# Meisam Tabatabaei

List of Publications by Year
in descending order



| 295 | 21,629 | 10389 72 | 12597 132 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 301 | 301 | 301 | 18135 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The 2020 report of The Lancet Countdown on health and climate change: responding to converging crises. Lancet, The, 2021, 397, 129-170. | 13.7 | 1,030 |
| 2 | Lignocellulosic biomass to bioethanol, a comprehensive review with a focus on pretreatment. Renewable and Sustainable Energy Reviews, 2013, 27, 77-93. | 16.4 | 999 |
| 3 | The 2019 report of The Lancet Countdown on health and climate change: ensuring that the health of a child born today is not defined by a changing climate. Lancet, The, 2019, 394, 1836-1878. | 13.7 | 905 |
| 4 | The Lancet Countdown on health and climate change: from 25 years of inaction to a global transformation for public health. Lancet, The, 2018, 391, 581-630. | 13.7 | 802 |
| 5 | The 2021 report of the Lancet Countdown on health and climate change: code red for a healthy future. Lancet, The, 2021, 398, 1619-1662. | 13.7 | 669 |
| 6 | The 2018 report of the Lancet Countdown on health and climate change: shaping the health of nations for centuries to come. Lancet, The, 2018, 392, 2479-2514. | 13.7 | 595 |
| 7 | Valorization of biomass waste to engineered activated biochar by microwave pyrolysis: Progress, challenges, and future directions. Chemical Engineering Journal, 2020, 389, 124401. | 12.7 | 484 |
| 8 | A review on the prospects of sustainable biodiesel production: A global scenario with an emphasis on waste-oil biodiesel utilization. Renewable and Sustainable Energy Reviews, 2017, 72, 445-464. | 16.4 | 399 |
| 9 | Reactor technologies for biodiesel production and processing: A review. Progress in Energy and Combustion Science, 2019, 74, 239-303. | 31.2 | 330 |
| 10 | TiO2 nanocomposite based polymeric membranes: A review on performance improvement for various applications in chemical engineering processes. Chemical Engineering Journal, 2016, 283, 29-46. | 12.7 | 317 |
| 11 | Fatty acids profiling: A selective criterion for screening microalgae strains for biodiesel production. Algal Research, 2013, 2, 258-267. | 4.6 | 315 |
| 12 | Impacts of additives on performance and emission characteristics of diesel engines during steady state operation. Progress in Energy and Combustion Science, 2017, 59, 32-78. | 31.2 | 305 |
| 13 | Three pillars of sustainability in the wake of COVID-19: A systematic review and future research agenda for sustainable development. Journal of Cleaner Production, 2021, 297, 126660. | 9.3 | 259 |
| 14 | A comprehensive review on the environmental impacts of diesel/biodiesel additives. Energy Conversion and Management, 2018, 174, 579-614. | 9.2 | 257 |
| 15 | A novel soluble nano-catalysts in dieselâ€“biodiesel fuel blends to improve diesel engines performance and reduce exhaust emissions. Fuel, 2015, 139, 374-382. | 6.4 | 245 |
| 16 | Machine learning technology in biodiesel research: A review. Progress in Energy and Combustion Science, 2021, 85, 100904. | 31.2 | 231 |
| 17 | A critical review of the effects of pretreatment methods on the exergetic aspects of lignocellulosic biofuels. Energy Conversion and Management, 2020, 212, 112792. | 9.2 | 230 |
| 18 | Encapsulation of Mentha piperita essential oils in chitosanâ€“cinnamic acid nanogel with enhanced antimicrobial activity against Aspergillus flavus. Industrial Crops and Products, 2014, 54, 310-319. | 5.2 | 229 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | A comprehensive review of engineered biochar: Production, characteristics, and environmental applications. Journal of Cleaner Production, 2020, 270, 122462. | 9.3 | 207 |
