

Vikas Pruthi

List of Publications by Year in descending order

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79
papers

3,772
citations

109264

35
h-index

133188

59
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85
all docs

85
docs citations

85
times ranked

5046
citing authors

#	ARTICLE	IF	CITATIONS
1	Potential applications of ferulic acid from natural sources. <i>Biotechnology Reports (Amsterdam)</i> , Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.1	640
2	Sustainable biodiesel production from oleaginous yeasts utilizing hydrolysates of various non-edible lignocellulosic biomasses. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 62, 836-855.	8.2	180
3	Assessment of fuel properties on the basis of fatty acid profiles of oleaginous yeast for potential biodiesel production. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 77, 604-616.	8.2	164
4	Rapid efficient synthesis and characterization of silver, gold, and bimetallic nanoparticles from the medicinal plant <i>Plumbago zeylanica</i> and their application in biofilm control. <i>International Journal of Nanomedicine</i> , 2014, 9, 2635.	3.3	127
5	Biodiesel production from non-edible lignocellulosic biomass of <i>Cassia fistula</i> L. fruit pulp using oleaginous yeast <i>Rhodospiridium kratochvilovae</i> HIMP1. <i>Bioresource Technology</i> , 2015, 197, 91-98.	4.8	107
6	Synergistic dynamics of nitrogen and phosphorous influences lipid productivity in <i>Chlorella minutissima</i> for biodiesel production. <i>Bioresource Technology</i> , 2016, 213, 79-87.	4.8	102
7	Converting paper mill sludge into neutral lipids by oleaginous yeast <i>Cryptococcus vishniacii</i> for biodiesel production. <i>Bioresource Technology</i> , 2016, 213, 96-102.	4.8	97
8	Biological treatment of pulp and paper industry effluent by oleaginous yeast integrated with production of biodiesel as sustainable transportation fuel. <i>Journal of Cleaner Production</i> , 2017, 142, 2858-2864.	4.6	79
9	Boosting accumulation of neutral lipids in <i>Rhodospiridium kratochvilovae</i> HIMP1 grown on hemp (<i>Cannabis sativa</i> Linn) seed aqueous extract as feedstock for biodiesel production. <i>Bioresource Technology</i> , 2014, 165, 214-222.	4.8	70
10	Synthesis and characterization of crosslinked gellan/PVA nanofibers for tissue engineering application. <i>Materials Science and Engineering C</i> , 2016, 67, 304-312.	3.8	68
11	A novel gellan/PVA nanofibrous scaffold for skin tissue regeneration: Fabrication and characterization. <i>Carbohydrate Polymers</i> , 2016, 136, 851-859.	5.1	68
12	Efficacy of ferulic acid encapsulated chitosan nanoparticles against <i>Candida albicans</i> biofilm. <i>Microbial Pathogenesis</i> , 2016, 95, 21-31.	1.3	67
13	Ofloxacin loaded gellan/PVA nanofibers - Synthesis, characterization and evaluation of their gastroretentive/mucoadhesive drug delivery potential. <i>Materials Science and Engineering C</i> , 2017, 71, 611-619.	3.8	67
14	Leveraging algal omics to reveal potential targets for augmenting TAG accumulation. <i>Biotechnology Advances</i> , 2018, 36, 1274-1292.	6.0	65
15	In-vivo sustained release of nanoencapsulated ferulic acid and its impact in induced diabetes. <i>Materials Science and Engineering C</i> , 2018, 92, 381-392.	3.8	65
16	Antibacterial and enzymatic activity of microbial community during wastewater treatment by pilot scale vermifiltration system. <i>Bioresource Technology</i> , 2014, 166, 132-141.	4.8	61
17	Extrapolation of phenolic compounds as multi-target agents against cancer and inflammation. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 2355-2369.	2.0	60
18	Bioremediation of domestic and industrial wastewaters integrated with enhanced biodiesel production using novel oleaginous microalgae. <i>Environmental Science and Pollution Research</i> , 2016, 23, 20997-21007.	2.7	57

