

Florian Vogel

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Saltwater corrosion behavior of cold sprayed AA7075 aluminum alloy coatings. <i>Corrosion Science</i> , 2018, 130, 231-240.	6.6	63
2	Mapping the evolution of hierarchical microstructures in a Ni-based superalloy. <i>Nature Communications</i> , 2013, 4, 2955.	12.8	56
3	Formation of intermetallic $\hat{\Gamma}$ phase in Al-10Si-0.3Fe alloy investigated by in-situ 4D X-ray synchrotron tomography. <i>Acta Materialia</i> , 2017, 129, 194-202.	7.9	53
4	Atom probe tomography analysis of the reference zircon gj-1: An interlaboratory study. <i>Chemical Geology</i> , 2018, 495, 27-35.	3.3	27
5	Influence of impurities, strontium addition and cooling rate on microstructure evolution in Al-10Si-0.3Fe casting alloys. <i>Journal of Alloys and Compounds</i> , 2018, 766, 818-827.	5.5	22
6	Evolution of $\hat{\Gamma}^3/\hat{\Gamma}^3'$ phases, their misfit and volume fractions in Al10Co25Cr8Fe15Ni36Ti6 compositionally complex alloy. <i>Materials Characterization</i> , 2019, 154, 363-376.	4.4	18
7	Design of BCC refractory multi-principal element alloys with superior mechanical properties. <i>Materials Research Letters</i> , 2022, 10, 133-140.	8.7	18
8	Early stages of decomposition within the $\hat{\Gamma}^3\hat{\Gamma}^2$ phase of a Ni-Al-Ti model alloy. <i>Intermetallics</i> , 2012, 22, 226-230.	3.9	17
9	Evolution of nanoscale clusters in $\hat{\Gamma}^3\hat{\Gamma}^2$ precipitates of a Ni-Al-Ti model alloy. <i>Ultramicroscopy</i> , 2015, 159, 278-284.	1.9	17
10	Tracing the three-dimensional nanochemistry of phase separation in an inverse Ni-based superalloy. <i>Acta Materialia</i> , 2018, 157, 326-338.	7.9	17
11	Influence of Ti3SiC2 content on erosion behavior of Cu-Ti3SiC2 cathode under vacuum arc. <i>Ceramics International</i> , 2021, 47, 25973-25985.	4.8	17
12	Influence of phase stability on the in situ growth stresses in Cu/Nb multilayered films. <i>Acta Materialia</i> , 2017, 132, 149-161.	7.9	15
13	Combination of enhanced strength and sufficient tensile ductility in a sintered ultrafine-grained CoFeMnNi medium-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 831, 142175.	5.6	7
14	Twinning and orientation relationships of the monoclinic $\hat{\Gamma}$ -Al45(Mn,Cr)7 phase in an Al-Mg alloy containing Mn. <i>Intermetallics</i> , 2021, 132, 107152.	3.9	5
15	Hierarchical phase separation behavior in a Ni-Si-Fe alloy. <i>Acta Materialia</i> , 2020, 195, 327-340.	7.9	5
16	Formation and evolution of hierarchical microstructures in a Ni-based superalloy investigated by in situ high-temperature synchrotron X-ray diffraction. <i>Journal of Alloys and Compounds</i> , 2022, 919, 165845.	5.5	4
17	Complex evaporation behavior of a transition metal carbo-nitride (Hf(C,N)) studied by atom probe tomography. <i>Ultramicroscopy</i> , 2018, 194, 154-166.	1.9	2
18	Carbide and nitride phase characterization in a transition metal carbo-nitride using x-ray spectroscopy and atom probe tomography. <i>Micron</i> , 2019, 122, 32-40.	2.2	2

#	ARTICLE	IF	CITATIONS
19	Fabricating advanced asymmetric supercapacitors by flame growing carbon nanofibers on surface engineered stainless steel electrode and modulating the redox active electrolyte. Surface and Coatings Technology, 2022, 431, 128032.	4.8	2
20	Field Evaporation Characteristics in Hafnium Carbides. Microscopy and Microanalysis, 2017, 23, 710-711.	0.4	0
21	Complications of using thin film geometries for nanocrystalline thermal stability investigations. Journal of Materials Research, 2020, 35, 2087-2097.	2.6	0