

Vaibhav V Goud

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

119
papers

5,451
citations

33
h-index

72
g-index

123
ext. papers

6,393
ext. citations

5.1
avg, IF

6.29
L-index

#	Paper	IF	Citations
119	Role of lignocellulosic bioethanol in the transportation sector: limitations and advancements in bioethanol production from lignocellulosic biomass 2022 , 57-85		0
118	Development of antioxidant-rich edible active films and coatings incorporated with de-oiled ethanolic green algae extract: a candidate for prolonging the shelf life of fresh produce.. <i>RSC Advances</i> , 2022 , 12, 13295-13313	3.7	0
117	Processing Thermogravimetric Analysis Data for Pyrolysis Kinetic Study of Microalgae Biomass. <i>Springer Proceedings in Energy</i> , 2021 , 1415-1424	0.2	
116	Dietary and bioactive properties of the berries and leaves from the underutilized D. Don grown in Northeast India. <i>Food Science and Biotechnology</i> , 2021 , 30, 1555-1569	3	1
115	In-Situ Epoxidation of Waste Cooking Oil and Its Methyl Esters for Lubricant Applications: Characterization and Rheology. <i>Lubricants</i> , 2021 , 9, 27	3.1	8
114	RSM-optimised slow pyrolysis of rice husk for bio-oil production and its upgradation. <i>Energy</i> , 2021 , 225, 120161	7.9	6
113	Effect of cellulose nanocrystals derived from <i>Dunaliella tertiolecta</i> marine green algae residue on crystallization behaviour of poly(lactic acid). <i>Carbohydrate Polymers</i> , 2021 , 261, 117881	10.3	13
112	Liquefaction of lignocellulosic biomass through biochemical conversion pathway: A strategic approach to achieve an industrial titer of bioethanol. <i>Fuel</i> , 2021 , 287, 119545	7.1	6
111	Influence of extrusion cooking on phytochemical, physical and sorption isotherm properties of rice extrudate infused with microencapsulated anthocyanin. <i>Food Science and Biotechnology</i> , 2021 , 30, 65-76 ³		1
110	Sono-hydro priming process (ultrasound modulated hydration): Modelling hydration kinetic during paddy germination. <i>Ultrasonics Sonochemistry</i> , 2021 , 70, 105321	8.9	6
109	Evaluation of thermophysical, biochemical and antibacterial properties of unconventional vegetable oil from Northeast India. <i>Materials Science for Energy Technologies</i> , 2021 , 4, 81-91	5.2	2
108	Comparative study of physicochemical and rheological property of waste cooking oil, castor oil, rubber seed oil, their methyl esters and blends with mineral diesel fuel. <i>Materials Science for Energy Technologies</i> , 2021 , 4, 148-155	5.2	7
107	Exploration of nutritional, antioxidant and antibacterial properties of unutilized rind and seed of passion fruit from Northeast India. <i>Journal of Food Measurement and Characterization</i> , 2021 , 15, 3153-3167 ^{2,8}		3
106	Utilization of microalgae residue and isolated cellulose nanocrystals: A study on crystallization kinetics of poly(ϵ -caprolactone) bio-composites. <i>International Journal of Biological Macromolecules</i> , 2021 , 191, 521-530	7.9	1
105	Infusion of gingerols into candied mango enhances shelf-life by inhibiting browning and associated quality parameters during storage. <i>Food Chemistry</i> , 2020 , 316, 126354	8.5	4
104	Pitfalls in the 3, 5-dinitrosalicylic acid (DNS) assay for the reducing sugars: Interference of furfural and 5-hydroxymethylfurfural. <i>International Journal of Biological Macromolecules</i> , 2020 , 156, 180-185	7.9	21
103	Utilization of nonedible oilseeds in a biorefinery approach with special emphasis on rubber seeds 2020 , 311-336		2