| 20 | Progress in microwave pyrolysis conversion of agricultural waste to value-added biofuels: A batch to continuous approach. Renewable and Sustainable Energy Reviews, 2021, 135, 110148. | 16.4 | 206 |
| 21 | Electricity generation and GHG emission reduction potentials through different municipal solid waste management technologies: A comparative review. Renewable and Sustainable Energy Reviews, 2017, 79, 414-439. | 16.4 | 205 |
| 22 | Immobilization of cellulase enzyme on superparamagnetic nanoparticles and determination of its activity and stability. Chemical Engineering Journal, 2011, 171, 669-673. | 12.7 | 200 |
| 23 | BiodieselAnalyzer: a user-friendly software for predicting the properties of prospective biodiesel. Biofuel Research Journal, 0, , 55-57. | 13.3 | 190 |
| 24 | A comprehensive review on recent biological innovations to improve biogas production, Part 1: Upstream strategies. Renewable Energy, 2020, 146, 1204-1220. | 8.9 | 185 |
| 25 | Rice bran oil-based biodiesel as a promising renewable fuel alternative to petrodiesel: A review. Renewable and Sustainable Energy Reviews, 2021, 135, 110204. | 16.4 | 176 |
| 26 | A critical review on livestock manure biorefinery technologies: Sustainability, challenges, and future perspectives. Renewable and Sustainable Energy Reviews, 2021, 135, 110033. | 16.4 | 176 |
| 27 | Exergoenvironmental analysis of bioenergy systems: A comprehensive review. Renewable and Sustainable Energy Reviews, 2021, 149, 111399. | 16.4 | 174 |
| 28 | Exergy analysis of a lignocellulosic-based biorefinery annexed to a sugarcane mill for simultaneous lactic acid and electricity production. Energy, 2018, 149, 623-638. | 8.8 | 158 |
| 29 | Evaluation of commercial PTFE membranes in desalination by direct contact membrane distillation. Chemical Engineering and Processing: Process Intensification, 2014, 76, 16-25. | 3.6 | 156 |
| 30 | Exergoeconomic analysis of a DI diesel engine fueled with diesel/biodiesel (B5) emulsions containing aqueous nano cerium oxide. Energy, 2018, 149, 967-978. | 8.8 | 152 |
| 31 | A comprehensive review on recent biological innovations to improve biogas production, Part 2: Mainstream and downstream strategies. Renewable Energy, 2020, 146, 1392-1407. | 8.9 | 144 |
| 32 | Engineered biochar via microwave CO2 and steam pyrolysis to treat carcinogenic Congo red dye. Journal of Hazardous Materials, 2020, 395, 122636. | 12.4 | 142 |
| 33 | Neat diesel beats waste-oriented biodiesel from the exergoeconomic and exergoenvironmental point of views. Energy Conversion and Management, 2017, 148, 1-15. | 9.2 | 136 |
| 34 | Environmental life cycle assessment of different biorefinery platforms valorizing municipal solid waste to bioenergy, microbial protein, lactic and succinic acid. Renewable and Sustainable Energy Reviews, 2020, 117, 109493. | 16.4 | 136 |
| 35 | Recent updates on lignocellulosic biomass derived ethanol - A review. Biofuel Research Journal, 2016, 3, 347-356. | 13.3 | 130 |
| 36 | Biodiesel production from genetically engineered microalgae: Future of bioenergy in Iran. Renewable and Sustainable Energy Reviews, 2011, 15, 1918-1927. | 16.4 | 129 |

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| 37 | A novel emulsion fuel containing aqueous nano cerium oxide additive in dieselâ€“biodiesel blends to improve diesel engines performance and reduce exhaust emissions: Part I â€“ Experimental analysis. Fuel, 2017, 207, 741-750. | 6.4 | 128 |
| 38 | Comprehensive exergoeconomic analysis of a municipal solid waste digestion plant equipped with a biogas genset. Waste Management, 2019, 87, 485-498. | 7.4 | 128 |
| 39 | Pretreatment of lignocelluloses for enhanced biogas production: A review on influencing mechanisms and the importance of microbial diversity. Renewable and Sustainable Energy Reviews, 2021, 135, 110173. | 16.4 | 128 |
