

# Pau-Loke Show

## List of Publications by Year in Descending Order

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

582  
papers

14,777  
citations

59  
h-index

93  
g-index

613  
ext. papers

22,480  
ext. citations

6.9  
avg, IF

7.8  
L-index

#	Paper	IF	Citations
582	Removal of Ionic Dyes by Nanofiber Membrane Functionalized with Chitosan and Egg White Proteins: Membrane Preparation and Adsorption Efficiency.. <i>Membranes</i> , <b>2022</b> , 12,	3.8	8
581	One-Pot Ionic Liquid-Mediated Bioprocess for Pretreatment and Enzymatic Hydrolysis of Rice Straw with Ionic Liquid-Tolerance Bacterial Cellulase.. <i>Bioengineering</i> , <b>2022</b> , 9,	5.3	5
580	Meet the Editor-in-Chief. <i>Current Nutrition and Food Science</i> , <b>2022</b> , 18, 2-3	0.7	
579	Recent advances of natural biopolymeric culture scaffold: synthesis and modification.. <i>Bioengineered</i> , <b>2022</b> , 13, 2226-2247	5.7	3
578	Algae-mediated antibiotic wastewater treatment: A critical review. <i>Environmental Science and Ecotechnology</i> , <b>2022</b> , 9, 100145	7.4	7
577	Microalgae Harvest Technology <b>2022</b> , 1-26		
576	Adapting microalgae-based strategies for sustainable green cities.. <i>Biotechnology Journal</i> , <b>2022</b> , e2100586		
575	Microalgae as a potential sustainable solution to environment health.. <i>Chemosphere</i> , <b>2022</b> , 133740	8.4	
574	Trash to Energy: A Measure For the Energy Potential of Combustible content of Domestic solid waste generated from an industrialized city of Pakistan. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2022</b> , 104223	5.3	2
573	Environmental analysis of Chlorella vulgaris cultivation in large scale closed system under waste nutrient source. <i>Chemical Engineering Journal</i> , <b>2022</b> , 433, 134254	14.7	0
572	Plant extract-based green fabrication of nickel ferrite (NiFeO) nanoparticles: An operative platform for non-enzymatic determination of pentachlorophenol.. <i>Chemosphere</i> , <b>2022</b> , 294, 133760	8.4	4
571	Biochar production via pyrolysis of citrus peel fruit waste as a potential usage as solid biofuel.. <i>Chemosphere</i> , <b>2022</b> , 294, 133671	8.4	3
570	Effects of burning rice straw residue on-field on soil organic carbon pools: Environment-friendly approach from a conventional rice paddy in central Viet Nam.. <i>Chemosphere</i> , <b>2022</b> , 294, 133596	8.4	1
569	Cerium functionalized graphene nano-structures and their applications; A review.. <i>Environmental Research</i> , <b>2022</b> , 208, 112685	7.9	5
568	Recovery of microalgae biodiesel using liquid biphasic flotation system. <i>Fuel</i> , <b>2022</b> , 317, 123368	7.1	3
567	Development of CuN electrocatalyst for hydrogen evolution reaction in alkaline medium.. <i>Scientific Reports</i> , <b>2022</b> , 12, 2004	4.9	1
566	Bridge between mass transfer behavior and properties of bubbles under two-stage ultrasound-assisted physisorption of polyphenols using macroporous resin. <i>Chemical Engineering Journal</i> , <b>2022</b> , 436, 135158	14.7	1

