

Unnikrishnan Kuzhiumparambil

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,260
citations

331670

21
h-index

414414

32
g-index

64
all docs

64
docs citations

64
times ranked

1697
citing authors

#	ARTICLE	IF	CITATIONS
1	DSYB catalyses the key step of dimethylsulfoniopropionate biosynthesis in many phytoplankton. <i>Nature Microbiology</i> , 2018, 3, 430-439.	13.3	116
2	Metabolomics: an emerging frontier of systems biology in marine macrophytes. <i>Algal Research</i> , 2016, 16, 76-92.	4.6	73
3	Acid-Catalyzed Conversion of Carbohydrates into Value-Added Small Molecules in Aqueous Media and Ionic Liquids. <i>ChemSusChem</i> , 2018, 11, 642-660.	6.8	67
4	A widespread alternative squalene epoxidase participates in eukaryote steroid biosynthesis. <i>Nature Microbiology</i> , 2019, 4, 226-233.	13.3	64
5	HPLC estimation of berberine in <i>Tinospora cordifolia</i> and <i>Tinospora sinensis</i> . <i>Indian Journal of Pharmaceutical Sciences</i> , 2008, 70, 96.	1.0	62
6	Cyanobacterial polyhydroxybutyrate for sustainable bioplastic production: Critical review and perspectives. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104007.	6.7	50
7	Extrachromosomal Genetic Engineering of the Marine Diatom <i>Phaeodactylum tricoratum</i> Enables the Heterologous Production of Monoterpenoids. <i>ACS Synthetic Biology</i> , 2020, 9, 598-612.	3.8	49
8	Dissolution of Cellulose: Are Ionic Liquids Innocent or Noninnocent Solvents?. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 10142-10150.	6.7	42
9	How microalgal biotechnology can assist with the UN Sustainable Development Goals for natural resource management. <i>Current Research in Environmental Sustainability</i> , 2021, 3, 100050.	3.5	41
10	The role of the molecular formula of ZnCl ₂ ·nH ₂ O on its catalyst activity: a systematic study of zinc chloride hydrates in the catalytic valorisation of cellulosic biomass. <i>Catalysis Science and Technology</i> , 2019, 9, 4693-4701.	4.1	32
11	A comprehensive analysis of an effective flocculation method for high quality microalgal biomass harvesting. <i>Science of the Total Environment</i> , 2021, 752, 141708.	8.0	32
12	Cerebrospinal fluid metabolomics: detection of neuroinflammation in human central nervous system disease. <i>Clinical and Translational Immunology</i> , 2021, 10, e1318.	3.8	30
13	Biotransformation of synthetic cannabinoids JWH-018, JWH-073 and AM2201 by <i>Cunninghamella elegans</i> . <i>Forensic Science International</i> , 2016, 261, 33-42.	2.2	29
14	Photosynthetic acclimation of <i>Nannochloropsis oculata</i> investigated by multi-wavelength chlorophyll fluorescence analysis. <i>Bioresource Technology</i> , 2014, 167, 521-529.	9.6	28
15	Development and validation of a simple, rapid and sensitive LC-MS/MS method for the measurement of urinary neurotransmitters and their metabolites. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 7191-7199.	3.7	27
16	Catalytic Valorization of Native Biomass in a Deep Eutectic Solvent: A Systematic Approach toward High-Yielding Reactions of Polysaccharides. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 678-685.	6.7	27
17	Metabolic Engineering Strategies in Diatoms Reveal Unique Phenotypes and Genetic Configurations With Implications for Algal Genetics and Synthetic Biology. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 513.	4.1	26
18	Excess copper promotes photoinhibition and modulates the expression of antioxidant-related genes in <i>Zostera muelleri</i> . <i>Aquatic Toxicology</i> , 2019, 207, 91-100.	4.0	25