| 40 | On the exergoeconomic and exergoenvironmental evaluation and optimization of biodiesel synthesis from waste cooking oil (WCO) using a low power, high frequency ultrasonic reactor. Energy Conversion and Management, 2018, 164, 385-398. | 9.2 | 127 |
| 41 | Metabolic engineering of microorganisms for biofuel production. Renewable and Sustainable Energy Reviews, 2018, 82, 3863-3885. | 16.4 | 124 |
| 42 | Improving exergetic and sustainability parameters of a DI diesel engine using polymer waste dissolved in biodiesel as a novel diesel additive. Energy Conversion and Management, 2015, 105, 328-337. | 9.2 | 123 |
| 43 | Comprehensive exergy analysis of a gas engine-equipped anaerobic digestion plant producing electricity and biofertilizer from organic fraction of municipal solid waste. Energy Conversion and Management, 2017, 151, 753-763. | 9.2 | 123 |
| 44 | Upstream and downstream strategies to economize biodiesel production. Bioresource Technology, 2011, 102, 461-468. | 9.6 | 122 |
| 45 | Importance of the methanogenic archaea populations in anaerobic wastewater treatments. Process Biochemistry, 2010, 45, 1214-1225. | 3.7 | 121 |
| 46 | Encapsulation of Thyme essential oils in chitosan-benzoic acid nanogel with enhanced antimicrobial activity against Aspergillus flavus. LWT - Food Science and Technology, 2015, 60, 502-508. | 5.2 | 120 |
| 47 | A novel emulsion fuel containing aqueous nano cerium oxide additive in dieselâ€“biodiesel blends to improve diesel engines performance and reduce exhaust emissions: Part II â€“ Exergetic analysis. Fuel, 2017, 205, 262-271. | 6.4 | 118 |
| 48 | Recent updates on biogas production - a review. Biofuel Research Journal, 2016, 3, 394-402. | 13.3 | 114 |
| 49 | Biogas production from food wastes: A review on recent developments and future perspectives. Bioresource Technology Reports, 2019, 7, 100202. | 2.7 | 110 |
| 50 | A review on beet sugar industry with a focus on implementation of waste-to-energy strategy for power supply. Renewable and Sustainable Energy Reviews, 2019, 103, 423-442. | 16.4 | 109 |
| 51 | Multi-objective exergetic and technical optimization of a piezoelectric ultrasonic reactor applied to synthesize biodiesel from waste cooking oil (WCO) using soft computing techniques. Fuel, 2019, 235, 100-112. | 6.4 | 108 |
| 52 | Biopower and biofertilizer production from organic municipal solid waste: An exergoenvironmental analysis. Renewable Energy, 2019, 143, 64-76. | 8.9 | 107 |
| 53 | Two decades of research on waste management in the circular economy: Insights from bibliometric, text mining, and content analyses. Journal of Cleaner Production, 2021, 314, 128009. | 9.3 | 107 |
| 54 | Encapsulation of Cuminum cyminum essential oils in chitosan-caffeic acid nanogel with enhanced antimicrobial activity against Aspergillus flavus. Industrial Crops and Products, 2015, 69, 251-256. | 5.2 | 105 |

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| 55 | Development of a quantum dots FRET-based biosensor for efficient detection ofPolymyxa betae. Canadian Journal of Plant Pathology, 2012, 34, 507-515. | 1.4 | 101 |
| 56 | Effect of an emission-reducing soluble hybrid nanocatalyst in diesel/biodiesel blends on exergetic performance of a DI diesel engine. Renewable Energy, 2016, 93, 353-368. | 8.9 | 99 |
| 57 | A state-of-the-art review on the application of nanomaterials for enhancing biogas production. Journal of Environmental Management, 2019, 251, 109597. | 7.8 | 99 |
| 58 | Effects of aqueous carbon nanoparticles as a novel nanoadditive in water-emulsified diesel/biodiesel blends on performance and emissions parameters of a diesel engine. Energy Conversion and Management, 2019, 196, 1153-1166. | 9.2 | 96 |