565	Fermentation and Storage Characteristics of "Fuji" Apple Juice Using and : Microbial Growth, Metabolism of Bioactives and Bioactivities.. <i>Frontiers in Nutrition</i> , <b>2022</b> , 9, 833906	6.2	0
564	Current approaches in CRISPR-Cas9 mediated gene editing for biomedical and therapeutic applications.. <i>Journal of Controlled Release</i> , <b>2022</b> ,	11.7	5
563	The carbon sequestration potential of urban public parks of densely populated cities to improve environmental sustainability. <i>Sustainable Energy Technologies and Assessments</i> , <b>2022</b> , 52, 102064	4.7	1
562	Dehydration of apple slices by sequential drying pretreatments and airborne ultrasound-assisted air drying: Study on mass transfer, profiles of phenolics and organic acids and PPO activity. <i>Innovative Food Science and Emerging Technologies</i> , <b>2022</b> , 75, 102871	6.8	2
561	Continuous cultivation of microalgae in photobioreactors as a source of renewable energy: Current status and future challenges. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 154, 111852	16.2	19
560	Sustainable valorization of algae biomass via thermochemical processing route: An overview. <i>Bioresource Technology</i> , <b>2022</b> , 344, 126399	11	3
559	Towards green recovery of αamylase from slurry of sweet potato (Ipomoea batatas) of VitAto variety via liquid biphasic system. <i>Sustainable Chemistry and Pharmacy</i> , <b>2022</b> , 25, 100579	3.9	0
558	Effect of torrefaction and fractional condensation on the quality of bio-oil from biomass pyrolysis for fuel applications. <i>Fuel</i> , <b>2022</b> , 312, 122959	7.1	1
557	Renewable diesel as fossil fuel substitution in Malaysia: A review. <i>Fuel</i> , <b>2022</b> , 314, 123137	7.1	6
556	Phyllosilicate derived catalysts for efficient conversion of lignocellulosic derived biomass to biodiesel: A review. <i>Bioresource Technology</i> , <b>2022</b> , 343, 126068	11	4
555	Glycerol organosolv pretreatment can unlock lignocellulosic biomass for production of fermentable sugars: Present situation and challenges. <i>Bioresource Technology</i> , <b>2022</b> , 344, 126264	11	5
554	Recent advances biodegradation and biosorption of organic compounds from wastewater: Microalgae-bacteria consortium - A review. <i>Bioresource Technology</i> , <b>2022</b> , 344, 126159	11	33
553	Conversion of the toxic and hazardous Zanthoxylum armatum seed oil into methyl ester using green and recyclable silver oxide nanoparticles. <i>Fuel</i> , <b>2022</b> , 310, 122296	7.1	4
552	Microalgal-based biochar in wastewater remediation: Its synthesis, characterization and applications. <i>Environmental Research</i> , <b>2022</b> , 204, 111966	7.9	12
551	Treatment of Hospital wastewater with submerged aerobic fixed film reactor coupled with tube-settler. <i>Chemosphere</i> , <b>2022</b> , 286, 131838	8.4	5
550	Hydrogen-rich gas production via steam gasification of food waste over basic oxides (MgO/CaO/SrO) promoted-Ni/AlO catalysts. <i>Chemosphere</i> , <b>2022</b> , 287, 132224	8.4	2
549	Algae as potential feedstock for various bioenergy production. <i>Chemosphere</i> , <b>2022</b> , 287, 131944	8.4	6
548	Challenges and recent trends with the development of hydrogel fiber for biomedical applications. <i>Chemosphere</i> , <b>2022</b> , 287, 131956	8.4	4

547	Anaerobic digestate as a low-cost nutrient source for sustainable microalgae cultivation: A way forward through waste valorization approach. <i>Science of the Total Environment</i> , <b>2022</b> , 803, 150070	10.2	14
546	Biologically-mediated carbon capture and utilization by microalgae towards sustainable CO <sub>2</sub> biofixation and biomass valorization [A review]. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 130884	14.7	32
545	Multi-objective optimization of thermophysical properties of multiwalled carbon nanotubes based nanofluids. <i>Chemosphere</i> , <b>2022</b> , 286, 131690	8.4	3
544	A critical review on various remediation approaches for heavy metal contaminants removal from contaminated soils. <i>Chemosphere</i> , <b>2022</b> , 287, 132369	8.4	56
543	Highly active iron-promoted hexagonal mesoporous silica (HMS) for deoxygenation of triglycerides to green hydrocarbon-like biofuel. <i>Fuel</i> , <b>2022</b> , 308, 121860	7.1	5
542	Sustainable management of algal blooms in ponds and rivers <b>2022</b> , 431-444		0
541	Utilization of Aerobic Compression Composting Technology on Raw Mushroom Waste for Bioenergy Pellets Production. <i>Processes</i> , <b>2022</b> , 10, 463	2.9	0
540	Influence of sequential exogenous pretreatment and contact ultrasound-assisted air drying on the metabolic pathway of glucoraphanin in broccoli florets.. <i>Ultrasonics Sonochemistry</i> , <b>2022</b> , 84, 105977	8.9	
539	Hydrodynamic Cavitation: A Novel Non-Thermal Liquid Food Processing Technology.. <i>Frontiers in Nutrition</i> , <b>2022</b> , 9, 843808	6.2	0
538	Protoporphyrin Extracted from Biomass Waste as Sustainable Corrosion Inhibitors of T22 Carbon Steel in Acidic Environments. <i>Sustainability</i> , <b>2022</b> , 14, 3622	3.6	1
537	Extraction of fucoxanthin from <i>Chaetoceros calcitrans</i> by electropermeabilization-assisted liquid biphasic flotation system.. <i>Journal of Chromatography A</i> , <b>2022</b> , 1668, 462915	4.5	1
536	Isolation of indole-3-acetic acid-producing <i>Azospirillum brasilense</i> from Vietnamese wet rice: Co-immobilization of isolate and microalgae as a sustainable biorefinery.. <i>Journal of Biotechnology</i> , <b>2022</b> , 349, 12-20	3.7	0
535	Recent advances in carbon nanomaterials-based electrochemical sensors for food azo dyes detection.. <i>Food and Chemical Toxicology</i> , <b>2022</b> , 112961	4.7	40
534	The impact of using recycled culture medium to grow <i>Chlorella vulgaris</i> in a sequential flow system: Evaluation on growth, carbon removal, and biochemical compositions. <i>Biomass and Bioenergy</i> , <b>2022</b> , 159, 106412	5.3	0
533	A review on the diverse interactions between microalgae and nanomaterials: Growth variation, photosynthetic performance and toxicity.. <i>Bioresource Technology</i> , <b>2022</b> , 351, 127048	11	1
532	Smart microalgae farming with internet-of-things for sustainable agriculture.. <i>Biotechnology Advances</i> , <b>2022</b> , 107931	17.8	5
531	Prospects and environmental sustainability of phyconanotechnology: A review on algae-mediated metal nanoparticles synthesis and mechanism.. <i>Environmental Research</i> , <b>2022</b> , 113140	7.9	3
530	New Insights in factors affecting ground water quality with focus on health risk assessment and remediation techniques.. <i>Environmental Research</i> , <b>2022</b> , 113171	7.9	5

