<u>Trends in catalytic production of biodiesel from various feedstocks</u> G Baskar, R AiswaryaRenewable and Sustainable Energy Reviews 57, 496-504	2016
Biodiesel production from castor oil using heterogeneous Ni doped ZnO nanocatalyst G Baskar, IAE Selvakumari, R Aiswarya Bioresource technology 250, 793-798	2018
Biodiesel production from waste cooking oil using copper doped zinc oxide nanocomposite as heterogeneous catalyst B Gurunathan, A Ravi Bioresource technology 188, 124-127	2015
Production of biodiesel from castor oil using iron (II) doped zinc oxide nanocatalystG Baskar, S Soumiya Renewable Energy 98, 101-107	2016
Process optimization and kinetics of biodiesel production from neem oil using copper doped zinc oxide heterogeneous nanocatalyst B Gurunathan, A Ravi Bioresource technology 190, 424-428	2015
Optimization and kinetics of biodiesel production from Mahua oil using manganese doped zinc oxide nanocatalyst G Baskar, A Gurugulladevi, T Nishanthini, R Aiswarya, K TamilarasanRenewable energy 103, 641-646	2017
Ultrasound assisted phytosynthesis of iron oxide nanoparticle K Sathya, R Saravanathamizhan, G Baskar Ultrasonics Sonochemistry 39, 446–451	2017
Bioethanol production from palm wood using Trichoderma reesei and Kluveromyces marxianusER Sathendra, G Baskar, R Praveenkumar, E Gnansounou Bioresource technology 271, 345-352	2019
Overview on mitigation of acrylamide in starchy fried and baked foods G Baskar, R AiswaryaJournal of the Science of Food and Agriculture 98 (12), 4385-4394	2018
Malic acid production by chemically induced Aspergillus niger MTCC 281 mutant from crude glycerol J lyyappan, B Bharathiraja, G Baskar, J Jayamuthunagai, S Barathkumar Bioresource technology 251, 264-267	2018
Sesbania aculeate biomass hydrolysis using magnetic nanobiocomposite of cellulase for bioethanol productionG Baskar, RN Kumar, XH Melvin, R Aiswarya, S Soumya Renewable Energy 98, 23-28	2016
Biosynthesis of zinc oxide nanoparticles using Aspergillus fumigatus JCF and its antibacterial activity A Rajan, E Cherian, G BaskarInt J Mod Sci Technol 1, 52-7	2016
Magnetic immobilization and characterization of α-amylase as nanobiocatalyst for hydrolysis of sweet potato starch G Baskar, NA Banu, GH Leuca, V Gayathri, N Jeyashree Biochemical engineering journal 102, 18-23	2015
Biodiesel production from Calophyllum inophyllum oil using zinc doped calcium	2019

oxide (Plaster of Paris) nanocatalyst R Naveenkumar, G Baskar Bioresource technology 280, 493-496	
Synergism of clay with zinc oxide as nanocatalyst for production of biodiesel from marine Ulva lactuca G Kalavathy, G Baskar Bioresource technology 281, 234-238	2019
Production of L-asparaginase from Natural Substrates by Aspergillus terreus MTCC 1782: Optimization of Carbon source and Operating conditions  G Baskar, S Renganathan International Journal of Chemical Reactor Engineering 9 (1)	2011
Process optimization and kinetic analysis of malic acid production from crude glycerol using Aspergillus niger J lyyappan, B Bharathiraja, G Baskar, E Kamalanaban Bioresource technology 281, 18-25	2019
Malic acid production from biodiesel derived crude glycerol using morphologically controlled Aspergillus niger in batch fermentation  J lyyappan, G Baskar, B Bharathiraja, R Saravanathamizhan Bioresource technology 269, 393-399	2018
Enzymatic mitigation of acrylamide in fried potato chips using asparaginase from Aspergillus terreus R Aiswarya, G Baskar International Journal of Food Science & Technology 53 (2), 491-498	2018
Gold nanoparticle mediated delivery of fungal asparaginase against cancer cells G Baskar, BG Garrick, K Lalitha, M Chamundeeswari Journal of Drug Delivery Science and Technology 44, 498-504	2018
Mineralization of aromatic amines liberated during the degradation of a sulfonated textile colorant using Klebsiella pneumoniae strain AHM MA Kumar, S Poonam, VV Kumar, G Baskar, M Seenuvasan, D Anuradha, Process Biochemistry 57, 181-189	2017
Synthesis of manganese dioxide nanoparticles using co-precipitation method and its antimicrobial activity E Cherian, A Rajan, G Baskar International Journal of Modern Science and Technology 1, 17-22	2016
