

Vikas Pruthi

List of Publications by Year in descending order

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79
papers

3,772
citations

109264

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133188

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all docs

85
docs citations

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times ranked

5046
citing authors

#	ARTICLE	IF	CITATIONS
1	Plausible Mechanistic Insights in Biofilm Eradication Potential against <i>Candida</i> spp. Using In Situ-Synthesized Tyrosol-Functionalized Chitosan Gold Nanoparticles as a Versatile Antifouling Coating on Implant Surfaces. ACS Omega, 2022, 7, 8350-8363.	1.6	13
2	Cinnamaldehyde incorporated gellan/PVA electrospun nanofibers for eradicating Candida biofilm. Materials Science and Engineering C, 2021, 119, 111450.	3.8	39
3	Impact of Bacillus licheniformis SV1 Derived Glycolipid on Candida glabrata Biofilm. Current Microbiology, 2021, 78, 1813-1822.	1.0	4
4	Insights into interplay of immunopathophysiological events and molecular mechanistic cascades in psoriasis and its associated comorbidities. Journal of Autoimmunity, 2021, 118, 102614.	3.0	24
5	Elucidating the bioremediation mechanism of Scenedesmus sp. IITRIND2 under cadmium stress. Chemosphere, 2021, 283, 131196.	4.2	17
6	Exploration of interaction mechanism of tyrosol as a potent anti-inflammatory agent. Journal of Biomolecular Structure and Dynamics, 2020, 38, 382-397.	2.0	32
7	Assessing the robust growth and lipid-accumulating characteristics of Scenedesmus sp. for biodiesel production. Environmental Science and Pollution Research, 2020, 27, 27449-27456.	2.7	14
8	Small-scale phyco-mitigation of raw urban wastewater integrated with biodiesel production and its utilization for aquaculture. Bioresource Technology, 2020, 297, 122489.	4.8	51
9	Extrapolation of phenolic compounds as multi-target agents against cancer and inflammation. Journal of Biomolecular Structure and Dynamics, 2019, 37, 2355-2369.	2.0	60
10	A novel rapid ultrasonication-microwave treatment for total lipid extraction from wet oleaginous yeast biomass for sustainable biodiesel production. Ultrasonics Sonochemistry, 2019, 51, 504-516.	3.8	47
11	Utilization of Clarified Butter Sediment Waste as a Feedstock for Cost-Effective Production of Biodiesel. Foods, 2019, 8, 234.	1.9	21
12	Delineating the Biofilm Inhibition Mechanisms of Phenolic and Aldehydic Terpenes against <i>Cryptococcus neoformans</i> . ACS Omega, 2019, 4, 17634-17648.	1.6	33
13	Role of Exopolysaccharides in Biofilm Formation. ACS Symposium Series, 2019, , 17-57.	0.5	13
14	Detoxification mechanism of organophosphorus pesticide via carboxylestrase pathway that triggers de novo TAG biosynthesis in oleaginous microalgae. Aquatic Toxicology, 2019, 209, 49-55.	1.9	21
15	Production of Oleaginous Organisms or Lipids Using Sewage Water and Industrial Wastewater. Methods in Molecular Biology, 2019, 1995, 405-418.	0.4	1
16	Co-culturing of oleaginous microalgae and yeast: paradigm shift towards enhanced lipid productivity. Environmental Science and Pollution Research, 2019, 26, 16952-16973.	2.7	57
17	Delineating the molecular responses of a halotolerant microalga using integrated omics approach to identify genetic engineering targets for enhanced TAG production. Biotechnology for Biofuels, 2019, 12, 2.	6.2	42
18	Electrospinning: An Efficient Biopolymer-Based Micro- and Nanofibers Fabrication Technique. ACS Symposium Series, 2019, , 209-241.	0.5	18

