Alisson Kwiatkowski da Silva

List of Publications by Year
in descending order

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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	Chemo-mechanical phase-field modeling of iron oxide reduction with hydrogen. Acta Materialia, 2022, 231, 117899.	3.8	19
2	A sustainable ultra-high strength Fe18Mn3Ti maraging steel through controlled solute segregation and Î±-Mn nanoprecipitation. Nature Communications, 2022, 13, 2330.	5.8	22
3	Beyond Solid Solution Highâ€Entropy Alloys: Tailoring Magnetic Properties via Spinodal Decomposition. Advanced Functional Materials, 2021, 31, 2007668.	7.8	51
4	The hidden structure dependence of the chemical life of dislocations. Science Advances, 2021, 7, .	4.7	24
5	Current Challenges and Opportunities in Microstructure-Related Properties of Advanced High-Strength Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 5517-5586.	1.1	115
6	Segregation-assisted spinodal and transient spinodal phase separation at grain boundaries. Npj Computational Materials, 2020, 6, .	3.5	29
7	High-rate superplasticity in an equiatomic medium-entropy VCoNi alloy enabled through dynamic recrystallization of a duplex microstructure of ordered phases. Acta Materialia, 2020, 194, 106-117.	3.8	57
8	Segregation-driven grain boundary spinodal decomposition as a pathway for phase nucleation in a high-entropy alloy. Acta Materialia, 2019, 178, 1-9.	3.8	102
9	Atomic-scale grain boundary engineering to overcome hot-cracking in additively-manufactured superalloys. Acta Materialia, 2019, 177, 209-221.	3.8	165
10	An Automated Computational Approach for Complete In-Plane Compositional Interface Analysis by Atom Probe Tomography. Microscopy and Microanalysis, 2019, 25, 389-400.	0.2	16
11	Thermodynamics of grain boundary segregation, interfacial spinodal and their relevance for nucleation during solid-solid phase transitions. Acta Materialia, 2019, 168, 109-120.	3.8	56
12	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. Acta Materialia, 2019, 166, 178-191.	3.8	27
13	Ultrastrong Mediumâ€Entropy Singleâ€Phase Alloys Designed via Severe Lattice Distortion. Advanced Materials, 2019, 31, e1807142.	11.1	301
14	Multi-scale characterization of austenite reversion and martensite recovery in a cold-rolled medium-Mn steel. Acta Materialia, 2019, 166, 512-530.	3.8	67
15	Competition between formation of carbides and reversed austenite during tempering of a medium-manganese steel studied by thermodynamic-kinetic simulations and atom probe tomography. Acta Materialia, 2018, 147, 165-175.	3.8	60
16	Phase nucleation through confined spinodal fluctuations at crystal defects evidenced in Fe-Mn alloys. Nature Communications, 2018, 9, 1137.	5.8	101
17	Interfaces and defect composition at the near-atomic scale through atom probe tomography investigations. Journal of Materials Research, 2018, 33, 4018-4030.	1.2	35
18	Segregation assisted grain boundary precipitation in a model Al-Zn-Mg-Cu alloy. Acta Materialia, 2018, 156, 318-329.	3.8	189

#	Article	IF	Citations
19	Reversion to Ultrafine-Grained Austenite in a Medium-Mn AHSS. Microscopy and Microanalysis, 2018, 24, 2228-2229.	0.2	0
20	Confined chemical and structural states at dislocations in Fe-9wt%Mn steels: A correlative TEM-atom probe study combined with multiscale modelling. Acta Materialia, 2017, 124, 305-315.	3.8	73
21	The effects of prior austenite grain boundaries and microstructural morphology on the impact toughness of intercritically annealed medium Mn steel. Acta Materialia, 2017, 122, 199-206.	3.8	196