Advances in bio-oil extraction from nonedible oil seeds and algal biomass G Baskar, G Kalavathy, R Aiswarya, IA Selvakumari Advances in Eco-Fuels for a Sustainable Environment, 187-210	2019
Bioremediation: applications for environmental protection and management SJ Varjani, AK Agarwal, E Gnansounou, B Gurunathan Springer	2018

Biodiesel production from pongamia oil using magnetic composite of zinc oxide nanocatalyst G Baskar, S Soumiya, R Aiswarya International Journal of Modern Science and Technology 1 (4), 129-137	2016
Bioethanol production from woody stem Prosopis juliflora using thermo tolerant yeast Kluyveromyces marxianus and its kinetics studies S Sivarathnakumar, J Jayamuthunagai, G Baskar, R Praveenkumar, Bioresource Technology 293, 122060	2019
A novel approach for extraction of algal oil from marine macroalgae Ulva fasciata T Veeranan, R Kasirajaan, B Gurunathan, R Sahadevan Renewable Energy 127, 64-73	2018
Biodegradation of toluene vapor in coir based upflow packed bed reactor by Trichoderma asperellum isolate  M Gopinath, C Mohanapriya, K Sivakumar, G Baskar, C Muthukumaran, Environmental Science and Pollution Research 23 (5), 4129-4137	2016
Genetically modified organisms and its impact on the enhancement of bioremediation  NM Kumar, C Muthukumaran, G Sharmila, B Gurunathan Bioremediation: Applications for Environmental Protection and Management, 53-76	2018
Synthesis and characterization of asparaginase bound silver nanocomposite against ovarian cancer cell line A2780 and lung cancer cell line A549 G Baskar, GB George, M Chamundeeswari Journal of Inorganic and Organometallic Polymers and Materials 27 (1), 87-94	2017
Acrylamide mitigation in fried Kochchi Kesel chips using free and immobilized fungal asparaginase A Ravi, B Gurunathan Food technology and biotechnology 56 (1), 51-57	2018
Production of biodiesel from waste cooking oil using MgMoO <sub>4</sub> -supported TiO <sub>2</sub> as a heterogeneous catalyst M Karthikeyan, S Renganathan, G Baskar Energy Sources, Part A: Recovery, Utilization, and Environmental Effects 39	2017
Synthesis, characterization and synergistic activity of cerium-selenium nanobiocomposite of fungal I-asparaginase against lung cancer G Baskar, K Lalitha, R Aiswarya, R Naveenkumar Materials Science and Engineering: C 93, 809-815	2018
Optimization and kinetics of ultrasonic assisted biooil extraction from Madhuca indica seeds G Baskar, R Naveenkumar, N Mohanapriya, R Aiswarya Industrial Crops and Products 124, 954-959	2018
Waste bioremediation SJ Varjani, E Gnansounou, B Gurunathan, D Pant, ZA Zakaria Springer	2017
Conjugation, labeling and characterization of asparaginase bound silver nanoparticles for anticancer applications G Baskar, K Lalitha, BG Garrick, M hamundeeswari NISCAIR-CSIR, India	2017

Recent advances in microbial production of malic acid from renewable byproducts J lyyappan, G Baskar, E Gnansounou, A Pandey, JK Raaman, Reviews in Environmental Science and Bio/Technology, 1-17	2019
Synthesis, characterization and anticancer activity of selenium nanobiocomposite of I-asparaginase G Baskar, K Lalitha, GB George Bulletin of Materials Science 42 (1), 4	2019
Microbial transformation of heavy metals ER Sathendra, RP Kumar, G Baskar Waste Bioremediation, 249-263	2018
Optimization and techno-economic analysis of biodiesel production from Calophyllum inophyllum oil using heterogeneous nanocatalyst R Naveenkumar, G Baskar Bioresource Technology 315, 123852	2020
Bioethanol production from Codium tomentosum residue K Gengiah, GLP Moses, G Baskar Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 1-10	2020
Introduction to waste bioremediation SJ Varjani, E Gnansounou, G Baskar, D Pant, ZA Zakaria Waste Bioremediation, 1-5	2018
Simultaneous saccharification and fermentation of woody stem Prosopis juliflora by Zymomonas mobilis for the production of cellulosic ethanol S Sivarathnakumar, G Baskar, R Praveenkumar, B Bharathiraja International Journal of Materials and Product Technology 55, 236–253.	2017
Microbial abatement of toluene using Aspergillus niger in upflow bioreactor M Gopinath, C Mohanapriya, K Sivakumar, G Baskar, C Muthukumaran, Ecotoxicology and environmental safety 134, 370-376	2016
