

# Rajesh Banu

## List of Publications by Citations

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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.

386  
papers

12,719  
citations

60  
h-index

87  
g-index

404  
ext. papers

16,031  
ext. citations

7.5  
avg, IF

7.22  
L-index

#	Paper	IF	Citations
386	Recent developments in pretreatment technologies on lignocellulosic biomass: Effect of key parameters, technological improvements, and challenges. <i>Bioresource Technology</i> , <b>2020</b> , 300, 122724	11	240
385	A review on lignin structure, pretreatments, fermentation reactions and biorefinery potential. <i>Bioresource Technology</i> , <b>2019</b> , 271, 462-472	11	239
384	An overview of food waste management in developing countries: Current status and future perspective. <i>Journal of Environmental Management</i> , <b>2015</b> , 157, 220-9	7.9	230
383	Fermentative hydrogen production from wastewaters: A review and prognosis. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 15632-15642	6.7	211
382	A review on the biosynthesis of metallic nanoparticles (gold and silver) using bio-components of microalgae: Formation mechanism and applications. <i>Enzyme and Microbial Technology</i> , <b>2016</b> , 95, 28-44	3.8	178
381	A comprehensive review on green nanomaterials using biological systems: Recent perception and their future applications. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2018</b> , 170, 20-35	6	175
380	A review of thermochemical conversion of microalgal biomass for biofuels: chemistry and processes. <i>Green Chemistry</i> , <b>2017</b> , 19, 44-67	10	170
379	Low temperature thermo-chemical pretreatment of dairy waste activated sludge for anaerobic digestion process. <i>Bioresource Technology</i> , <b>2012</b> , 103, 415-24	11	166
378	A critical review on issues and overcoming strategies for the enhancement of dark fermentative hydrogen production in continuous systems. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 3820-3836	6.7	147
377	A critical review on anaerobic digestion of microalgae and macroalgae and co-digestion of biomass for enhanced methane generation. <i>Bioresource Technology</i> , <b>2018</b> , 262, 319-332	11	143
376	The enhancement of anaerobic biodegradability of waste activated sludge by surfactant mediated biological pretreatment. <i>Bioresource Technology</i> , <b>2014</b> , 168, 159-66	11	140
375	Fermentative hydrogen production using lignocellulose biomass: An overview of pre-treatment methods, inhibitor effects and detoxification experiences. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 77, 28-42	16.2	135
374	Anaerobic co-digestion on improving methane production from mixed microalgae ( <i>Scenedesmus</i> sp., <i>Chlorella</i> sp.) and food waste: Kinetic modeling and synergistic impact evaluation. <i>Chemical Engineering Journal</i> , <b>2016</b> , 299, 332-341	14.7	127
373	Recent insights into the cell immobilization technology applied for dark fermentative hydrogen production. <i>Bioresource Technology</i> , <b>2016</b> , 219, 725-737	11	123
372	Anaerobic membrane bioreactors for wastewater treatment: Novel configurations, fouling control and energy considerations. <i>Bioresource Technology</i> , <b>2019</b> , 283, 358-372	11	121
371	Effect of enzyme secreting bacterial pretreatment on enhancement of aerobic digestion potential of waste activated sludge interceded through EDTA. <i>Bioresource Technology</i> , <b>2013</b> , 150, 210-9	11	118
370	A critical review of pretreatment technologies to enhance anaerobic digestion and energy recovery. <i>Fuel</i> , <b>2020</b> , 270, 117494	7.1	115

369	A comprehensive overview on electro-active biofilms, role of exo-electrogens and their microbial niches in microbial fuel cells (MFCs). <i>Chemosphere</i> , <b>2017</b> , 178, 534-547	8.4	107
368	A review on biopolymer production via lignin valorization. <i>Bioresource Technology</i> , <b>2019</b> , 290, 121790	11	107
367	Intracranial infectious aneurysm: presentation, management and outcome. <i>Journal of the Neurological Sciences</i> , <b>2007</b> , 256, 3-9	3.2	103
366	Combined thermo-chemo-sonic disintegration of waste activated sludge for biogas production. <i>Bioresource Technology</i> , <b>2015</b> , 197, 383-92	11	102
365	Microbial electrolysis cell platform for simultaneous waste biorefinery and clean electrofuels generation: Current situation, challenges and future perspectives. <i>Progress in Energy and Combustion Science</i> , <b>2017</b> , 63, 119-145	33.6	101
364	Impacts of microwave pretreatments on the semi-continuous anaerobic digestion of dairy waste activated sludge. <i>Waste Management</i> , <b>2013</b> , 33, 1119-27	8.6	96
363	Promoted electromethanosynthesis in a two-chamber microbial electrolysis cells (MECs) containing a hybrid biocathode covered with graphite felt (GF). <i>Chemical Engineering Journal</i> , <b>2016</b> , 284, 1146-1155	14.7	93
362	Bio-fabrication of silver nanoparticles using the leaf extract of an ancient herbal medicine, dandelion ( <i>Taraxacum officinale</i> ), evaluation of their antioxidant, anticancer potential, and antimicrobial activity against phytopathogens. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 10392-10406	5.1	92
361	Enhancement of biofuel production via microbial augmentation: The case of dark fermentative hydrogen. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 57, 879-891	16.2	92
360	Effect of citric acid induced deflocculation on the ultrasonic pretreatment efficiency of dairy waste activated sludge. <i>Ultrasonics Sonochemistry</i> , <b>2015</b> , 22, 333-40	8.9	91
359	Anti-diabetic Potential of Silver Nanoparticles Synthesized with <i>Argyrea nervosa</i> Leaf Extract High Synergistic Antibacterial Activity with Standard Antibiotics Against Foodborne Bacteria. <i>Journal of Cluster Science</i> , <b>2017</b> , 28, 1709-1727	3	88
358	Microalgae based biorefinery promoting circular bioeconomy-techno economic and life-cycle analysis. <i>Bioresource Technology</i> , <b>2020</b> , 302, 122822	11	88
357	A review on bio-electrochemical systems (BESs) for the syngas and value added biochemicals production. <i>Chemosphere</i> , <b>2017</b> , 177, 84-92	8.4	87
356	Exploiting antidiabetic activity of silver nanoparticles synthesized using <i>Punica granatum</i> leaves and anticancer potential against human liver cancer cells (HepG2). <i>Artificial Cells, Nanomedicine and Biotechnology</i> , <b>2018</b> , 46, 211-222	6.1	87
355	Seaweeds: A resource for marine bionanotechnology. <i>Enzyme and Microbial Technology</i> , <b>2016</b> , 95, 45-57	3.8	86
354	A comprehensive overview on light independent fermentative hydrogen production from wastewater feedstock and possible integrative options. <i>Energy Conversion and Management</i> , <b>2017</b> , 141, 390-402	10.6	85
353	Updates on the pretreatment of lignocellulosic feedstocks for bioenergy production—review. <i>Biomass Conversion and Biorefinery</i> , <b>2018</b> , 8, 471-483	2.3	84
352	Treatment of seafood processing wastewater using upflow microbial fuel cell for power generation and identification of bacterial community in anodic biofilm. <i>Journal of Environmental Management</i> , <b>2016</b> , 180, 351-8	7.9	82

351	Combined treatment of alkaline and disperser for improving solubilization and anaerobic biodegradability of dairy waste activated sludge. <i>Bioresource Technology</i> , <b>2012</b> , 126, 107-16	11	82
350	Nutrient removal in an A2O-MBR reactor with sludge reduction. <i>Bioresource Technology</i> , <b>2009</b> , 100, 3820-4	11.4	82
349	Biomass based hydrogen production by dark fermentation-recent trends and opportunities for greener processes. <i>Current Opinion in Biotechnology</i> , <b>2018</b> , 50, 136-145	11.4	76
348	Enhancing the functional and economical efficiency of a novel combined thermo chemical disperser disintegration of waste activated sludge for biogas production. <i>Bioresource Technology</i> , <b>2014</b> , 173, 32-41 <sup>11</sup>	11	76
347	Improving the biogas production performance of municipal waste activated sludge via disperser induced microwave disintegration. <i>Bioresource Technology</i> , <b>2016</b> , 217, 21-7	11	74
346	Hydrogen and methane production via a two-stage processes (H <sub>2</sub> -SBR+CH <sub>4</sub> -UASB) using tequila vinasses. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 19249-19255	6.7	74
345	Bio-hythane production from microalgae biomass: Key challenges and potential opportunities for algal bio-refineries. <i>Bioresource Technology</i> , <b>2017</b> , 241, 525-536	11	71
344	Surpassing the current limitations of high purity H <sub>2</sub> production in microbial electrolysis cell (MECs): Strategies for inhibiting growth of methanogens. <i>Bioelectrochemistry</i> , <b>2018</b> , 119, 211-219	5.6	71
343	Biogas Production from Organic Waste: Recent Progress and Perspectives. <i>Waste and Biomass Valorization</i> , <b>2020</b> , 11, 1019-1040	3.2	71
342	Treatment of dairy wastewater using anaerobic and solar photocatalytic methods. <i>Solar Energy</i> , <b>2008</b> , 82, 812-819	6.8	69
341	Application of nanotechnology (nanoparticles) in dark fermentative hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 1431-1440	6.7	69
340	Effect of sonically induced deflocculation on the efficiency of ozone mediated partial sludge disintegration for improved production of biogas. <i>Ultrasonics Sonochemistry</i> , <b>2015</b> , 26, 241-248	8.9	68
339	A comprehensive overview and recent advances on polyhydroxyalkanoates (PHA) production using various organic waste streams. <i>Bioresource Technology</i> , <b>2021</b> , 325, 124685	11	68
338	Profitable ultrasonic assisted microwave disintegration of sludge biomass: Modelling of biomethanation and energy parameter analysis. <i>Bioresource Technology</i> , <b>2018</b> , 254, 203-213	11	67
337	Bioelectrochemical systems using microalgae - A concise research update. <i>Chemosphere</i> , <b>2017</b> , 177, 35-48.4	11.4	66
336	Influence of deflocculation on microwave disintegration and anaerobic biodegradability of waste activated sludge. <i>Bioresource Technology</i> , <b>2015</b> , 185, 194-201	11	66
335	Enhancing the anaerobic digestion potential of dairy waste activated sludge by two step sono-alkalization pretreatment. <i>Ultrasonics Sonochemistry</i> , <b>2014</b> , 21, 1065-74	8.9	66
334	Anaerobic membrane bioreactors for biohydrogen production: Recent developments, challenges and perspectives. <i>Bioresource Technology</i> , <b>2018</b> , 269, 452-464	11	65

