

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
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37
all docs

37
docs citations

37
times ranked

1172
citing authors

#	ARTICLE	IF	CITATIONS
1	A graphene film interlayer for enhanced electrical conductivity in a carbon-fibre/PEEK composite. <i>Functional Composite Materials</i> , 2021, 2, .	1.4	16
2	Methane Coupling to Ethylene and Longer-Chain Hydrocarbons by Low-Energy Electrical Discharge in Microstructured Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 6950-6958.	3.7	6
3	The effect of a superhydrophobic coating on moisture absorption and tensile strength of 3D-printed carbon-fibre/polyamide. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 145, 106380.	7.6	13
4	Ca/Al doped lanthanum manganite perovskite coated porous SiC for CO ₂ conversion. <i>Materials Chemistry and Physics</i> , 2020, 253, 123306.	4.0	5
5	Thermochemical CO ₂ splitting performance of perovskite coated porous ceramics. <i>RSC Advances</i> , 2020, 10, 23049-23057.	3.6	11
6	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
7	Effective thermal conductivity of a bed packed with granular iron-manganese oxide for thermochemical energy storage. <i>Chemical Engineering Science</i> , 2019, 207, 490-494.	3.8	14
8	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
9	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
10	Electrospun Manganese-Based Perovskites as Efficient Oxygen Exchange Redox Materials for Improved Solar Thermochemical CO ₂ Splitting. <i>ACS Applied Energy Materials</i> , 2019, 2, 2494-2505.	5.1	43
11	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
12	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
13	Analytical Techniques for Probing Small-Scale Layers that Preserve Information on Gas-Solid Interactions. <i>Reviews in Mineralogy and Geochemistry</i> , 2018, 84, 103-175.	4.8	13
14	High-Temperature Gas-Solid Reactions in Industrial Processes. <i>Reviews in Mineralogy and Geochemistry</i> , 2018, 84, 499-514.	4.8	11
15	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
16	Characterization of Cotton Ball-like Au/ZnO Photocatalyst Synthesized in a Micro-Reactor. <i>Micromachines</i> , 2018, 9, 322.	2.9	6
17	Thermodynamic Analyses of Fuel Production via Solar-Driven Non-stoichiometric Metal Oxide Redox Cycling. Part 1. Revisiting Flow and Equilibrium Assumptions. <i>Energy & Fuels</i> , 2018, 32, 10838-10847.	5.1	28
18	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 & Fuels</i> , 2018, 32, 10848-10863.	5.1	35

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19	Nucleation and growth of oriented metal-organic framework thin films on thermal SiO ₂ surface. <i>Thin Solid Films</i> , 2018, 659, 24-35.	1.8	9
20	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
21	Effect of non-stoichiometry on optical, radiative, and thermal characteristics of ceria undergoing reduction. <i>Optics Express</i> , 2018, 26, A360.	3.4	12
22	THERMAL MODELLING OF A SOLAR THERMOCHEMICAL REACTOR FOR METAL OXIDE REDUCTION. , 2018, , .		1
23	Modelling of solar thermochemical reaction systems. <i>Solar Energy</i> , 2017, 156, 149-168.	6.1	52
24	Thermodynamic analysis of a combined-cycle solar thermal power plant with manganese oxide-based thermochemical energy storage. <i>E3S Web of Conferences</i> , 2017, 22, 00102.	0.5	11
25	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
26	Experimental modeling of hydrogen producing steps in a novel sulfur-sulfur thermochemical water splitting cycle. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 2484-2492.	7.1	6
27	Two-step continuous-flow synthesis of CuInSe ₂ nanoparticles in a solar microreactor. <i>RSC Advances</i> , 2014, 4, 13827-13830.	3.6	7
28	Continuous synthesis of colloidal chalcopyrite copper indium diselenide nanocrystal inks. <i>RSC Advances</i> , 2014, 4, 16418-16424.	3.6	14
29	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
30	High-rate synthesis of Cu-BTC metal-organic frameworks. <i>Chemical Communications</i> , 2013, 49, 11518.	4.1	127
31	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
32	Visible-light-sensitive nanoscale Au-ZnO photocatalysts. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	35
33	A novel brush feeder for the pneumatic delivery of dispersed small particles at steady feed rates. <i>Powder Technology</i> , 2012, 229, 45-50.	4.2	12
34	Manganese oxide based thermochemical hydrogen production cycle. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 7028-7037.	7.1	32
35	An investigation of a fluidized bed solids feeder for an aerosol flow reactor. <i>Powder Technology</i> , 2010, 199, 70-76.	4.2	10
36	CO ₂ Reduction by Multiple Low-Energy Electric Discharges in a Microstructured Reactor: Experiments and Modeling. <i>Industrial & Engineering Chemistry Research</i> , 0, , .	3.7	4