TKM Institute of Technology

DEPARTMENT OF FOOD TECHNOLOGY

List of publications for the academic year 2023-2024

Sl. No:	Name of Faculty	Title of article	Journal name	Volume, Page number and year of publication	Impact Factor
1	Dr. R. Sindhu	Emerging technologies for the extraction of bioactives from mushroom waste.	Journal of Food Science and Technology	2023	3.119
2	Dr. R. Sindhu	Sustainable conversion of biowaste to energy to tackle the emerging pollutants**.**	Current Pollution Reports	2023	8.097
3	Dr. R. Sindhu	Microbial dynamics and nitrogen retention during sheep manure composting employing peach shell biochar.	Bioresource Technology	386, 129555, 2023	11.889
4	Dr. R. Sindhu	Whole cell synthesis of 2, 5-Furan dicarboxylic acid from pineapple waste under various fermentation strategies	Bioresource Technology	386, 129545, 2023	11.889
5	Dr. R. Sindhu	Evaluation of fungal dymamics during sheep manure composting employing peach shell biochar.	Bioresource Technology	386, 129559, 2024	11.889
6	Dr. R. Sindhu	Polyhydroxyalkanoates production in biorefineries: A review on current status,	Bioresource Technology	243, 130078, 2024	11.889

		challenges and opportunities			
7	Dr. R. Sindhu	Experimental assessment of cork based *Botryococcus braunii* microalgae blends and hydrogen in modified multicylinder diesel engine	FUEL	359, 130468, 2023	8.035
8	Dr. R. Sindhu Ms. Laya Liz Kuriakose	Assessment of multi-biomedical efficiency of *Andrographis paniculata* shoot extracts through in vivo analysis and major compound identification	Environmental Research	242, 117779, 2024	8.431
9	Dr. R. Sindhu Ms. Laya Liz Kuriakose	Antimicrobial and biocompatibility nature of methanol extract of *Lannea coromandelica* bark and edible coating film preparation for fruit preservation	Environmental Research	243, 119861, 2024	8.431
10	Dr. Surendhar. A, Dr. Abdullah. S, Ms. Laya Liz Kuriakose, Dr. R. Sindhu	Biotechnological valorization of cashew apple: prospects and challenges in synthesizing wide spectrum of products with market value	Bioresource Technology Reports	25, 101742, 2024	-
11	Dr. R. Sindhu	Biochemical Engineering for elemental sulphur from flue gases through multi-enzyme based approaches	Science of The Total Environment	914, 169857, 2024	10.753
12	Dr. R. Sindhu	Exploration of upgrading of biomass and its paradigmatic synthesis: Future scope for biogas exertion	Sustainable Chemistry and Pharmacy	38, 101450, 2024	6.0
13	Dr. R. Sindhu	Managing municipal wastewater remediation employing alginate immobilized marine diatoms and silver nanoparticles	Energy and Environment	1-12, 2024	4.2
14	Dr. R. Sindhu	Cold-active microbial enzymes and their biotechnological applications	Molecular Biotechnology	17, 1-19, 2024	2.6
15	Dr. Rahul Krishna Bhuvanendran	Remediation and management techniques for industrial dairy wastewater and sludge: A review	Journal of Material Cycles and Waste Management	2024	2.7

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Sl. No:	Name of Faculty	Title of article	Journal name	Volume, Page number and year of publication	Impact Factor
1	Dr. R. Sindhu	Advanced approaches for resource recovery from wastewater and activated sludge: A review	Bioresource Technology	384, 129250, 2023	11.889
2	Dr. R. Sindhu	Degradation mechanism of microplastics and potential risks during sewage sludge co-composting: A comprehensive review	Environmental Pollution	333, 122113, 2023	9.988
3	Dr. R. Sindhu	Electrochemical biosensors in healthcare services: bibliometric analysis and recent developments	Peer J	June 2023	3.061
4	Dr. R. Sindhu	Biochar preparation and evaluation of its effect in composting mechanism: A review	Bioresource Technology	384, 129329, 2023	11.889
5	Dr. R. Sindhu	Biochar as functional amendment for antibiotic resistant microbial community survival during hen manure composting	Bioresource Technology	385, 129393, 2023	11.889
6	Dr. R. Sindhu	Engineered nanomaterials for water	Environmental	30, 103108, 2023	7.758