| 59 | Physical and antimicrobial properties of starch-carboxy methyl cellulose film containing rosemary essential oils encapsulated in chitosan nanogel. International Journal of Biological Macromolecules, 2018, 112, 148-155. | 7.5 | 94 |
| 60 | Conversion of residues from agro-food industry into bioethanol in Iran: An under-valued biofuel additive to phase out MTBE in gasoline. Renewable Energy, 2020, 145, 699-710. | 8.9 | 94 |
| 61 | Fuzzy modeling and optimization of the synthesis of biodiesel from waste cooking oil (WCO) by a low power, high frequency piezo-ultrasonic reactor. Energy, 2017, 132, 65-78. | 8.8 | 91 |
| 62 | Valorization of municipal wastes using co-pyrolysis for green energy production, energy security, and environmental sustainability: A review. Chemical Engineering Journal, 2021, 421, 129749. | 12.7 | 90 |
| 63 | Formulation of Pickering sunflower oil-in-water emulsion stabilized by chitosan-stearic acid nanogel and studying its oxidative stability. Carbohydrate Polymers, 2019, 210, 47-55. | 10.2 | 89 |
| 64 | A comprehensive review on electricity generation and GHG emission reduction potentials through anaerobic digestion of agricultural and livestock/slaughterhouse wastes in Iran. Renewable and Sustainable Energy Reviews, 2019, 111, 571-594. | 16.4 | 89 |
| 65 | Comparative life cycle assessment of different municipal solid waste management scenarios in Iran. Renewable and Sustainable Energy Reviews, 2015, 51, 886-898. | 16.4 | 88 |
| 66 | Exact estimation of biodiesel cetane number (CN) from its fatty acid methyl esters (FAMEs) profile using partial least square (PLS) adapted by artificial neural network (ANN). Energy Conversion and Management, 2016, 124, 389-398. | 9.2 | 86 |
| 67 | Prognostication of lignocellulosic biomass pyrolysis behavior using ANFIS model tuned by PSO algorithm. Fuel, 2019, 253, 189-198. | 6.4 | 85 |
| 68 | Environmental impact assessment of olive pomace oil biodiesel production and consumption: A comparative lifecycle assessment. Energy, 2016, 106, 87-102. | 8.8 | 82 |
| 69 | Performance assessment of a wind power plant using standard exergy and extended exergy accounting (EEA) approaches. Journal of Cleaner Production, 2018, 171, 127-136. | 9.3 | 81 |
| 70 | Simultaneous reduction of CO and NOx emissions as well as fuel consumption by using water and nano particles in Dieselâ€“Biodiesel blend. Journal of Cleaner Production, 2019, 210, 1164-1170. | 9.3 | 80 |
| 71 | Exergetic, exergoeconomic, and exergoenvironmental aspects of an industrial-scale molasses-based ethanol production plant. Energy Conversion and Management, 2021, 227, 113637. | 9.2 | 78 |
| 72 | Life cycle assessment of different strategies for energy and nutrient recovery from source sorted organic fraction of household waste. Journal of Cleaner Production, 2018, 180, 360-374. | 9.3 | 76 |

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| 73 | Recent trends in biodiesel production. Biofuel Research Journal, 2015, 2, 258-267. | 13.3 | 76 |
| 74 | Encapsulation of Rosmarinus officinalis essential oils in chitosan-benzoic acid nanogel with enhanced antibacterial activity in beef cutlet against Salmonella typhimurium during refrigerated storage. LWT - Food Science and Technology, 2017, 84, 394-401. | 5.2 | 74 |
| 75 | Recent trends in acetone, butanol, and ethanol (ABE) production. Biofuel Research Journal, 2015, 2, 301-308. | 13.3 | 74 |
| 76 | Environmental life cycle assessment of biodiesel production from waste cooking oil: A systematic review. Renewable and Sustainable Energy Reviews, 2022, 161, 112411. | 16.4 | 73 |
| 77 | Machine learning predicts and optimizes hydrothermal liquefaction of biomass. Chemical Engineering Journal, 2022, 445, 136579. | 12.7 | 73 |