529	In silico proteolysis and molecular interaction of tilapia ( <i>Oreochromis niloticus</i> ) skin collagen-derived peptides for environmental remediation.. <i>Environmental Research</i> , <b>2022</b> , 113002	7.9	0
528	Recent advances of biosurfactant for waste and pollution bioremediation: Substitutions of petroleum-based surfactants.. <i>Environmental Research</i> , <b>2022</b> , 113126	7.9	5
527	Indigenous Materials as Catalyst Supports for Renewable Diesel Production in Malaysia. <i>Energies</i> , <b>2022</b> , 15, 2835	3.1	0
526	A comprehensive review on the use of algal-bacterial systems for wastewater treatment with emphasis on nutrient and micropollutant removal.. <i>Bioengineered</i> , <b>2022</b> , 13, 10412-10453	5.7	3
525	Progress and Recent Trends in the Application of Nanoparticles as Low Carbon Fuel Additives-A State of the Art Review.. <i>Nanomaterials</i> , <b>2022</b> , 12,	5.4	3
524	Valorization of fish bone waste as novel bioflocculant for rapid microalgae harvesting: Experimental evaluation and modelling using back propagation artificial neural network. <i>Journal of Water Process Engineering</i> , <b>2022</b> , 47, 102808	6.7	1
523	Current advances in recovery and biorefinery of fucoxanthin from <i>Phaeodactylum tricornutum</i> . <i>Algal Research</i> , <b>2022</b> , 65, 102735	5	1
522	Synthesis of mesoporous antimicrobial herbal nanomaterial-carrier for silver nanoparticles and antimicrobial sensing.. <i>Food and Chemical Toxicology</i> , <b>2022</b> , 165, 113077	4.7	1
521	Biochar production with amelioration of microwave-assisted pyrolysis: Current scenario, drawbacks and perspectives.. <i>Bioresource Technology</i> , <b>2022</b> , 355, 127303	11	2
520	Oxidative torrefaction of microalga <i>Nannochloropsis Oceanica</i> activated by potassium carbonate for solid biofuel production.. <i>Environmental Research</i> , <b>2022</b> , 212, 113389	7.9	0
519	Template-based textural modifications of polymeric graphitic carbon nitrides towards waste water treatment.. <i>Chemosphere</i> , <b>2022</b> , 302, 134792	8.4	1
518	Global market and economic analysis of microalgae technology: Status and perspectives.. <i>Bioresource Technology</i> , <b>2022</b> , 127329	11	3
517	<i>Cannabis sativa</i> L. chemical compositions as potential plasmodium falciparum dihydrofolate reductase-thymidinesynthase enzyme inhibitors: An in silico study for drug development. <i>Open Chemistry</i> , <b>2021</b> , 19, 1235-1241	1.6	2
516	Sauces Fermented With Lactic Acid Bacteria: Fermentation Properties, Flavor Profile, and Evaluation of Antioxidant Capacity .. <i>Frontiers in Nutrition</i> , <b>2021</b> , 8, 810460	6.2	1
515	Sonoproduction of nanobiomaterials - A critical review.. <i>Ultrasonics Sonochemistry</i> , <b>2021</b> , 82, 105887	8.9	2
514	Green biorefinery: Microalgae-bacteria microbiome on tolerance investigations in plants.. <i>Journal of Biotechnology</i> , <b>2021</b> , 343, 120-127	3.7	2
513	Interferences of Waxes on Enzymatic Saccharification and Ethanol Production from Lignocellulose Biomass. <i>Bioengineering</i> , <b>2021</b> , 8,	5.3	1
512	Effect of process parameters over carbon-based ZIF-62 nano-rooted membrane for environmental pollutants separation. <i>Chemosphere</i> , <b>2021</b> , 133006	8.4	10