		desalination: Trends and challenges	Technology and Innovation		
7	Dr. R. Sindhu	Chitosan a versatile adsorbent in environmental remediation in the era of circular economy: A mini review	Sustainable Chemistry and Pharmacy	32, 101004, 2023	5.464
8	Dr. R. Sindhu	Hormesis- tempting stressors driven by evolutionary factors for mitigating negative impacts instigated over extended exposure to chemical elements	Environmental Pollution	322, 121246, 2023	9.988
9	Dr. R. Sindhu	Reaction engineering during biomass gasification and conversion to energy	Energy	266, 126458	8.857
10	Dr. R. Sindhu	Solid waste management techniques powered by in-silico approaches with a special focus on municipal solid waste management: Recent trends and challenges	Science of the Total Environment	891, 164344	10.753
11	Dr. R. Sindhu	Advancements in the energy efficient brine mining technologies as a new frontier for renewable energy	Fuel	335, 127072, 2023	8.035
12	Dr. A. Surendhar	General aspects and novel PEMss in microbial fuel cell technology: A review	Chemosphere	309, 136454, 2023	7.086
13	Dr. R. Sindhu	*Murraya konigii* extract blended nanocellulose-polyethylene glycol thin films for the sustainable synthesis of antibacterial food packaging	Sustainable Chemistry and Pharmacy	32, 101021, 2023	5.564
14	Dr. R. Sindhu Laya Liz Kuriakose	Filamentous fungi for pharmaceutical compounds degradation in the environment: A sustainable approach	Environmental Technology and Innovation	31, 103182, 2023	7.758
15	Dr. R. Sindhu	Synthetic biology for sustainable food ingredients production: recent trends	Systems Microbiology and Biomanufacturing	3, 137-149, 2023	-
16	Dr. R. Sindhu	A thermo-chemical and biotechnological approaches from bamboo waste recycling	Fuel	333, 126469, 2023	8.035

		and conversion to value-added product: Towards a zero biorefinery and circular economy			
17	Dr. R. Sindhu	Production of biochar from tropical fruit tree residues and eco-friendly applications	Bioresource Technology	376, 128903, 2023	11.889
18	Dr. R. Sindhu	Valorization of tropical fruits waste for the production of commercial biorefinery products- A review	Bioresource Technology	374, 128793, 2023	11.889
19	Dr. R. Sindhu	Biodiesel production and engine performance study using one -pot synthesized ZnO/MCM-41	Fuel	336, 126830, 2023	8.035
20	Dr. R. Sindhu	Filamentous fungi for sustainable vegan food production systems within a circular economy: Present status and future prospects	Food Research International	164, 112318, 2023	7.425
21	Dr. R. Sindhu	A comprehensive review on thermochemical and biochemical conversion methods of lignocellulosic biomass into value added product	Fuel	342, 127790, 2023	8.035
22	Dr. R. Sindhu	Advanced approaches for resource recovery from wastewater and activated sludge: A review	Bioresource Technology	384, 129250, 2023	11.889
23	Dr. R. Sindhu	A hypothetical model of multilayered cost-effective wastewater treatment plant integrating microbial fuel cell and nanofiltration technology: A comprehensive review on wastewater treatment and sustainable remediation	Environmental Pollution	323, 121274, 2023	9.988
24	Dr. R. Sindhu	A strategic review on sustainable approaches in municipal solid waste management and energy recovery: Role of artificial intelligence, economic stability and life cycle assessment	Bioresource Technology	379, 129044, 2023	11.889
25	Dr. R. Sindhu	Biodegradation of emerging organic	Bioresource	374, 128749, 2023	11.889

