

Christopher J Bartel

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

2,296
citations

361413

20
h-index

434195

31
g-index

41
all docs

41
docs citations

41
times ranked

3017
citing authors

#	ARTICLE	IF	CITATIONS
19	Computational investigation of chalcogenide spinel conductors for all-solid-state Mg batteries. <i>Chemical Communications</i> , 2020, 56, 1952-1955.	4.1	31
20	Kinetically Controlled Low-Temperature Solid-State Metathesis of Manganese Nitride Mn_3N_2 . <i>Chemistry of Materials</i> , 2019, 31, 7248-7254.	6.7	26
21	The role of decomposition reactions in assessing first-principles predictions of solid stability. <i>Npj Computational Materials</i> , 2019, 5, .	8.7	63
22	A map of the inorganic ternary metal nitrides. <i>Nature Materials</i> , 2019, 18, 732-739.	27.5	274
23	High-Throughput Equilibrium Analysis of Active Materials for Solar Thermochemical Ammonia Synthesis. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 24850-24858.	8.0	21
24	New tolerance factor to predict the stability of perovskite oxides and halides. <i>Science Advances</i> , 2019, 5, eaav0693.	10.3	778
25	Particle atomic layer deposition of alumina for sintering yttria-stabilized cubic zirconia. <i>Journal of the American Ceramic Society</i> , 2019, 102, 2283-2293.	3.8	8
26	Characterization of products derived from the high temperature flash pyrolysis of microalgae and rice hulls. <i>Chemical Engineering Science</i> , 2019, 196, 527-537.	3.8	15
27	Redox-Mediated Stabilization in Zinc Molybdenum Nitrides. <i>Journal of the American Chemical Society</i> , 2018, 140, 4293-4301.	13.7	53
28	Helium interactions with alumina formed by atomic layer deposition show potential for mitigating problems with excess helium in spent nuclear fuel. <i>Journal of Nuclear Materials</i> , 2018, 499, 301-311.	2.7	8
29	Physical descriptor for the Gibbs energy of inorganic crystalline solids and temperature-dependent materials chemistry. <i>Nature Communications</i> , 2018, 9, 4168.	12.8	152
30	Machine learning for heterogeneous catalyst design and discovery. <i>AIChE Journal</i> , 2018, 64, 2311-2323.	3.6	258
31	Aluminum Nitride Hydrolysis Enabled by Hydroxyl-Mediated Surface Proton Hopping. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 18550-18559.	8.0	21
32	Hydrolysis protection and sintering of aluminum nitride powders with yttria nanofilms. <i>Journal of the American Ceramic Society</i> , 0, , .	3.8	4