

# Rahul R Bhosale

## List of Publications by Citations

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116  
papers

2,233  
citations

30  
h-index

43  
g-index

121  
ext. papers

2,756  
ext. citations

6.1  
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L-index

| #   | Paper                                                                                                                                                                                                                                                                                                             | IF   | Citations |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 116 | Heavy metal ions removal from industrial wastewater using magnetic nanoparticles (MNP). <i>Applied Surface Science</i> , <b>2020</b> , 506, 144924                                                                                                                                                                | 6.7  | 94        |
| 115 | Thermodynamic analysis of solar driven SnO <sub>2</sub> /SnO based thermochemical water splitting cycle. <i>Energy Conversion and Management</i> , <b>2017</b> , 135, 226-235                                                                                                                                     | 10.6 | 82        |
| 114 | Thermochemical water-splitting for H <sub>2</sub> generation using sol-gel derived Mn-ferrite in a packed bed reactor. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 2924-2934                                                                                                              | 6.7  | 82        |
| 113 | Combustion synthesis of bifunctional LaMO <sub>3</sub> (M = Cr, Mn, Fe, Co, Ni) perovskites for oxygen reduction and oxygen evolution reaction in alkaline media. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 809, 22-30                                                                        | 4.1  | 76        |
| 112 | A decade of ceria based solar thermochemical H <sub>2</sub> O/CO <sub>2</sub> splitting cycle. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 34-60                                                                                                                                          | 6.7  | 76        |
| 111 | Impact of CO concentration and ambient conditions on microalgal growth and nutrient removal from wastewater by a photobioreactor. <i>Science of the Total Environment</i> , <b>2019</b> , 662, 662-671                                                                                                            | 10.2 | 72        |
| 110 | Solar hydrogen production via thermochemical iron oxide/iron sulfate water splitting cycle. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 1639-1650                                                                                                                                         | 6.7  | 70        |
| 109 | Review on sustainable production of biochar through hydrothermal liquefaction: Physico-chemical properties and applications. <i>Bioresource Technology</i> , <b>2020</b> , 310, 123414                                                                                                                            | 11   | 56        |
| 108 | Removal of emerging pharmaceuticals from wastewater by ozone-based advanced oxidation processes. <i>Environmental Progress and Sustainable Energy</i> , <b>2016</b> , 35, 982-995                                                                                                                                 | 2.5  | 55        |
| 107 | Solar Hydrogen Production via a Samarium Oxide-Based Thermochemical Water Splitting Cycle. <i>Energies</i> , <b>2016</b> , 9, 316                                                                                                                                                                                 | 3.1  | 52        |
| 106 | Cellulose assisted combustion synthesis of porous CuNi nanopowders. <i>RSC Advances</i> , <b>2015</b> , 5, 28703-28712                                                                                                                                                                                            | 3.1  | 51        |
| 105 | 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        |
| 104 | Solar thermochemical ZnO/ZnSO <sub>4</sub> water splitting cycle for hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 23474-23483                                                                                                                                         | 6.7  | 49        |
| 103 | Assessment of Ce Zr Hf O <sub>2</sub> based oxides as potential solar thermochemical CO <sub>2</sub> splitting materials. <i>Ceramics International</i> , <b>2016</b> , 42, 9354-9362                                                                                                                             | 5.1  | 47        |