		pollutant gemfibrozil: Mechanism, kinetics and pathway modelling	Technology		
26	Dr. R. Sindhu	Inferences on bioengineering perspectives and circular economy to tackle the emerging pollutants	Environmental Technology and Innovation	30, 103116, 2023	7.758
27	Laya Liz Kuriakose Dr. A. Surendhar Dr. R. Sindhu	Bioactives from citrus food waste: types, extraction technologies and application	Journal of Food Science and Technology	April 2023	3.852
28	Laya Liz Kuriakose Dr. R. Sindhu	Progress and challenges of Microwave-assisted pretreatment of lignocellulosic biomass from circular economy perspectives	Bioresource Technology	369, 128459, 2023	11.889
29	Dr. R. Sindhu	Design and genome engineering of microbial cell factories for efficient conversion of lignocellulose to fuel	Bioresource Technology	370, 128555, 2023	11.889
30	Dr. A. Surendhar Ms. Laya Liz Kuriakose Dr. R. Sindhu	Integrated biorefinery development for pomegranate peel: Prospects for the production of fuel, chemicals and bioactive molecules	Bioresource Technology	362, 127833, 2023	11.889

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Sl. No:	Name of Faculty	Title of article	Journal name	Volume, Page number and year of publication	Impact Factor
1	Sonu. S. Shibu Dr. R. Sindhu	Bioactive edible packaging from *Selaginella* sp. : A novel source of sustainable packaging	Chetana	1, 6-10, 2022	-
2	Dr. R. Sindhu	Comprehensive review of feedstocks as sustainable substrates for next-generation biofuels	BioEnergy Research	April 2022	3.6
3	Dr. R.Sindhu	An overview of cellulase immobilization strategies for biofuel production	BioEnergy Research	March 2022	3.6
4	Dr. R. Sindhu	Waste-derived fuels and renewable chemicals for bioeconomy production: A sustainable approach	BioEnergy Research	March 2022	3.6
5	Dr. R. Sindhu	Catalytic synthesis of 5-Hydroxymethyl furfural from sorghum syrup derived fructose	Sustainable Energy Technologies and Assessments	54, 102884	

6	Dr. R. Sindhu	A critical review on valorization of food processing wastes and by-products for pullulan production	Journal of Food Science and Technology	June 2022	3.852
7	Dr. R. Sindhu	Bioactive metabolites in functional and fermented foods and their role as immunity booster and anti-viral innate mechanisms	Journal of Food Science and Technology	June 2022	3.852
8	Dr. R. Sindhu	Microbial production of nutraceuticals: Metabolic engineering interventions in phenolic compounds, polyunsaturated fatty acids and carotenoid synthesis	Journal of Food Science and Technology	June 2022	3.852
9	Dr. A. Surendhar	Evaluation of power generation and treatment efficiency of dairy wastewater in microbial fuel cell using TiO_2 – SPEEK as proton exchange membrane	Water Science and Technology	84, 10-11, 3388, 2022	1.915
10	Dr. A. Surendhar	Enhanced performance of novel carbon nanotubes – sulfonated polyether ketone (speek) composite proton exchange membrane in mfc application	Chemosphere	293, 133560, 2022	7.086
11	Dr. R.Sindhu	Mitigation of tannery effluent with simultaneous generation of bioenergy using dual chambered microbial fuel cell.	Bioresource Technology	351, 127084, 2022	9.643
12	Dr. R. Sindhu	Microbial production of nutraceuticals: Metabolic engineering interventions in phenolic compounds, polyunsaturated fatty acids and carotenoids synthesis	Journal of Food Science and Technology	Accepted	2.701
13	Dr. R. Sindhu	Neem extract blended nanocellulose derived from jackfruit peel for antimicrobial packagings	Environmental Science and Pollution Research	In Press	4.223
14	Dr. R. Sindhu	Nanocellulose in tissue engineering and bioremediation: Mechanism of action	Bioengineered	13, 12823-12833, 2022	3.269
15	Dr. R. Sindhu	Processing of municipal solid waste resources for a circular economy in China: An overview	Fuel	317, 123478, 2022	6.609
16	Dr. R. Sindhu	Developments in smart organic coatings for	Biomass	In Press	4.987