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19	Microwave assisted $\hat{\text{I}}^{\text{p}}$ -carrageenan capped silver nanocomposites for eradication of bacterial biofilms. Carbohydrate Polymers, 2019, 206, 854-862.	5.1	45
20	Insight into Structure-Function Relationships of $\hat{\text{I}}^{\text{2}}$ -Lactamase and BLIPs Interface Plasticity using Protein-Protein Interactions. Current Pharmaceutical Design, 2019, 25, 3378-3389.	0.9	2
21	Chemistry and Biology of Farnesol and its Derivatives: Quorum Sensing Molecules with Immense Therapeutic Potential. Current Topics in Medicinal Chemistry, 2019, 18, 1937-1954.	1.0	27
22	Leveraging algal omics to reveal potential targets for augmenting TAG accumulation. Biotechnology Advances, 2018, 36, 1274-1292.	6.0	65
23	Aromatic hydrocarbon biodegradation activates neutral lipid biosynthesis in oleaginous yeast. Bioresource Technology, 2018, 255, 273-280.	4.8	27
24	Amaranth seeds (<i>Amaranthus palmeri</i> L.) as novel feedstock for biodiesel production by oleaginous yeast. Environmental Science and Pollution Research, 2018, 25, 353-362.	2.7	14
25	Exploration of structural geometry and binding mode of a nephrotoxin molecule: Citrinin. , 2018, , .		0
26	Potential of aquatic oomycete as a novel feedstock for microbial oil grown on waste sugarcane bagasse. Environmental Science and Pollution Research, 2018, 25, 33443-33454.	2.7	6
27	Effectiveness of Phytoactive Molecules on Transcriptional Expression, Biofilm Matrix, and Cell Wall Components of <i>Candida glabrata</i> and Its Clinical Isolates. ACS Omega, 2018, 3, 12201-12214.	1.6	39
28	NMR-Based Metabolomic Approach To Elucidate the Differential Cellular Responses during Mitigation of Arsenic(III, V) in a Green Microalga. ACS Omega, 2018, 3, 11847-11856.	1.6	50
29	In-vivo sustained release of nanoencapsulated ferulic acid and its impact in induced diabetes. Materials Science and Engineering C, 2018, 92, 381-392.	3.8	65
30	Application of Computational Techniques to Unravel Structure-Function Relationship and their Role in Therapeutic Development. Current Topics in Medicinal Chemistry, 2018, 18, 1769-1791.	1.0	5
31	Activating de novo triacylglycerol synthesis in oleaginous yeast for improved bio-diesel quality. WEENTECH Proceedings in Energy, 2018, 4, 16-24.	0.0	0
32	Quantum chemical, ADMET and molecular docking studies of ferulic acid amide derivatives with a novel anticancer drug target. Medicinal Chemistry Research, 2017, 26, 1822-1834.	1.1	30
33	Assessment of fuel properties on the basis of fatty acid profiles of oleaginous yeast for potential biodiesel production. Renewable and Sustainable Energy Reviews, 2017, 77, 604-616.	8.2	164
34	Oleaginous Yeast- A Promising Candidate for High Quality Biodiesel Production. , 2017, , 107-128.		1
35	Fostering triacylglycerol accumulation in novel oleaginous yeast <i>Cryptococcus psychrotolerans</i> IITRFD utilizing groundnut shell for improved biodiesel production. Bioresource Technology, 2017, 242, 113-120.	4.8	52
36	Pretreated algal bloom as a substantial nutrient source for microalgae cultivation for biodiesel production. Bioresource Technology, 2017, 242, 152-160.	4.8	21

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37	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
38	Antineoplastic and antioxidant potential of phycofabricated silver nanoparticles using microalgae <i>Chlorella minutissima</i> . <i>IET Nanobiotechnology</i> , 2017, 11, 827-834.	1.9	3
39	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
40	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
41	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
42	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
43	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
44	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
45	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
46	Ancient DNA Reveals Late Pleistocene Existence of Ostriches in Indian Sub-Continent. <i>PLoS ONE</i> , 2017, 12, e0164823.	1.1	11
47	Modulation of <i>Candida albicans</i> Biofilm by Different Carbon Sources. <i>Mycopathologia</i> , 2016, 181, 341-352.	1.3	25
48	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
49	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
50	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
51	Efficacy of ferulic acid encapsulated chitosan nanoparticles against <i>Candida albicans</i> biofilm. <i>Microbial Pathogenesis</i> , 2016, 95, 21-31.	1.3	67
52	Design, synthesis, molecular docking, and biological studies of novel phytoestrogen-tanaproget hybrids. <i>Synthetic Communications</i> , 2016, 46, 460-474.	1.1	6
53	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
54	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

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55	Impact of oxidative and osmotic stresses on <i>Candida albicans</i> biofilm formation. <i>Biofouling</i> , 2016, 32, 897-909.	0.8	30
56	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
57	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
58	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
59	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
60	Drug functionalized microbial polysaccharide based nanofibers as transdermal substitute. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 1375-1385.	1.7	35
61	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
62	A novel gellan/PVA nanofibrous scaffold for skin tissue regeneration: Fabrication and characterization. <i>Carbohydrate Polymers</i> , 2016, 136, 851-859.	5.1	68
63	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
64	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
65	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
66	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
67	Biodiesel production from non-edible lignocellulosic biomass of <i>Cassia fistula</i> L. fruit pulp using oleaginous yeast <i>Rhodospiridium kratochvilovae</i> HIMPA1. <i>Bioresource Technology</i> , 2015, 197, 91-98.	4.8	107
68	Biomedical applications of ferulic acid encapsulated electrospun nanofibers. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2015, 8, 36-44.	2.1	38
69	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
70	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
71	Process optimization for fabrication of gellan based electrospun nanofibers. <i>Carbohydrate Polymers</i> , 2014, 109, 16-21.	5.1	44
72	Boosting accumulation of neutral lipids in <i>Rhodospiridium kratochvilovae</i> HIMPA1 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

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73	Potential applications of ferulic acid from natural sources. <i>Biotechnology Reports (Amsterdam)</i> , Tj ETQq1 1 0.784314 rgBT / Overlock 10 2.1 640		
74	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
75	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
76	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
77	<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
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	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