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19	Metal triflates are tunable acidic catalysts for high yielding conversion of cellulosic biomass into ethyl levulinate. <i>Fuel Processing Technology</i> , 2019, 195, 106159.	7.2	23
20	A reverse phase HPLC-UV and HPTLC methods for determination of plumbagin in <i>Plumbago indica</i> and <i>Plumbago zeylanica</i> . <i>Indian Journal of Pharmaceutical Sciences</i> , 2008, 70, 844.	1.0	23
21	Methyl jasmonate treatment affects the regulation of the 2-C-methyl-D-erythritol 4-phosphate pathway and early steps of the triterpenoid biosynthesis in <i>Chlamydomonas reinhardtii</i> . <i>Algal Research</i> , 2019, 39, 101462.	4.6	22
22	The potential of autofluorescence spectroscopy to detect human urinary tract infection. <i>Talanta</i> , 2010, 82, 912-917.	5.5	21
23	Metabolic Profile of Synthetic Cannabinoids 5F-PB-22, PB-22, XLR-11 and UR-144 by <i>Cunninghamella elegans</i> . <i>AAPS Journal</i> , 2017, 19, 1148-1162.	4.4	20
24	A new mechanistic understanding of light-limitation in the seagrass <i>Zostera muelleri</i> . <i>Marine Environmental Research</i> , 2018, 134, 55-67.	2.5	19
25	High Yielding Acid-Catalysed Hydrolysis of Cellulosic Polysaccharides and Native Biomass into Low Molecular Weight Sugars in Mixed Ionic Liquid Systems. <i>ChemistryOpen</i> , 2019, 8, 1316-1324.	1.9	19
26	Techno-economic analysis of cyanobacterial PHB bioplastic production. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107502.	6.7	19
27	Divergence of photosynthetic strategies amongst marine diatoms. <i>PLoS ONE</i> , 2020, 15, e0244252.	2.5	18
28	Bioanalysis of urine samples after manipulation by oxidizing chemicals: technical considerations. <i>Bioanalysis</i> , 2014, 6, 1543-1561.	1.5	17
29	<i>Hemidesmus indicus</i> (L.) R. Br. A Review. <i>Journal of Plant Sciences</i> , 2008, 3, 146-156.	0.2	17
30	A Systematic Study of Metal Triflates in Catalytic Transformations of Glucose in Water and Methanol: Identifying the Interplay of Brønsted and Lewis Acidity. <i>ChemSusChem</i> , 2019, 12, 3263-3270.	6.8	15
31	Acid-Catalysed Conversion of Carbohydrates into Furan-Type Molecules in Zinc Chloride Hydrate. <i>ChemPlusChem</i> , 2019, 84, 352-357.	2.8	15
32	Cerebrospinal fluid metabolites in tryptophan-kynurenine and nitric oxide pathways: biomarkers for acute neuroinflammation. <i>Developmental Medicine and Child Neurology</i> , 2021, 63, 552-559.	2.1	15
33	In vitro metabolism of synthetic cannabinoid AM1220 by human liver microsomes and <i>Cunninghamella elegans</i> using liquid chromatography coupled with high resolution mass spectrometry. <i>Forensic Toxicology</i> , 2018, 36, 435-446.	2.4	14
34	Formation of 3-azabicyclo[3.3.1]non-3-enes: imino amides vs. imino alkenes. <i>Monatshefte für Chemie</i> , 2014, 145, 983-992.	1.8	13
35	Effect of carbon limitation on photosynthetic electron transport in <i>Nannochloropsis oculata</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 181, 31-43.	3.8	13
36	Structural Elucidation of Metabolites of Synthetic Cannabinoid UR-144 by <i>Cunninghamella elegans</i> Using Nuclear Magnetic Resonance (NMR) Spectroscopy. <i>AAPS Journal</i> , 2018, 20, 42.	4.4	13