		anticorrosion applications: a review	Conversion and Biorefinery		
17	Dr. R. Sindhu	Active pharmaceutical ingredient (API) chemicals: a critical review of current biotechnological approaches	Bioengineered	13, 4309-4327, 2022	3.269
18	Dr. R. Sindhu	Sustainable biorefinery approaches towards circular economy for conversion of biowaste to value added materials and future perspectives.	FUEL	(2022) 325, 124846	6.609
19	Dr. R. Sindhu	Bioremediation of endocrine disrupting chemicals- Advancements and challenges	Environmental Research	(2022) 213, 113509	6.498
20	Dr. R. Sindhu	. Green fabrication of silver nanoparticles using *Chloroxylon swietenia* leaves and their application towards dye degradation and food borne pathogens	Food and Chemical Toxicology	(2022) 165, 113192	6.023
21	Dr. R. Sindhu	Insight into citric acid: A versatile organic acid	FUEL	(2022) 327, 125181	6.609
22	Dr. R. Sindhu	Microbial Electrolysis Cell (MEC): reactor configuration, recent advances and strategies in biohydrogen production.	FUEL	(2022) 328, 125269	6.609
23	Dr. R. Sindhu	Myco-biorefinery approaches for food waste valorization: Present status and future prospects	Bioresource Technology	(2022) 360, 127592	9.643
24	Dr. R. Sindhu	Recovery of value-added products from biowaste	Bioresource Technology	(2022) 360, 127565	9.643
25	Dr. R. Sindhu	Microbial engineering for the production and applications of phytases for the treatment of the toxic pollutants: A review	Environmental Pollution	(2022) 308, 119703	9.988
26	Dr. R. Sindhu	Bacterial bioactive metabolites as therapeutic agents: From production to action	Sustainable Chemistry and Pharmacy	27, 100650, 2022	4.567

27	Dr. R. Sindhu	Nutrient acclimation in benthic diatoms with adaptive laboratory evolution	Bioresource Technology	351, 126955, 2022	9.643
28	Dr. R. Sindhu	Emerging trends of microbial technology for the production of oligosaccharides from biowaste and their potential application as prebiotic	International Journal of Food Microbiology	368, 109610, 2022	3.451
29	Dr. R. Sindhu	A comprehensive review on feedstocks as substrates for next generation biofuels.	BioEnergy Research	Accepted	2.814
30	Dr. R. Sindhu	Cellulase immobilization by nanoparticles for biofuel applications: Strategies and perspectives	BioEnergy Research	In Press	2.814
31	Dr. R. Sindhu	Waste derived fuels and chemicals for bioeconomy promotion: A sustainable approach	BioEnergy Research	In Press	2.814
32	Dr. R. Sindhu	Enhancement of Mechanical and Thermal Properties of *Ixoracoccinea* L. Plant Root derived Nanocellulose using Polyethylene glycol-Glutaraldehyde system	Chemosphere	In Press	7.086
33	Dr. R. Sindhu	Green route for recycling of low-cost waste resources for the biosynthesis of nanoparticles (NPs) and nanomaterials (NMs)- A review	Environmental Research	207, 112202, 2022	6.498
34	Dr. R. Sindhu	Multi-criteria research lines on livestock manure biorefinery development towards a circular economy: From the perspective of a life cycle assessment and business model strategies	Journal of Cleaner Production	341, 130862, 2022	9.297
35	Dr. R. Sindhu	Challenges and opportunities in bioremediation of micro-nanoplastics: A review	Science of the Total Environment	802, 149823, 2022	7.963

36	Dr. R. Sindhu	Valorization of renewable resources to functional oligosaccharides: Recent trends and future prospective	Bioresource Technology	346, 126590, 2022	9.643
37	Dr. R. Sindhu	Chili post-harvest residue derived nanocellulose composite as a matrix for in vitro cell culture and *Hemigraphis colorata* blended nanocellulose extends antimicrobial potential	Sustainable Chemistry and Pharmacy	25, 100584, 2022	4.567
38	Dr. R. Sindhu	Updates on high value products from cellulose biorefinery	Fuel	308, 122056, 2022	6.609
39	Dr. R. Sindhu	Nanocellulose as green material for remediation o hazardous heavy metal contaminants	Journal of Hazardous Materials	424, 127516, 2022	10.588
40	Dr. R. Sindhu	Recent trends and developments on integrated biochemical conversion process for valorization of dairy waste to value added bioproducts: A review	Bioresource Technology	344, 126193, 2022	9.643
41	Dr. R. Sindhu	Microbial valorization of lignin: Prospects and challenges	Bioresource Technology	344, 126240, 2022	9.643
42	Dr. R. Sindhu	Current state of the art biotechnological strategies for conversion of watermelon wastes residues to biopolymers production: A review	Chemosphere	290, 133310, 2022	7.086
43	Dr. R. Sindhu	Agricultural waste biorefinery development towards circular bioeconomy	Renewable and Sustainable Energy Reviews	158, 112122, 2022	14.982
44	Dr. R. Sindhu	Sustainable processes for treatment and management of seafood solid waste	Science of the Total Environment	817, 152951, 2022	7.963
45	Dr. R. Sindhu	Bacterial biopolymers: From production to applications	Sustainable Chemistry and	25, 100582, 2022	4.567