333	Microbial electrochemical systems for sustainable biohydrogen production: Surveying the experiences from a start-up viewpoint. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 70, 589-597	16.2	64
332	Techno-economic assessment of various hydrogen production methods - A review. <i>Bioresource Technology</i> , <b>2021</b> , 319, 124175	11	64
331	Enhancement of biogas production from microalgal biomass through cellulolytic bacterial pretreatment. <i>Bioresource Technology</i> , <b>2017</b> , 233, 34-43	11	62
330	Research perspectives on constraints, prospects and opportunities in biohydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 27471-27481	6.7	61
329	Valorization of spent coffee grounds into biofuels and value-added products: Pathway towards integrated bio-refinery. <i>Fuel</i> , <b>2019</b> , 254, 115640	7.1	61
328	Evaluation of different pretreatments on organic matter solubilization and hydrogen fermentation of mixed microalgae consortia. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 21628-21640	6.7	61
327	Effect of deflocculation on the efficiency of low-energy microwave pretreatment and anaerobic biodegradation of waste activated sludge. <i>Applied Energy</i> , <b>2015</b> , 145, 104-110	10.7	60
326	Treatment of poultry slaughterhouse wastewater in upflow anaerobic filter under low upflow velocity. <i>International Journal of Environmental Science and Technology</i> , <b>2011</b> , 8, 149-158	3.3	59
325	Wheat straw extracted lignin in silver nanoparticles synthesis: Expanding its prophecy towards antineoplastic potency and hydrogen peroxide sensing ability. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 128, 391-400	7.9	58
324	Synergetic effect of combined pretreatment for energy efficient biogas generation. <i>Bioresource Technology</i> , <b>2017</b> , 232, 235-246	11	57
323	A review on the biomass pretreatment and inhibitor removal methods as key-steps towards efficient macroalgae-based biohydrogen production. <i>Bioresource Technology</i> , <b>2017</b> , 244, 1341-1348	11	57
322	Liquefaction of food waste and its impacts on anaerobic biodegradability, energy ratio and economic feasibility. <i>Applied Energy</i> , <b>2017</b> , 208, 228-238	10.7	57
321	Anaerobic membrane bioreactor towards biowaste biorefinery and chemical energy harvest: Recent progress, membrane fouling and future perspectives. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 115, 109392	16.2	57
320	Development of artificial neural networks to predict membrane fouling in an anoxic-aerobic membrane bioreactor treating domestic wastewater. <i>Biochemical Engineering Journal</i> , <b>2018</b> , 133, 47-58	4.2	57
319	Waste-to-wealth for valorization of food waste to hydrogen and methane towards creating a sustainable ideal source of bioenergy. <i>Journal of Cleaner Production</i> , <b>2016</b> , 122, 29-41	10.3	57
318	Biohydrogen production from rice straw: Effect of combinative pretreatment, modelling assessment and energy balance consideration. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 2203-2215	6.7	57
317	An overview on advancements in biobased transesterification methods for biodiesel production: Oil resources, extraction, biocatalysts, and process intensification technologies. <i>Fuel</i> , <b>2021</b> , 285, 119117	7.1	56
316	Enhanced biohydrogen production from beverage industrial wastewater using external nitrogen sources and bioaugmentation with facultative anaerobic strains. <i>Journal of Bioscience and Bioengineering</i> , <b>2015</b> , 120, 155-60	3.3	55

315	Accelerating the sludge disintegration potential of a novel bacterial strain <i>Planococcus</i> jake 01 by CaCl <sub>2</sub> induced deflocculation. <i>Bioresource Technology</i> , <b>2015</b> , 175, 396-405	11	55
314	Pretreatment technologies for industrial effluents: Critical review on bioenergy production and environmental concerns. <i>Journal of Environmental Management</i> , <b>2018</b> , 218, 165-180	7.9	55
313	Dispersion induced ozone pretreatment of waste activated biosolids: Arriving biomethanation modelling parameters, energetic and cost assessment. <i>Bioresource Technology</i> , <b>2017</b> , 244, 679-687	11	55
312	Biowaste-to-bioplastic (polyhydroxyalkanoates): Conversion technologies, strategies, challenges, and perspective. <i>Bioresource Technology</i> , <b>2021</b> , 326, 124733	11	55
311	Fenton mediated ultrasonic disintegration of sludge biomass: Biodegradability studies, energetic assessment, and its economic viability. <i>Bioresource Technology</i> , <b>2016</b> , 221, 1-8	11	54
310	Renewable biohydrogen production from lignocellulosic biomass using fermentation and integration of systems with other energy generation technologies. <i>Science of the Total Environment</i> , <b>2021</b> , 765, 144429	10.2	54
309	Impact of thermo-chemo-sonic pretreatment in solubilizing waste activated sludge for biogas production: Energetic analysis and economic assessment. <i>Bioresource Technology</i> , <b>2016</b> , 219, 479-486	11	54
308	Pretreatment of kenaf ( <i>Hibiscus cannabinus</i> L.) biomass feedstock for polyhydroxybutyrate (PHB) production and characterization. <i>Bioresource Technology</i> , <b>2019</b> , 282, 75-80	11	54
307	Influence of thermal hydrolysis pretreatment on physicochemical properties and anaerobic biodegradability of waste activated sludge with different solids content. <i>Waste Management</i> , <b>2019</b> , 85, 214-221	8.6	54
306	HRT dependent performance and bacterial community population of granular hydrogen-producing mixed cultures fed with galactose. <i>Bioresource Technology</i> , <b>2016</b> , 206, 188-194	11	52
305	Biohydrogen production from industrial wastewater: An overview. <i>Bioresource Technology Reports</i> , <b>2019</b> , 7, 100287	4.1	52
304	Effect of deflocculation on the efficiency of disperser induced dairy waste activated sludge disintegration and treatment cost. <i>Bioresource Technology</i> , <b>2014</b> , 167, 151-8	11	51
303	Enhancement of sludge anaerobic biodegradability by combined microwave-H <sub>2</sub> O <sub>2</sub> pretreatment in acidic conditions. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 13467-79	5.1	51
302	A review on the conversion of volatile fatty acids to polyhydroxyalkanoates using dark fermentative effluents from hydrogen production. <i>Bioresource Technology</i> , <b>2019</b> , 287, 121427	11	50
301	Enhancement of aerobic biodegradability potential of municipal waste activated sludge by ultrasonic aided bacterial disintegration. <i>Bioresource Technology</i> , <b>2016</b> , 200, 161-9	11	49
300	Microbial electrohydrogenesis linked to dark fermentation as integrated application for enhanced biohydrogen production: A review on process characteristics, experiences and lessons. <i>Bioresource Technology</i> , <b>2018</b> , 251, 381-389	11	49
299	Pretreatment and hydrolysis methods for recovery of fermentable sugars from de-oiled <i>Jatropha</i> waste. <i>Bioresource Technology</i> , <b>2013</b> , 145, 275-9	11	49
298	Synergistic effect and biodegradation kinetics of sewage sludge and food waste mesophilic anaerobic co-digestion and the underlying stimulation mechanisms. <i>Fuel</i> , <b>2019</b> , 253, 40-49	7.1	48