Glutaraldehyde-mediated synthesis of asparaginase-bound maghemite nanocomposites: Cytotoxicity against human colon adenocarcinoma cells G Baskar, GB George Asian Pacific Journal of Cancer Prevention 17 (9), 4237-4240	2016
Production and optimization of cellulase from agricultural waste and its application in bioethanol production by simultaneous saccharification and fermentation PK Ramanujam, E Cherian, MD Kumar, G Baskar Management of Environmental Quality: An International Journal	2016
Optimization of enzymatic pretreatment and frying conditions for acrylamide mitigation in fried tapioca chips G Baskar, S Subanjalin Joy, R Aiswarya International Journal of Modern Science and Technology 1 (6), 224-229	2016
Magnetic nanocomposite of activated charcoal for removal of Congo red dye: equilibrium and kinetic modeling. G Baskar, V Dhanusree, R Shravanthi, GB George Management of Environmental Quality 27 (1), 45-58	2016
Osmotic dehydration of fruits – An integrated approach N Josephine Selvi, G Baskar, S Aruna International Journal of Food and Nutritional Sciences 3 (3), 18-23	2014

Green synthesised iron and iron-based nanoparticle in environmental and biomedical application:—a review S Karunakaran, S Ramanujam, B Gurunathan IET nanobiotechnology 12 (8), 1003-1008	2018
Microalgae—a source for third-generation biofuels G Baskar, S Soumiya, R Aiswarya, S Renganathan Bioprocess Engineering for a Green Environment, 297-306	2018
Microbial production of L-asparaginase and its immobilization on chitosan for mitigation of acrylamide in heat processed carrot slices R Aiswarya, G Baskar NISCAIR-CSIR, India	2018
Anticancer Activity of Iron oxide Nanobiocomposite of Fungal Asparaginase G Baskar, J Chandhuru, AS Praveen, KS Fahad International Journal of Modern Science and Technology, Vol. 2, No. 3, 2017	2017
Role of extrusion technology in food processing and its effect on nutritional values G Baskar, R Aiswarya Intern J of Modern Sci & Techn 1 (1), 1-4	2016
Bioethanol production by the utilisation of Moringa oleifera stem with sono-assisted acid/alkali hydrolysis approach S Sivarathnakumar, G Baskar, RP Kumar, B Bharathiraja International Journal of Environment and Sustainable Development 15 (4), 392-403	2016
In vitro cytotoxicity of copper oxide nanobiocomposites synthesized by Catharanthus roseus flower extract against breast cancer cell line G Baskar, K Sathivel, GB George J Chem Pharm Sci 9 (1), 211-214	2016
Contemporary approaches towards augmentation of distinctive heterogeneous catalyst for sustainable biodiesel production A Ravi, B Gurunathan, N Rajendiran, S Varjani, E Gnansounou, A Pandey,Environmental Technology & Innovation, 100906	2020
Synthesis, characterization and anticancer activity of β-cyclodextrin-Asparaginase nanobiocomposite on prostate and lymphoma cancer cells G Baskar, NS Sree Journal of Drug Delivery Science and Technology 55, 101417	2020
Refining Biomass Residues for Sustainable Energy and Bioproducts: Technology, Advances, Life Cycle Assessment, and Economics RP Kumar, E Gnansounou, JK Raman, G Baskar Academic Press	2019
Ultrasonic assisted extraction of oil from castor seeds: optimization using response surface methodology, extraction kinetics and characterization R Naveenkumar, G Baskar Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 1-12	2019
Production of biodiesel from pork fat using alumina-doped calcium oxide nanocomposite as heterogeneous catalyst E Cherian, D Yazhini, M Victor, G Baskar Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 1-10	2019
Applications of asparaginase in food processing G Baskar, R Aiswarya, S Renganathan Green Bio-processes, 83-98	2019

Bioremediation of Volatile Organic Compounds in Biofilters  M Gopinath, RH Pulla, KS Rajmohan, P Vijay, C Muthukumaran,  Bioremediation: Applications for Environmental Protection and Management	2018
Microscopic and Spectroscopic analysis of asparaginase treated fried tapioca chips G Baskar, R Aiswarya, S Subanjalin Joy Int J Ind Eng 1, 135-140	2017