			Pharmacy		
46	Dr. R. Sindhu	Engineering interventions in industrial filamentous fungal cell factories for biomass valorization	Bioresource Technology	344, 126209, 2022	9.643
47	Dr. R. Sindhu	The hazardous threat of Bisphenol A: Toxicity, detection and remediation	Journal of Hazardous Materials	423, 127097, 2022	10.588
48	Dr. R. Sindhu	Process optimization for production and recovery of succinic acid using xylose-rich hydrolyzate by *Actinobacillus succinogenes*	Bioresource Technology	344, 126224, 2022	9.643
49	Dr. R. Sindhu	Biopolymer poly-3-hydroxybutyrate (PHA) production from apple industrial waste residues: A review	Chemosphere	284, 131427, 2021	7.086
50	Dr. R. Sindhu	Microbial engineering for the production of isobutanol: Current status and future directions	Bioengineered	12(2), 12308-12321, 2021	3.269
51	Dr. R. Sindhu	Isobutanol production from *Candida glabrata*: A potential organism for future fuel demands	Fuel	306, 121634, 2021	6.609
52	Dr. R. Sindhu	Green remediation of the potential hazardous shellfish wastes generated from the processing industries and their bioprospecting	Environmental Technology and Innovation	24, 101979, 2021	5.2
53	Dr. R. Sindhu	Protease catalysed production of spent hen meat hydrolyzate powder for health food applications	Journal of Food Quality	1-9, 2021	2.45
54	Dr. R. Sindhu	Probiotics and gut microbiome: Prospects and challenges in remediating heavy metal toxicity	Journal of Hazardous Materials	420, 126676, 2021	10.588

55	Dr. R. Sindhu	Sweet sorghum juice as an alternative carbon source and adaptive evolution of *Lactobacillus brevis* NIE9.3.3 in sweet sorghum juice and biodiesel derived crude glycerol to improve 1,3-propanediol production	Journal of Environmental Chemical Engineering	9, 106086, 2021	5.909
56	Dr. R. Sindhu	Valorization of paper industry rejects by combined thermo-chemical pretreatment and biological conversion to L-lysine	Environmental Technology and Innovation	24, 101882, 2021	5.2
57	Dr. R. Sindhu	Promising eco-friendly biomaterials for future biomedicine: Cleaner production and applications of nanocellulose	Environmental Technology and Innovation	24, 101855, 2021	5.2
58	Dr. R. Sindhu	Bacterial nanocellulsoe: engineering, production and applications	Bioengineered	12 (2), 11463 -11483, 2021	3.269
59	Dr. R. Sindhu	Strategies and advances in the pretreatment of microalgal biomass	Journal of Biotechnology	341, 63-75, 2021	3.307
60	Dr. R. Sindhu	Tailoring of hybrid intelligent model to predict fermentable sugar production from enzyme-catalyzed hydrolysis of damaged wheat grains	Food Bioscience	43, 101299, 2021	4.240
61	Dr. R. Sindhu	Cleaner technologies to combat heavy metal toxicity	Journal of Environmental Management	296, 113231, 2021	6.789
62	Dr. R. Sindhu	Hazardous mineral mining: Challenges and solution	Journal of Hazardous Materials	402, 123474, 2021	10.588
63	Dr. R. Sindhu	Technical, economic and environmental feasibility of resource recovery technologies from wastewater	Science of the Total Environment	796, 149022, 2021	7.963

