

Alisson Kwiatkowski da Silva

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

1,705
citations

393982

19
h-index

752256

20
g-index

21
all docs

21
docs citations

21
times ranked

1420
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrastrong Medium-Entropy Single-Phase Alloys Designed via Severe Lattice Distortion. <i>Advanced Materials</i> , 2019, 31, e1807142.	11.1	301
2	The effects of prior austenite grain boundaries and microstructural morphology on the impact toughness of intercritically annealed medium Mn steel. <i>Acta Materialia</i> , 2017, 122, 199-206.	3.8	196
3	Segregation assisted grain boundary precipitation in a model Al-Zn-Mg-Cu alloy. <i>Acta Materialia</i> , 2018, 156, 318-329.	3.8	189
4	Atomic-scale grain boundary engineering to overcome hot-cracking in additively-manufactured superalloys. <i>Acta Materialia</i> , 2019, 177, 209-221.	3.8	165
5	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.	1.1	115
6	Segregation-driven grain boundary spinodal decomposition as a pathway for phase nucleation in a high-entropy alloy. <i>Acta Materialia</i> , 2019, 178, 1-9.	3.8	102
7	Phase nucleation through confined spinodal fluctuations at crystal defects evidenced in Fe-Mn alloys. <i>Nature Communications</i> , 2018, 9, 1137.	5.8	101
8	Confined chemical and structural states at dislocations in Fe-9wt%Mn steels: A correlative TEM-atom probe study combined with multiscale modelling. <i>Acta Materialia</i> , 2017, 124, 305-315.	3.8	73
9	Multi-scale characterization of austenite reversion and martensite recovery in a cold-rolled medium-Mn steel. <i>Acta Materialia</i> , 2019, 166, 512-530.	3.8	67
10	Competition between formation of carbides and reversed austenite during tempering of a medium-manganese steel studied by thermodynamic-kinetic simulations and atom probe tomography. <i>Acta Materialia</i> , 2018, 147, 165-175.	3.8	60
11	High-rate superplasticity in an equiatomic medium-entropy VCoNi alloy enabled through dynamic recrystallization of a duplex microstructure of ordered phases. <i>Acta Materialia</i> , 2020, 194, 106-117.	3.8	57
12	Thermodynamics of grain boundary segregation, interfacial spinodal and their relevance for nucleation during solid-solid phase transitions. <i>Acta Materialia</i> , 2019, 168, 109-120.	3.8	56
13	Beyond Solid Solution High-Entropy Alloys: Tailoring Magnetic Properties via Spinodal Decomposition. <i>Advanced Functional Materials</i> , 2021, 31, 2007668.	7.8	51
14	Interfaces and defect composition at the near-atomic scale through atom probe tomography investigations. <i>Journal of Materials Research</i> , 2018, 33, 4018-4030.	1.2	35
15	Segregation-assisted spinodal and transient spinodal phase separation at grain boundaries. <i>Npj Computational Materials</i> , 2020, 6, .	3.5	29
16	Martensite to austenite reversion in a high-Mn steel: Partitioning-dependent two-stage kinetics revealed by atom probe tomography, in-situ magnetic measurements and simulation. <i>Acta Materialia</i> , 2019, 166, 178-191.	3.8	27
17	The hidden structure dependence of the chemical life of dislocations. <i>Science Advances</i> , 2021, 7, .	4.7	24
18	A sustainable ultra-high strength Fe ₁₈ Mn ₃ Ti maraging steel through controlled solute segregation and δ -Mn nanoprecipitation. <i>Nature Communications</i> , 2022, 13, 2330.	5.8	22

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19	Chemo-mechanical phase-field modeling of iron oxide reduction with hydrogen. <i>Acta Materialia</i> , 2022, 231, 117899.	3.8	19
20	An Automated Computational Approach for Complete In-Plane Compositional Interface Analysis by Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2019, 25, 389-400.	0.2	16
21	Reversion to Ultrafine-Grained Austenite in a Medium-Mn AHSS. <i>Microscopy and Microanalysis</i> , 2018, 24, 2228-2229.	0.2	0