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19	Co-culturing of oleaginous microalgae and yeast: paradigm shift towards enhanced lipid productivity. <i>Environmental Science and Pollution Research</i> , 2019, 26, 16952-16973.	2.7	57
20	Biodegradation of phenol via meta cleavage pathway triggers de novo TAG biosynthesis pathway in oleaginous yeast. <i>Journal of Hazardous Materials</i> , 2017, 340, 47-56.	6.5	56
21	RNA-Seq of Guar (<i>Cyamopsis tetragonoloba</i> , L. Taub.) Leaves: De novo Transcriptome Assembly, Functional Annotation and Development of Genomic Resources. <i>Frontiers in Plant Science</i> , 2017, 8, 91.	1.7	54
22	Characterization and anticancer potential of ferulic acid-loaded chitosan nanoparticles against ME-180 human cervical cancer cell lines. <i>Applied Nanoscience (Switzerland)</i> , 2016, 6, 803-813.	1.6	53
23	Fostering triacylglycerol accumulation in novel oleaginous yeast <i>Cryptococcus psychrotolerans</i> IITRFD utilizing groundnut shell for improved biodiesel production. <i>Bioresource Technology</i> , 2017, 242, 113-120.	4.8	52
24	Small-scale phyco-mitigation of raw urban wastewater integrated with biodiesel production and its utilization for aquaculture. <i>Bioresource Technology</i> , 2020, 297, 122489.	4.8	51
25	NMR-Based Metabolomic Approach To Elucidate the Differential Cellular Responses during Mitigation of Arsenic(III, V) in a Green Microalga. <i>ACS Omega</i> , 2018, 3, 11847-11856.	1.6	50
26	Synergistic effect of fermentable and non-fermentable carbon sources enhances TAG accumulation in oleaginous yeast <i>Rhodospiridium kratochvilovae</i> HIMPA1. <i>Bioresource Technology</i> , 2015, 188, 136-144.	4.8	48
27	A novel rapid ultrasonication-microwave treatment for total lipid extraction from wet oleaginous yeast biomass for sustainable biodiesel production. <i>Ultrasonics Sonochemistry</i> , 2019, 51, 504-516.	3.8	47
28	Kinetics of Synthesis of Gold Nanoparticles by <i>Acinetobacter</i> sp. SW30 Isolated from Environment. <i>Indian Journal of Microbiology</i> , 2016, 56, 439-444.	1.5	46
29	Microwave assisted $\hat{\text{T}}^{\text{e}}$ -carrageenan capped silver nanocomposites for eradication of bacterial biofilms. <i>Carbohydrate Polymers</i> , 2019, 206, 854-862.	5.1	45
30	Process optimization for fabrication of gellan based electrospun nanofibers. <i>Carbohydrate Polymers</i> , 2014, 109, 16-21.	5.1	44
31	Structural Characterization and Antimicrobial Activity of a Biosurfactant Obtained From <i>Bacillus pumilus</i> DSVP18 Grown on Potato Peels. <i>Jundishapur Journal of Microbiology</i> , 2015, 8, e21257.	0.2	43
32	Delineating the molecular responses of a halotolerant microalga using integrated omics approach to identify genetic engineering targets for enhanced TAG production. <i>Biotechnology for Biofuels</i> , 2019, 12, 2.	6.2	42
33	Accelerated in vivo wound healing evaluation of microbial glycolipid containing ointment as a transdermal substitute. <i>Biomedicine and Pharmacotherapy</i> , 2017, 94, 1186-1196.	2.5	41
34	Biosurfactant production by <i>Pseudomonas aeruginosa</i> DSVP20 isolated from petroleum hydrocarbon-contaminated soil and its physicochemical characterization. <i>Environmental Science and Pollution Research</i> , 2015, 22, 17636-17643.	2.7	39
35	Effectiveness of Phytoactive Molecules on Transcriptional Expression, Biofilm Matrix, and Cell Wall Components of <i>Candida glabrata</i> and Its Clinical Isolates. <i>ACS Omega</i> , 2018, 3, 12201-12214.	1.6	39
36	Cinnamaldehyde incorporated gellan/PVA electrospun nanofibers for eradicating <i>Candida</i> biofilm. <i>Materials Science and Engineering C</i> , 2021, 119, 111450.	3.8	39