| 102 | A comparative thermodynamic analysis of samarium and erbium oxide based solar thermochemical water splitting cycles. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 23416-23426                                                                                                              | 6.7  | 47        |
| 101 | Intergraded wastewater treatment and carbon bio-fixation from flue gases using <i>Spirulina platensis</i> and mixed algal culture. <i>Chemical Engineering Research and Design</i> , <b>2019</b> , 124, 240-250                                                                                                   | 5.5  | 46        |
| 100 | Thermodynamic efficiency analysis of zinc oxide based solar driven thermochemical H <sub>2</sub> O splitting cycle: Effect of partial pressure of O <sub>2</sub> , thermal reduction and H <sub>2</sub> O splitting temperatures. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 14915-14924 | 6.7  | 43        |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 99 | Solar hydrogen production via erbium oxide based thermochemical water splitting cycle. <i>Journal of Renewable and Sustainable Energy</i> , <b>2016</b> , 8, 034702                                              | 2.5  | 42 |
| 98 | Study of ethanol dehydrogenation reaction mechanism for hydrogen production on combustion synthesized cobalt catalyst. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 23464-23473           | 6.7  | 41 |
| 97 | In situ DRIFTS Studies on Cu, Ni and CuNi catalysts for Ethanol Decomposition Reaction. <i>Catalysis Letters</i> , <b>2016</b> , 146, 778-787                                                                    | 2.8  | 40 |
| 96 | Bio-carrier and operating temperature effect on ammonia removal from secondary wastewater effluents using moving bed biofilm reactor (MBBR). <i>Science of the Total Environment</i> , <b>2019</b> , 693, 133425 | 10.2 | 40 |
| 95 | Solar Thermochemical Hydrogen Production via Terbium Oxide Based Redox Reactions. <i>International Journal of Photoenergy</i> , <b>2016</b> , 2016, 1-9                                                          | 2.1  | 40 |
| 94 | Effectiveness of Ni incorporation in iron oxide crystal structure towards thermochemical CO <sub>2</sub> splitting reaction. <i>Ceramics International</i> , <b>2017</b> , 43, 5150-5155                         | 5.1  | 39 |
| 93 | Sol-gel derived CeO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> nanoparticles: Synthesis, characterization and solar thermochemical application. <i>Ceramics International</i> , <b>2016</b> , 42, 6728-6737    | 5.1  | 37 |
| 92 | Cobalt oxide nanopowder synthesis using cellulose assisted combustion technique. <i>Ceramics International</i> , <b>2016</b> , 42, 12771-12777                                                                   | 5.1  | 37 |
| 91 | Electrochemical oxidation of ammonia on nickel oxide nanoparticles. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 10398-10408                                                              | 6.7  | 35 |
| 90 | 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 |
| 89 | Enhancing the production of biogas through anaerobic co-digestion of agricultural waste and chemical pre-treatments. <i>Chemosphere</i> , <b>2020</b> , 255, 126805                                              | 8.4  | 33 |
| 88 | Industrial wastewater to biohydrogen: Possibilities towards successful biorefinery route. <i>Bioresource Technology</i> , <b>2020</b> , 298, 122378                                                              | 11   | 33 |
| 87 | H <sub>2</sub> generation from two-step thermochemical water-splitting reaction using sol-gel derived SnxFeyOz. <i>Journal of Renewable and Sustainable Energy</i> , <b>2011</b> , 3, 063104                     | 2.5  | 30 |
| 86 | Solar co-production of samarium and syngas via methanothermal reduction of samarium sesquioxide. <i>Energy Conversion and Management</i> , <b>2016</b> , 112, 413-422                                            | 10.6 | 28 |
| 85 | Propylene oxide assisted sol-gel synthesis of zinc ferrite nanoparticles for solar fuel production. <i>Ceramics International</i> , <b>2016</b> , 42, 2431-2438                                                  | 5.1  | 28 |
| 84 | Potential use of solar photocatalytic oxidation in removing emerging pharmaceuticals from wastewater: A pilot plant study. <i>Solar Energy</i> , <b>2018</b> , 172, 128-140                                      | 6.8  | 28 |
| 83 | CO <sub>2</sub> Capture Using Aqueous Potassium Carbonate Promoted by Ethylaminoethanol: A Kinetic Study. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 5238-5246                   | 3.9  | 28 |
| 82 | 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 |