64	Dr. R. Sindhu	Strategic evolution of limiting factors affecting algal growth – An approach to waste mitigation and carbon dioxide sequestration	Science of the Total Environment	796, 149049, 2021	7.963

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1	Dr. R. Sindhu	Thermophilic chitinases: Structural, functional and engineering attributes for industrial applications	Applied Biochemistry and Biotechnology	193, 142-164, 2021	2.277
2	Dr. R. Sindhu	Recent advances in biodiesel production: Challenges and solutions	Science of the Total Environment	794, 148751, 2021	7.963
3	Dr. R. Sindhu	Enzymatic approaches in the bioprocessing of shellfish wastes	3 Biotech	11, 367, 2021	3.203
4	Dr. R. Sindhu	A detailed scrutinize on panorama of catalysts in biodiesel synthesis	Science of the Total Environment	777, 145683, 2021	7.963
5	Dr. R. Sindhu	Bioprospecting of gut microflora for plastic biodegradation	Bioengineered	12(1), 1040-1053, 2021	3.269
6	Dr. R. Sindhu	Engineering interventions in enzyme production: Lab to industrial scale	Bioresource Technology	326, 124771, 2021	9.643
7	Dr. R. Sindhu	Design of novel enzyme biocatalysts for	Bioresource	325, 124617, 2021	9.643

		industrial bioprocess: Harnessing the power of protein engineering, high throughput screening and synthetic biology	Technology		
8	Dr. R. Sindhu	Customized yeast cell factories for biopharmaceuticals: from cell engineering to process scale up	Microbial Cell Factories	20, 124, 2021	5.3
9	Dr. R. Sindhu	A critical review on different harvesting techniques for algal based biodiesel production	Science of the Total Environment	780, 146467, 2021	7.963
10	Dr. R. Sindhu	Technologies for disinfection of food grains: Advances and way forward	Food Research International	145, 110396, 2021	6.475
11	Dr. R. Sindhu	An environmentally sustainable green process for the utilization of damaged wheat grains for poly-3-hydroxybutyrate production	Environmental Technology and Innovation	21, 101271, 2021	5.2
12	Dr. R. Sindhu	Critical review on technological advancements for effective waste management of municipal solid waste-Updates and way forward	Environmental Technology and Innovation	23, 101749, 2021	5.2
13	Dr. R. Sindhu	Techno-economic and life cycle assessment of biological and thermochemical treatment of biowaste	Renewable and Sustainable Energy Reviews	144, 110837, 2021	14.982
14	Dr. R. Sindhu	Nanobiocatalysts : Advancements and applications in enzyme technology	Bioresource Technology	337, 125491, 2021	9.643
15	Dr. R. Sindhu	Sustainable blueberry waste recycling towards biorefinery strategy and circular bioeconomy: A review	Bioresource Technology	332, 125181, 2021	9.643
16	Dr. R. Sindhu	A critical review on the development stage of biorefinery system towards the management of apple processing derived waste	Renewable and Sustainable Energy Reviews	143, 110972, 2021	14.982

17	Dr. R. Sindhu	Sugarcane bagasse derived nanocellulose reinforced with frankinscense (*Boswellia serrata*): Physicochemical properties, biodegradability and antimicrobial effect for controlling microbial growth for food packaging application	Environmental Technology and Innovation	21, 101335, 2021	5.2
18	Dr. R. Sindhu	Advanced biomaterials for sustainable applications in the food industry: Updates and Challenges	Environmental Pollution	283, 117071, 2021	8.071
19	Dr. R. Sindhu	Potential of nanocellulose for wastewater treatment	Chemosphere	281, 130738, 2021	7.086
20	Dr. R. Sindhu	Bioplastic production from renewable lignocellulosic feedstocks: A review	Reviews in Environmental Science and Biotechnology	20, 167-187, 2021	8.044
21	Dr. R. Sindhu	Recent advances in microbial synthesis o C3-C5 diols: Genetics and process engineering approaches	Bioresource Technology	322, 124527, 2021	9.643
22	Dr. R. Sindhu	Metabolic circuits and gene regulators in polyhydroxyalkanoate producing organisms: Intervention strategies for enhanced production	Bioresource Technology	327, 124791, 2021	9.643
23	Dr. R. Sindhu	Development of an eco-friendly biodegradable plastic from jack fruit peel cellulose with different plasticizers and *Boswellia serrata* as filler	Science of the Total Environment	767, 144285, 2021	7.963
24	Dr. R. Sindhu	Production and beneficial impact of biochar for environmental application: A comprehensive review	Bioresource Technology	337, 125451, 2021	9.643
25	Dr. R. Sindhu	Nanocellulose- based products for sustainable applications- recent trends and	Reviews in Environmental	19, 779-806, 2020	8.044