297	A brief review of anaerobic membrane bioreactors emphasizing recent advancements, fouling issues and future perspectives. <i>Journal of Environmental Management</i> , <b>2020</b> , 270, 110909	7.9	48
296	Effect of hydraulic retention time (HRT) on biohydrogen production from galactose in an up-flow anaerobic sludge blanket reactor. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 21670-21677	6.7	48
295	Novel insights into scalability of biosurfactant combined microwave disintegration of sludge at alkali pH for achieving profitable bioenergy recovery and net profit. <i>Bioresource Technology</i> , <b>2018</b> , 267, 281-290	11	47
294	Solubilization of municipal sewage waste activated sludge by novel lytic bacterial strains. <i>Environmental Science and Pollution Research</i> , <b>2014</b> , 21, 2733-43	5.1	47
293	Improving the amenability of municipal waste activated sludge for biological pretreatment by phase-separated sludge disintegration method. <i>Bioresource Technology</i> , <b>2014</b> , 169, 700-706	11	47
292	HO induced cost effective microwave disintegration of dairy waste activated sludge in acidic environment for efficient biomethane generation. <i>Bioresource Technology</i> , <b>2017</b> , 244, 688-697	11	46
291	Energy-efficient methane production from macroalgal biomass through chemo disperser liquefaction. <i>Bioresource Technology</i> , <b>2017</b> , 228, 156-163	11	45
290	Exploiting fruit byproducts for eco-friendly nanosynthesis: Citrus <i>Clementina</i> peel extract mediated fabrication of silver nanoparticles with high efficacy against microbial pathogens and rat glial tumor C6 cells. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 10250-10263	5.1	45
289	Effect of chemo-mechanical disintegration on sludge anaerobic digestion for enhanced biogas production. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 2402-14	5.1	45
288	Effects of side-stream, low temperature phosphorus recovery on the performance of anaerobic/anoxic/oxic systems integrated with sludge pretreatment. <i>Bioresource Technology</i> , <b>2013</b> , 140, 376-84	11	45
287	Low temperature thermochemical mediated energy and economically efficient biological disintegration of sludge: Simulation and prediction studies for anaerobic biodegradation. <i>Chemical Engineering Journal</i> , <b>2017</b> , 317, 481-492	14.7	44
286	Bioelectricity generation and effect studies from organic rich chocolaterie wastewater using continuous upflow anaerobic microbial fuel cell. <i>Fuel</i> , <b>2019</b> , 251, 224-232	7.1	44
285	Thermophilic anaerobic digestion of model organic wastes: Evaluation of biomethane production and multiple kinetic models analysis. <i>Bioresource Technology</i> , <b>2019</b> , 280, 269-276	11	44
284	Effect of NaCl induced floc disruption on biological disintegration of sludge for enhanced biogas production. <i>Bioresource Technology</i> , <b>2015</b> , 192, 807-11	11	44
283	Architectural engineering of bioelectrochemical systems from the perspective of polymeric membrane separators: A comprehensive update on recent progress and future prospects. <i>Journal of Membrane Science</i> , <b>2018</b> , 564, 508-522	9.6	44
282	Effects of 5-hydroxymethylfurfural, levulinic acid and formic acid, pretreatment byproducts of biomass, on fermentative H <sub>2</sub> production from glucose and galactose. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 16885-16890	6.7	44
281	Marsilea spp.-A novel source of lignocellulosic biomass: Effect of solubilized lignin on anaerobic biodegradability and cost of energy products. <i>Bioresource Technology</i> , <b>2018</b> , 255, 220-228	11	43
280	Impact of pH control and heat pre-treatment of seed inoculum in dark H <sub>2</sub> fermentation: A feasibility report using mixed microalgae biomass as feedstock. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 4382-4392	6.7	42

279	Biorefinery of spent coffee grounds waste: Viable pathway towards circular bioeconomy. <i>Bioresource Technology</i> , <b>2020</b> , 302, 122821	11	41
278	Biological pretreatment of non-flocculated sludge augments the biogas production in the anaerobic digestion of the pretreated waste activated sludge. <i>Environmental Technology (United Kingdom)</i> , <b>2013</b> , 34, 2113-23	2.6	41
277	Treatment of domestic wastewater using upflow anaerobic sludge blanket reactor. <i>International Journal of Environmental Science and Technology</i> , <b>2007</b> , 4, 363-370	3.3	41
276	A review on chemical mechanism of microalgae flocculation polymers. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , <b>2019</b> , 21, e00302	5.3	41
275	Lignocellulosic biomass based biorefinery: A successful platform towards circular bioeconomy. <i>Fuel</i> , <b>2021</b> , 302, 121086	7.1	41
274	Achieving profitable biological sludge disintegration through phase separation and predicting its anaerobic biodegradability by non linear regression model. <i>Chemical Engineering Journal</i> , <b>2015</b> , 279, 478-487	14.7	40
273	Impervious and influence in the liquid fuel production from municipal plastic waste through thermo-chemical biomass conversion technologies - A review. <i>Science of the Total Environment</i> , <b>2020</b> , 718, 137287	10.2	40
272	Telovelar approach: technical issues for large fourth ventricle tumors. <i>Childs Nervous System</i> , <b>2007</b> , 23, 555-8	1.7	40
271	Biohythane production from food processing wastes - Challenges and perspectives. <i>Bioresource Technology</i> , <b>2020</b> , 298, 122449	11	40
270	Influence of ferrous sulfate on thermochemical sludge disintegration and on performances of wastewater treatment in a new process: Anoxic-aerobic membrane bioreactor coupled with sludge disintegration step. <i>Biochemical Engineering Journal</i> , <b>2012</b> , 66, 20-26	4.2	38
269	Effect of thermochemical sludge pretreatment on sludge reduction and on performances of anoxic-aerobic membrane bioreactor treating low strength domestic wastewater. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2009</b> , 84, 1350-1355	3.5	38
268	Improved microbial conversion of de-oiled Jatropha waste into biohydrogen via inoculum pretreatment: process optimization by experimental design approach. <i>Biofuel Research Journal</i> , <b>2019</b> , 209-214	13.9	38
267	A comprehensive review on two-stage integrative schemes for the valorization of dark fermentative effluents. <i>Critical Reviews in Biotechnology</i> , <b>2018</b> , 38, 868-882	9.4	37
266	Cultivation of microalgal biomass using swine manure for biohydrogen production: Impact of dilution ratio and pretreatment. <i>Bioresource Technology</i> , <b>2018</b> , 260, 16-22	11	37
265	Effect of extracellular polymeric substances on sludge reduction potential of <i>Bacillus licheniformis</i> . <i>International Journal of Environmental Science and Technology</i> , <b>2013</b> , 10, 85-92	3.3	37
264	Food waste valorization: Biofuels and value added product recovery. <i>Bioresource Technology Reports</i> , <b>2020</b> , 11, 100524	4.1	37
263	Biological disintegration of microalgae for biomethane recovery-prediction of biodegradability and computation of energy balance. <i>Bioresource Technology</i> , <b>2017</b> , 244, 1367-1375	11	36
262	Synergetic pretreatment of algal biomass through H <sub>2</sub> O <sub>2</sub> induced microwave in acidic condition for biohydrogen production. <i>Fuel</i> , <b>2019</b> , 253, 833-839	7.1	36



261	Trends and resource recovery in biological wastewater treatment system. <i>Bioresource Technology Reports</i> , <b>2019</b> , 7, 100235	4.1	36
260	Effects of titanium dioxide mediated dairy waste activated sludge deflocculation on the efficiency of bacterial disintegration and cost of sludge management. <i>Bioresource Technology</i> , <b>2015</b> , 197, 64-71	11	36
259	Recovery of biohydrogen in a single-chamber microbial electrohydrogenesis cell using liquid fraction of pressed municipal solid waste (LPW) as substrate. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 17896-17906	6.7	36
258	Performance evaluation of microbial electrochemical systems operated with Nafion and supported ionic liquid membranes. <i>Chemosphere</i> , <b>2017</b> , 175, 350-355	8.4	35
257	Energetically efficient microwave disintegration of waste activated sludge for biofuel production by zeolite: Quantification of energy and biodegradability modelling. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 2274-2288	6.7	35
256	Fermentative hydrogen production from mixed and pure microalgae biomass: Key challenges and possible opportunities. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 26440-26453	6.7	35
255	Mesophilic biogenic H <sub>2</sub> production using galactose in a fixed bed reactor. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 3658-3666	6.7	35
254	Catalytic hydrothermal liquefaction of biomass into bio-oils and other value-added products: A review. <i>Fuel</i> , <b>2021</b> , 285, 119053	7.1	35
253	Biohydrogen production integrated with an external dynamic membrane: A novel approach. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 27543-27549	6.7	34
252	Effects of various dilute acid pretreatments on the biochemical hydrogen production potential of marine macroalgal biomass. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 27600-27606	6.7	34
251	Simultaneous removal of 5-hydroxy methyl furfural (5-HMF) and hydrogen production from acid (H <sub>2</sub> SO <sub>4</sub> ) pretreated red-algal hydrolysate via hybrid immobilized cells. <i>Algal Research</i> , <b>2015</b> , 11, 326-333 <sup>5</sup>		34
250	Surfactant assisted disperser pretreatment on the liquefaction of <i>Ulva reticulata</i> and evaluation of biodegradability for energy efficient biofuel production through nonlinear regression modelling. <i>Bioresource Technology</i> , <b>2018</b> , 255, 116-122	11	34
249	Bioelectricity generation from coconut husk retting wastewater in fed batch operating microbial fuel cell by phenol degrading microorganism. <i>Biomass and Bioenergy</i> , <b>2014</b> , 69, 249-254	5.3	34
248	Enhancing aerobic digestion potential of municipal waste-activated sludge through removal of extracellular polymeric substance. <i>Environmental Science and Pollution Research</i> , <b>2014</b> , 21, 1112-23	5.1	34
247	Impact of pretreatment on food waste for biohydrogen production: A review. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 18211-18225	6.7	34
246	A hybrid constructed wetland for organic-material and nutrient removal from sewage: Process performance and multi-kinetic models. <i>Journal of Environmental Management</i> , <b>2018</b> , 222, 378-384	7.9	34
245	Effect of ferrous sulphate on nitrification during simultaneous phosphorus removal from domestic wastewater using a laboratory scale anoxic/oxic reactor. <i>World Journal of Microbiology and Biotechnology</i> , <b>2008</b> , 24, 2981-2986	4.4	33
244	Industrial wastewater to biohydrogen: Possibilities towards successful biorefinery route. <i>Bioresource Technology</i> , <b>2020</b> , 298, 122378	11	33