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| 81 | Kinetics of Absorption of Carbon Dioxide in Aqueous Solution of Ethylaminoethanol Modified with N-methyl-2-pyrrolidone. <i>Separation Science and Technology</i> , <b>2013</b> , 48, 2324-2337                                                                            | 2.5  | 27 |
| 80 | Sol-Gel Derived NiFe <sub>2</sub> O <sub>4</sub> Modified with ZrO <sub>2</sub> for Hydrogen Generation from Solar Thermochemical Water-Splitting Reaction. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1387, 1                                |      | 27 |
| 79 | Influence of fuel ratio on the performance of combustion synthesized bifunctional cobalt oxide catalysts for fuel cell application. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 436-445                                                           | 6.7  | 27 |
| 78 | Influence of draw solution type and properties on the performance of forward osmosis process: Energy consumption and sustainable water reuse. <i>Chemosphere</i> , <b>2019</b> , 233, 234-244                                                                             | 8.4  | 23 |
| 77 | Combustion synthesized A <sub>0.5</sub> Sr <sub>0.5</sub> MnO <sub>3</sub> -perovskites (where, A = La, Nd, Sm, Gd, Tb, Pr, Dy, and Y) as redox materials for thermochemical splitting of CO <sub>2</sub> . <i>Applied Surface Science</i> , <b>2019</b> , 489, 80-91     | 6.7  | 21 |
| 76 | Photocatalytic conversion of CO <sub>2</sub> and H <sub>2</sub> O to useful fuels by nanostructured composite catalysis. <i>Applied Surface Science</i> , <b>2019</b> , 483, 363-372                                                                                      | 6.7  | 21 |
| 75 | Bio-sorption of toxic metals from industrial wastewater by algae strains <i>Spirulina platensis</i> and <i>Chlorella vulgaris</i> : Application of isotherm, kinetic models and process optimization. <i>Science of the Total Environment</i> , <b>2021</b> , 755, 142654 | 10.2 | 21 |
| 74 | Harvesting of intact microalgae in single and sequential conditioning steps by chemical and biological based - flocculants: Effect on harvesting efficiency, water recovery and algal cell morphology. <i>Bioresource Technology</i> , <b>2019</b> , 281, 250-259         | 11   | 20 |
| 73 | La-Based Perovskites as Oxygen-Exchange Redox Materials for Solar Syngas Production. <i>MRS Advances</i> , <b>2017</b> , 2, 3365-3370                                                                                                                                     | 0.7  | 19 |
| 72 | Kinetics of thermal degradation of renewably prepared amines useful for flue gas treatment. <i>Journal of Renewable and Sustainable Energy</i> , <b>2013</b> , 5, 063110                                                                                                  | 2.5  | 19 |
| 71 | 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 |
| 70 | Solar thermocatalytic conversion of CO <sub>2</sub> using Pr <sub>x</sub> Sr <sub>(1-x)</sub> MnO <sub>3</sub> perovskites. <i>Fuel</i> , <b>2019</b> , 254, 115624                                                                                                       | 7.1  | 18 |
| 69 | Sol-Gel Synthesis of Nanocrystalline Ni-Ferrite and Co-Ferrite Redox Materials for Thermochemical Production of Solar Fuels. <i>Materials Research Society Symposia Proceedings</i> , <b>2014</b> , 1675, 203-208                                                         |      | 18 |
| 68 | Thermodynamic analysis of EMISE-Water as a working pair for absorption refrigeration system. <i>Applied Thermal Engineering</i> , <b>2019</b> , 148, 787-795                                                                                                              | 5.8  | 18 |
| 67 | Thermodynamic analysis of Ni-ferrite based solar thermochemical H <sub>2</sub> O splitting cycle for H <sub>2</sub> production. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 61-71                                                                 | 6.7  | 16 |
| 66 | Thermocatalytic splitting of CO <sub>2</sub> using sol-gel synthesized Co-ferrite redox materials. <i>Fuel</i> , <b>2019</b> , 257, 115965                                                                                                                                | 7.1  | 13 |
| 65 | 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 |
| 64 | Thermodynamic investigation of hydrogen enrichment and carbon suppression using chemical additives in ethanol dry reforming. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 15149-15157                                                              | 6.7  | 12 |