| 78 | Exergoeconomic and exergoenvironmental co-optimization of continuous fuel additives (acetins) synthesis from glycerol esterification with acetic acid using Amberlyst 36 catalyst. Energy Conversion and Management, 2018, 165, 183-194. | 9.2 | 72 |
| 79 | Characterization of electrospun polystyrene membrane for treatment of biodiesel's water-washing effluent using atomic force microscopy. Desalination, 2013, 329, 1-8. | 8.2 | 70 |
| 80 | Exergetic sustainability analysis of municipal solid waste treatment systems: A systematic critical review. Renewable and Sustainable Energy Reviews, 2022, 156, 111975. | 16.4 | 69 |
| 81 | Mapping healthcare waste management research: Past evolution, current challenges, and future perspectives towards a circular economy transition. Journal of Hazardous Materials, 2022, 422, 126724. | 12.4 | 68 |
| 82 | Recent advances in polyurethanes as efficient media for thermal energy storage. Energy Storage Materials, 2020, 30, 74-86. | 18.0 | 67 |
| 83 | Comparative Salt Stress Study on Intracellular Ion Concentration in Marine and Salt-adapted Freshwater Strains of Microalgae. Notulae Scientia Biologicae, 2013, 5, 309-315. | 0.4 | 64 |
| 84 | Exergy-based sustainability analysis of acetins synthesis through continuous esterification of glycerol in acetic acid using AmberlystÂ®36 as catalyst. Journal of Cleaner Production, 2018, 183, 1265-1275. | 9.3 | 64 |
| 85 | Emerging challenges of air pollution and particulate matter in China, India, and Pakistan and mitigating solutions. Journal of Hazardous Materials, 2021, 416, 125851. | 12.4 | 64 |
| 86 | Advancement in valorization technologies to improve utilization of bio-based waste in bioeconomy context. Renewable and Sustainable Energy Reviews, 2020, 131, 109965. | 16.4 | 63 |
| 87 | A coating based on clove essential oils encapsulated by chitosan-myristic acid nanogel efficiently enhanced the shelf-life of beef cutlets. Food Packaging and Shelf Life, 2017, 14, 137-145. | 7.5 | 62 |
| 88 | Concentration of glycerol from dilute glycerol wastewater using sweeping gas membrane distillation. Chemical Engineering and Processing: Process Intensification, 2014, 78, 58-66. | 3.6 | 60 |
| 89 | Sustainable management of municipal solid waste through waste-to-energy technologies. Bioresource Technology, 2022, 355, 127247. | 9.6 | 60 |
| 90 | Techno-economic aspects of a safflower-based biorefinery plant co-producing bioethanol and biodiesel. Energy Conversion and Management, 2019, 201, 112184. | 9.2 | 59 |

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| 91 | Exergy-based sustainability analysis of a low power, high frequency piezo-based ultrasound reactor for rapid biodiesel production. Energy Conversion and Management, 2017, 148, 759-769. | 9.2 | 58 |
| 92 | Environmental impact assessment of the mechanical shaft work produced in a diesel engine running on diesel/biodiesel blends containing glycerol-derived triacetin. Journal of Cleaner Production, 2019, 223, 466-486. | 9.3 | 58 |
| 93 | A review of the effect of biodiesel on the corrosion behavior of metals/alloys in diesel engines. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2020, 42, 2923-2943. | 2.3 | 58 |
| 94 | Bioethanol production from food wastes rich in carbohydrates. Current Opinion in Food Science, 2022, 43, 71-81. | 8.0 | 57 |
| 95 | The use of ELM-WT (extreme learning machine with wavelet transform algorithm) to predict exergetic performance of a DI diesel engine running on diesel/biodiesel blends containing polymer waste. Energy, 2016, 94, 443-456. | 8.8 | 56 |
| 96 | Soft computing-based modeling and emission control/reduction of a diesel engine fueled with carbon nanoparticle-dosed water/diesel â€Žemulsion fuel. Journal of Hazardous Materials, 2021, 407, 124369. | 12.4 | 56 |
