

Felix Birkelbach

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

150
citations

1162367

8
h-index

1199166

12
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14
all docs

14
docs citations

14
times ranked

132
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced kinetic model identification for gas–solid reactions through Computational Fluid Dynamics. <i>Chemical Engineering Journal</i> , 2022, 430, 132850.	6.6	2
2	Toward a Practical Digital Twin Platform Tailored to the Requirements of Industrial Energy Systems. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6981.	1.3	9
3	Hydration of salts as a two-step process: Water adsorption and hydrate formation. <i>Thermochimica Acta</i> , 2021, 695, 178819.	1.2	24
4	Pressure Dependence of the Low Temperature Carbonation Kinetics of Calcium Oxide for Potential Thermochemical Energy Storage Purposes and Sustainable CO ₂ Fixation. <i>Advanced Sustainable Systems</i> , 2021, 5, 2100022.	2.7	5
5	Optimizing the utilization of excess heat for district heating in a chipboard production plant. <i>Case Studies in Thermal Engineering</i> , 2021, 25, 100900.	2.8	11
6	The multistep decomposition of boric acid. <i>Energy Science and Engineering</i> , 2020, 8, 1650-1666.	1.9	20
7	The effect of the reaction equilibrium on the kinetics of gas-solid reactions – A non-parametric modeling study. <i>Renewable Energy</i> , 2020, 152, 300-307.	4.3	11
8	Pressure Dependence of the Carbonation Kinetics of CaO Under H ₂ O Saturation. , 2020, , .		0
9	Comparison of a physical and a data-driven model of a Packed Bed Regenerator for industrial applications. <i>Journal of Energy Storage</i> , 2019, 23, 558-578.	3.9	8
10	Impact of Partial Pressure, Conversion, and Temperature on the Oxidation Reaction Kinetics of Cu ₂ O to CuO in Thermochemical Energy Storage. <i>Energies</i> , 2019, 12, 508.	1.6	22
11	NPK 2.0: Introducing tensor decompositions to the kinetic analysis of gas–solid reactions. <i>International Journal of Chemical Kinetics</i> , 2019, 51, 280-290.	1.0	6
12	Profitability Analysis and Capital Cost Estimation of a Thermochemical Energy Storage System Utilizing Fluidized Bed Reactors and the Reaction System MgO/Mg(OH) ₂ . <i>Energies</i> , 2019, 12, 4788.	1.6	12
13	A higher-order generalization of the NPK-method. <i>Thermochimica Acta</i> , 2018, 661, 27-33.	1.2	2
14	An extension of the NPK method to include the pressure dependency of solid state reactions. <i>Thermochimica Acta</i> , 2017, 654, 168-178.	1.2	18