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| 63 | Solar oxidation of toluene over Co doped nano-catalyst. <i>Chemosphere</i> , <b>2020</b> , 255, 126878                                                                                                                                                   | 8.4  | 11 |
| 62 | Mineralization of dichloromethane using solar-oxidation and activated TiO <sub>2</sub> : Pilot scale study. <i>Solar Energy</i> , <b>2018</b> , 172, 116-127                                                                                             | 6.8  | 11 |
| 61 | Advanced wastewater treatment using microalgae: effect of temperature on removal of nutrients and organic carbon. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2017</b> , 67, 012032                                               | 0.3  | 10 |
| 60 | Treatment of waste gas contaminated with dichloromethane using photocatalytic oxidation, biodegradation and their combinations. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 405, 123735                                                        | 12.8 | 10 |
| 59 | Sol-gel synthesized Ni <sub>x</sub> Fe <sub>3-x</sub> O <sub>4</sub> for thermochemical conversion of CO <sub>2</sub> . <i>Applied Surface Science</i> , <b>2019</b> , 489, 693-700                                                                      | 6.7  | 9  |
| 58 | Solar hydrogen production via thermochemical magnesium oxide [Magnesium sulfate water splitting cycle. <i>Fuel</i> , <b>2020</b> , 275, 117892                                                                                                           | 7.1  | 9  |
| 57 | Nitrogen-fixing cyanobacteria as a potential resource for efficient biodiesel production. <i>Fuel</i> , <b>2020</b> , 279, 118440                                                                                                                        | 7.1  | 9  |
| 56 | Application of cobalt incorporated Iron oxide catalytic nanoparticles for thermochemical conversion of CO <sub>2</sub> . <i>Applied Surface Science</i> , <b>2019</b> , 495, 143508                                                                      | 6.7  | 9  |
| 55 | A novel three-step GeO <sub>2</sub> /GeO thermochemical water splitting cycle for solar hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 5816-5828                                                               | 6.7  | 9  |
| 54 | Thermochemical splitting of CO <sub>2</sub> using Co-precipitation synthesized Ce <sub>0.75</sub> Zr <sub>0.2</sub> M <sub>0.05</sub> O <sub>2-<math>\delta</math></sub> (M = Cr, Mn, Fe, CO, Ni, Zn) materials. <i>Fuel</i> , <b>2019</b> , 256, 115834 | 7.1  | 8  |
| 53 | Synthesis and characterization of nanocrystalline CoFe <sub>2</sub> O <sub>4</sub> -zirconia via propylene oxide aided sol-gel method. <i>Ceramics International</i> , <b>2018</b> , 44, 8679-8683                                                       | 5.1  | 7  |
| 52 | Thermochemical H <sub>2</sub> production via solar driven hybrid SrO/SrSO <sub>4</sub> water splitting cycle. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 118-127                                                                | 6.7  | 7  |
| 51 | Thermodynamic efficiency analysis of ZnO/Zn based solar thermochemical CH <sub>4</sub> reforming and H <sub>2</sub> O splitting cycle. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 5760-5771                                     | 6.7  | 7  |
| 50 | Hydrogen production via solar driven thermochemical cerium oxide [Cerium sulfate water splitting cycle. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 10381-10390                                                                  | 6.7  | 7  |
| 49 | Application of Li-, Mg-, Ba-, Sr-, Ca-, and Sn-doped ceria for solar-driven thermochemical conversion of carbon dioxide. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 11797-11807                                                             | 4.3  | 6  |
| 48 | Thermochemical CO <sub>2</sub> splitting using a sol-gel synthesized Mg-ferrite based redox system. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 6983                                                                             | 4.5  | 6  |
| 47 | Concentrated solar power driven water splitting cycle using Zn-ferrite based thermochemical redox reactions. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 10342-10352                                                             | 6.7  | 6  |
| 46 | Thermodynamic analysis of solar-driven chemical looping steam methane reforming over Cr <sub>2</sub> O <sub>3</sub> /Cr redox pair. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 10370-10380                                      | 6.7  | 6  |