243	Effects of concentration and gas flow rate on the removal of gas-phase toluene and xylene mixture in a compost biofilter. <i>Bioresource Technology</i> , <b>2018</b> , 248, 28-35	11	33
242	Effect of organic loading rate on electricity generating potential of upflow anaerobic microbial fuel cell treating surgical cotton industry wastewater. <i>Journal of Environmental Chemical Engineering</i> , <b>2017</b> , 5, 1021-1026	6.8	32
241	Enhancement of anaerobic degradation of sludge biomass through surfactant-assisted bacterial hydrolysis. <i>Chemical Engineering Research and Design</i> , <b>2016</b> , 99, 207-215	5.5	32
240	Hydrogen and ethanol fermentation of various carbon sources by immobilized <i>Escherichia coli</i> (XL1-Blue). <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 6881-6888	6.7	32
239	Combined pretreatment of electrolysis and ultra-sonication towards enhancing solubilization and methane production from mixed microalgae biomass. <i>Bioresource Technology</i> , <b>2017</b> , 245, 196-200	11	32
238	Development of a Novel Hybrid Immobilization Material (HY-IM) for Fermentative Biohydrogen Production from Beverage Wastewater. <i>Journal of the Chinese Chemical Society</i> , <b>2014</b> , 61, 827-830	1.5	32
237	Surfactant coupled sonic pretreatment of waste activated sludge for energetically positive biogas generation. <i>Bioresource Technology</i> , <b>2017</b> , 241, 710-719	11	31
236	Disperser-induced bacterial disintegration of partially digested anaerobic sludge for efficient biomethane recovery. <i>Chemical Engineering Journal</i> , <b>2018</b> , 347, 165-172	14.7	31
235	Treatment of tannery wastewater using hybrid upflow anaerobic sludge blanket reactor. <i>Journal of Environmental Engineering and Science</i> , <b>2007</b> , 6, 415-421	0.8	31
234	Effect of surfactant assisted sonic pretreatment on liquefaction of fruits and vegetable residue: Characterization, acidogenesis, biomethane yield and energy ratio. <i>Bioresource Technology</i> , <b>2018</b> , 264, 35-41	11	30
233	Electricity generation from retting wastewater consisting of recalcitrant compounds using continuous upflow microbial fuel cell. <i>Biotechnology and Bioprocess Engineering</i> , <b>2015</b> , 20, 753-759	3.1	29
232	Seed inocula for biohydrogen production from biodiesel solid residues. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 15489-15495	6.7	29
231	Phosphorus removal in low alkalinity secondary effluent using alum. <i>International Journal of Environmental Science and Technology</i> , <b>2008</b> , 5, 93-98	3.3	29
230	Optimized transesterification reaction for efficient biodiesel production using Indian oil sardine fish as feedstock. <i>Fuel</i> , <b>2019</b> , 253, 921-929	7.1	28
229	Nanoparticle induced biological disintegration: A new phase separated pretreatment strategy on microalgal biomass for profitable biomethane recovery. <i>Bioresource Technology</i> , <b>2019</b> , 289, 121624	11	28
228	Current trends and prospects in microalgae-based bioenergy production. <i>Journal of Environmental Chemical Engineering</i> , <b>2020</b> , 8, 104025	6.8	28
227	Enzymatically-boosted ionic liquid gas separation membranes using carbonic anhydrase of biomass origin. <i>Chemical Engineering Journal</i> , <b>2016</b> , 303, 621-626	14.7	28
226	Biomethane recovery from <i>Egeria densa</i> in a microbial electrolysis cell-assisted anaerobic system: Performance and stability assessment. <i>Chemosphere</i> , <b>2016</b> , 149, 121-9	8.4	28

225	Effect of cation binding agents on sludge solubilization potential of bacteria. <i>Biotechnology and Bioprocess Engineering</i> , <b>2012</b> , 17, 346-352	3.1	28
224	Recent advances in lignocellulosic biomass for biofuels and value-added bioproducts - A critical review. <i>Bioresource Technology</i> , <b>2022</b> , 344, 126195	11	28
223	A review on valorization of spent coffee grounds (SCG) towards biopolymers and biocatalysts production. <i>Bioresource Technology</i> , <b>2020</b> , 314, 123800	11	27
222	A perspective on galactose-based fermentative hydrogen production from macroalgal biomass: Trends and opportunities. <i>Bioresource Technology</i> , <b>2019</b> , 280, 447-458	11	27
221	Research and development perspectives of lignocellulose-based biohydrogen production. <i>International Biodeterioration and Biodegradation</i> , <b>2017</b> , 119, 225-238	4.8	26
220	Lignocellulosic biomass-based pyrolysis: A comprehensive review. <i>Chemosphere</i> , <b>2022</b> , 286, 131824	8.4	26
219	Coupled solar photo-fenton process with aerobic sequential batch reactor for treatment of pharmaceutical wastewater. <i>Desalination and Water Treatment</i> , <b>2012</b> , 48, 89-95		25
218	Effect of sludge pretreatment on the performance of anaerobic/ anoxic/ oxic membrane bioreactor treating domestic wastewater. <i>International Journal of Environmental Science and Technology</i> , <b>2011</b> , 8, 281-290	3.3	25
217	Two-stage anaerobic treatment of dairy wastewater using HUASB with PUF and PVC carrier. <i>Biotechnology and Bioprocess Engineering</i> , <b>2007</b> , 12, 257-264	3.1	25
216	Alleviation of environmental stress in plants: The role of beneficial <i>Pseudomonas</i> spp.. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2017</b> , 47, 372-407	11.1	24
215	On the efficiency of dual-chamber biocatalytic electrochemical cells applying membrane separators prepared with imidazolium-type ionic liquids containing [NTF 2 ] <sup>-</sup> and [PF 6 ] <sup>-</sup> anions. <i>Chemical Engineering Journal</i> , <b>2017</b> , 324, 296-302	14.7	24
214	Biohydrogen production from industrial wastewaters. <i>Water Science and Technology</i> , <b>2015</b> , 71, 105-10	2.2	24
213	Development of bioelectrochemical systems using various biogas fermenter effluents as inocula and municipal waste liquor as adapting substrate. <i>Bioresource Technology</i> , <b>2018</b> , 259, 75-82	11	24
212	High rate anaerobic treatment of Sago wastewater using HUASB with PUF as carrier. <i>International Journal of Environmental Science and Technology</i> , <b>2006</b> , 3, 69-77	3.3	24
211	A review of the innovative gas separation membrane bioreactor with mechanisms for integrated production and purification of biohydrogen. <i>Bioresource Technology</i> , <b>2018</b> , 270, 643-655	11	24
210	Growth of <i>Brassica juncea</i> under chromium stress: influence of siderophores and indole 3 acetic acid producing rhizosphere bacteria. <i>Journal of Environmental Biology</i> , <b>2005</b> , 26, 693-9	1.6	24
209	Treatment of pulp and paper mill wastewater by solar photo-Fenton process. <i>Desalination and Water Treatment</i> , <b>2014</b> , 52, 2457-2464		23
208	Effects of sludge pretreatment on sludge reduction in a lab-scale anaerobic/anoxic/oxic system treating domestic wastewater. <i>International Journal of Environmental Science and Technology</i> , <b>2013</b> , 10, 495-502	3.3	23