| 97 | Manipulation of carbon flux into fatty acid biosynthesis pathway in Dunaliella salina using AccD and ME genes to enhance lipid content and to improve produced biodiesel quality. Biofuel Research Journal, 0, , 91-97. | 13.3 | 56 |
| 98 | Experimental investigation of low-level water in waste-oil produced biodiesel-diesel fuel blend. Energy, 2017, 121, 331-340. | 8.8 | 55 |
| 99 | Progress in the torrefaction technology for upgrading oil palm wastes to energy-dense biochar: A review. Renewable and Sustainable Energy Reviews, 2021, 151, 111645. | 16.4 | 55 |
| 100 | Experimental investigation of performance and emission characteristics of DI diesel engine fueled with polymer waste dissolved in biodiesel-blended dieselÂfuel. Energy, 2012, 46, 596-605. | 8.8 | 54 |
| 101 | Support vector machine-based exergetic modelling of a DI diesel engine running on biodieselâ€“diesel blends containing expanded polystyrene. Applied Thermal Engineering, 2016, 94, 727-747. | 6.0 | 54 |
| 102 | Recent updates on the production and upgrading of bio-crude oil from microalgae. Bioresource Technology Reports, 2019, 7, 100216. | 2.7 | 54 |
| 103 | Highly sensitive FRET-based fluorescence immunoassay for aflatoxin B1 using cadmium telluride quantum dots. Mikrochimica Acta, 2013, 180, 1217-1223. | 5.0 | 53 |
| 104 | Managing the hazardous waste cooking oil by conversion into bioenergy through the application of waste-derived green catalysts: A review. Journal of Hazardous Materials, 2022, 424, 127636. | 12.4 | 53 |
| 105 | Continuous co-production of ethanol and xylitol from rice straw hydrolysate in a membrane bioreactor. Folia Microbiologica, 2016, 61, 179-189. | 2.3 | 52 |
| 106 | High quality potassium phosphate production through step-by-step glycerol purification: A strategy to economize biodiesel production. Bioresource Technology, 2012, 104, 788-790. | 9.6 | 51 |
| 107 | Characterization of polymeric membranes for membrane distillation using atomic force microscopy. Desalination and Water Treatment, 2013, 51, 6003-6008. | 1.0 | 51 |
| 108 | Estimation of biomass higher heating value (HHV) based on the proximate analysis by using iterative neural network-adapted partialÂleast squares (INNPLS). Energy, 2017, 138, 473-479. | 8.8 | 51 |

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| 109 | Acceleration of biodieselâ€“glycerol decantation through NaCl-assisted gravitational settling: A strategy to economize biodiesel production. Bioresource Technology, 2013, 134, 401-406. | 9.6 | 50 |
| 110 | Shifting fuel feedstock from oil wells to sea: Iran outlook and potential for biofuel production from brown macroalgae (ochrophyta; phaeophyceae). Renewable and Sustainable Energy Reviews, 2019, 112, 626-642. | 16.4 | 50 |
| 111 | Applications of Nanotechnology and Carbon Nanoparticles in Agriculture. , 2019, , 247-277. | | 50 |
| 112 | Environmental life cycle assessment of different biorefinery platforms valorizing olive wastes to biofuel, phosphate salts, natural antioxidant, and an oxygenated fuel additive (triacetin). Journal of Cleaner Production, 2021, 278, 123916. | 9.3 | 50 |
| 113 | Biomass and organic waste potentials towards implementing circular bioeconomy platforms: A systematic bibliometric analysis. Fuel, 2022, 318, 123585. | 6.4 | 50 |
| 114 | Experimental investigation of the effect of cerium oxide nanoparticles as a combustion-improving additive on biodiesel oxidative stability: mechanism. RSC Advances, 2014, 4, 14352. | 3.6 | 49 |
| 115 | Fluorometric immunoassay for detecting the plant virus Citrus tristeza using carbon nanoparticles acting as quenchers and antibodies labeled with CdTe quantum dots. Mikrochimica Acta, 2016, 183, 2277-2287. | 5.0 | 48 |
| 116 | Progress toward improving ethanol production through decreased glycerol generation in Saccharomyces cerevisiae by metabolic and genetic engineering approaches. Renewable and Sustainable Energy Reviews, 2019, 115, 109353. | 16.4 | 48 |
