

Mustafa Kaya

List of Publications by Year in descending order

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34
papers

1,009
citations

430874

18
h-index

454955

30
g-index

34
all docs

34
docs citations

34
times ranked

672
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | A critical review of pretreatment technologies to enhance anaerobic digestion and energy recovery. Fuel, 2020, 270, 117494. | 6.4 | 216 |
| 2 | Plasma-surface modification on bentonite clay to improve the performance of adsorption of methylene blue. Applied Clay Science, 2015, 116-117, 46-53. | 5.2 | 89 |
| 3 | Chlorella vulgaris microalgae strain modified with zinc chloride as a new support material for hydrogen production from NaBH ₄ methanolysis using CuB, NiB, and FeB metal catalysts. International Journal of Hydrogen Energy, 2020, 45, 1959-1968. | 7.1 | 61 |
| 4 | Evaluating organic waste sources (spent coffee ground) as metal-free catalyst for hydrogen generation by the methanolysis of sodium borohydride. International Journal of Hydrogen Energy, 2020, 45, 12743-12754. | 7.1 | 54 |
| 5 | Highly efficient Co-B catalysts with Chlorella Vulgaris microalgal strain modified using hydrochloric acid as a new support material for hydrogen production from methanolysis of sodium borohydride. International Journal of Hydrogen Energy, 2019, 44, 7262-7275. | 7.1 | 42 |
| 6 | Spirulina microalgal strain as efficient a metal-free catalyst to generate hydrogen via methanolysis of sodium borohydride. International Journal of Energy Research, 2020, 44, 402-410. | 4.5 | 42 |
| 7 | Anaerobic co-digestion of oil-extracted spent coffee grounds with various wastes: Experimental and kinetic modeling studies. Bioresource Technology, 2021, 322, 124470. | 9.6 | 42 |
| 8 | Production of metal-free catalyst from defatted spent coffee ground for hydrogen generation by sodium borohydride methanolysis. International Journal of Hydrogen Energy, 2020, 45, 12731-12742. | 7.1 | 41 |
| 9 | Ruthenium modified defatted spent coffee catalysts for supercapacitor and methanolysis application. Energy Storage, 2021, 3, e243. | 4.3 | 39 |
| 10 | Spirulina Platensis microalgae strain modified with phosphoric acid as a novel support material for Co-B catalysts: Its application to hydrogen production. International Journal of Hydrogen Energy, 2020, 45, 2872-2883. | 7.1 | 36 |
| 11 | The effects of plasma treatment on electrochemical activity of Co-B-P catalyst for hydrogen production by hydrolysis of NaBH ₄ . Journal of the Energy Institute, 2017, 90, 466-475. | 5.3 | 32 |
| 12 | A novel Microcystis aeruginosa supported manganese catalyst for hydrogen generation through methanolysis of sodium borohydride. International Journal of Hydrogen Energy, 2020, 45, 12755-12765. | 7.1 | 31 |
| 13 | A Novel Tea factory waste metal-free catalyst as promising supercapacitor electrode for hydrogen production and energy storage: A dual functional material. Fuel, 2021, 305, 121578. | 6.4 | 29 |
| 14 | The Effect of Microwave Irradiation on a Co-B-based Catalyst for Hydrogen Generation by Hydrolysis of NaBH ₄ Solution. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2015, 37, 462-467. | 2.3 | 24 |
| 15 | Microcystis aeruginosa supported-Mn catalyst as a new promising supercapacitor electrode: A dual functional material. International Journal of Hydrogen Energy, 2021, 46, 21534-21541. | 7.1 | 23 |
| 16 | A dual functional material: Spirulina Platensis waste-supported Pd-Co catalyst as a novel promising supercapacitor electrode. Fuel, 2021, 304, 121334. | 6.4 | 23 |