207	Upgrading the hydrolytic potential of immobilized bacterial pretreatment to boost biogas production. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 813-826	5.1	23
206	A novel method of sludge pretreatment using the combination of alkalis. <i>Journal of Environmental Biology</i> , <b>2012</b> , 33, 249-53	1.6	23
205	Immobilized and MgSO induced cost effective bacterial disintegration of waste activated sludge for effective anaerobic digestion. <i>Chemosphere</i> , <b>2017</b> , 175, 66-75	8.4	22
204	Recent advances on biogranules formation in dark hydrogen fermentation system: Mechanism of formation and microbial characteristics. <i>Bioresource Technology</i> , <b>2018</b> , 268, 787-796	11	22
203	Cost-effective, low thermo-chemo disperser pretreatment for biogas production potential of marine macroalgae <i>Chaetomorpha antennina</i> . <i>Energy</i> , <b>2018</b> , 163, 533-545	7.9	22
202	Impact of mild alkali dosage on immobilized <i>Exiguobacterium</i> spp. mediated cost and energy efficient sludge disintegration. <i>Bioresource Technology</i> , <b>2017</b> , 245, 434-441	11	22
201	Combinative treatment of phenol-rich retting-pond wastewater by a hybrid upflow anaerobic sludge blanket reactor and solar photofenton process. <i>Journal of Environmental Management</i> , <b>2018</b> , 206, 999-1006	7.9	22
200	Valorization of agricultural residues: Different biorefinery routes. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 105435	6.8	22
199	Synthesis of $\gamma$ -Valerolactone (GVL) and their applications for lignocellulosic deconstruction for sustainable green biorefineries. <i>Fuel</i> , <b>2021</b> , 303, 121333	7.1	22
198	Synergistic effect of combined pretreatment in solubilizing fruits and vegetable residue for biogas production: Hydrolysis, energy assessment. <i>Fuel</i> , <b>2019</b> , 250, 194-202	7.1	21
197	A magnetically separable and recyclable Ag-supported magnetic TiO composite catalyst: Fabrication, characterization, and photocatalytic activity. <i>Journal of Environmental Management</i> , <b>2018</b> , 213, 541-548	7.9	21
196	Anaerobic co-digestion of chemical- and ozone-pretreated sludge in hybrid upflow anaerobic sludge blanket reactor. <i>Desalination and Water Treatment</i> , <b>2015</b> , 54, 3269-3278		21
195	Biohydrogen Production From Renewable Biomass Resources <b>2019</b> , 247-277		21
194	Effect of low intensity sonic mediated fragmentation of anaerobic granules on biosurfactant secreting bacterial pretreatment: Energy and mass balance analysis. <i>Bioresource Technology</i> , <b>2019</b> , 279, 156-165	11	20
193	Biodegradation of 1,4-dioxane by <i>Rhodanobacter</i> AYS5 and the role of additional substrates. <i>Annals of Microbiology</i> , <b>2015</b> , 65, 2201-2208	3.2	20
192	Microbial Electro-Remediation (MER) of hazardous waste in aid of sustainable energy generation and resource recovery. <i>Environmental Technology and Innovation</i> , <b>2020</b> , 19, 100997	7	20
191	Application of molecular techniques in biohydrogen production as a clean fuel. <i>Science of the Total Environment</i> , <b>2020</b> , 722, 137795	10.2	20
190	Sodium thiosulphate induced immobilized bacterial disintegration of sludge: An energy efficient and cost effective platform for sludge management and biomethanation. <i>Bioresource Technology</i> , <b>2018</b> , 260, 273-282	11	20

189	Kinetics and equilibria of 5-hydroxymethylfurfural (5-HMF) sequestration from algal hydrolyzate using granular activated carbon. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2016</b> , 91, 1157-1163 <sup>3.5</sup>	20
188	Integrated biorefinery routes of biohydrogen: Possible utilization of acidogenic fermentative effluent. <i>Bioresource Technology</i> , <b>2021</b> , 319, 124241	11 20
187	Anaerobic co-digestion of oil-extracted spent coffee grounds with various wastes: Experimental and kinetic modeling studies. <i>Bioresource Technology</i> , <b>2021</b> , 322, 124470	11 20
186	A review on evaluation of applied pretreatment methods of wastewater towards sustainable H <sub>2</sub> generation: Energy efficiency analysis. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 8329-8345	6.7 19
185	Effect of 5-hydroxymethylfurfural (5-HMF) on high-rate continuous biohydrogen production from galactose. <i>Bioresource Technology</i> , <b>2018</b> , 247, 1197-1200	11 19
184	Treatment of Sago Wastewater using Hybrid Anaerobic Reactor. <i>Water Quality Research Journal of Canada</i> , <b>2006</b> , 41, 56-62	1.7 19
183	Various potential techniques to reduce the water footprint of microalgal biomass production for biofuel-A review. <i>Science of the Total Environment</i> , <b>2020</b> , 749, 142218	10.2 19
182	Influence of the thermochemical sludge pretreatment on the nitrification of A/O reactor with the removal of phosphorus by simultaneous precipitation. <i>Biotechnology and Bioprocess Engineering</i> , <b>2013</b> , 18, 313-320	3.1 18
181	Enhancement Strategies for Hydrogen Production from Wastewater: A Review. <i>Current Organic Chemistry</i> , <b>2016</b> , 20, 2744-2752	1.7 18
180	Profitable biomethane production from delignified rice straw biomass: the effect of lignin, energy and economic analysis. <i>Green Chemistry</i> , <b>2020</b> , 22, 8024-8035	10 18
179	Deriving electricity from dye processing wastewater using single chamber microbial fuel cell with carbon brush anode and platinum nano coated air cathode. <i>3 Biotech</i> , <b>2018</b> , 8, 437	2.8 18
178	Synergistic impact of sonic-tenside on biomass disintegration potential: Acidogenic and methane potential studies, kinetics and cost analytics. <i>Bioresource Technology</i> , <b>2018</b> , 253, 256-261	11 17
177	Evaluation of gradual adaptation of mixed microalgae consortia cultivation using textile wastewater via fed batch operation. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , <b>2018</b> , 20, e00289	5.3 17
176	Assessment via the modified gompertz-model reveals new insights concerning the effects of ionic liquids on biohydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 18918-18924	6.7 17
175	Advancement of green technologies: A comprehensive review on the potential application of microalgae biomass. <i>Chemosphere</i> , <b>2021</b> , 281, 130886	8.4 17
174	Improvement of hydrogen fermentation of galactose by combined inoculation strategy. <i>Journal of Bioscience and Bioengineering</i> , <b>2017</b> , 123, 353-357	3.3 16
173	Co-digestion of untreated macro and microalgal biomass for biohydrogen production: Impact of inoculum augmentation and microbial insights. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 11484-11492 <sup>6.7</sup>	16
172	Polyhydroxy butyrate production by <i>Acinetobacter junii</i> BP25, <i>Aeromonas hydrophila</i> ATCC 7966, and their co-culture using a feast and famine strategy. <i>Bioresource Technology</i> , <b>2019</b> , 293, 122062	11 16



171	Biogenic hydrogen conversion of de-oiled jatropha waste via anaerobic sequencing batch reactor operation: process performance, microbial insights, and CO <sub>2</sub> reduction efficiency. <i>Scientific World Journal, The</i> , <b>2014</b> , 2014, 946503	2.2	16
170	Effect of low temperature thermochemical pretreatment on sludge reduction potential of membrane bioreactor treating primary treated dairy wastewater. <i>Water Quality Research Journal of Canada</i> , <b>2011</b> , 46, 312-320	1.7	16
169	Impact of light on microalgal photosynthetic microbial fuel cells and removal of pollutants by nanoadsorbent biopolymers: Updates, challenges and innovations. <i>Chemosphere</i> , <b>2021</b> , 132589	8.4	16
168	Effect of deflocculation on the efficiency of sludge reduction by Fenton process. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 19281-91	5.1	16
167	Co-metabolic degradation of benzo(e)pyrene by halophilic bacterial consortium at different saline conditions. <i>Journal of Environmental Biology</i> , <b>2014</b> , 35, 445-52	1.6	16
166	Combined effect of inorganic salts with calcium peroxide pretreatment for kenaf core biomass and their utilization for 2,3-butanediol production. <i>Bioresource Technology</i> , <b>2018</b> , 258, 26-32	11	15
165	Kinetic modeling and microbial community analysis for high-rate biohydrogen production using a dynamic membrane. <i>Bioresource Technology</i> , <b>2018</b> , 262, 59-64	11	15
164	Synergistic degradation of hospital wastewater by solar/TiO <sub>2</sub> /Fe <sup>2+</sup> /H <sub>2</sub> O <sub>2</sub> process. <i>Water Quality Research Journal of Canada</i> , <b>2014</b> , 49, 223-233	1.7	15
163	Solar photocatalytic treatment of phenolic wastewaters: influence of chlorides, sulphates, aeration, liquid volume and solar light intensity. <i>Desalination and Water Treatment</i> , <b>2014</b> , 52, 7957-7963		15
162	Recent advances in commercial biorefineries for lignocellulosic ethanol production: Current status, challenges and future perspectives. <i>Bioresource Technology</i> , <b>2022</b> , 344, 126292	11	15
161	A review on the factors influencing biohydrogen production from lactate: The key to unlocking enhanced dark fermentative processes. <i>Bioresource Technology</i> , <b>2021</b> , 324, 124595	11	15
160	Rhamnolipid induced deagglomeration of anaerobic granular biosolids for energetically feasible ultrasonic homogenization and profitable biohydrogen. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 5890-5899	6.7	15
159	Evaluation of operational parameters for semi-continuous anaerobic digester treating pretreated waste activated sludge. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 9093-9100		14
158	Biohydrogen Generation From Macroalgal Biomass, <i>Chaetomorpha antennina</i> Through Surfactant Aided Microwave Disintegration. <i>Frontiers in Energy Research</i> , <b>2019</b> , 7,	3.8	14
157	Biocompatible nanoparticles with enhanced photocatalytic and anti-microfouling potential. <i>International Biodeterioration and Biodegradation</i> , <b>2019</b> , 145, 104790	4.8	14
156	Effect of alum on nitrification during simultaneous phosphorous removal in anoxic/oxic reactor. <i>Biotechnology and Bioprocess Engineering</i> , <b>2009</b> , 14, 543-548	3.1	14
155	Treatment of seafood industrial wastewater coupled with electricity production using air cathode microbial fuel cell under saline condition. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 12535-12545	4.5	14
154	Cost effective sludge reduction using synergetic effect of dark fenton and disperser treatment. <i>Journal of Cleaner Production</i> , <b>2019</b> , 207, 261-270	10.3	14