102	Bacterial biofilm-based nitrate and phosphate removal from rubber latex wastewater for sustainable water usage. <i>Water and Environment Journal</i> , 2020 , 34, 170-182	1.7	2
101	Optimization of process parameters for accelerated methane yield from anaerobic co-digestion of rice straw and food waste. <i>Renewable Energy</i> , 2020 , 149, 1352-1359	8.1	30
100	Degradation kinetics of anthocyanins from purple rice bran and effect of hydrocolloids on its stability. <i>Journal of Food Process Engineering</i> , 2020 , 43, e13360	2.4	4
99	Characterization of a low-cost adsorbent derived from agro-waste for ranitidine removal. <i>Materials Science for Energy Technologies</i> , 2020 , 3, 879-888	5.2	6
98	Design of a carrier system for gingerols enriched oleoresin tailored for food applications. <i>Food and Bioproducts Processing</i> , 2020 , 124, 296-306	4.9	2
97	Lignocellulosic feedstocks for the production of bioethanol: availability, structure, and composition 2019 , 1-19		4
96	Rural biorefinery: A viable solution for production of fuel and chemicals in rural India 2019 , 21-47		3
95	Current challenges and advances in butanol production 2019 , 225-256		2
94	Dilute Acid Pretreatment Efficiency on Various Solid Loadings and Effect of Different Neutralizing Agents on Xylulosic Ethanol Production 2019 , 1-7		1
93	Fungal pretreatment and associated kinetics of rice straw hydrolysis to accelerate methane yield from anaerobic digestion. <i>Bioresource Technology</i> , 2019 , 286, 121368	11	61
92	Thermal and co-pyrolysis of rubber seed cake with waste polystyrene for bio-oil production. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019 , 139, 333-343	6	17
91	Hydroxylation and hexanoylation of epoxidized waste cooking oil and epoxidized waste cooking oil methyl esters: Process optimization and physico-chemical characterization. <i>Industrial Crops and Products</i> , 2019 , 133, 151-159	5.9	13
90	Optimization of methane production during anaerobic co-digestion of rice straw and hydrilla verticillata using response surface methodology. <i>Fuel</i> , 2019 , 235, 92-99	7.1	55
89	Gingerols infusion and multi-step process optimization for enhancement of color, sensory and functional profiles of candied mango. <i>Food Chemistry</i> , 2019 , 300, 125195	8.5	5
88	Removal of Cr(VI) by magnetic iron oxide nanoparticles synthesized from extracellular polymeric substances of chromium resistant acid-tolerant bacterium RTA-01. <i>Journal of Environmental Health Science & Engineering</i> , 2019 , 17, 1001-1016	2.9	10
87	Antioxidant potential and nutritional compositions of selected ginger varieties found in Northeast India. <i>Industrial Crops and Products</i> , 2019 , 128, 167-176	5.9	11
86	Phase transition properties, chemical purity, and solubility of coniferyl alcohol and D-mannose: Experimental and Cosmo-RS predictions. <i>Canadian Journal of Chemical Engineering</i> , 2019 , 97, 1100-1106	2.3	2
85	Enhanced methane potential of rice straw with microwave assisted pretreatment and its kinetic analysis. <i>Journal of Environmental Management</i> , 2019 , 232, 188-196	7.9	40

