

Alexander Hansen Bork

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

870
citations

758635

12
h-index

1058022

14
g-index

15
all docs

15
docs citations

15
times ranked

1091
citing authors

#	ARTICLE	IF	CITATIONS
1	Perovskite oxides – a review on a versatile material class for solar-to-fuel conversion processes. Journal of Materials Chemistry A, 2017, 5, 11983-12000.	5.2	230
2	CO ₂ Capture at Medium to High Temperature Using Solid Oxide-Based Sorbents: Fundamental Aspects, Mechanistic Insights, and Recent Advances. Chemical Reviews, 2021, 121, 12681-12745.	23.0	177
3	Perovskite La _{0.6} Sr _{0.4} Cr _{1-x} Co _x O ₃ solid solutions for solar-thermochemical fuel production: strategies to lower the operation temperature. Journal of Materials Chemistry A, 2015, 3, 15546-15557.	5.2	112
4	The effect of mechanical twisting on oxygen ionic transport in solid-state energy conversion membranes. Nature Materials, 2015, 14, 721-727.	13.3	90
5	Modifying La _{0.6} Sr _{0.4} MnO ₃ Perovskites with Cr Incorporation for Fast Isothermal CO ₂ Splitting Kinetics in Solar-Driven Thermochemical Cycles. Advanced Energy Materials, 2019, 9, 1803886.	10.2	55
6	La _{0.6} Sr _{0.4} Cr _{0.8} Co _{0.2} O ₃ Perovskite Decorated with Exsolved Co Nanoparticles for Stable CO ₂ Splitting and Syngas Production. ACS Applied Energy Materials, 2020, 3, 4569-4579.	2.5	41
7	Modeling Thermochemical Solar Fuel Conversion: CALPHAD for Thermodynamic Assessment Studies of Perovskites, Exemplified for (La,Sr)MnO ₃ . Advanced Energy Materials, 2017, 7, 1601086.	10.2	39
8	Impact of enhanced oxide reducibility on rates of solar-driven thermochemical fuel production. MRS Communications, 2017, 7, 873-878.	0.8	26
9	Peering into buried interfaces with X-rays and electrons to unveil MgCO ₃ formation during CO ₂ capture in molten salt-promoted MgO. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	26
10	Oxygen Exchange in Dual-Phase La _{0.65} Sr _{0.35} MnO ₃ –CeO ₂ Composites for Solar Thermochemical Fuel Production. ACS Applied Materials & Interfaces, 2020, 12, 32622-32632.	4.0	20
11	Highly Selective Oxidative Dehydrogenation of Ethane to Ethylene via Chemical Looping with Oxygen Uncoupling through Structural Engineering of the Oxygen Carrier. Advanced Energy Materials, 2022, 12, .	10.2	18
12	Thermodynamic assessment of the solar-to-fuel performance of La _{0.6} Sr _{0.4} Mn _{1-y} CryO ₃ - perovskite solid solution series. Acta Materialia, 2019, 178, 163-172.	3.8	15
13	Rationally designed ultra-short pulsed laser patterning of zirconia-based ceramics tailored for the bone-implant interface. Applied Surface Science, 2021, 545, 149020.	3.1	11
14	Model structures of molten salt-promoted MgO to probe the mechanism of MgCO ₃ formation during CO ₂ capture at a solid–liquid interface. Journal of Materials Chemistry A, 2022, 10, 16803-16812.	5.2	9