153	Evaluation of photocatalytic thin film pretreatment on anaerobic degradability of exopolymer extracted biosolids for biofuel generation. <i>Bioresource Technology</i> , <b>2019</b> , 279, 132-139	11	13
152	Cost effective biomethanation via surfactant coupled ultrasonic liquefaction of mixed microalgal biomass harvested from open raceway pond. <i>Bioresource Technology</i> , <b>2020</b> , 304, 123021	11	13
151	A novel energetically efficient combinative microwave pretreatment for achieving profitable hydrogen production from marine macro algae ( <i>Ulva reticulata</i> ). <i>Bioresource Technology</i> , <b>2020</b> , 301, 122759	11	13
150	Batch fed single chambered microbial electrolysis cell for the treatment of landfill leachate. <i>Renewable Energy</i> , <b>2020</b> , 153, 168-174	8.1	13
149	Nano-layered TiO <sub>2</sub> for effective bacterial disintegration of waste activated sludge and biogas production. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2018</b> , 93, 2701-2709	3.5	13
148	Effect of extra polymeric substance removal on sludge reduction potential of <i>Bacillus licheniformis</i> at its optimised pH condition. <i>Water and Environment Journal</i> , <b>2014</b> , 28, 95-103	1.7	13
147	Hydroxamic acid mediated heterogeneous Fenton-like catalysts for the efficient removal of Acid Red 88, textile wastewater and their phytotoxicity studies. <i>Ecotoxicology and Environmental Safety</i> , <b>2019</b> , 167, 385-395	7	13
146	Biohydrogen production from seagrass via novel energetically efficient ozone coupled rotor stator homogenization. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 5881-5889	6.7	13
145	Profitable sludge management via novel combined ozone disperser pretreatment coupled with membrane bioreactor for treating confectionary wastewater. <i>Journal of Cleaner Production</i> , <b>2019</b> , 239, 118102	10.3	12
144	Transesterification and fuel characterization of rice bran oil: A biorefinery path. <i>Fuel</i> , <b>2019</b> , 253, 975-987	7.1	12
143	Effect of alkaline and ozone pretreatment on sludge reduction potential of a membrane bioreactor treating high-strength domestic wastewater. <i>Desalination and Water Treatment</i> , <b>2014</b> , 1-8		12
142	Lignocellulosic biomass as an optimistic feedstock for the production of biofuels as valuable energy source: Techno-economic analysis, Environmental Impact Analysis, Breakthrough and Perspectives. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 102080	7	12
141	A critical review on limitations and enhancement strategies associated with biohydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 16565-16590	6.7	12
140	Energetically feasible biohydrogen production from sea eelgrass via homogenization through a surfactant, sodium tripolyphosphate. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 5900-5910	6.7	12
139	Macroalgae-derived biohydrogen production: biorefinery and circular bioeconomy. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	12
138	The performance of fluidized bed solar photo Fenton oxidation in the removal of COD from hospital wastewaters. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 8236-8242		11
137	Leachate valorization in anaerobic biosystems: Towards the realization of waste-to-energy concept via biohydrogen, biogas and bioelectrochemical processes. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 17278-17296	6.7	11
136	Feasibility analysis of homogenizer coupled solar photo Fenton process for waste activated sludge reduction. <i>Journal of Environmental Management</i> , <b>2019</b> , 238, 251-256	7.9	11

135	Biopolymer production in bio electrochemical system: Literature survey. <i>Bioresource Technology Reports</i> , <b>2019</b> , 7, 100283	4.1	11
134	Development of Green Energy Waste Activated Carbon for Removal of Trivalent Chromium: Equilibrium and Kinetic Modeling. <i>Separation Science and Technology</i> , <b>2014</b> , 49, 513-522	2.5	11
133	Effect of deflocculation on photo induced thin layer titanium dioxide disintegration of dairy waste activated sludge for cost and energy efficient methane production. <i>Bioresource Technology</i> , <b>2017</b> , 244, 776-784	11	11
132	Sustainable utilization of food waste for bioenergy production: A step towards circular bioeconomy.. <i>International Journal of Food Microbiology</i> , <b>2022</b> , 365, 109538	5.8	11
131	Application of halophiles in air cathode MFC for seafood industrial wastewater treatment and energy production under high saline condition. <i>Environmental Technology and Innovation</i> , <b>2020</b> , 20, 101179	7.9	11
130	Evaluation of the biochemical methane potential of different sorts of Algerian date biomass. <i>Environmental Technology and Innovation</i> , <b>2020</b> , 20, 101180	7	11
129	Combined homogeneous and heterogeneous advanced oxidation process for the treatment of tannery wastewaters. <i>Journal of Water Reuse and Desalination</i> , <b>2016</b> , 6, 59-71	2.6	11
128	Bioenergy production and treatment of aquaculture wastewater using saline anode microbial fuel cell under saline condition. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 21, 101331	7	11
127	Dynamic membrane bioreactor for high rate continuous biohydrogen production from algal biomass. <i>Bioresource Technology</i> , <b>2021</b> , 340, 125562	11	11
126	Biodegradation of phenol by a moderately halophilic bacterial consortium. <i>Environmental Progress and Sustainable Energy</i> , <b>2018</b> , 37, 1587-1593	2.5	10
125	Effects of anti-foaming agents on biohydrogen production. <i>Bioresource Technology</i> , <b>2016</b> , 213, 121-128	11	10
124	Molecular biology interventions for activity improvement and production of industrial enzymes. <i>Bioresource Technology</i> , <b>2021</b> , 324, 124596	11	10
123	A review on anaerobic digestion of energy and cost effective microalgae pretreatment for biogas production. <i>Bioresource Technology</i> , <b>2021</b> , 332, 125055	11	10
122	Carbon molecular sieve production from defatted spent coffee ground using ZnCl <sub>2</sub> and benzene for gas purification. <i>Fuel</i> , <b>2020</b> , 277, 118183	7.1	9
121	High-rate hydrogen production from galactose in an upflow anaerobic sludge blanket reactor (UASBr). <i>RSC Advances</i> , <b>2016</b> , 6, 59823-59833	3.7	9
120	Current advances and future outlook on pretreatment techniques to enhance biosolids disintegration and anaerobic digestion: A critical review. <i>Chemosphere</i> , <b>2021</b> , 288, 132553	8.4	9
119	Algal-based system for removal of emerging pollutants from wastewater: A review. <i>Bioresource Technology</i> , <b>2022</b> , 344, 126245	11	9
118	Comparative study about the performance of three types of modified natural treatment systems for rice noodle wastewater. <i>Bioresource Technology</i> , <b>2019</b> , 282, 163-170	11	9