84	Supercritical CO ₂ extraction and online fractionation of dry ginger for production of high-quality volatile oil and gingerols enriched oleoresin. <i>Industrial Crops and Products</i> , 2019 , 130, 352-362	5.9	32
83	Catalytic cracking of waste cooking oil for biofuel production using zirconium oxide catalyst. <i>Industrial Crops and Products</i> , 2018 , 118, 282-289	5.9	33
82	Long-Term Storage Stability of Epoxides Derived from Vegetable Oils and Their Methyl Esters. <i>Energy & Fuels</i> , 2018 , 32, 3428-3435	4.1	3
81	In situ epoxidation of waste soybean cooking oil for synthesis of biolubricant basestock: A process parameter optimization and comparison with RSM, ANN, and GA. <i>Canadian Journal of Chemical Engineering</i> , 2018 , 96, 1451-1461	2.3	11
80	Molecular Dynamic Simulations for the Extraction of Quinoline from Heptane in the Presence of a Low-Cost Phosphonium-Based Deep Eutectic Solvent. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 4006-4015	3.4	29
79	Multiscale modelling strategies and experimental insights for the solvation of cellulose and hemicellulose in ionic liquids. <i>Molecular Physics</i> , 2018 , 116, 2108-2128	1.7	11
78	Thermal degradation kinetics study and thermal cracking of waste cooking oil for biofuel production. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 131, 2157-2165	4.1	11
77	Thermo-chemical conversion of waste rubber seed shell to produce fuel and value-added chemicals. <i>Journal of the Energy Institute</i> , 2018 , 91, 940-950	5.7	13
76	Chemical composition analysis of various genetically modified sorghum traits: Pretreatment process optimization and bioethanol production from hemicellulosic hydrolyzates without detoxification. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 5625-5634	6.8	17
75	Ionic Liquid and Sulfuric Acid-Based Pretreatment of Bamboo: Biomass Delignification and Enzymatic Hydrolysis for the Production of Reducing Sugars. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 10105-10117	3.9	33
74	COSMO-RS-Based Screening of Antisolvents for the Separation of Sugars from Ionic Liquids: Experimental and Molecular Dynamic Simulations. <i>ACS Omega</i> , 2018 , 3, 7358-7370	3.9	4
73	Simultaneous ethanol and hydrogen production by fermentation from Bon bogori (<i>Ziziphus rugosa</i>). <i>Renewable Energy Focus</i> , 2018 , 26, 71-80	5.4	2
72	Influence of Waste Cooking Oil Methyl Ester Biodiesel Blends on the Performance and Emissions of a Diesel Engine. <i>Waste and Biomass Valorization</i> , 2018 , 9, 283-292	3.2	10
71	Optimization of non-catalytic transesterification of microalgae oil to biodiesel under supercritical methanol condition. <i>Energy Conversion and Management</i> , 2018 , 156, 269-278	10.6	40
70	Subcritical water hydrolysis of spent Java Citronella biomass for production of reducing sugar. <i>Materials Today: Proceedings</i> , 2018 , 5, 23128-23135	1.4	3
69	Operational Strategies and Comprehensive Evaluation of Menthol Based Deep Eutectic Solvent for the Extraction of Lower Alcohols from Aqueous Media. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 16920-16932	8.3	49
68	Evaluation of efficient glucose release using sodium hydroxide and phosphoric acid as pretreating agents from the biomass of <i>Sesbania grandiflora</i> (L.) Pers.: A fast growing tree legume. <i>Bioresource Technology</i> , 2017 , 236, 97-105	11	10
67	Solubility of glucose in tetrabutylammonium bromide based deep eutectic solvents: Experimental and molecular dynamic simulations. <i>Fluid Phase Equilibria</i> , 2017 , 448, 168-177	2.5	39