| 117 | Exergoeconomic analysis of lactic acid and power cogeneration from sugarcane residues through a biorefinery approach. Renewable Energy, 2019, 143, 872-889. | 8.9 | 48 |
| 118 | Antibody-mediated resistance against plant pathogens. Biotechnology Advances, 2011, 29, 961-971. | 11.7 | 46 |
| 119 | Preparation and Characterization of CTAB-Coated Fe<sub>3</sub>O<sub>4</sub> Nanoparticles. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2012, 42, 644-648. | 0.6 | 46 |
| 120 | Detection of Citrus tristeza virus by using fluorescence resonance energy transfer-based biosensor. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 169, 216-222. | 3.9 | 45 |
| 121 | Exergy-based sustainability assessment of continuous photobiological hydrogen production using anaerobic bacterium Rhodospirillum rubrum. Journal of Cleaner Production, 2016, 139, 157-166. | 9.3 | 45 |
| 122 | Biogas and bioethanol production from pinewood pre-treated with steam explosion and N-methylmorpholine-N-oxide (NMMO): A comparative life cycle assessment approach. Energy, 2016, 114, 935-950. | 8.8 | 44 |
| 123 | Life cycle assessment analysis of an ultrasound-assisted system converting waste cooking oil into biodiesel. Renewable Energy, 2020, 151, 1352-1364. | 8.9 | 44 |
| 124 | Wet wastes to bioenergy and biochar: A critical review with future perspectives. Science of the Total Environment, 2022, 817, 152921. | 8.0 | 44 |
| 125 | Techno-economic comparison of three biodiesel production scenarios enhanced by glycerol supercritical water reforming process. International Journal of Hydrogen Energy, 2019, 44, 17845-17862. | 7.1 | 43 |
| 126 | Energy flow modeling and life cycle assessment of apple juice production: Recommendations for renewable energies implementation and climate change mitigation. Journal of Cleaner Production, 2020, 246, 118997. | 9.3 | 43 |

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| 127 | A state-of-the-art review on producing engineered biochar from shellfish waste and its application in aquaculture wastewater treatment. Chemosphere, 2022, 288, 132559. | 8.2 | 43 |
| 128 | Nitrification of ammonium-rich sanitary landfill leachate. Waste Management, 2010, 30, 100-109. | 7.4 | 42 |
| 129 | Describing biomass pyrolysis kinetics using a generic hybrid intelligent model: A critical stage in sustainable waste-oriented biorefineries. Renewable Energy, 2021, 170, 81-91. | 8.9 | 42 |
| 130 | Polyhydroxyalkanoate production from anaerobically treated palm oil mill effluent by new bacterial strain Comamonas sp. EB172. World Journal of Microbiology and Biotechnology, 2010, 26, 767-774. | 3.6 | 41 |
| 131 | Computational design and synthesis of molecular imprinted polymers for selective extraction of allopurinol from human plasma. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2012, 898, 24-31. | 2.3 | 41 |
| 132 | Pistachio (Pistachia vera) wastes valorization: Enhancement of biodiesel oxidation stability using hull extracts of different varieties. Journal of Cleaner Production, 2018, 185, 852-859. | 9.3 | 41 |
| 133 | Safflower-based biorefinery producing a broad spectrum of biofuels and biochemicals: A life cycle assessment perspective. Science of the Total Environment, 2022, 802, 149842. | 8.0 | 40 |
| 134 | Biofuel supply chain management in the circular economy transition: An inclusive knowledge map of the field. Chemosphere, 2022, 296, 133968. | 8.2 | 40 |
| 135 | Genetic manipulation, a feasible tool to enhance unique characteristic of Chlorella vulgaris as a feedstock for biodiesel production. Molecular Biology Reports, 2013, 40, 4421-4428. | 2.3 | 39 |
| 136 | Exergy-based optimization of a continuous reactor applied to produce value-added chemicals from glycerol through esterification with acetic acid. Energy, 2018, 150, 351-362. | 8.8 | 39 |