		possibilities	Science and Biotechnology		
26	Dr. R. Sindhu	Sustainable and eco-friendly strategies for shrimp shell valorization	Environmental Pollution	267, 115656, 2020	8.071
27	Dr. R. Sindhu	A green biorefinery platform for cost-effective nanocellulose production: investigation of hydrodynamic properties and biodegradability of thin films	Biomass Conversion and Biorefinery	2020	4.987

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Sl. No:	Name of Faculty	Title of article	Journal name	Volume, Page number and year of publication	Impact Factor
1	Dr. R. Sindhu	Statistical and media engineering approaches to enhance the butanol production from isolated microbial strains	Journal of Energy and Environmental Sustainability	9, 72-76, 2020	-
2	Dr. R. Sindhu	Sustainability and life cycle assessments of lignocellulosic and algal pretreatments	Bioresource Technology	301, 122678, 2020	9.643
3	Dr. R. Sindhu	Bioconversion of waste cooking oil for the production of poly-3-hydroxybutyrate using *Bacillus cereus* MPTDC	Indian Journal of Experimental Biology	58, 557-562, 2020	1.475
4	Dr. R. Sindhu	Valorization of food and kitchen waste:	Bioresource	310, 123515, 2020	9.643

		An integrated strategy adopted for the production of poly-3-hydroxybutyrate, bioethanol, pectinase and 2, 3-butanediol	Technology		
5	Dr. R. Sindhu	Microbial approaches for remediation of pollutants: Innovations, future outlook and challenges	Energy and Environment	1-30, 2020	1.092
6	Dr. R. Sindhu	Remodeling agro-industrial and food wastes into value-added bioactives and biopolymers	Industrial Crops and Products	154, 112621, 2020	4.244
7	Dr. R. Sindhu	Pretreatment strategies for enhanced biogas production from lignocellulosic biomass	Bioresource Technology	301, 122725, 2020	9.643
8	Dr. R. Sindhu	Fumaric acid production from sugarcane trash hydrolyzate using *Rhizopus oryzae* NIIST1	Indian Journal of Experimental Biology	58, 548-556, 2020	1.475
9	Dr. R. Sindhu	Critical overview of biomass feedstocks as sustainable substrates for the production of polyhydroxybutyrate (PHB)	Bioresource Technology	311, 123536, 2020	9.643
10	Dr. R. Sindhu	Lignocellulosic biorefinery approach for microbial 2,3-butanediol production	Bioresource Technology	302, 122873, 2020	9.643
11	Dr. R. Sindhu	Acid hydrolysis of damaged wheat grains: Modeling the formation of reducing sugars by a neural network approach	Industrial Crops and Products	149, 112351, 2020	4.244
12	Dr. R. Sindhu	Synthesis and characterization of transparent biodegradable chitosan: Exopolysaccharide composites films plasticized by bio-derived 1,3-	Sustainable Chemistry	2, 49-62, 2020	-

		propanediol			
13	Dr. R. Sindhu	Lipase of *Pseudomonas guariconesis* as an additive in laundry detergents and transesterification bioctalysts	Journal of Basic Microbiology	60, 112-125, 2019	1.909

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Sl. No:	Name of Faculty	Title of article	Journal name	Volume, Page number and year of publication	Impact Factor
1	Dr. R. Sindhu	An eco-friendly strategy for the production of cellulose acetate and development of thin films from jack fruit peel using polyethylene glycol	Journal of Environmental Science and Engineering	61, 629-635, 2019	-
2	Dr. A. Surendhar	Energy and exergy analysis, drying kinetics, modelling and quality parameters of microwave dried turmeric slices	Journal of Thermal Analysis and Calorimetry	136, 185-197, 2019	4.626