66	Dilute acid pretreatment of sorghum biomass to maximize the hemicellulose hydrolysis with minimized levels of fermentative inhibitors for bioethanol production. <i>3 Biotech</i> , 2017 , 7, 139	2.8	30
65	Salinity induced lipid production in microalgae and cluster analysis (ICCB 16-BR_047). <i>Bioresource Technology</i> , 2017 , 242, 244-252	11	57
64	Thermal decomposition and kinetics of residual rubber seed cake and shell. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 129, 577-592	4.1	6
63	In-situ alkaline transesterification of castor seeds: Optimization and engine performance, combustion and emission characteristics of blends. <i>Energy Conversion and Management</i> , 2017 , 142, 200-214 ⁶	10.6	19
62	Simultaneous extraction and transesterification of castor seeds for biodiesel production: Assessment of biodegradability. <i>Chemical Engineering Research and Design</i> , 2017 , 107, 373-387	5.5	10
61	Advancement in Development of Biodiesel Production in the Last Two Decades: An Indian Overview on Raw Materials, Synthesis, By-products, and Application 2017 , 167-188		1
60	Thermal Degradation Kinetic Study of Rubber Seed Oil and Its Methyl Esters under Inert Atmosphere. <i>Energy & Fuels</i> , 2017 , 31, 9642-9651	4.1	6
59	Analysis of thermal, oxidative and cold flow properties of methyl and ethyl esters prepared from soybean and mustard oils. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 130, 1501-1511	4.1	4
58	Two-step process for production of methyl ester from rubber seed oil using barium hydroxide octahydrate catalyst: Process optimization. <i>Journal of Cleaner Production</i> , 2017 , 142, 3490-3499	10.3	21
57	Extraction of phenolic compounds and anthocyanin from black and purple rice bran (<i>Oryza sativa</i> L.) using ultrasound: A comparative analysis and phytochemical profiling. <i>Industrial Crops and Products</i> , 2017 , 95, 332-341	5.9	57
56	Improved Low-Temperature Properties of Chemically Modified High Free Fatty Acid Castor Oil Methyl Esters: Blending and Optimization Study. <i>Journal of Energy Engineering - ASCE</i> , 2016 , 142, 04015020	1.7	7
55	Improved thermo-oxidative stability of structurally modified waste cooking oil methyl esters for bio-lubricant application. <i>Journal of Cleaner Production</i> , 2016 , 112, 4515-4524	10.3	60
54	Composition and anti-bacterial activity analysis of citronella oil obtained by hydrodistillation: Process optimization study. <i>Industrial Crops and Products</i> , 2016 , 94, 178-188	5.9	26
53	Ectopic expression of , encoding diacylglycerol -acyltransferase exclusively committed to TAG biosynthesis, enhances oil accumulation in seeds and leaves of <i>Jatropha</i> . <i>Biotechnology for Biofuels</i> , 2016 , 9, 226	7.8	23
52	Chemical composition, pretreatments and saccharification of <i>Senna siamea</i> (Lam.) H.S. Irwin & Barneby: An efficient biomass producing tree legume. <i>Bioresource Technology</i> , 2016 , 207, 205-12	11	10
51	The chemometric approach applied to FTIR spectral data for the analysis of lipid content in microalgae cultivated in different nitrogen sources. <i>Biomass Conversion and Biorefinery</i> , 2016 , 6, 427-433 ^{2,3}	2.3	9
50	Reactive extraction of castor seeds and storage stability characteristics of produced biodiesel. <i>Chemical Engineering Research and Design</i> , 2016 , 100, 252-263	5.5	23
49	Physicochemical and Rheological Characterization of Waste Cooking Oil Epoxide and Their Blends. <i>Waste and Biomass Valorization</i> , 2016 , 7, 23-30	3.2	10

