

Ramesh P Babu

List of Publications by Year in descending order

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53
papers

3,087
citations

218381

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Comparison Study of an Optimized Ultrasound-Based Method versus an Optimized Conventional Method for Agar Extraction, and Protein Co-Extraction, from <i>Gelidium sesquipedale</i> . <i>Foods</i> , 2022, 11, 805.	1.9	8
2	A Review on Biological Synthesis of the Biodegradable Polymers Polyhydroxyalkanoates and the Development of Multiple Applications. <i>Catalysts</i> , 2022, 12, 319.	1.6	64
3	Polyhydroxyoctanoate films reinforced with titanium dioxide microfibers for biomedical application. <i>Materials Letters</i> , 2021, 285, 129100.	1.3	7
4	Progressing Plastics Circularity: A Review of Mechano-Biocatalytic Approaches for Waste Plastic (Re)valorization. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 696040.	2.0	53
5	Polyhydroxyalkanoate/Antifungal Polyene Formulations with Monomeric Hydroxyalkanoic Acids for Improved Antifungal Efficiency. <i>Antibiotics</i> , 2021, 10, 737.	1.5	12
6	Comparative Life Cycle Assessment of EPA and DHA Production from Microalgae and Farmed Fish. <i>Clean Technologies</i> , 2021, 3, 699-710.	1.9	4
7	Investigation of enzyme-assisted methods combined with ultrasonication under a controlled alkali pretreatment for agar extraction from <i>Gelidium sesquipedale</i> . <i>Food Hydrocolloids</i> , 2021, 120, 106905.	5.6	24
8	Robust process for high yield conversion of non-degradable polyethylene to a biodegradable plastic using a chemo-biotechnological approach. <i>Waste Management</i> , 2021, 135, 60-69.	3.7	23
9	Development of an efficient biocatalytic system based on bacterial laccase for the oxidation of selected 1,4-dihydropyridines. <i>Enzyme and Microbial Technology</i> , 2020, 132, 109411.	1.6	18
10	Biodegradation of Poly (Butylene Succinate) (PBS)/Stearate Modified Magnesium-Aluminium Layered Double Hydroxide Composites under Marine Conditions Prepared via Melt Compounding. <i>Molecules</i> , 2020, 25, 5766.	1.7	17
11	Improved Surface Functional and Photocatalytic Properties of Hybrid ZnO-MoS ₂ -Deposited Membrane for Photocatalysis-Assisted Dye Filtration. <i>Membranes</i> , 2020, 10, 106.	1.4	15
12	Green extraction of soluble dietary fibre from coffee silverskin: impact of ultrasound/microwave-assisted extraction. <i>International Journal of Food Science and Technology</i> , 2020, 55, 2242-2250.	1.3	31
13	Polyhydroxyphenylvalerate/polycaprolactone nanofibers improve the life-span and mechanoresponse of human iPSC-derived cortical neuronal cells. <i>Materials Science and Engineering C</i> , 2020, 111, 110832.	3.8	9
14	Novel sodium alkyl-1,3-disulfates, anionic biosurfactants produced from microbial polyesters. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 182, 110333.	2.5	8
15	Conversion of waste cooking oil into medium chain polyhydroxyalkanoates in a high cell density fermentation. <i>Journal of Biotechnology</i> , 2019, 306, 9-15.	1.9	57
16	Production of bacterial nanocellulose (BNC) and its application as a solid support in transition metal catalysed cross-coupling reactions. <i>International Journal of Biological Macromolecules</i> , 2019, 129, 351-360.	3.6	33
17	Amorphous solid dispersions of ketoprofen and poly-vinyl polymers prepared via electrospraying and spray drying: A comparison of particle characteristics and performance. <i>International Journal of Pharmaceutics</i> , 2019, 566, 173-184.	2.6	31
18	Comparison of wet milling and dry milling routes for ibuprofen pharmaceutical crystals and their impact on pharmaceutical and biopharmaceutical properties. <i>Powder Technology</i> , 2018, 330, 228-238.	2.1	25