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37	Towards furfural from the reaction of cellulosic biomass in zinc chloride hydrate solvents. <i>Industrial Crops and Products</i> , 2020, 146, 112179.	5.2	12
38	Improving light and CO ₂ availability to enhance the growth rate of the diatom, <i>Chaetoceros muelleri</i> . <i>Algal Research</i> , 2021, 55, 102234.	4.6	11
39	Plant regeneration and production of embelin from organogenic and embryogenic callus cultures of <i>Embelia ribes</i> Burm. f. a vulnerable medicinal plant. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2011, 47, 506-515.	2.1	10
40	Effect of oxidizing adulterants on human urinary steroid profiles. <i>Steroids</i> , 2013, 78, 288-296.	1.8	10
41	Development and Validation of a High Pressure Liquid Chromatography-UV Method for the Determination of Treosulfan and Its Epoxy Metabolites in Human Plasma and Its Application in Pharmacokinetic Studies. <i>Journal of Chromatographic Science</i> , 2016, 54, bmv145.	1.4	10
42	Monitoring metabolism of synthetic cannabinoid 4F-MDMB-BINACA via high-resolution mass spectrometry assessed in cultured hepatoma cell line, fungus, liver microsomes and confirmed using urine samples. <i>Forensic Toxicology</i> , 2021, 39, 198-212.	2.4	10
43	The influence of indoxyl sulfate and ammonium on the autofluorescence of human urine. <i>Talanta</i> , 2010, 80, 1269-1276.	5.5	8
44	Understanding the role of the substrate and the metal triflate acidic catalyst in sugar platform biorefineries: A comprehensive systematic approach to catalytic transformations of (poly)carbohydrates in ethanol. <i>Chemical Engineering Journal</i> , 2020, 399, 125816.	12.7	6
45	Methyl Jasmonate and Methyl- β -Cyclodextrin Individually Boost Triterpenoid Biosynthesis in <i>Chlamydomonas Reinhardtii</i> UVM4. <i>Pharmaceuticals</i> , 2021, 14, 125.	3.8	6
46	Variation in Vasicine Content and Pharmacognostic Characters of Morphotypes of <i>Adhatoda zeylanica</i> Medic.. <i>Journal of Plant Sciences</i> , 2007, 3, 61-68.	0.2	6
47	Effect of hydrogen peroxide oxidation systems on human urinary steroid profiles. <i>Analytical Methods</i> , 2013, 5, 4402.	2.7	5
48	Elucidation of markers for monitoring morphine and its analogs in urine adulterated with pyridinium chlorochromate. <i>Bioanalysis</i> , 2015, 7, 2283-2295.	1.5	4
49	Antioxidant Studies and Determination of Wedelolactone in <i>Eclipta alba</i> . <i>Journal of Plant Sciences</i> , 2007, 2, 459-464.	0.2	4
50	Oxidation of testosterone by permanganate and its implication in sports drug testing. <i>New Journal of Chemistry</i> , 2015, 39, 1597-1602.	2.8	3
51	Data on individual metabolites of synthetic cannabinoids JWH-018, JWH-073 and AM2201 by <i>Cunninghamella elegans</i> . <i>Data in Brief</i> , 2016, 7, 332-340.	1.0	3
52	Unassembled cell wall proteins form aggregates in the extracellular space of <i>Chlamydomonas reinhardtii</i> strain UVM4. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 4145-4156.	3.6	3
53	A Systematic Study of Metal Triflates in Catalytic Transformations of Glucose in Water and Methanol: Identifying the Interplay of Brønsted and Lewis Acidity. <i>ChemSusChem</i> , 2019, 12, 3208-3208.	6.8	2
54	Investigating the impact of light quality on macromolecular of <i>Chaetoceros muelleri</i> . <i>Functional Plant Biology</i> , 2021, , .	2.1	2

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55	Studies on Morphological and Phytochemical Variability of Different Populations of <i>Tribulus terrestris</i> . <i>International Journal of Plant Breeding and Genetics</i> , 2007, 1, 95-100.	0.3	2
56	Comparison between human liver microsomes and the fungus <i>Cunninghamella elegans</i> for biotransformation of the synthetic cannabinoid JWH-424 having a bromo-naphthyl moiety analysed by high-resolution mass spectrometry. <i>Forensic Toxicology</i> , 2022, 40, 278-288.	2.4	2
57	Forensic Science: Current State and Perspective by a Group of Early Career Researchers. <i>Foundations of Science</i> , 2017, 22, 799-825.	0.7	1
58	Identification of Unique 4-Methylmethcathinone (4-MMC) Degradation Markers in Putrefied Matrices. <i>Journal of Analytical Toxicology</i> , 2020, 44, 803-810.	2.8	1
59	A Cyanobacteria Enriched Layer of Shark Bay Stromatolites Reveals a New <i>Acaryochloris</i> Strain Living in Near Infrared Light. <i>Microorganisms</i> , 2022, 10, 1035.	3.6	1
60	<i>Corrigendum to</i>: Investigating the impact of light quality on macromolecular of <i>Chaetoceros muelleri</i>. <i>Functional Plant Biology</i> , 2022, 49, 587-587.	2.1	0
61	Metabolomic profiling of anthropogenically threatened Australian seagrass <i>Zostera muelleri</i> using one- and two-dimensional gas chromatography. , 2022, , 135-151.		0