511	Recent Progress in Nanomaterials Modified Electrochemical Biosensors for the Detection of MicroRNA. <i>Micromachines</i> , <b>2021</b> , 12,	3.3	20
510	Sustainable fermentation approach for biogenic hydrogen productivity from delignified sugarcane bagasse. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> ,	6.7	3
509	Bioethanol from hydrolysate of ultrasonic processed robust microalgal biomass cultivated in dairy wastewater under optimal strategy. <i>Energy</i> , <b>2021</b> , 244, 122604	7.9	5
508	Future advances and challenges of nanomaterial-based technologies for electromagnetic interference-based technologies: A review. <i>Environmental Research</i> , <b>2021</b> , 205, 112402	7.9	1
507	Novel strategy in biohydrogen energy production from COVID - 19 plastic waste: A critical review. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> ,	6.7	2
506	A review on sensing and catalytic activity of nano-catalyst for synthesis of one-step ammonia and urea: Challenges and perspectives. <i>Chemosphere</i> , <b>2021</b> , 291, 132806	8.4	0
505	A system dynamics approach to pollution remediation and mitigation based on increasing the share of renewable resources. <i>Environmental Research</i> , <b>2021</b> , 205, 112458	7.9	5
504	Dual nutrient heterogeneity modes in a continuous flow photobioreactor for optimum nitrogen assimilation to produce microalgal biodiesel. <i>Renewable Energy</i> , <b>2021</b> , 184, 443-443	8.1	3
503	Green synthesized nano-cellulose polyethylene imine-based biological membrane.. <i>Food and Chemical Toxicology</i> , <b>2021</b> , 160, 112773	4.7	2
502	Sustainable smart photobioreactor for continuous cultivation of microalgae embedded with Internet of Things.. <i>Bioresource Technology</i> , <b>2021</b> , 346, 126558	11	6
501	Congo red dye removal from aqueous environment by cationic surfactant modified-biomass derived carbon: Equilibrium, kinetic, and thermodynamic modeling, and forecasting via artificial neural network approach.. <i>Chemosphere</i> , <b>2021</b> , 290, 133346	8.4	37
500	Microalgae-based bioplastics: Future solution towards mitigation of plastic wastes.. <i>Environmental Research</i> , <b>2021</b> , 112620	7.9	3
499	Perovskite oxide for emerging photo(electro)catalysis in energy and environment.. <i>Environmental Research</i> , <b>2021</b> , 205, 112544	7.9	11
498	Antibiotics: An overview on the environmental occurrence, toxicity, degradation, and removal methods. <i>Bioengineered</i> , <b>2021</b> , 12, 7376-7416	5.7	17
497	Recuperation and characterization of calcium carbonate from residual oyster and clamshells and their incorporation into a residential finish. <i>Chemosphere</i> , <b>2021</b> , 132550	8.4	1
496	An integration study of microalgae bioactive retention: From microalgae biomass to microalgae bioactives nanoparticle. <i>Food and Chemical Toxicology</i> , <b>2021</b> , 158, 112607	4.7	0
495	Sequential phenolic acid co-pigmentation pretreatment and contact ultrasound-assisted air drying to intensify blackberry drying and enhance anthocyanin retention: A study on mass transfer and phenolic distribution. <i>Ultrasonics Sonochemistry</i> , <b>2021</b> , 80, 105788	8.9	1
494	Recent ultrasound advancements for the manipulation of nanobiomaterials and nanoformulations for drug delivery. <i>Ultrasonics Sonochemistry</i> , <b>2021</b> , 80, 105805	8.9	7