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19	Surfactant-mediated hydrothermal pretreatment of Ryegrass followed by enzymatic saccharification for polyhydroxyalkanoate production. <i>Industrial Crops and Products</i> , 2018, 111, 625-632.	2.5	29
20	Biodegradable Plastic Blends Create New Possibilities for End-of-Life Management of Plastics but They Are Not a Panacea for Plastic Pollution. <i>Environmental Science & Technology</i> , 2018, 52, 10441-10452.	4.6	339
21	Synthesis Gas (Syngas)-Derived Medium-Chain-Length Polyhydroxyalkanoate Synthesis in Engineered <i>Rhodospirillum rubrum</i> . <i>Applied and Environmental Microbiology</i> , 2016, 82, 6132-6140.	1.4	42
22	High cell density cultivation of <i>Pseudomonas putida</i> KT2440 using glucose without the need for oxygen enriched air supply. <i>Biotechnology and Bioengineering</i> , 2015, 112, 725-733.	1.7	53
23	Use of a mannitol rich ensiled grass press juice (EGPJ) as a sole carbon source for polyhydroxyalkanoates (PHAs) production through high cell density cultivation. <i>Bioresource Technology</i> , 2015, 191, 45-52.	4.8	57
24	Pervaporation separation of butyric acid from aqueous and anaerobic digestion (AD) solutions using PEBA based composite membranes. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 23, 163-170.	2.9	57
25	Plant Oils and Products of Their Hydrolysis as Substrates for Polyhydroxyalkanoate Synthesis. <i>Chemical and Biochemical Engineering Quarterly</i> , 2015, 29, 123-133.	0.5	28
26	Castor Seed from Melkasa Agricultural Research Centre, East Showa, Ethiopia and its biodiesel performance in Four Stroke Diesel Engine. <i>International Journal of Renewable Energy Development</i> , 2014, 3, 99-105.	1.2	5
27	Identification and characterization of an acyl-CoA dehydrogenase from <i>Pseudomonas putida</i> KT2440 that shows preference towards medium to long chain length fatty acids. <i>Microbiology (United Kingdom)</i> 157, 1077-1084.	1.7	68
28	Medium chain length polyhydroxyalkanoate (mcl-PHA) production from volatile fatty acids derived from the anaerobic digestion of grass. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 611-620.	1.7	68
29	Conversion of post consumer polyethylene to the biodegradable polymer polyhydroxyalkanoate. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 4223-4232.	1.7	102
30	Fed-batch strategies using butyrate for high cell density cultivation of <i>Pseudomonas putida</i> and its use as a biocatalyst. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 9217-9228.	1.7	21
31	Synthesis and photocatalytic application of ZnO nanoarrows. <i>Materials Letters</i> , 2014, 128, 404-407.	1.3	22
32	The anti-cancer activity of a cationic anti-microbial peptide derived from monomers of polyhydroxyalkanoate. <i>Biomaterials</i> , 2013, 34, 2710-2718.	5.7	55
33	Conversion of grass biomass into fermentable sugars and its utilization for medium chain length polyhydroxyalkanoate (mcl-PHA) production by <i>Pseudomonas</i> strains. <i>Bioresource Technology</i> , 2013, 150, 202-209.	4.8	129
34	Current progress on bio-based polymers and their future trends. <i>Progress in Biomaterials</i> , 2013, 2, 8.	1.8	758
35	Saccharification of alkali treated biomass of Kans grass contributes higher sugar in contrast to acid treated biomass. <i>Chemical Engineering Journal</i> , 2013, 230, 36-47.	6.6	38
36	Carbon-Rich Wastes as Feedstocks for Biodegradable Polymer (Polyhydroxyalkanoate) Production Using Bacteria. <i>Advances in Applied Microbiology</i> , 2013, 84, 139-200.	1.3	147

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37	Electrical conductivity of LTA-zeolite in the presence of poly(vinyl alcohol) and poly(vinyl Tj ETQq1 1 0.784314 rgBT /Overlock 5 10 Tf 50	1.6	5
38	Electrospun Nanomaterials: Biotechnology, Food, Water, Environment, and Energy. Conference Papers in Materials Science, 2013, 2013, 1-14.	0.1	11
39	Cytotoxicity evaluation of nanoclays in human epithelial cell line A549 using high content screening and real-time impedance analysis. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	64
40	Development of a bioprocess to convert PET derived terephthalic acid and biodiesel derived glycerol to medium chain length polyhydroxyalkanoate. Applied Microbiology and Biotechnology, 2012, 95, 623-633.	1.7	110
41	Formulation of epoxy-polyester powder coatings containing silver-modified nanoclays and evaluation of their antimicrobial properties. Polymer Bulletin, 2012, 68, 1951-1963.	1.7	12
42	Synthesis, electrical and magnetotransport properties of polypyrrole-MWCNT nanocomposite. Solid State Communications, 2012, 152, 13-18.	0.9	37
43	Anomalous electrical transport properties of polyvinyl alcohol-multiwall carbon nanotubes composites below room temperature. Journal of Applied Physics, 2011, 109, 033707.	1.1	26
44	Synthesis and characterization of polyaniline/carbon nanotube composites. Journal of Applied Polymer Science, 2011, 119, 1016-1025.	1.3	39
45	Activation behavior and dielectric relaxation in polyvinyl alcohol and multiwall carbon nanotube composite films. Solid State Communications, 2011, 151, 754-758.	0.9	26
46	Ferromagnetic Behaviour of Nickel Contacted Multiwalled Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2010, 10, 2606-2610.	0.9	0
47	Characterization and electrical transport properties of polyaniline and multiwall carbon nanotube composites. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 1767-1775.	2.4	21
48	Synthesis, magnetic, optical, and electrical transport properties of the nanocomposites of polyaniline with some rare earth chlorides. Journal of Applied Physics, 2010, 108, 073701.	1.1	12
49	Characterization of melanin-overproducing transposon mutants of <i>Pseudomonas putida</i> F6. FEMS Microbiology Letters, 2009, 298, 174-183.	0.7	20
50	Fabrication and field emission property studies of vertically aligned multiwalled carbon nanotubes grown by double plasma chemical vapour deposition technique. Diamond and Related Materials, 2009, 18, 967-971.	1.8	6
51	The conversion of BTEX compounds by single and defined mixed cultures to medium-chain-length polyhydroxyalkanoate. Applied Microbiology and Biotechnology, 2008, 80, 665-673.	1.7	58
52	Up-Cycling of PET (Polyethylene Terephthalate) to the Biodegradable Plastic PHA (Polyhydroxyalkanoate). Environmental Science & Technology, 2008, 42, 7696-7701.	4.6	191
53	Thermogravimetric analysis of cobalt-filled carbon nanotubes deposited by chemical vapour deposition. Thin Solid Films, 2006, 494, 128-132.	0.8	42