Macroalgae: Source for Sustainable Production of Biodiesel S Soumiya, G Baskar International Journal of Industrial Engineering 1 (1), 1-7	2017
Enhanced pretreatment, characterization and utilization of Prosopis juliflora stem for bioethanol production S Sivarathnakumar, G Baskar, RP Kumar, B Bharathiraja Management of Environmental Quality: An International Journal	2016
Synthesis and Characterization of Gold Nanobiocomposite of Asparaginase using Aspergillus terreus G Baskar, J Chandhuru, AS Praveen, K Sheraz Fahad International Journal of Modern Science and Technology 1 (8), 288-295	2016
Anticancer activity of gelatin-asparaginase nanobiocomposite against cervical and brain cancer cell lines G Baskar, NS Sree Journal of Drug Delivery Science and Technology, 101689	2020
Production of bioethanol from lignocellulosic banana peduncle waste using Kluveromyces marxianus ER Sathendra, G Baskar, R Praveenkumar Journal of Environmental Biology 40 (4), 769-774	2019
ANN modeling for scale-up of green synthesis of iron oxide nanoparticle and its application for decolorization of dye effluent K Sathya, R Saravanathamizhan, G Baskar Desalin Water Treat 121, 158-165	2018
Evaluation of Catharanthus roseus Biodiesel as an Alternative Fuel to study the Performance and Emission Characteristics via 4-S Internal Combustion Engine M Karthikeyan, G Baskar, S Renganathan International Journal of Industrial Engineering 2 (7), 160-166	2018
Marine Algae–Future Source of Biofuels G Baskar, IAE Selvakumari, R Aiswarya	2018
Bioremediation of Industrial and Municipal Wastewater Using Microalgae B Gurunathan, IAE Selvakumari, R Aiswarya, S Renganthan Bioremediation: Applications for Environmental Protection and Management	2018
Introduction to environmental protection and management SJ Varjani, AK Agarwal, E Gnansounou, B Gurunathan Bioremediation: Applications for Environmental Protection and Management, 1-6	2018
Prosopis Juliflora Bark—An Alternate Feedstock in the Production of Bioethanol Using Thermo Tolerant Yeast Kluyveromyces Marxianus S Sivarathnakumar, G Baskar, B Bharathiraja, RP Kumar, Biosciences Biotechnology Research Asia 14 (3), 945-951	2017

Statistical optimization of I-asparaginase production by E. coli K-12 MTCC 1302 J lyyappan, B Gurunathan Int J Ind Eng 1, 178-182	2017
Non-edible oil seeds: Potential Source for Biodiesel Production G Baskar, SR Nivetha, N Mohanapriya, R Asiwarya International Journal of Industrial Engineering 1 (6), 183-187	2017
Optimisation and kinetics of biosorption of Coomassie Brilliant Blue G250 dye from synthetic effluent using Pennisetum purpureum biosorbent G Baskar, C Sriharini, R Sripriya, SK Pavithra International Journal of Environment and Sustainable Development 15 (3), 241-253	2016
Algal biomass as a source for novel oral nano-antimicrobial agent M Vikneshan, R Saravanakumar, R Mangaiyarkarasi, S Rajeshkumar, Saudi Journal of Biological Sciences 27 (12), 3753-3758	2020
Process optimization, green chemistry balance and technoeconomic analysis of biodiesel production from castor oil using heterogeneous nanocatalyst R Naveenkumar, G Baskar Bioresource Technology 320, 124347	2020
Introduction to Enzyme Inhibition–Environmental and Biomedical Applications G Baskar, R Aiswarya, KS Kumar, K Tamilarasan Enzyme Inhibition-Environmental and Biomedical Applications 1, 1-4	2020
Enzyme Biosensors Based on Enzyme Inhibition for Pesticide and Heavy Metal Detection E Cherian, G Baskar Enzyme Inhibition-Environmental and Biomedical Applications 1, 59-72	2020
Product Inhibition in Bioethanol Fermentation: An Overview ER Sathendra, G Baskar, RP Kumar Enzyme Inhibition-Environmental and Biomedical Applications 1, 122-147	2020
Enhanced malic acid production using Aspergillus niger coupled with in situ product recovery J lyyappan, G Baskar, B Bharathiraja, M Gopinath Bioresource Technology, 123259	2020
Application of proteometric approach for identification of functional mutant sites to improve the binding affinity of anticancer biologic trastuzumab with its antigen human N Balakrishnan, B Gurunathan, KM Surapaneni Journal of Molecular Recognition 33 (2), e2818	2020