48	Effect of Subsequent Dilute Acid and Enzymatic Hydrolysis on Reducing Sugar Production from Sugarcane Bagasse and Spent Citronella Biomass. <i>Journal of Energy</i> , 2016 , 2016, 1-12	1	30
47	Solid Liquid Equilibrium of Cellobiose, Sucrose, and Maltose Monohydrate in Ionic Liquids: Experimental and Quantum Chemical Insights. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 2923-2932	2.8	17
46	Effect of Protic and Aprotic Solvents on the Mechanism of Cellulose Dissolution in Ionic Liquids: A Combined Molecular Dynamics and Experimental Insight. <i>ChemistrySelect</i> , 2016 , 1, 4823-4832	1.8	14
45	Extraction of oil from rubber seeds for biodiesel application: Optimization of parameters. <i>Fuel</i> , 2015 , 150, 636-644	7.1	62
44	Thermodynamic Insights in the Separation of Cellulose/Hemicellulose Components from Lignocellulosic Biomass Using Ionic Liquids. <i>Journal of Solution Chemistry</i> , 2015 , 44, 538-557	1.8	21
43	Rubber Seed Oil Methyl Ester Synthesis, Engine Performance, and Emission Characteristics of Blends. <i>Energy & Fuels</i> , 2015 , 29, 5136-5144	4.1	11
42	Optimization and hydrolysis of cellulose under subcritical water treatment for the production of total reducing sugars. <i>RSC Advances</i> , 2015 , 5, 103265-103275	3.7	25
41	Jatropha (<i>Jatropha curcas</i> L.). <i>Methods in Molecular Biology</i> , 2015 , 1224, 25-35	1.4	4
40	Ultrasound assisted transesterification of high free Fatty acids karanja oil using heterogeneous base catalysts. <i>Biomass Conversion and Biorefinery</i> , 2015 , 5, 195-207	2.3	25
39	Response surface methodology for optimization of bio-lubricant basestock synthesis from high free fatty acids castor oil. <i>Energy Science and Engineering</i> , 2015 , 3, 371-383	3.4	10
38	In-Situ Epoxidation of Castor Oil Using Heterogeneous Acidic Ion-Exchange Resin Catalyst (IR-120) for Bio-Lubricant Application. <i>Tribology Online</i> , 2015 , 10, 354-359	0.9	5
37	Hydrolysis of bamboo biomass by subcritical water treatment. <i>Bioresource Technology</i> , 2015 , 191, 244-521	1	75
36	Optimization of dilute acid and hot water pretreatment of different lignocellulosic biomass: A comparative study. <i>Biomass and Bioenergy</i> , 2015 , 81, 9-18	5.3	75
35	Solubility of glucose, xylose, fructose and galactose in ionic liquids: Experimental and theoretical studies using a continuum solvation model. <i>Fluid Phase Equilibria</i> , 2015 , 395, 33-43	2.5	38
34	Effect of light intensity and pH condition on the growth, biomass and lipid content of microalgae <i>Scenedesmus</i> species. <i>Biofuels</i> , 2015 , 6, 37-44	2	34
33	Thermal, oxidative and low temperature properties of methyl esters prepared from oils of different fatty acids composition: A comparative study. <i>Thermochimica Acta</i> , 2014 , 577, 33-40	2.9	55
32	Epoxidation of Castor Oil Fatty Acid Methyl Esters (COFAME) as a Lubricant base Stock Using Heterogeneous Ion-exchange Resin (IR-120) as a Catalyst. <i>Energy Procedia</i> , 2014 , 54, 75-84	2.3	68
31	Effect of pre-treatment on solvents extraction and physico-chemical properties of castor seed oil. <i>Journal of Renewable and Sustainable Energy</i> , 2014 , 6, 063108	2.5	9

30	Synthesis of Waste Cooking Oil Epoxide as a Bio-Lubricant Base Stock: Characterization and Optimization Study. <i>Journal of Bioprocess Engineering and Biorefinery</i> , 2014 , 3, 57-72		14
29	Biodiesel production from high free fatty acids content <i>Jatropha curcas</i> L. oil using dual step process. <i>Biomass Conversion and Biorefinery</i> , 2013 , 3, 361-369	2.3	12
28	Determination of salutary parameters to facilitate bio-energy production from three uncommon biomasses using thermogravimetric analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 111, 1649-1655	4.1	15
27	Effect of storage parameters on stability of <i>Jatropha</i> -derived biodiesel. <i>International Journal of Energy and Environmental Engineering</i> , 2013 , 4, 13	4	15
26	Comparative studies of thermal, oxidative and low temperature properties of waste cooking oil and castor oil. <i>Journal of Renewable and Sustainable Energy</i> , 2013 , 5, 063104	2.5	12
25	COSMO-RS Based Predictions for the Extraction of Lignin from Lignocellulosic Biomass Using Ionic Liquids: Effect of Cation and Anion Combination. <i>Journal of Solution Chemistry</i> , 2012 , 41, 1610-1630	1.8	22
24	Physico-chemical characteristics of <i>Jatropha curcas</i> L. of North East India for exploration of biodiesel. <i>Biomass and Bioenergy</i> , 2012 , 46, 546-554	5.3	40
23	Characterization of biomasses available in the region of North-East India for production of biofuels. <i>Biomass and Bioenergy</i> , 2012 , 45, 212-220	5.3	69
22	Biosorption of Cr(VI) on immobilized <i>Hydrilla verticillata</i> in a continuous up-flow packed bed: prediction of kinetic parameters and breakthrough curves. <i>Desalination and Water Treatment</i> , 2012 , 50, 115-124		10
21	Ultrasound Assisted Lime Pretreatment of Lignocellulosic Biomass toward Bioethanol Production. <i>Energy & Fuels</i> , 2012 , 26, 3777-3784	4.1	69
20	Biodiesel production from renewable feedstocks: Status and opportunities. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 4763-4784	16.2	216
19	Optimisation of the acid catalysed pretreatment of areca nut husk fibre using the Taguchi design method. <i>Biosystems Engineering</i> , 2011 , 110, 465-472	4.8	23
18	Utilization of green seed canola oil for in situ epoxidation. <i>European Journal of Lipid Science and Technology</i> , 2011 , 113, 768-774	3	14
17	Modification of epoxidised canola oil. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2011 , 6, 14-22	1.3	19
16	Kinetics of reactive absorption of carbon dioxide with solutions of 1,6-hexamethylenediamine in polar protic solvents. <i>Separation and Purification Technology</i> , 2010 , 75, 1-7	8.3	10
15	Epoxidation of <i>Jatropha</i> (<i>Jatropha curcas</i>) oil by peroxyacids. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2010 , 5, 346-354	1.3	35
14	Characterization of Canadian biomass for alternative renewable biofuel. <i>Renewable Energy</i> , 2010 , 35, 1624-1631	8.1	285
13	Production of first and second generation biofuels: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2010 , 14, 578-597	16.2	2008

