

Felix Birkelbach

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

150
citations

1163117
8
h-index

1199594
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. Chemical Engineering Journal, 2022, 430, 132850.	12.7	2
2	Toward a Practical Digital Twin Platform Tailored to the Requirements of Industrial Energy Systems. Applied Sciences (Switzerland), 2022, 12, 6981.	2.5	9
3	Hydration of salts as a two-step process: Water adsorption and hydrate formation. Thermochimica Acta, 2021, 695, 178819.	2.7	24
4	Pressure Dependence of the Low Temperature Carbonation Kinetics of Calcium Oxide for Potential Thermochemical Energy Storage Purposes and Sustainable CO ₂ Fixation. Advanced Sustainable Systems, 2021, 5, 2100022.	5.3	5
5	Optimizing the utilization of excess heat for district heating in a chipboard production plant. Case Studies in Thermal Engineering, 2021, 25, 100900.	5.7	11
6	The multistep decomposition of boric acid. Energy Science and Engineering, 2020, 8, 1650-1666.	4.0	20
7	The effect of the reaction equilibrium on the kinetics of gas-solid reactions – A non-parametric modeling study. Renewable Energy, 2020, 152, 300-307.	8.9	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. Journal of Energy Storage, 2019, 23, 558-578.	8.1	8
10	Impact of Partial Pressure, Conversion, and Temperature on the Oxidation Reaction Kinetics of Cu ₂ O to CuO in Thermochemical Energy Storage. Energies, 2019, 12, 508.	3.1	22
11	NPK 2.0: Introducing tensor decompositions to the kinetic analysis of gas–solid reactions. International Journal of Chemical Kinetics, 2019, 51, 280-290.	1.6	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 . Energies, 2019, 12, 4788.	3.1	12
13	A higher-order generalization of the NPK-method. Thermochimica Acta, 2018, 661, 27-33.	2.7	2
14	An extension of the NPK method to include the pressure dependency of solid state reactions. Thermochimica Acta, 2017, 654, 168-178.	2.7	18