493	Unravelling CO2 capture performance of microalgae cultivation and other technologies via comparative carbon balance analysis. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 106519	6.8	5
492	Recent advances in hydrodynamic cavitation-based pretreatments of lignocellulosic biomass for valorization. <i>Bioresource Technology</i> , <b>2021</b> , 126251	11	6
491	Optimization of culture conditions for gamma-aminobutyric acid production by newly identified <i>Pediococcus pentosaceus</i> MN12 isolated from 'mam nem', a fermented fish sauce. <i>Bioengineered</i> , <b>2021</b> , 12, 54-62	5.7	4
490	Prospects and development of algal-bacterial biotechnology in environmental management and protection. <i>Biotechnology Advances</i> , <b>2021</b> , 47, 107684	17.8	28
489	How far have we explored fungi to fight cancer?. <i>Seminars in Cancer Biology</i> , <b>2021</b> ,	12.7	41
488	Microalgae Cultivation in Palm Oil Mill Effluent (POME) Treatment and Biofuel Production. <i>Sustainability</i> , <b>2021</b> , 13, 3247	3.6	34
487	Recent Progress in Harvest and Recovery Techniques of Mammalian and Algae Cells for Industries. <i>Indian Journal of Microbiology</i> , <b>2021</b> , 61, 279-282	3.7	3
486	Description and detection of excludons as transcriptional regulators in gram-positive, gram-negative and archaeal strains of prokaryotes. <i>Biocatalysis and Agricultural Biotechnology</i> , <b>2021</b> , 32, 101933	4.2	0
485	Development of a novel switched packed bed process for cryogenic CO2 capture from natural gas. <i>Chemical Engineering Research and Design</i> , <b>2021</b> , 147, 878-887	5.5	10
484	Heterotrophic and Mixotrophic Cultivation of <i>Chlorella vulgaris</i> using Chicken Waste Compost as Nutrients Source for Lipid Production. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2021</b> , 721, 012011	0.3	1
483	Ultrasound in the deproteinization process for chitin and chitosan production. <i>Ultrasonics Sonochemistry</i> , <b>2021</b> , 72, 105417	8.9	11
482	Waste biorefinery towards a sustainable circular bioeconomy: a solution to global issues. <i>Biotechnology for Biofuels</i> , <b>2021</b> , 14, 87	7.8	57
481	Fabrication of novel polyethersulfone (PES) hybrid ultrafiltration membranes with superior permeability and antifouling properties using environmentally friendly sulfonated functionalized polydopamine nanofillers. <i>Separation and Purification Technology</i> , <b>2021</b> , 261, 118311	8.3	27
480	Source, distribution and emerging threat of micro- and nanoplastics to marine organism and human health: Socio-economic impact and management strategies. <i>Environmental Research</i> , <b>2021</b> , 195, 110857	7.9	31
479	Effects of anaerobic digestion of food waste on biogas production and environmental impacts: a review. <i>Environmental Chemistry Letters</i> , <b>2021</b> , 19, 2921-2939	13.3	15
478	Microalgae for biofuels, wastewater treatment and environmental monitoring. <i>Environmental Chemistry Letters</i> , <b>2021</b> , 19, 2891-2904	13.3	39
477	Comparison of <i>Nigella sativa</i> and <i>Trachyspermum ammi</i> via experimental investigation and biotechnological potential. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2021</b> , 161, 108313	3.7	4
476	Torrefaction Thermogravimetric Analysis and Kinetics of Sorghum Distilled Residue for Sustainable Fuel Production. <i>Sustainability</i> , <b>2021</b> , 13, 4246	3.6	3

