

# Peter B Kreider

## List of Publications by Year in descending order

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36  
papers

833  
citations

516710

16  
h-index

501196

28  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1172  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | High-rate synthesis of Cu <sup>2+</sup> -BTC metal-organic frameworks. <i>Chemical Communications</i> , 2013, 49, 11518.  | 4.1  | 127       |
| 2  | Modelling of solar thermochemical reaction systems. <i>Solar Energy</i> , 2017, 156, 149-168.   | 6.1  | 52        |
| 3  | Visible-light-sensitive Na-doped p-type flower-like ZnO photocatalysts synthesized via a continuous flow microreactor. <i>RSC Advances</i> , 2013, 3, 12702.  | 3.6  | 47        |
| 4  | Electrospun Manganese-Based Perovskites as Efficient Oxygen Exchange Redox Materials for Improved Solar Thermochemical CO <sub>2</sub> Splitting. <i>ACS Applied Energy Materials</i> , 2019, 2, 2494-2505.   | 5.1  | 43        |
| 5  | Plasmonics-enhanced metal-organic framework nanoporous films for highly sensitive near-infrared absorption. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2763-2767.   | 5.5  | 41        |
| 6  | Earth-abundant transition metal oxides with extraordinary reversible oxygen exchange capacity for efficient thermochemical synthesis of solar fuels. <i>Nano Energy</i> , 2018, 50, 347-358.  | 16.0 | 40        |
| 7  | Gas-Solid Reactions: Theory, Experiments and Case Studies Relevant to Earth and Planetary Processes. <i>Reviews in Mineralogy and Geochemistry</i> , 2018, 84, 1-56.  | 4.8  | 39        |
| 8  | Visible-light-sensitive nanoscale Au-ZnO photocatalysts. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.   | 1.9  | 35        |
| 9  | Thermodynamic Analyses of Fuel Production via Solar-Driven Non-stoichiometric Metal Oxide Redox Cycling. Part 2. Impact of Solid-Gas Flow Configurations and Active Material Composition on System-Level Efficiency. <i>Energy &amp; Fuels</i> , 2018, 32, 10848-10863. | 5.1  | 35        |
| 10 | Manganese oxide based thermochemical hydrogen production cycle. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 7028-7037.  | 7.1  | 32        |
| 11 | Lattice Expansion in Optimally Doped Manganese Oxide: An Effective Structural Parameter for Enhanced Thermochemical Water Splitting. <i>ACS Catalysis</i> , 2019, 9, 9880-9890.   | 11.2 | 29        |
| 12 | Thermodynamic Analyses of Fuel Production via Solar-Driven Non-stoichiometric Metal Oxide Redox Cycling. Part 1. Revisiting Flow and Equilibrium Assumptions. <i>Energy &amp; Fuels</i> , 2018, 32, 10838-10847.  | 5.1  | 28        |
| 13 | Particle design and oxidation kinetics of iron-manganese oxide redox materials for thermochemical energy storage. <i>Solar Energy</i> , 2019, 183, 17-29.   | 6.1  | 28        |
| 14 | Reduction kinetics for large spherical 2:1 iron-manganese oxide redox materials for thermochemical energy storage. <i>Chemical Engineering Science</i> , 2019, 201, 74-81.  | 3.8  | 22        |
| 15 | Thermal Model of a Solar Thermochemical Reactor for Metal Oxide Reduction. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2020, 142, .  | 1.8  | 22        |
| 16 | Surface Modification of Graphite Particles Coated by Atomic Layer Deposition and Advances in Ceramic Composites. <i>International Journal of Applied Ceramic Technology</i> , 2013, 10, 257-265.  | 2.1  | 16        |
| 17 | Thermodynamic Analyses of Fuel Production Via Solar-Driven Ceria-Based Nonstoichiometric Redox Cycling: A Case Study of the Isothermal Membrane Reactor System. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2019, 141, .                     | 1.8  | 16        |
