

Christian H Liebscher

List of Publications by Year in descending order

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53
papers

2,143
citations

257429

24
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233409

45
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54
docs citations

54
times ranked

2317
citing authors

#	ARTICLE	IF	CITATIONS
19	Dislocation-induced breakthrough of strength and ductility trade-off in a non-equiatomic high-entropy alloy. <i>Acta Materialia</i> , 2020, 185, 45-54.	7.9	76
20	Early stage phase separation of AlCoCr0.75Cu0.5FeNi high-entropy powder at the nanoscale. <i>Journal of Alloys and Compounds</i> , 2020, 820, 153149.	5.5	6
21	Ultrastrong lightweight compositionally complex steels via dual-nanoprecipitation. <i>Science Advances</i> , 2020, 6, .	10.3	118
22	Novel Multicomponent B2-Ordered Aluminides: Compositional Design, Synthesis, Characterization, and Thermal Stability. <i>Metals</i> , 2020, 10, 1411.	2.3	15
23	Current Challenges and Opportunities in Microstructure-Related Properties of Advanced High-Strength Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 5517-5586.	2.2	115
24	Observations of grain-boundary phase transformations in an elemental metal. <i>Nature</i> , 2020, 579, 375-378.	27.8	136
25	Unveiling the Re effect in Ni-based single crystal superalloys. <i>Nature Communications</i> , 2020, 11, 389.	12.8	101
26	Dislocation plasticity in FeCoCrMnNi high-entropy alloy: quantitative insights from <i>in situ</i> transmission electron microscopy deformation. <i>Materials Research Letters</i> , 2020, 8, 216-224.	8.7	35
27	Mapping the mechanical properties in nitride coatings at the nanometer scale. <i>Acta Materialia</i> , 2020, 194, 343-353.	7.9	6
28	Atomic level bonding mechanism in steel/aluminum joints produced by cold pressure welding. <i>Materialia</i> , 2019, 7, 100396.	2.7	14
29	Ti and its alloys as examples of cryogenic focused ion beam milling of environmentally-sensitive materials. <i>Nature Communications</i> , 2019, 10, 942.	12.8	89
30	Joint non-rigid image registration and reconstruction for quantitative atomic resolution scanning transmission electron microscopy. <i>Ultramicroscopy</i> , 2019, 198, 49-57.	1.9	13
31	Segregation-Induced Nanofaceting Transition at an Asymmetric Tilt Grain Boundary in Copper. <i>Physical Review Letters</i> , 2018, 121, 255502.	7.8	40
32	Bidirectional Transformation Enables Hierarchical Nanolaminate Dual-Phase High-Entropy Alloys. <i>Advanced Materials</i> , 2018, 30, e1804727.	21.0	167
33	Sulfur induced embrittlement in high-purity, polycrystalline copper. <i>Acta Materialia</i> , 2018, 156, 64-75.	7.9	13
34	Strain-Induced Asymmetric Line Segregation at Faceted Si Grain Boundaries. <i>Physical Review Letters</i> , 2018, 121, 015702.	7.8	65
35	On the Influence of Nb/Ti Ratio on Environmentally-Assisted Crack Growth in High-Strength Nickel-Based Superalloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 3923-3937.	2.2	7
36	Tetragonal fcc-Fe induced by $\hat{\eta}$ -carbide precipitates: Atomic scale insights from correlative electron microscopy, atom probe tomography, and density functional theory. <i>Physical Review Materials</i> , 2018, 2, .	2.4	14

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37	Correlating Atom Probe Tomography with Atomic-Resolved Scanning Transmission Electron Microscopy: Example of Segregation at Silicon Grain Boundaries. <i>Microscopy and Microanalysis</i> , 2017, 23, 291-299.	0.4	24
38	Effect of titanium additions upon microstructure and properties of precipitation-strengthened Fe-Ni-Al-Cr ferritic alloys. <i>Acta Materialia</i> , 2017, 128, 103-112.	7.9	46
39	Beam-induced atomic migration at Ag-containing nanofacets at an asymmetric Cu grain boundary. <i>Journal of Materials Research</i> , 2017, 32, 968-982.	2.6	7
40	Goldâ€Palladium Bimetallic Catalyst Stability: Consequences for Hydrogen Peroxide Selectivity. <i>ACS Catalysis</i> , 2017, 7, 5699-5705.	11.2	76
41	Electronic structure of metastable bcc Cuâ€Cr alloy thin films: Comparison of electron energy-loss spectroscopy and first-principles calculations. <i>Ultramicroscopy</i> , 2017, 178, 96-104.	1.9	8
42	Ferritic Alloys with Extreme Creep Resistance via Coherent Hierarchical Precipitates. <i>Scientific Reports</i> , 2015, 5, 16327.	3.3	80
43	Diffraction contrast imaging using virtual apertures. <i>Ultramicroscopy</i> , 2015, 155, 1-10.	1.9	86
44	Interaction of <sc>Cysteine with ZnO: Structure, Surface Chemistry, and Optical Properties. <i>Langmuir</i> , 2015, 31, 5701-5711.	3.5	46
45	Creep properties and microstructure of a precipitation-strengthened ferritic Feâ€Alâ€Niâ€Cr alloy. <i>Acta Materialia</i> , 2014, 71, 89-99.	7.9	133
46	X-ray irradiation induced reduction and nanoclustering of lead in borosilicate glass. <i>CrystEngComm</i> , 2014, 16, 9331-9339.	2.6	23
47	On the formation of hierarchically structured L2 1 -Ni2TiAl type precipitates in a ferritic alloy. <i>Journal of Materials Science</i> , 2013, 48, 2067-2075.	3.7	39
48	Sintered silicon nitride/nano-silicon carbide materials based on preceramic polymers and ceramic powder. <i>Journal of the European Ceramic Society</i> , 2012, 32, 1893-1899.	5.7	14
49	High Temperature Strengthening Mechanisms in the Alloy Platinum-5% Rhodium DPH. <i>Platinum Metals Review</i> , 2011, 55, 217-224.	1.2	10
50	Catalytic formation of carbon phases in metal modified, porous polymer derived SiCN ceramics. <i>Carbon</i> , 2011, 49, 3065-3072.	10.3	36
51	Improvement of thermal and mechanical properties of a phenolic resin nanocomposite by <i>in situ</i> formation of silsesquioxanes from a molecular precursor. <i>Journal of Applied Polymer Science</i> , 2010, 117, 2272-2277.	2.6	21
52	Development of MgAl2O4 spinel coating on graphite surface to improve its water-wettability and oxidation resistance. <i>Ceramics International</i> , 2009, 35, 457-461.	4.8	36
53	A novel approach to synthesis of nanosize MgAl2O4 spinel powder through solâ€gel citrate technique and subsequent heat treatment. <i>Ceramics International</i> , 2009, 35, 933-937.	4.8	42