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37	Biomedical applications of ferulic acid encapsulated electrospun nanofibers. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2015, 8, 36-44.	2.1	38
38	Antibiofilm activity of quercetin-encapsulated cytocompatible nanofibers against <i>Candida albicans</i> . <i>Journal of Bioactive and Compatible Polymers</i> , 2013, 28, 652-665.	0.8	37
39	Drug functionalized microbial polysaccharide based nanofibers as transdermal substitute. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 1375-1385.	1.7	35
40	Structural elucidation and molecular docking of ferulic acid from <i>Parthenium hysterophorus</i> possessing COX-2 inhibition activity. <i>3 Biotech</i> , 2015, 5, 541-551.	1.1	34
41	Augmented lipid accumulation in ethyl methyl sulphonate mutants of oleaginous microalga for biodiesel production. <i>Bioresource Technology</i> , 2017, 242, 121-127.	4.8	34
42	Delineating the Biofilm Inhibition Mechanisms of Phenolic and Aldehydic Terpenes against <i>Cryptococcus neoformans</i> . <i>ACS Omega</i> , 2019, 4, 17634-17648.	1.6	33
43	Antiproliferative activity of ferulic acid-encapsulated electrospun PLGA/PEO nanofibers against MCF-7 human breast carcinoma cells. <i>3 Biotech</i> , 2015, 5, 303-315.	1.1	32
44	Exploration of interaction mechanism of tyrosol as a potent anti-inflammatory agent. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 382-397.	2.0	32
45	Ferulic acid amide derivatives as anticancer and antioxidant agents: synthesis, thermal, biological and computational studies. <i>Medicinal Chemistry Research</i> , 2016, 25, 1175-1192.	1.1	30
46	Impact of oxidative and osmotic stresses on <i>Candida albicans</i> biofilm formation. <i>Biofouling</i> , 2016, 32, 897-909.	0.8	30
47	Quantum chemical, ADMET and molecular docking studies of ferulic acid amide derivatives with a novel anticancer drug target. <i>Medicinal Chemistry Research</i> , 2017, 26, 1822-1834.	1.1	30
48	Aromatic hydrocarbon biodegradation activates neutral lipid biosynthesis in oleaginous yeast. <i>Bioresource Technology</i> , 2018, 255, 273-280.	4.8	27
49	Chemistry and Biology of Farnesol and its Derivatives: Quorum Sensing Molecules with Immense Therapeutic Potential. <i>Current Topics in Medicinal Chemistry</i> , 2019, 18, 1937-1954.	1.0	27
50	Synchronized nutrient stress conditions trigger the diversion of CDP-DG pathway of phospholipids synthesis towards de novo TAG synthesis in oleaginous yeast escalating biodiesel production. <i>Energy</i> , 2017, 139, 962-974.	4.5	26
51	Modulation of <i>Candida albicans</i> Biofilm by Different Carbon Sources. <i>Mycopathologia</i> , 2016, 181, 341-352.	1.3	25
52	Insights into interplay of immunopathophysiological events and molecular mechanistic cascades in psoriasis and its associated comorbidities. <i>Journal of Autoimmunity</i> , 2021, 118, 102614.	3.0	24
53	<i>Candida albicans</i> biofilm inhibition by synergistic action of terpenes and fluconazole. <i>Indian Journal of Experimental Biology</i> , 2013, 51, 1032-7.	0.5	22
54	Pretreated algal bloom as a substantial nutrient source for microalgae cultivation for biodiesel production. <i>Bioresource Technology</i> , 2017, 242, 152-160.	4.8	21