| 137 | Potential of Acid-Activated Bentonite and SO3H-Functionalized MWCNTs for Biodiesel Production From Residual Olive Oil Under Biorefinery Scheme. Frontiers in Energy Research, 2018, 6, . | 2.3 | 39 |
| 138 | Effects of waste-derived ethylene glycol diacetate as a novel oxygenated additive on performance and emission characteristics of a diesel engine fueled with diesel/biodiesel blends. Energy Conversion and Management, 2020, 203, 112245. | 9.2 | 39 |
| 139 | Emissions from urban bus fleets running on biodiesel blends under real-world operating conditions: Implications for designing future case studies. Renewable and Sustainable Energy Reviews, 2019, 111, 276-292. | 16.4 | 38 |
| 140 | Enhanced power generation and desalination rate in a novel quadruple microbial desalination cell with a single desalination chamber. Renewable and Sustainable Energy Reviews, 2020, 127, 109855. | 16.4 | 38 |
| 141 | Expanded polystyrene waste application for improving biodiesel environmental performance parameters from lifeÂcycle assessment point of view. Renewable and Sustainable Energy Reviews, 2017, 74, 278-298. | 16.4 | 37 |
| 142 | Biomass higher heating value (HHV) modeling on the basis of proximate analysis using iterative network-based fuzzy partial least squares coupled with principle component analysis (PCA-INFPLS). Fuel, 2018, 222, 1-10. | 6.4 | 37 |
| 143 | Modeling of a dual fueled diesel engine operated by a novel fuel containing glycerol triacetate additive and biodiesel using artificial neural network tuned by genetic algorithm to reduce engine emissions. Energy, 2019, 168, 1128-1137. | 8.8 | 37 |
| 144 | Unlocking the potential of walnut husk extract in the production of waste cooking oil-based biodiesel. Renewable and Sustainable Energy Reviews, 2020, 119, 109588. | 16.4 | 37 |

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| 145 | Exergy analysis of biohydrogen production from various carbon sources via anaerobic photosynthetic bacteria ( Rhodospirillum rubrum ). Energy, 2015, 93, 730-739. | 8.8 | 36 |
| 146 | Towards upscaling microbial desalination cell technology: A comprehensive review on current challenges and future prospects. Journal of Cleaner Production, 2021, 288, 125597. | 9.3 | 36 |
| 147 | Exergetic, economic, and environmental life cycle assessment analyses of a heavy-duty tractor diesel engine fueled with dieselâ€“biodiesel-bioethanol blends. Energy Conversion and Management, 2021, 241, 114300. | 9.2 | 36 |
| 148 | Exergy analysis of a whole-crop safflower biorefinery: A step towards reducing agricultural wastes in a sustainable manner. Journal of Environmental Management, 2021, 279, 111822. | 7.8 | 35 |
| 149 | Improvement of the cold flow characteristics of biodiesel containing dissolved polymer wastes using acetone. Biofuel Research Journal, 2014, 01, 26-29. | 13.3 | 35 |
| 150 | Development of sandwich-form biosensor to detect Mycobacterium tuberculosis complex in clinical sputum specimens. Brazilian Journal of Infectious Diseases, 2014, 18, 600-608. | 0.6 | 34 |
| 151 | Exergy-based sustainability assessment of ethanol production via Mucor indicus from fructose, glucose, sucrose, and molasses. Energy, 2016, 98, 240-252. | 8.8 | 34 |
| 152 | On the exergetic optimization of solketalacetin synthesis as a green fuel additive through ketalization of glycerol-derived monoacetin with acetone. Renewable Energy, 2018, 126, 242-253. | 8.9 | 34 |
| 153 | Attributional and consequential environmental assessment of using waste cooking oil- and poultry fat-based biodiesel blends in urban buses: a real-world operation condition study. Biofuel Research Journal, 2017, 4, 638-653. | 13.3 | 34 |
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