117	Immobilized ZnO nano film impelled bacterial disintegration of dairy sludge to enrich anaerobic digestion for profitable bioenergy production: Energetic and economic analysis. <i>Bioresource Technology</i> , <b>2020</b> , 308, 123276	11	9
116	Biogas production from beverage factory wastewater in a mobile bioenergy station. <i>Chemosphere</i> , <b>2021</b> , 264, 128564	8.4	9
115	Enhanced phytoextraction of multi-metal contaminated soils under increased atmospheric temperature by bioaugmentation with plant growth promoting <i>Bacillus cereus</i> . <i>Journal of Environmental Management</i> , <b>2021</b> , 289, 112553	7.9	9
114	Biomangement of petrochemical sludge using an exotic earthworm <i>Eudrilus eugineae</i> . <i>Journal of Environmental Biology</i> , <b>2005</b> , 26, 43-7	1.6	9
113	Enhancement of waste activated sludge reduction potential by amalgamated solar photo-Fenton treatment. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 13144-13156		8
112	Generation of electricity by the degradation of electro-Fenton pretreated latex wastewater using double chamber microbial fuel cell. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 12496-12505	4.5	8
111	Algae biorefinery: a promising approach to promote microalgae industry and waste utilization.. <i>Journal of Biotechnology</i> , <b>2021</b> ,	3.7	8
110	A review on energy and cost effective phase separated pretreatment of biosolids. <i>Water Research</i> , <b>2021</b> , 198, 117169	12.5	8
109	Investigation of four microalgae in nitrogen deficient synthetic wastewater for biorefinery based biofuel production. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 23, 101572	7	8
108	Relative evaluation of acid, alkali, and hydrothermal pretreatment influence on biochemical methane potential of date biomass. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 106031	6.8	8
107	A study on the performance of a pilot scale A2/O-MBR system in treating domestic wastewater. <i>Journal of Environmental Biology</i> , <b>2009</b> , 30, 959-63	1.6	8
106	Enhancing biomethanation from dairy waste activated biomass using a novel EGTA mediated microwave disintegration. <i>Journal of Environmental Management</i> , <b>2018</b> , 223, 644-651	7.9	7
105	Combinative treatment of chocolaterie wastewater by a hybrid up-flow anaerobic sludge blanket reactor and solar photo Fenton process121, 343-350		7
104	Biofuel production from Macroalgae: present scenario and future scope. <i>Bioengineered</i> , <b>2021</b> , 12, 9216-9238	3.7	7
103	Valorization of food waste for bioethanol and biobutanol production <b>2020</b> , 39-73		7
102	Thermochemical conversion routes of hydrogen production from organic biomass: processes, challenges and limitations. <i>Biomass Conversion and Biorefinery</i> , <b>2020</b> , 1	2.3	7
101	Dispersion aided tenside disintegration of seagrass <i>Syringodium isoetifolium</i> : Towards biomethanation, kinetics, energy exploration and evaluation. <i>Bioresource Technology</i> , <b>2019</b> , 277, 62-67	11	7
100	Textile Industry Wastewaters as Major Sources of Environmental Contamination: Bioremediation Approaches for Its Degradation and Detoxification <b>2020</b> , 135-167		7

99	Biotechnological valorization of algal biomass: an overview. <i>Systems Microbiology and Biomanufacturing</i> , <b>2021</b> , 1, 131-141		7
98	Ultrasonic induced mechanoacoustic effect on delignification of rice straw for cost effective biopretreatment and biomethane recovery. <i>Sustainable Energy and Fuels</i> , <b>2021</b> , 5, 1832-1844	5.8	7
97	Food Waste Valorization by Microalgae. <i>Energy, Environment, and Sustainability</i> , <b>2018</b> , 319-342	0.8	7
96	Mechanical-biological treatment of municipal solid waste: Case study of 100TPD Goa plant, India. <i>Journal of Environmental Management</i> , <b>2021</b> , 292, 112741	7.9	7
95	Various Sludge Pretreatments: Their Impact on Biogas Generation <b>2017</b> , 39-71		6
94	Production of organic acids and enzymes/biocatalysts from food waste <b>2020</b> , 119-141		6
93	Fermentative biohydrogen production in fixed bed reactors using ceramic and polyethylene carriers as supporting material. <i>Energy Procedia</i> , <b>2017</b> , 142, 743-748	2.3	6
92	Production of fine chemicals from food wastes <b>2020</b> , 163-188		6
91	Novel framework of GIS based automated monitoring process on environmental biodegradability and risk analysis using Internet of Things. <i>Environmental Research</i> , <b>2021</b> , 194, 110621	7.9	6
90	Influence of Mild-Ozone Assisted Disperser Pretreatment on the Enhanced Biogas Generation and Biodegradability of Green Marine Macroalgae. <i>Frontiers in Energy Research</i> , <b>2019</b> , 7,	3.8	6
89	Microbiome involved in anaerobic hydrogen producing granules: A mini review. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , <b>2019</b> , 21, e00301	5.3	6
88	Evaluation of biohydrogen production potential of fragmented sugar industry biosludge using ultrasonication coupled with egtazic acid. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 1705-1714	6.7	6
87	Treatment of spent wash in anaerobic thermophilic suspended growth reactor (ATSGR). <i>Journal of Environmental Biology</i> , <b>2007</b> , 28, 517-21	1.6	6
86	Introduction: sources and characterization of food waste and food industry wastes <b>2020</b> , 1-13		5
85	Application of chemo thermal coupled sonic homogenization of marine macroalgal biomass for energy efficient volatile fatty acid recovery. <i>Bioresource Technology</i> , <b>2020</b> , 303, 122951	11	5
84	Evaluation of bench-scale solar photocatalytic reactors for degradation of phenolic wastewaters. <i>Desalination and Water Treatment</i> , <b>2015</b> , 1-9		5
83	A Mini Review of Biochemical Conversion of Algal Biorefinery. <i>Energy &amp; Fuels</i> ,	4.1	5
82	Aerobic biodegradation of food wastes <b>2020</b> , 235-250		5

81	Disperser coupled rhamnolipid disintegration of pulp and paper mill waste biosolid: Characterisation, methane production, energy assessment and cost analysis. <i>Bioresource Technology</i> , <b>2020</b> , 297, 122545	11	5
80	Surfactant assisted microwave disintegration of green marine macroalgae for enhanced anaerobic biodegradability and biomethane recovery. <i>Fuel</i> , <b>2020</b> , 281, 118802	7.1	5
79	Evaluation of operational parameters for biodegradation of bacterially disintegrated sludge. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 25018-25027		5
78	Bioelectrochemical system-mediated waste valorization. <i>Systems Microbiology and Biomanufacturing</i> , <b>2021</b> , 1, 432-443		5
77	Microalgal Production of Biofuels Integrated with Wastewater Treatment. <i>Sustainability</i> , <b>2021</b> , 13, 8797	3.6	5
76	Mechanistic insights into promoted dewaterability, drying behaviors and methane-producing potential of waste activated sludge by Fe-activated persulfate oxidation. <i>Journal of Environmental Management</i> , <b>2021</b> , 298, 113429	7.9	5
75	Alkali activated persulfate mediated extracellular organic release on enzyme secreting bacterial pretreatment for efficient hydrogen production. <i>Bioresource Technology</i> , <b>2021</b> , 341, 125810	11	5
74	Treatment of spent wash in anaerobic mesophilic suspended growth reactor (AMSGR). <i>Journal of Environmental Biology</i> , <b>2006</b> , 27, 111-7	1.6	5
73	Solid state biomethanation of fruit wastes. <i>Journal of Environmental Biology</i> , <b>2007</b> , 28, 741-5	1.6	5
72	Biomanagement of sago-sludge using an earthworm, <i>Lampito mauritii</i> . <i>Journal of Environmental Biology</i> , <b>2008</b> , 29, 753-7	1.6	5
71	Specialty chemicals and nutraceuticals production from food industry wastes <b>2020</b> , 189-209		4
70	Combinative treatment (thermal-anaerobic) of EBPR sludge for the enhanced release and recovery of phosphorous. <i>International Journal of Environmental Engineering</i> , <b>2012</b> , 4, 92	0.2	4
69	Combined Treatment of Domestic Wastewater using Anaerobic and Solar Photocatalytic Treatment. <i>Water Quality Research Journal of Canada</i> , <b>2009</b> , 44, 393-398	1.7	4
68	Recent biotechnological developments in reshaping the microalgal genome: A signal for green recovery in biorefinery practices.. <i>Chemosphere</i> , <b>2022</b> , 293, 133513	8.4	4
67	Microalgae as a Source of Mycosporine-like Amino Acids (MAAs); Advances and Future Prospects. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	4
66	Regulation and augmentation of anaerobic digestion processes via the use of bioelectrochemical systems.. <i>Bioresource Technology</i> , <b>2021</b> , 126628	11	4
65	Integrated biorefineries of food waste <b>2020</b> , 275-298		4
64	Recent Developments in Biological Nutrient Removal. <i>Energy, Environment, and Sustainability</i> , <b>2019</b> , 211-236	2.86	4