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55	Utilization of Clarified Butter Sediment Waste as a Feedstock for Cost-Effective Production of Biodiesel. <i>Foods</i> , 2019, 8, 234.	1.9	21
56	Detoxification mechanism of organophosphorus pesticide via carboxylestrase pathway that triggers de novo TAG biosynthesis in oleaginous microalgae. <i>Aquatic Toxicology</i> , 2019, 209, 49-55.	1.9	21
57	Novel sucrose lipid produced by <i>Serratia marcescens</i> and its application in enhanced oil recovery. <i>Journal of Surfactants and Detergents</i> , 2000, 3, 533-537.	1.0	19
58	Electrospinning: An Efficient Biopolymer-Based Micro- and Nanofibers Fabrication Technique. ACS Symposium Series, 2019, , 209-241.	0.5	18
59	A Simple Fluorescent Probe Derived from Naphthylamine for Selective Detection of Hg ^{II} , Fe ^{II} and Fe ^{III} Ions in Mixed Aqueous Media: Applications in Living Cells and Logic Gates. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 311-317.	1.0	17
60	Elucidating the bioremediation mechanism of <i>Scenedesmus</i> sp. IITRIND2 under cadmium stress. <i>Chemosphere</i> , 2021, 283, 131196.	4.2	17
61	Amaranth seeds (<i>Amaranthus palmeri</i> L.) as novel feedstock for biodiesel production by oleaginous yeast. <i>Environmental Science and Pollution Research</i> , 2018, 25, 353-362.	2.7	14
62	Assessing the robust growth and lipid-accumulating characteristics of <i>Scenedesmus</i> sp. for biodiesel production. <i>Environmental Science and Pollution Research</i> , 2020, 27, 27449-27456.	2.7	14
63	Role of Exopolysaccharides in Biofilm Formation. ACS Symposium Series, 2019, , 17-57.	0.5	13
64	Plausible Mechanistic Insights in Biofilm Eradication Potential against <i>Candida</i> spp. Using <i>In Situ</i> -Synthesized Tyrosol-Functionalized Chitosan Gold Nanoparticles as a Versatile Antifouling Coating on Implant Surfaces. <i>ACS Omega</i> , 2022, 7, 8350-8363.	1.6	13
65	Recycled de-Oiled Algal Biomass Extract as a Feedstock for Boosting Biodiesel Production from <i>Chlorella minutissima</i> . <i>Applied Biochemistry and Biotechnology</i> , 2016, 180, 1534-1541.	1.4	11
66	Ancient DNA Reveals Late Pleistocene Existence of Ostriches in Indian Sub-Continent. <i>PLoS ONE</i> , 2017, 12, e0164823.	1.1	11
67	Microstructure, crystallography and diagenetic alteration in fossil ostrich eggshells from Upper Palaeolithic sites of Indian peninsular region. <i>Micron</i> , 2016, 84, 72-78.	1.1	9
68	In Vitro Apoptosis Induction in a Human Prostate Cancer Cell Line by Thermotolerant Glycolipid from <i>Bacillus licheniformis</i> SV1. <i>Journal of Surfactants and Detergents</i> , 2017, 20, 1141-1151.	1.0	7
69	Design, synthesis, molecular docking, and biological studies of novel phytoestrogen-tanaproget hybrids. <i>Synthetic Communications</i> , 2016, 46, 460-474.	1.1	6
70	Potential of aquatic oomycete as a novel feedstock for microbial oil grown on waste sugarcane bagasse. <i>Environmental Science and Pollution Research</i> , 2018, 25, 33443-33454.	2.7	6
71	Application of Computational Techniques to Unravel Structure-Function Relationship and their Role in Therapeutic Development. <i>Current Topics in Medicinal Chemistry</i> , 2018, 18, 1769-1791.	1.0	5
72	Impact of <i>Bacillus licheniformis</i> SV1 Derived Glycolipid on <i>Candida glabrata</i> Biofilm. <i>Current Microbiology</i> , 2021, 78, 1813-1822.	1.0	4

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73	Antineoplastic and antioxidant potential of phycofabricated silver nanoparticles using microalgae <i>Chlorella minutissima</i> . IET Nanobiotechnology, 2017, 11, 827-834.	1.9	3
74	Insight into Structure-Function Relationships of β -Lactamase and BLIPs Interface Plasticity using Protein-Protein Interactions. Current Pharmaceutical Design, 2019, 25, 3378-3389.	0.9	2
75	Oleaginous Yeast- A Promising Candidate for High Quality Biodiesel Production. , 2017, , 107-128.		1
76	Production of Oleaginous Organisms or Lipids Using Sewage Water and Industrial Wastewater. Methods in Molecular Biology, 2019, 1995, 405-418.	0.4	1
77	Exploration of structural geometry and binding mode of a nephrotoxin molecule: Citrinin. , 2018, , .		0
78	D-2 STUDY OF BIOFILM FORMATION ON BIOMATERIAL SURFACES(Session: Biomaterials). The Proceedings of the Asian Symposium on Materials and Processing, 2006, 2006, 71.	0.0	0
79	Activating de novo triacylglycerol synthesis in oleaginous yeast for improved bio-diesel quality. WEENTECH Proceedings in Energy, 2018, 4, 16-24.	0.0	0