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| 45 | Solar photo-catalytic production of hydrogen by irradiation of cobalt co-doped TiO <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 12068-12081                                                                                 | 6.7 | 5 |
| 44 | Mathematical modeling, simulation and optimization of solar thermal powered Encontech engine for desalination. <i>Solar Energy</i> , <b>2018</b> , 172, 104-115                                                                                                   | 6.8 | 4 |
| 43 | Solar hydrogen production via ZnO/Zn based thermochemical water splitting cycle: Effect of partial reduction of ZnO. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 4739-4748                                                                | 6.7 | 4 |
| 42 | Thermochemical splitting of CO <sub>2</sub> using solution combustion synthesized lanthanum-strontium-manganese perovskites. <i>Fuel</i> , <b>2021</b> , 285, 119154                                                                                              | 7.1 | 4 |
| 41 | Investigation of Zr-doped ceria for solar thermochemical valorization of CO <sub>2</sub> . <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 12284-12294                                                                                        | 4.5 | 3 |
| 40 | Terbium oxide-based solar thermochemical CO <sub>2</sub> splitting cycle: A thermodynamic investigation <b>2020</b> , 10, 703-714                                                                                                                                 |     | 3 |
| 39 | Ni incorporation in MgFe <sub>2</sub> O <sub>4</sub> for improved CO <sub>2</sub> -splitting activity during solar fuel production. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 11086-11094                                                           | 4.3 | 3 |
| 38 | Co-precipitation synthesized nanostructured Ce <sub>0.9</sub> Ln <sub>0.05</sub> Ag <sub>0.05</sub> O <sub>2</sub> materials for solar thermochemical conversion of CO <sub>2</sub> into fuels. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 9748-9761 | 4.3 | 3 |
| 37 | Thermodynamic exergy analysis of dysprosium oxide-based solar thermochemical water-splitting cycle. <i>International Journal of Exergy</i> , <b>2017</b> , 23, 226                                                                                                | 1.2 | 3 |
| 36 | CO <sub>2</sub> Capture Using an Aqueous Formulated Solvent Containing Ethylaminoethanol, N-Methyl-2-Pyrrolidone, and Hydroxyl Radical Scavengers: Study of Solvent Degradation and Absorption Kinetics <b>2015</b> , 11-19                                       |     | 3 |
| 35 | Nickel/Cobalt nanoparticles for electrochemical production of hydrogen. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 11369-11377                                                                                                           | 6.7 | 3 |
| 34 | Kinetics of reactive absorption of CO <sub>2</sub> using aqueous blend of potassium carbonate, ethylaminoethanol, and N-methyl-2-Pyrrolidone (APCEN solvent). <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2018</b> , 89, 191-197            | 5.3 | 3 |
| 33 | Evaluation of redox performance of silver and transition metal-doped ternary ceria oxides for thermochemical splitting of CO <sub>2</sub> . <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 3616-3627                                         | 4.5 | 2 |
| 32 | Application of chromium oxide-based redox reactions for hydrogen production via solar thermochemical splitting of water. <i>Fuel</i> , <b>2020</b> , 277, 118160                                                                                                  | 7.1 | 2 |
| 31 | Solar thermochemical conversion of CO <sub>2</sub> via erbium oxide based redox cycle <b>2020</b> , 10, 865-874                                                                                                                                                   |     | 2 |
| 30 | Solar driven two-step CH <sub>4</sub> reforming and H <sub>2</sub> O splitting using Al <sub>2</sub> O <sub>3</sub> for Co-production of Al, syngas, and H <sub>2</sub> . <i>Solar Energy</i> , <b>2018</b> , 172, 232-241                                        | 6.8 | 2 |
| 29 | Thermochemical splitting of CO <sub>2</sub> using solution combustion synthesized LaMO <sub>3</sub> (where, M = Co, Fe, Mn, Ni, Al, Cr, Sr). <i>Applied Surface Science</i> , <b>2020</b> , 509, 144908                                                           | 6.7 | 2 |
| 28 | Solar thermochemical H <sub>2</sub> production via MnSO <sub>4</sub> /MnO water splitting cycle: Thermodynamic equilibrium and efficiency analysis. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 10324-10333                               | 6.7 | 2 |

