Jian Peng

List of Publications by Year
in descending order

21 papers	416 citations	933264 10 h-index	752573 20 g-index
22 all docs	22 docs citations	22 times ranked	321 citing authors

#	Article	IF	Citations
1	Solute-vacancy clustering in aluminum. Acta Materialia, 2020, 196, 747-758.	3.8	96
2	Data analytics approach for melt-pool geometries in metal additive manufacturing. Science and Technology of Advanced Materials, 2019, 20, 972-978.	2.8	59
3	Coupling physics in machine learning to predict properties of high-temperatures alloys. Npj Computational Materials, 2020, 6, .	3.5	37
4	Isothermal oxidation behavior of NiAl and NiAl-(Cr,Mo) eutectic alloys. Corrosion Science, 2019, 151, 27-34.	3.0	32
5	Experimental investigation and thermodynamic re-assessment of the Alâ€"Moâ€"Ni system. Journal of Alloys and Compounds, 2016, 674, 305-314.	2.8	29
6	Influence of Al content and pre-oxidation on the aqueous corrosion resistance of binary Fe-Al alloys in sulphuric acid. Corrosion Science, 2019, 149, 123-132.	3.0	29
7	Experimental Investigation and CALPHAD Assessment of the Eutectic Trough in the System NiAl-Cr-Mo. Journal of Phase Equilibria and Diffusion, 2016, 37, 592-600.	0.5	21
8	Application of Iron Aluminides in the Combustion Chamber of Large Bore 2-Stroke Marine Engines. Metals, 2019, 9, 847.	1.0	21
9	Advanced data science toolkit for non-data scientists â€" A user guide. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2020, 68, 101733.	0.7	15
10	ASCENDS: Advanced data SCiENce toolkit for Non-Data Scientists. Journal of Open Source Software, 2020, 5, 1656.	2.0	11
11	Isothermal oxidation behavior of TribaloyTM T400 and T800. Npj Materials Degradation, 2018, 2, .	2.6	10
12	High-throughput thermodynamic screening of carbide/refractory metal cermets for ultra-high temperature applications. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2019, 66, 101631.	0.7	10
13	Computational thermodynamic study of SiC chemical vapor deposition from MTSâ€H₂*. Journal of the American Ceramic Society, 2021, 104, 3726-3737.	1.9	9
14	A machine learning approach to predict thermal expansion of complex oxides. Computational Materials Science, 2022, 210, 111034.	1.4	8
15	Uncertainty Quantification of Machine Learning Predicted Creep Property of Alumina-Forming Austenitic Alloys. Jom, 2021, 73, 164-173.	0.9	6
16	Data analytics approach to predict high-temperature cyclic oxidation kinetics of NiCr-based Alloys. Npj Materials Degradation, 2021, 5, .	2.6	6
17	Investigations of the nickel promotional effect on the reduction and sintering of tungsten compounds. International Journal of Refractory Metals and Hard Materials, 2019, 78, 296-302.	1.7	5
18	Synthesis of Single-Phased BaTi₂O₅ Powders by Arc-Melting. Advanced Materials Research, 2011, 279, 44-48.	0.3	2

#	Article	IF	Citations
19	In situ transmission electron microscopy deformation and mechanical responses of additively manufactured Ni-based superalloy. Scripta Materialia, 2020, 186, 57-62.	2.6	2
20	Improvement of sinterability of barium dititanate powders by ball-milling. Journal of Materials Science: Materials in Electronics, 2012, 23, 706-711.	1.1	1
21	A multiple loops machine learning framework to predict the properties of WCâ€“Co based cemented carbides. International Journal of Refractory Metals and Hard Materials, 2022, 104, 105798.	1.7	1