475	Comparison between airborne ultrasound and contact ultrasound to intensify air drying of blackberry: Heat and mass transfer simulation, energy consumption and quality evaluation. <i>Ultrasonics Sonochemistry</i> , <b>2021</b> , 72, 105410	8.9	34
474	Algae biopolymer towards sustainable circular economy. <i>Bioresource Technology</i> , <b>2021</b> , 325, 124702	11	59
473	Cultivation of <i>Chlorella vulgaris</i> in Sequential Flow Photobioreactor System: Influence of Recycled Culture Medium on Growth, Lipid and Protein Content. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2021</b> , 721, 012013	0.3	2
472	Characterization of a recombinant laccase from <i>Fusarium oxysporum</i> HUIB02 for biochemical application on dyes removal. <i>Biochemical Engineering Journal</i> , <b>2021</b> , 168, 107958	4.2	4
471	Microalgae: The Future Supply House of Biohydrogen and Biogas. <i>Frontiers in Energy Research</i> , <b>2021</b> , 9,	3.8	8
470	Industrial Perspective of Industry 5.0 <b>2021</b> , 305-310		
469	What Is Industry 5.0? <b>2021</b> , 57-93		
468	Application of ultrasonication at different microbial growth stages during apple juice fermentation by <i>Lactobacillus plantarum</i> : Investigation on the metabolic response. <i>Ultrasonics Sonochemistry</i> , <b>2021</b> , 73, 105486	8.9	7
467	Permeabilization of <i>Haematococcus pluvialis</i> and solid-liquid extraction of astaxanthin by CO <sub>2</sub> -based alkyl carbamate ionic liquids. <i>Chemical Engineering Journal</i> , <b>2021</b> , 411, 128510	14.7	22
466	Industry 4.0 <b>2021</b> , 33-56		
465	Fuel and Biofuels <b>2021</b> , 181-209		0
464	Role of biochar surface characteristics in the adsorption of aromatic compounds: pore structure and functional groups. <i>Chinese Chemical Letters</i> , <b>2021</b> ,	8.1	23
463	A review on conventional and novel materials towards heavy metal adsorption in wastewater treatment application. <i>Journal of Cleaner Production</i> , <b>2021</b> , 296, 126589	10.3	166
462	Sustainability and Development of Industry 5.0 <b>2021</b> , 287-304		0
461	Application of Industry 5.0 in the Production of Fine Chemicals and Biopolymers <b>2021</b> , 229-256		
460	Associated Factors with the Success Rate of Laparoscopic Surgery for Fallopian Tubal Occlusion in Vietnamese Infertile Women. <i>Electronic Journal of General Medicine</i> , <b>2021</b> , 18, em298	2.1	
459	Reaction kinetic and thermodynamics studies for in-situ transesterification of wet microalgae paste to biodiesel. <i>Chemical Engineering Research and Design</i> , <b>2021</b> , 169, 250-264	5.5	2
458	Food and Beverage Bio-manufacturing Industry 5.0 <b>2021</b> , 161-179		



457	A comprehensive review on the techniques for coconut oil extraction and its application. <i>Bioprocess and Biosystems Engineering</i> , <b>2021</b> , 44, 1807-1818	3.7	6
456	A practical approach for synthesis of biodiesel via non-edible seeds oils using trimetallic based montmorillonite nano-catalyst. <i>Bioresource Technology</i> , <b>2021</b> , 328, 124859	11	19
455	Medicine and Pharmaceuticals Biomanufacturing [Industry 5.0 <b>2021</b> , 135-160		
454	Significance of Industry 5.0 <b>2021</b> , 95-114		2
453	State-of-the-Art Technologies in Industry 5.0 <b>2021</b> , 257-286		1
452	Supercritical carbon dioxide extraction of plant phytochemicals for biological and environmental applications - A review. <i>Chemosphere</i> , <b>2021</b> , 271, 129525	8.4	32
451	Highly selective etherification of fructose and 5-hydroxymethylfurfural over a novel Pd-Ru/MXene catalyst for sustainable liquid fuel production. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 14680-14691	4.5	5
450	Adsorption behavior of mercury over hydrated lime: Experimental investigation and adsorption process characteristic study. <i>Chemosphere</i> , <b>2021</b> , 271, 129504	8.4	13
449	Sustainable functionalized metal-organic framework NH-MIL-101(Al) for CO separation under cryogenic conditions. <i>Environmental Pollution</i> , <b>2021</b> , 279, 116924	9.3	7
448	Hybrid Pd50-Ru50/MXene (Ti3C2Tx) nanocatalyst for effective hydrogenation of CO2 to methanol toward climate change control. <i>Chemical Engineering Journal</i> , <b>2021</b> , 414, 128869	14.7	20
447	Oxidative Extractive Desulfurization System for Fuel Oil Using Acidic Eutectic-Based Ionic Liquid. <i>Processes</i> , <b>2021</b> , 9, 1050	2.9	1
446	Computational Lock and Key and Dynamic Trajectory Analysis of Natural Biophors Against COVID-19 Spike Protein to Identify Effective Lead Molecules. <i>Molecular Biotechnology</i> , <b>2021</b> , 63, 898-908		4
445	The COVID-19 pandemic face mask waste: A blooming threat to the marine environment. <i>Chemosphere</i> , <b>2021</b> , 272, 129601	8.4	72
444	Experimental and simulation study on high-pressure V-L-S cryogenic hybrid network for CO2 capture from highly sour natural gas. <i>Chemical Engineering Research and Design</i> , <b>2021</b> , 150, 36-50	5.5	1
443	Two-step thermodegradation kinetics of cellulose, hemicelluloses, and lignin under isothermal torrefaction analyzed by particle swarm optimization. <i>Energy Conversion and Management</i> , <b>2021</b> , 238, 114116	10.6	16
442	Sources, chemistry, bioremediation and social aspects of arsenic-contaminated waters: a review. <i>Environmental Chemistry Letters</i> , <b>2021</b> , 19, 3859-3886	13.3	8
441	Facile and green approach in managing sand crab carapace biowaste for obtention of high deacetylation percentage chitosan. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 105229	6.8	7
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436	Discovery of $\beta$ -Glucosidase Inhibitors from Marine Microorganisms: Optimization of Culture Conditions and Medium Composition. <i>Molecular Biotechnology</i> , <b>2021</b> , 63, 1004-1015	3	2
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422	Encapsulation of bioactive polyphenols by starch and their impacts on gut microbiota. <i>Current Opinion in Food Science</i> , <b>2021</b> , 38, 102-111	9.8	10