| 17 | NiB loaded acetic acid treated microalgae strain (<i>Spirulina Platensis</i>) to use as a catalyst for hydrogen generation from sodium borohydride methanolysis. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2019, 41, 2549-2560. | 2.3 | 22 |
| 18 | Highly efficient CoB catalyst using a support material based on Spirulina microalgal strain treated with ZnCl ₂ for hydrogen generation via sodium borohydride methanolysis. International Journal of Energy Research, 2019, 43, 4243-4252. | 4.5 | 22 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Carbon molecular sieve production from defatted spent coffee ground using ZnCl ₂ and benzene for gas purification. <i>Fuel</i> , 2020, 277, 118183. | 6.4 | 20 |
| 20 | Plasma Treated Sepiolite: A New Adsorbent for Removal of Malachite Green from Contaminated Water. <i>Plasma Chemistry and Plasma Processing</i> , 2016, 36, 1417-1430. | 2.4 | 18 |
| 21 | Effects of different temperatures and additives on the metastable zone width precipitation kinetics of NaBO ₂ . <i>Russian Journal of Physical Chemistry A</i> , 2014, 88, 402-408. | 0.6 | 17 |
| 22 | Production of dual functional carbon material from biomass treated with NaOH for supercapacitor and catalyst. <i>Energy Storage</i> , 2021, 3, e257. | 4.3 | 16 |
| 23 | Investigation of dual-functionalized novel carbon supported Sn material from corn stalk for energy storage and fuel cell systems on distributed generations. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 18123-18137. | 2.2 | 14 |
| 24 | Preparation and TG/DTG, FT-IR, SEM, BET Surface Area, Iodine Number and Methylene Blue Number Analysis of Activated Carbon from Pistachio Shells by Chemical Activation. <i>International Journal of Chemical Reactor Engineering</i> , 2018, 16, . | 1.1 | 9 |
| 25 | A double-functional carbon material as a supercapacitor electrode and hydrogen production: Cu-doped tea factory waste catalyst. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 28909-28918. | 2.2 | 9 |
| 26 | Preparation and Characterization of Small Pore Carbon Molecular Sieves by Chemical Vapor Deposition of Pistachio Shells. <i>Analytical Letters</i> , 2018, 51, 2429-2440. | 1.8 | 8 |
| 27 | Defatted spent coffee grounds-supported cobalt catalyst as a promising supercapacitor electrode for hydrogen production and energy storage. <i>Clean Technologies and Environmental Policy</i> , 0, , 1. | 4.1 | 6 |
| 28 | Tar±msal At±ktan Elde Edilen Aktif Karbon Destekli Co-B Kataliz±r¼ Varl±Ä±nda Sodyum Borhidr¼n Metanolizi. T¼rkiye Tar±msal Ara±t±rmalar Dergisi, 0, , . | 0.8 | 6 |
| 29 | Synthesis of a dual±functionalized carbon±based material as catalyst and supercapacitor for efficient hydrogen production and energy storage: Pd±supported pomegranate peel. <i>Energy Storage</i> , 0, , e284. | 4.3 | 5 |
| 30 | The dual functionality of Zn@BP catalyst: methanolysis and supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 13484-13492. | 2.2 | 5 |
| 31 | Hydrogen production from sodium borohydride for fuel cells in presence of electrical field. <i>International Journal of Energy Research</i> , 2009, 34, n/a-n/a. | 4.5 | 3 |
| 32 | Evaluation of Tea Factory Wastes in Energy and Other Areas - A Review. <i>Health Sciences Quarterly</i> , 2021, 1, . | 0.1 | 3 |
| 33 | Novel approach to study dispersion in growth and dissolution rate of crystals from solutions. <i>Journal of Crystal Growth</i> , 2019, 509, 17-22. | 1.5 | 2 |
| 34 | Mo-katk±l± Mikroalg Kullan±larak Enerji Depolama Ama±l± S¼perkapasit±r Ä±retimi. <i>European Journal of Science and Technology</i> , 0, , . | 0.5 | 0 |