63	TiO <sub>2</sub> - chitosan thin film induced solar photocatalytic deflocculation of sludge for profitable bacterial pretreatment and biofuel production. <i>Fuel</i> , <b>2020</b> , 273, 117741	7.1	4
62	Trends in Biological Nutrient Removal for the Treatment of Low Strength Organic Wastewaters. <i>Current Pollution Reports</i> , <b>2021</b> , 7, 1-30	7.6	4
61	Enhanced biogas production in dilute acid-thermal pretreatment and cattle dung biochar mediated biomethanation of water hyacinth. <i>Fuel</i> , <b>2022</b> , 307, 121897	7.1	4
60	Valorization of food waste for biogas, biohydrogen, and biohythane generation <b>2020</b> , 15-38		3
59	Enzymes/biocatalysts and bioreactors for valorization of food wastes <b>2020</b> , 211-233		3
58	New business and marketing concepts for cross-sector valorization of food waste <b>2020</b> , 417-433		3
57	Thermochemical conversion of food waste for bioenergy generation <b>2020</b> , 97-118		3
56	Impact of 5-hydroxy methyl furfural on continuous hydrogen production from galactose and glucose feedstock with periodic recovery. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 19045-19057	6.7	3
55	Biohydrogen Production From Industrial Wastewater <b>2019</b> , 733-760		3
54	HC-0B-01: Biodegradation of Hydrocarbons by Extremophiles. <i>Environmental Footprints and Eco-design of Products and Processes</i> , <b>2017</b> , 137-162	0.9	3
53	Biodegradation of automobile service station wastewater. <i>Desalination and Water Treatment</i> , <b>2014</b> , 52, 4649-4655		3
52	Constructed Wetlands: An Emerging Green Technology for the Treatment of Industrial Wastewaters. <i>Microorganisms for Sustainability</i> , <b>2020</b> , 21-44	1.1	3
51	Synergistic photodegradation of pulp and paper mill wastewater by combined advanced oxidation process <b>2020</b> , 160-169		3
50	Bioaugmentation of electrogenic halophiles in the treatment of pharmaceutical industrial wastewater and energy production in microbial fuel cell under saline condition. <i>Chemosphere</i> , <b>2021</b> , 288, 132515	8.4	3
49	Bioconversion of marine waste biomass for biofuel and value-added products recovery <b>2020</b> , 481-507		3
48	Enrichment of hydrogen production from fruit waste biomass using ozonation assisted with citric acid. <i>Waste Management and Research</i> , <b>2021</b> , 734242X211010364	4	3
47	Impact of novel deflocculant ZnO/Chitosan nanocomposite film in disperser pretreatment enhancing energy efficient anaerobic digestion: Parameter assessment and cost exploration. <i>Chemosphere</i> , <b>2022</b> , 286, 131835	8.4	3
46	Influence of dilute acid, alkali and hydrothermal pretreatments on methane improvement from date palm waste <i>Makaraboucht</i> cultivar. <i>Biomass Conversion and Biorefinery</i> , <b>2021</b> , 15, 103-112	2.3	3



45	State of the art of food waste management in various countries <b>2020</b> , 299-323		2
44	Bioenergy recovery from food processing wastewater Microbial fuel cell <b>2020</b> , 251-274		2
43	Activated Sludge Process and Energy <b>2017</b> , 187-210		2
42	Mild hydrogen peroxide interceded bacterial disintegration of waste activated sludge for efficient biomethane production.. <i>Science of the Total Environment</i> , <b>2022</b> , 817, 152873	10.2	2
41	A review on contemporary approaches in enhancing the innate lipid content of yeast cell.. <i>Chemosphere</i> , <b>2022</b> , 133616	8.4	2
40	Breakthrough in hydrolysis of waste biomass by physico-chemical pretreatment processes for efficient anaerobic digestion.. <i>Chemosphere</i> , <b>2022</b> , 294, 133617	8.4	2
39	Production and Utilization of Methane Biogas as Renewable Fuel <b>2020</b> , 447-463		2
38	Recalcitrant compounds formation, their toxicity, and mitigation: Key issues in biomass pretreatment and anaerobic digestion. <i>Chemosphere</i> , <b>2021</b> , 132930	8.4	2
37	Polyhydroxyalkanoates synthesis using acidogenic fermentative effluents. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 193, 2079-2079	7.9	2
36	Combination of solar advanced oxidation processes and biological treatment strategy for the decolorization and degradation of pulp and paper mill wastewater 158, 87-96		2
35	Carbon based conductive materials mediated recalcitrant toxicity mitigation during anaerobic digestion of thermo-chemically pre-treated organic fraction of municipal solid waste. <i>Chemosphere</i> , <b>2021</b> , 132682	8.4	2
34	Effect of Dispersion Treatment on Dairy Waste Activated Sludge to Hasten the Production of Biogas. <i>Frontiers in Energy Research</i> , <b>2019</b> , 7,	3.8	2
33	Surfactant induced sonic fission: an effective strategy for biohydrogen recovery from sea grass <i>Syringodium isoetifolium</i> . <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 8296-8306	4.5	2
32	Food waste biorefinery: A case study for spent coffee grounds (SCGs) into bioactive compounds across the European Union <b>2021</b> , 459-473		2
31	Genetic Engineering of Microalgae for Secondary Metabolite Production: Recent Developments, Challenges, and Future Prospects.. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2022</b> , 10, 836056	5.8	2
30	Production of biopolymers and feed protein from food wastes <b>2020</b> , 143-162		1
29	Valorization of food waste for biodiesel production <b>2020</b> , 75-96		1
28	Biohydrogen <b>2020</b> , 51-87		1

27	Modelling for Anaerobic Process <b>2017</b> , 283-304		1
26	Ferrioxalate-induced solar photo-Fenton treatment of natural rubber latex wastewaters. <i>Water Quality Research Journal of Canada</i> , <b>2015</b> , 50, 349-358	1.7	1
25	Intramedullary Spinal Cord Glial Tumours: Management Philosophy and Surgical Outcome <b>2006</b> , 36-46		1
24	Spent coffee grounds based circular bioeconomy: Technoeconomic and commercialization aspects. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 152, 111721	16.2	1
23	Process optimisation for production and recovery of succinic acid using xylose-rich hydrolysates by <i>Actinobacillus succinogenes</i> . <i>Bioresource Technology</i> , <b>2022</b> , 344, 126224	11	1
22	Macroalgae ( <i>Ulva reticulata</i> ) derived biohydrogen recovery through mild surfactant induced energy and cost efficient dispersion pretreatment technology. <i>Chemosphere</i> , <b>2022</b> , 288, 132463	8.4	1
21	Solubilisation of fruits and vegetable dregs through surfactant mediated sonic disintegration: impact on biomethane potential and energy ratio. <i>Environmental Technology (United Kingdom)</i> , <b>2021</b> , 42, 1703-1714	2.6	1
20	Management of microbial enzymes for biofuels and biogas production by using metagenomic and genome editing approaches. <i>3 Biotech</i> , <b>2021</b> , 11, 429	2.8	1
19	Biomangement of sago-sludge using an earthworm, <i>Eudrilus eugeniae</i> . <i>Journal of Environmental Biology</i> , <b>2008</b> , 29, 143-6	1.6	1
18	Exploring the role of microbial biofilm for industrial effluents treatment.. <i>Bioengineered</i> , <b>2022</b> , 13, 6420-6440	5.4	1
17	Development and application of a contaminant transport model for groundwater remediation and reservoir protection: a case study from India.. <i>Environmental Monitoring and Assessment</i> , <b>2022</b> , 194, 257	3.1	1
16	Tannery wastewater treatment coupled with bioenergy production in upflow microbial fuel cell under saline condition.. <i>Environmental Research</i> , <b>2022</b> , 212, 113304	7.9	1
15	Biohydrogen production from waste activated sludge through thermochemical mechanical pretreatment.. <i>Bioresource Technology</i> , <b>2022</b> , 127301	11	1
14	Wastewater to biogas recovery <b>2022</b> , 301-314		0
13	Geo Spatial Based Real Time Monitoring on Eutrophic Evaluation of Porunai River Basin for Pollution Risk Assessment. <i>European Journal of Remote Sensing</i> , 1-13	2.9	0
12	Effect of Solubilization on Acidification, Anaerobic Biodegradability, and Economic Feasibility via Ultrasonic Zerovalent Iron Acidic pH Pretreatment of Sludge. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 16617-16628	4.1	0
11	A review on enzymes and pathways for manufacturing polyhydroxybutyrate from lignocellulosic materials. <i>3 Biotech</i> , <b>2021</b> , 11, 483	2.8	0
10	Study on removal of silver and polyethylene terephthalate from exposed radiography films using enzyme protease. <i>Journal of Material Cycles and Waste Management</i> , <b>2021</b> , 23, 1947-1954	3.4	0

- 9 Surfactant induced microwave disintegration for enhanced biohydrogen production from macroalgae biomass: Thermodynamics and Energetics.. *Bioresource Technology*, **2022**, 126904 11 0
- 8 Environmental impacts and sustainability assessment of food loss and waste valorization: value chain analysis of food consumption **2020**, 359-388
- 7 Analysis and regulation policies of food waste based on circular bioeconomies **2020**, 389-400
- 6 Extra-axial ependymoma mimicking a meningioma. *Indian Journal of Neurosurgery*, **2017**, 03, 103-105 0.1
- 5 Biogas recovery from sludge **2022**, 381-394
- 4 Deployment of Biogas Production Technologies in Emerging Countries **2020**, 395-424
- 3 Municipal Solid Waste Management. *Advances in Civil and Industrial Engineering Book Series*, **2019**, 96-116.5
- 2 Electro-Fermentation of Biomass for High-Value Organic Acids. *Clean Energy Production Technologies*, **2020**, 417-436 0.8
- 1 Feasibility study of polyetherimide membrane for enrichment of carbon dioxide from synthetic biohydrogen mixture and subsequent utilization scenario using microalgae. *International Journal of Energy Research*, **2021**, 45, 8327-8334 4.5