4 <sup>21</sup>	Permeabilization of <i>Chlorella sorokiniana</i> and extraction of lutein by distillable CO <sub>2</sub> -based alkyl carbamate ionic liquids. <i>Separation and Purification Technology</i> , <b>2021</b> , 256, 117471	8.3	15
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4 <sup>19</sup>	Green synthesis of zinc oxide nanoparticles using <i>Phoenix dactylifera</i> waste as bioreductant for effective dye degradation and antibacterial performance in wastewater treatment. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 402, 123560	12.8	116
4 <sup>18</sup>	Ferric oxide/date seed activated carbon nanocomposites mediated dark fermentation of date fruit wastes for enriched biohydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 16631-16643	6.7	20
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4 <sup>16</sup>	A critical review on global trends in biogas scenario with its up-gradation techniques for fuel cell and future perspectives. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 16734-16750	6.7	27
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261	A review on microalgae cultivation and harvesting, and their biomass extraction processing using ionic liquids. <i>Bioengineered</i> , <b>2020</b> , 11, 116-129	5.7	92
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33	Improving protein production of indigenous microalga <i>Chlorella vulgaris</i> FSP-E by photobioreactor design and cultivation strategies. <i>Biotechnology Journal</i> , <b>2015</b> , 10, 905-14	5.6	21
32	Review of Microbial Lipase Purification Using Aqueous Two-phase Systems. <i>Current Organic Chemistry</i> , <b>2015</b> , 19, 19-29	1.7	20
31	Extractive bioconversion of poly- $\epsilon$ -caprolactone by <i>Burkholderia cepacia</i> lipase in an aqueous two-phase system. <i>Biochemical Engineering Journal</i> , <b>2015</b> , 101, 9-17	4.2	20
30	Current applications of different type of aqueous two-phase systems. <i>Bioresources and Bioprocessing</i> , <b>2015</b> , 2,	5.2	64
29	Characterization of bovine serum albumin partitioning behaviors in polymer-salt aqueous two-phase systems. <i>Journal of Bioscience and Bioengineering</i> , <b>2015</b> , 120, 85-90	3.3	16
28	Current trends in polyhydroxyalkanoates (PHAs) biosynthesis: insights from the recombinant <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , <b>2014</b> , 180, 52-65	3.7	94
27	Kinetic modeling of ultrasound-assisted extraction of phenolic compounds from grape marc: influence of acoustic energy density and temperature. <i>Ultrasonics Sonochemistry</i> , <b>2014</b> , 21, 1461-9	8.9	119
26	Recovery of <i>Bacillus cereus</i> cyclodextrin glycosyltransferase using ionic liquid-based aqueous two-phase system. <i>Separation and Purification Technology</i> , <b>2014</b> , 138, 28-33	8.3	19