| 18 | A graphene film interlayer for enhanced electrical conductivity in a carbon-fibre/PEEK composite. <i>Functional Composite Materials</i> , 2021, 2, .  | 1.4  | 16        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Continuous synthesis of colloidal chalcopyrite copper indium diselenide nanocrystal inks. RSC Advances, 2014, 4, 16418-16424.   | 3.6 | 14        |
| 20 | Effective thermal conductivity of a bed packed with granular iron-manganese oxide for thermochemical energy storage. Chemical Engineering Science, 2019, 207, 490-494.                              | 3.8 | 14        |
| 21 | Analytical Techniques for Probing Small-Scale Layers that Preserve Information on Gas-Solid Interactions. Reviews in Mineralogy and Geochemistry, 2018, 84, 103-175.                                | 4.8 | 13        |
| 22 | The effect of a superhydrophobic coating on moisture absorption and tensile strength of 3D-printed carbon-fibre/polyamide. Composites Part A: Applied Science and Manufacturing, 2021, 145, 106380. | 7.6 | 13        |
| 23 | A novel brush feeder for the pneumatic delivery of dispersed small particles at steady feed rates. Powder Technology, 2012, 229, 45-50.   | 4.2 | 12        |
| 24 | Effect of non-stoichiometry on optical, radiative, and thermal characteristics of ceria undergoing reduction. Optics Express, 2018, 26, A360.   | 3.4 | 12        |
| 25 | Thermodynamic analysis of a combined-cycle solar thermal power plant with manganese oxide-based thermochemical energy storage. E3S Web of Conferences, 2017, 22, 00102.                             | 0.5 | 11        |
| 26 | High-Temperature Gas-Solid Reactions in Industrial Processes. Reviews in Mineralogy and Geochemistry, 2018, 84, 499-514.  | 4.8 | 11        |
| 27 | Thermochemical CO <sub>2</sub> splitting performance of perovskite coated porous ceramics. RSC Advances, 2020, 10, 23049-23057.   | 3.6 | 11        |
| 28 | An investigation of a fluidized bed solids feeder for an aerosol flow reactor. Powder Technology, 2010, 199, 70-76.   | 4.2 | 10        |
| 29 | Nucleation and growth of oriented metal-organic framework thin films on thermal SiO <sub>2</sub> surface. Thin Solid Films, 2018, 659, 24-35.   | 1.8 | 9         |
| 30 | Two-step continuous-flow synthesis of CuInSe <sub>2</sub> nanoparticles in a solar microreactor. RSC Advances, 2014, 4, 13827-13830.  | 3.6 | 7         |
| 31 | Experimental modeling of hydrogen producing steps in a novel sulfur-sulfur thermochemical water splitting cycle. International Journal of Hydrogen Energy, 2015, 40, 2484-2492.                     | 7.1 | 6         |
| 32 | Characterization of Cotton Ball-like Au/ZnO Photocatalyst Synthesized in a Micro-Reactor. Micromachines, 2018, 9, 322.  | 2.9 | 6         |
| 33 | Methane Coupling to Ethylene and Longer-Chain Hydrocarbons by Low-Energy Electrical Discharge in Microstructured Reactors. Industrial & Engineering Chemistry Research, 2021, 60, 6950-6958.        | 3.7 | 6         |
| 34 | Ca/Al doped lanthanum manganite perovskite coated porous SiC for CO <sub>2</sub> conversion. Materials Chemistry and Physics, 2020, 253, 123306.  | 4.0 | 5         |
| 35 | CO <sub>2</sub> Reduction by Multiple Low-Energy Electric Discharges in a Microstructured Reactor: Experiments and Modeling. Industrial & Engineering Chemistry Research, 0, , .                    | 3.7 | 4         |
| 36 | THERMAL MODELLING OF A SOLAR THERMOCHEMICAL REACTOR FOR METAL OXIDE REDUCTION. , 2018, , .  |     | 1         |