Cassia javanica biodiesel blends with SiO2 nanoparticles for IC Engine applications M Karthikeyan, S Nambirajan, G Baskar, S Renganathan NISCAIR-CSIR, India	2020
A Biorefinery approach towards development of renewable platform chemicals from sustainable biomass G Baskar, R Aiswarya, G Kalavathy, A Pandey, E Gnansounou, JK Raman, Refining Biomass Residues for Sustainable Energy and Bioproducts, 135-147	2020
International Journal of Advances in Computer Science and Technology F Fouad International Journal 8 (10)	2019

Green Synthesis and Characterization of Cadmium-Tellurium Quantum Dots Using Pomelo Peel Aqueous Extract A Mahalakhsmi, G Baskar Journal of Electronic Materials 48 (9), 5975-5979	2019
Lipase Functionalized Magnetic Nanobiocatalyst for Transesterification of Waste cooking oil into Biodiesel G Baskar, R Aiswarya	2019
Immobilized Biocatalysts in Bioethanol Production: Scale-up Opportunities for Commercialization E Cherian, G Baskar Horizons in Bioprocess Engineering, 241-262	2019
Madhuca indica seeds: A Potential Source for Industrial Production of Biodiesel G Baskar International Journal of Industrial Engineering 3 (2), 11-14	2019
Department of Biotechnology, St. Joseph's College of Engineering, Chennai, India G Baskar, G Kalavathy, R Aiswarya, IA SelvakumariAdvances in Eco-Fuels for a Sustainable Environment, 187	2019
7 Advances in bio-oil extraction from nonedible oil seeds and algal G Baskar, G Kalavathy, R Aiswarya, IA Selvakumari Advances in Eco-Fuels for a Sustainable Environment, 187	2018
Smanjenje udjela akrilamida u prženom čipsu od banana pomoću imobilizirane asparaginaze izolirane iz plijesni A Ravi, B Gurunathan Food Technology and Biotechnology 56 (1), 51-57	2018
This journal GPA Islam, Z Yaakob, N Anuar, SRP Primandari, JA Ghani, SK Nayak,	2018
Thermal modeling and performance of a single slope passive solar still with phase change material. C Nithyanandam, G Baskar, R Umamaheswari Desalination and Water Treatment 103, 1-10	2018
Removal of methylene blue using polyacrylonitrile yarn waste/carboxylic group functionalized multiwall carbon nanotube nanofibrous composite. S Swaminathan, NM Imayathamizhan, A Muthumanickkam, G Baskar Desalination and Water Treatment 113, 244-253	2018
of acrylamide in starchy fried and baked foods Jour nal of the Science of Food and Agriculture (2018) doi. org/1o. 1002/jsfa. 9013 [published online before print: 23 March 20182]. G Baskar Proceedings, Vol 39 (1), 3-8	2018
Nanobiocomposite of fungal asparaginase and magnetic nanoparticle: Synthesis, Characterization and Anticancer Activity against MCF-7 and HT-29 Cancer cell lines G Baskar, GB George	2018
Production of Biodiesel from Cordiamyxa seeds Biooil by Alkali-catalyzed Transesterification Reaction M Karthikeyan <sup>1</sup> , G Baskar, S Renganathan International Journal of Industrial Engineering 2 (9), 197-20	2018
Integration of Lignin Removal from Black Liquor and Biotransformation Process K Tamilarasan, PS Sellamuthu, B GurunathBioremediation: Applications for Environmental	2018

	_
Protection and Management, 77-97	
Biomining of Natural Resources PS Kumar, PR Yaashikaa, G Baskar Waste Bioremediation, 313-342	2018
Cost Analysis of Solar Cabinet Dryer for Drying Dates NJ Selvi, G Baskar, A Singh Biosciences Biotechnology Research Asia 10 (3), 1055-1061	2017
Extraction of non-edible oil from Catharanthus roseus seeds and kinetics on oil extraction M Karthikeyan, S Renganathan, G Baskar, S Nambirajan Energy Sources, Part A: Recovery, Utilization, and Environmental Effects 39	2017
Recent Advances in Heterogeeous Catalysts for Biodiesel Production G Baskar, R Aiswarya, S Soumiya, N Mohanapriya, SR Nivetha	2017
Identification of significant fermentation media components for milk clotting enzyme production by submerged fermentation of Aspergillus candidus MTCC 1989  G Baskar, DV Sneha, SB Merlin, JA Vidhula International Journal of Industrial Engineering 1 (5), 166-170	2017
Optimization of microbial milk clotting enzyme production by Aspergillus candidus MTCC1989 using statistical method G Baskar, DV Sneha, SB Merlin, JA Vidhula International Journal of Industrial Engineering 1 (5), 171-177	2017