25	Bromelain: an overview of industrial application and purification strategies. <i>Applied Microbiology and Biotechnology</i> , <b>2014</b> , 98, 7283-97	5.7	99
24	The removal of metallic single-walled carbon nanotubes using an aqueous two-phase system. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2014</b> , 14, 3398-402	1.3	10
23	Ultrasound-assisted extraction of phenolics from wine lees: modeling, optimization and stability of extracts during storage. <i>Ultrasonics Sonochemistry</i> , <b>2014</b> , 21, 706-15	8.9	134
22	Separation of single-walled carbon nanotubes using aqueous two-phase system. <i>Separation and Purification Technology</i> , <b>2014</b> , 125, 136-141	8.3	15
21	Experimental and modeling studies of ultrasound-assisted release of phenolics from oak chips into model wine. <i>Ultrasonics Sonochemistry</i> , <b>2014</b> , 21, 1839-48	8.9	55
20	Recovery of human interferon alpha-2b from recombinant Escherichia coli using alcohol/salt-based aqueous two-phase systems. <i>Separation and Purification Technology</i> , <b>2013</b> , 120, 362-366	8.3	39
19	Interfacial partitioning behaviour of bovine serum albumin in polymer-salt aqueous two-phase system. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2013</b> , 934, 71-8	3.2	13
18	Recovery of lipase derived from Burkholderia cenocepacia ST8 using sustainable aqueous two-phase flotation composed of recycling hydrophilic organic solvent and inorganic salt. <i>Separation and Purification Technology</i> , <b>2013</b> , 110, 112-118	8.3	73
17	Extractive bioconversion of cyclodextrins by Bacillus cereus cyclodextrin glycosyltransferase in aqueous two-phase system. <i>Bioresource Technology</i> , <b>2013</b> , 142, 723-6	11	28
16	Primary recovery of lipase derived from Burkholderia cenocepacia strain ST8 and recycling of phase components in an aqueous two-phase system. <i>Biochemical Engineering Journal</i> , <b>2012</b> , 60, 74-80	4.2	48
15	Extractive fermentation for improved production and recovery of lipase derived from Burkholderia cepacia using a thermoseparating polymer in aqueous two-phase systems. <i>Bioresource Technology</i> , <b>2012</b> , 116, 226-33	11	64
14	Effects of high hydrostatic pressure processing on the physicochemical and sensorial properties of a red wine. <i>Innovative Food Science and Emerging Technologies</i> , <b>2012</b> , 16, 409-416	6.8	61
13	The concept of two-dimensional electrophoresis-guided purification proven by isolation of rhodocetin from Calloselasma rhodostoma (Malayan pit viper). <i>Journal of Venomous Animals and Toxins Including Tropical Diseases</i> , <b>2011</b> , 17, 442-450	2.2	1
12	Direct recovery of lipase derived from Burkholderia cepacia in recycling aqueous two-phase flotation. <i>Separation and Purification Technology</i> , <b>2011</b> , 80, 577-584	8.3	68
11	Ionic liquids for the inhibition of gas hydrates. A review. <i>Environmental Chemistry Letters</i> , 1	13.3	4
10	Biodegradation and Detoxification of Malachite Green Dye by Extracellular Laccase Expressed from Fusarium oxysporum. <i>Waste and Biomass Valorization</i> , 1	3.2	1
9	Biovalorization of agro-industrial waste soybean meal for the production of prodigiosin by Serratia marcescens. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	0
8	Recent Development of Renewable Diesel Production Using Bimetallic Catalysts. <i>Frontiers in Energy Research</i> , 9,	3.8	3

7	Prospects of Palm Fruit Extraction Technology: Palm Oil Recovery Processes and Quality Enhancement. <i>Food Reviews International</i> ,1-28	5.5	5
6	Use of chicken feathers as potential adsorbent for the reclamation of industrial lean methyl diethanolamine solutions. <i>Separation Science and Technology</i> ,1-16	2.5	1
5	Enhanced production of non-edible Xanthium spinosum-based biodiesel using waste biomass under dynamic conditions. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	2
4	Characterization of bacteria type strain Bacillus. spp isolated from extracellular polymeric substance harvested in seafood wastewater. <i>Journal of Chemical Technology and Biotechnology</i> ,	3.5	2
3	Nanochemistry approach for the fabrication of Fe and N co-decorated biomass-derived activated carbon frameworks: a promising oxygen reduction reaction electrocatalyst in neutral media. <i>Journal of Nanostructure in Chemistry</i> ,1	7.6	25
2	Recent approaches on the optimization of biomass gasification process parameters for product H <sub>2</sub> and syngas ratio: a review. <i>Environment, Development and Sustainability</i> ,1	4.5	0
1	Production of hydrogen and value-added carbon materials by catalytic methane decomposition: a review. <i>Environmental Chemistry Letters</i> ,1	13.3	0