12	Supercritical CO ₂ fractionation of bio-oil produced from wheat-hemlock biomass. <i>Bioresource Technology</i> , 2010 , 101, 7605-13	11	54
11	Supercritical CO ₂ Fractionation of Bio-oil Produced from Mixed Biomass of Wheat and Wood Sawdust. <i>Energy & Fuels</i> , 2009 , 23, 6181-6188	4.1	56
10	Epoxidation of Canola Oil with Hydrogen Peroxide Catalyzed by Acidic Ion Exchange Resin. <i>JAACS, Journal of the American Oil Chemists Society</i> , 2008 , 85, 887-896	1.8	115
9	Epoxidation of cottonseed oil by aqueous hydrogen peroxide catalysed by liquid inorganic acids. <i>Bioresource Technology</i> , 2008 , 99, 3737-44	11	212
8	Kinetics of in situ Epoxidation of Natural Unsaturated Triglycerides Catalyzed by Acidic Ion Exchange Resin. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 3078-3085	3.9	32
7	Epoxidation of karanja (<i>Pongamia glabra</i>) oil catalysed by acidic ion exchange resin. <i>European Journal of Lipid Science and Technology</i> , 2007 , 109, 575-584	3	66
6	Kinetics of epoxidation of jatropha oil with peroxyacetic and peroxyformic acid catalysed by acidic ion exchange resin. <i>Chemical Engineering Science</i> , 2007 , 62, 4065-4076	4.4	116
5	Epoxidation of karanja (<i>Pongamia glabra</i>) oil by H ₂ O ₂ . <i>JAACS, Journal of the American Oil Chemists Society</i> , 2006 , 83, 635-640	1.8	104
4	Studies on the epoxidation of mahua oil (<i>Madhumica indica</i>) by hydrogen peroxide. <i>Bioresource Technology</i> , 2006 , 97, 1365-71	11	144
3	Polarity-wise successive solvent extraction of <i>Scenedesmus obliquus</i> biomass and characterization of the crude extracts for broad-spectrum antibacterial activity. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	1
2	Cultivating <i>Scenedesmus</i> sp. on substrata coated with cyanobacterial-derived extracellular polymeric substances for enhanced biomass productivity: a novel harvesting approach. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	3
1	Structural Characterization of Mixed Rice Straw and Deoiled Algal Cake-Based Substrate as a Potential Bioenergy Feedstock for Microbial Lipids and Carotenoid Production. <i>Waste and Biomass Valorization</i> , 1	3.2	1