of Dioscorea alata L. tuber have prebiotic potentialities. European Food Research and Technology, 0, , 1.	1.6	4