

Dongwoo Lee

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

574
citations

687363

13
h-index

752698

20
g-index

23
all docs

23
docs citations

23
times ranked

739
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectral descriptors for bulk metallic glasses based on the thermodynamics of competing crystalline phases. <i>Nature Communications</i> , 2016, 7, 12315.	12.8	104
2	Crystallization behavior upon heating and cooling in Cu ₅₀ Zr ₅₀ metallic glass thin films. <i>Acta Materialia</i> , 2016, 121, 68-77.	7.9	64
3	Measurements of stress and fracture in germanium electrodes of lithium-ion batteries during electrochemical lithiation and delithiation. <i>Journal of Power Sources</i> , 2016, 304, 164-169.	7.8	57
4	Novel mechanisms and simple locomotion strategies for an in-pipe robot that can inspect various pipe types. <i>Mechanism and Machine Theory</i> , 2012, 56, 52-68.	4.5	53
5	Low-Temperature Synthesis of Ultra-High-Temperature Coatings of ZrB ₂ Using Reactive Multilayers. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21192-21198.	3.1	41
6	Design of centimeter-scale inchworm robots with bidirectional claws. , 2011, , .		33
7	Scanning AC nanocalorimetry study of Zr/B reactive multilayers. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	27
8	First-Principles Theoretical Studies and Nanocalorimetry Experiments on Solid-State Alloying of Zrâ€“B. <i>Nano Letters</i> , 2015, 15, 6553-6558.	9.1	26
9	High tensile strength of sputter-deposited ZrB ₂ ceramic thin films measured up to 1016ÅK. <i>Acta Materialia</i> , 2016, 113, 32-40.	7.9	24
10	Machine-Learning-Guided Prediction Models of Critical Temperature of Cuprates. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6211-6217.	4.6	19
11	Kinetics of solid-gas reactions characterized by scanning AC nano-calorimetry with application to Zr oxidation. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	15
12	Phase transformations in equiatomic CuZr shape memory thin films analyzed by differential nanocalorimetry. <i>Acta Materialia</i> , 2018, 159, 320-331.	7.9	15
13	Electrical resistivity as a descriptor for classification of amorphous versus crystalline phases of alloys. <i>Acta Materialia</i> , 2022, 231, 117861.	7.9	15
14	Diffusion kinetics in binary CuZr and NiZr alloys in the super-cooled liquid and glass states studied by nanocalorimetry. <i>Scripta Materialia</i> , 2019, 165, 73-77.	5.2	14
15	Kinetic Role of Carbon in Solid-State Synthesis of Zirconium Diboride using Nanolaminates: Nanocalorimetry Experiments and First-Principles Calculations. <i>Nano Letters</i> , 2015, 15, 8266-8270.	9.1	13
16	Machine learning-based prediction models for formation energies of interstitial atoms in HCP crystals. <i>Scripta Materialia</i> , 2020, 183, 1-5.	5.2	12
17	Combinatorial temperature resistance sensors for the analysis of phase transformations demonstrated for metallic glasses. <i>Acta Materialia</i> , 2018, 156, 486-495.	7.9	11
18	Ab initio study of H, B, C, N, O, and self-interstitial atoms in hcp-Zr. <i>Journal of Alloys and Compounds</i> , 2019, 787, 631-637.	5.5	11

#	ARTICLE	IF	CITATIONS
19	Anisotropic He-ion irradiation damages in nanocolumnar W thin films. <i>Extreme Mechanics Letters</i> , 2020, 41, 100984.	4.1	8
20	First-Principles Analysis on the Catalytic Role of Additives in Low-Temperature Synthesis of Transition Metal Diborides Using Nanolaminates. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10995-11000.	8.0	6
21	Tunable solid-state thermal rectification by asymmetric nonlinear radiation. <i>Materials Horizons</i> , 2021, 8, 1998-2005.	12.2	6
22	Machine Learning-Based Prediction Models for Formation Energies of Interstitial Atoms in HCP Crystals. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
23	Print-and-Spray Electromechanical Metamaterials. <i>Soft Robotics</i> , 2021, , .	8.0	0