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| 27 | Mn-ferrite based solar thermochemical water splitting cycle: A thermodynamic evaluation. <i>Fuel</i> , <b>2019</b> , 256, 115847                                                                                                                                        | 7.1  | 1 |
| 26 | Thermochemical Conversion of CO <sub>2</sub> into Solar Fuels Using Ferrite Nanomaterials <b>2015</b> , 141-148                                                                                                                                                         |      | 1 |
| 25 | Thermodynamic Analysis of Solar Fuel Production via Thermochemical H <sub>2</sub> O and/or CO <sub>2</sub> Splitting Using Tin Oxide Based Redox Reactions <b>2015</b> , 39-48                                                                                          |      | 1 |
| 24 | Delivery of Immunomodulatory Microparticles in a Murine Model of Rotator Cuff Tear. <i>MRS Advances</i> , <b>2018</b> , 3, 1341-1346                                                                                                                                    | 0.7  | 1 |
| 23 | Solar Fuel Production via Non-Stoichiometric CexZryHfzO2-Based Two-Step Thermochemical Redox Cycle <b>2015</b> , 117-124                                                                                                                                                |      | 1 |
| 22 | Evacuated tube heat pipe solar collector for Encontech engine-driven reverse osmosis solar desalination. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 12460-12473                                                                                | 4.5  | 1 |
| 21 | Experimental measurements and modelling of viscosity and density of calcium and potassium chlorides ternary solutions. <i>Scientific Reports</i> , <b>2020</b> , 10, 16312                                                                                              | 4.9  | 1 |
| 20 | Energetic and exergetic performance of NH <sub>3</sub> -H <sub>2</sub> O-based absorption refrigeration cycle: effect of operating factor. <i>International Journal of Exergy</i> , <b>2020</b> , 31, 352                                                               | 1.2  | 1 |
| 19 | Solar driven CdSO <sub>4</sub> /CdO thermochemical water splitting cycle for hydrogen generation. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 5829-5839                                                                                         | 6.7  | 1 |
| 18 | Hydrogen production via thermochemical H <sub>2</sub> O splitting using CaSO <sub>4</sub> /CaO redox reactions. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 3444-3456                                                                           | 6.7  | 1 |
| 17 | Solar assisted methanothermal reduction of barium oxide for the co-production of barium and syngas. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 8168-8179                                                                                       | 4.5  | 1 |
| 16 | Application of Zn-ferrite towards thermochemical utilization of carbon dioxide: A thermodynamic investigation. <i>Energy Conversion and Management</i> , <b>2021</b> , 245, 114528                                                                                      | 10.6 | 1 |
| 15 | Experimental Investigation of Isothermal Vapor-Liquid Equilibrium and Estimation of Excess Thermodynamic Properties (hE) of CHO <sub>2</sub> KH <sub>2</sub> O from 278.15 to 423.15 K. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2019</b> , 64, 1488-1500 | 2.8  | 0 |
| 14 | Thermodynamic study of the effect of partial thermal reduction of dysprosium oxide on solar-to-fuel energy conversion efficiency. <i>Fuel</i> , <b>2020</b> , 278, 118249                                                                                               | 7.1  | 0 |
| 13 | Production of solar CO via two-step neodymium oxide based thermochemical CO <sub>2</sub> splitting cycle. <i>Fuel</i> , <b>2020</b> , 282, 118803                                                                                                                       | 7.1  | 0 |
| 12 | Estimation of solar-to-fuel energy conversion efficiency of a solar driven samarium oxide-based thermochemical CO <sub>2</sub> splitting cycle <b>2020</b> , 10, 725-735                                                                                                |      | 0 |
| 11 | H <sub>2</sub> generation via solar assisted CaO/Ca thermochemical H <sub>2</sub> O splitting cycle. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 12095-12104                                                                                    | 6.7  | 0 |
| 10 | Utilization of Niobium Pentoxide based redox reactions for solar hydrogen generation via thermochemical water splitting cycle. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 11242-11251                                                          | 6.7  | 0 |

- 9 Catalytic Reduction of CO<sub>2</sub> into Solar Fuels via Ferrite Based Thermochemical Redox Reactions. *MRS Advances*, **2017**, 2, 3389-3395 0.7
- 8 Guest editorial for the special issue energy research for better sustainability. *International Journal of Energy Research*, **2020**, 44, 12208-12208 4.5
- 7 Solar driven MgO/Mg based methane reforming and water splitting process: A thermodynamic inspection. *International Journal of Hydrogen Energy*, **2020**, 45, 10313-10323 6.7
- 6 Solar syngas production via methanothermal reduction of strontium oxide. *Fuel*, **2020**, 280, 118466 7.1
- 5 Solar thermochemical splitting of H<sub>2</sub>O using Ca-Ferrite based redox reactions: Effect of partial pressure of O<sub>2</sub>. *International Journal of Hydrogen Energy*, **2021**, 46, 11232-11241 6.7
- 4 Moderate Temperature Treatment of Gas-Phase Volatile Organic Toluene Using NiO and NiO/TiO<sub>2</sub> Nano-catalysts: Characterization and Kinetic Behaviors. *Waste and Biomass Valorization*, **2021**, 12, 3075-3089 3.2
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