

# Eric A JÃ¸gle

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

3,201  
citations

257450

24  
h-index

197818

49  
g-index

51  
all docs

51  
docs citations

51  
times ranked

2580  
citing authors

#	ARTICLE	IF	CITATIONS
1	Steels in additive manufacturing: A review of their microstructure and properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 772, 138633.	5.6	549
2	Hot cracking mechanism affecting a non-weldable Ni-based superalloy produced by selective electron Beam Melting. <i>Acta Materialia</i> , 2018, 142, 82-94.	7.9	344
3	High-strength Damascus steel by additive manufacturing. <i>Nature</i> , 2020, 582, 515-519.	27.8	260
4	Massive nanoprecipitation in an Fe-19Ni-xAl maraging steel triggered by the intrinsic heat treatment during laser metal deposition. <i>Acta Materialia</i> , 2017, 129, 52-60.	7.9	224
5	Precipitation and austenite reversion behavior of a maraging steel produced by selective laser melting. <i>Journal of Materials Research</i> , 2014, 29, 2072-2079.	2.6	221
6	The role of lattice defects, element partitioning and intrinsic heat effects on the microstructure in selective laser melted Ti-6Al-4V. <i>Acta Materialia</i> , 2019, 167, 136-148.	7.9	160
7	Comparison of Maraging Steel Micro- and Nanostructure Produced Conventionally and by Laser Additive Manufacturing. <i>Materials</i> , 2017, 10, 8.	2.9	139
8	Intrinsic and extrinsic size effects in the deformation of amorphous CuZr/nanocrystalline Cu nanolaminates. <i>Acta Materialia</i> , 2014, 80, 94-106.	7.9	135
9	Precipitation Reactions in Age-Hardenable Alloys During Laser Additive Manufacturing. <i>Jom</i> , 2016, 68, 943-949.	1.9	123
10	Reducing hot tearing by grain boundary segregation engineering in additive manufacturing: example of an AlxCoCrFeNi high-entropy alloy. <i>Acta Materialia</i> , 2021, 204, 116505.	7.9	115
11	Characterizing solute hydrogen and hydrides in pure and alloyed titanium at the atomic scale. <i>Acta Materialia</i> , 2018, 150, 273-280.	7.9	81
12	Shear-Induced Mixing Governs Codeformation of Crystalline-Amorphous Nanolaminates. <i>Physical Review Letters</i> , 2014, 113, 035501.	7.8	70
13	Kinetics of the allotropic hcp to fcc phase transformation in cobalt. <i>Philosophical Magazine</i> , 2011, 91, 437-457.	1.6	69
14	Efficient additive manufacturing production of oxide- and nitride-dispersion-strengthened materials through atmospheric reactions in liquid metal deposition. <i>Materials and Design</i> , 2016, 111, 60-69.	7.0	57
15	Combinatorial Alloy Design by Laser Additive Manufacturing. <i>Steel Research International</i> , 2017, 88, 1600416.	1.8	49
16	The Maximum Separation Cluster Analysis Algorithm for Atom-Probe Tomography: Parameter Determination and Accuracy. <i>Microscopy and Microanalysis</i> , 2014, 20, 1662-1671.	0.4	46
17	Synthesis and stabilization of a new phase regime in a Mo-Si-B based alloy by laser-based additive manufacturing. <i>Acta Materialia</i> , 2018, 151, 31-40.	7.9	42
18	Interfaces and defect composition at the near-atomic scale through atom probe tomography investigations. <i>Journal of Materials Research</i> , 2018, 33, 4018-4030.	2.6	35

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19	Predictive process parameter selection for Selective Laser Melting Manufacturing: Applications to high thermal conductivity alloys. <i>Additive Manufacturing</i> , 2019, 27, 246-258.	3.0	31
20	In-situ synthesis via laser metal deposition of a lean Cu-3.4Cr-0.6Nb (at%) conductive alloy hardened by Cr nano-scale precipitates and by Laves phase micro-particles. <i>Acta Materialia</i> , 2020, 197, 330-340.	7.9	30
21	Misorientation-dependent solute enrichment at interfaces and its contribution to defect formation mechanisms during laser additive manufacturing of superalloys. <i>Physical Review Materials</i> , 2019, 3, .	2.4	30
22	Laser Powder-Bed Fusion as an Alloy Development Tool: Parameter Selection for In-Situ Alloying Using Elemental Powders. <i>Materials</i> , 2020, 13, 3922.	2.9	28
23	Reducing cohesion of metal powders for additive manufacturing by nanoparticle dry-coating. <i>Powder Technology</i> , 2021, 379, 585-595.	4.2	28
24	Microstructural influences on strengthening in a naturally aged and overaged Al-Cu-Li-Mg based alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 637, 162-169.	5.6	27
25	Control of thermally stable core-shell nano-precipitates in additively manufactured Al-Sc-Zr alloys. <i>Additive Manufacturing</i> , 2020, 32, 100910.	3.0	27
26	The kinetics of grain-boundary nucleated phase transformations: Simulations and modelling. <i>Acta Materialia</i> , 2011, 59, 5775-5786.	7.9	26
27	In-situ synthesis of oxides by reactive process atmospheres during L-PBF of stainless steel. <i>Additive Manufacturing</i> , 2020, 33, 101178.	3.0	24
28	Comparative study of hydrogen embrittlement resistance between additively and conventionally manufactured 304L austenitic stainless steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 803, 140499.	5.6	23
29	In-process Precipitation During Laser Additive Manufacturing Investigated by Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2017, 23, 694-695.	0.4	22
30	The Kinetics of and the Microstructure Induced by the Recrystallization of Copper. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 1117-1131.	2.2	21
31	Deformation induced alloying in crystalline metallic glass nano-composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 628, 269-280.	5.6	19
32	Recrystallization kinetics, mechanisms, and topology in alloys processed by laser powder-bed fusion: AISI 316L stainless steel as example. <i>Materialia</i> , 2021, 20, 101236.	2.7	19
33	Investigation of temperature distribution and solidification morphology in multilayered directed energy deposition of Al-0.5Sc-0.5Si alloy. <i>International Journal of Heat and Mass Transfer</i> , 2022, 186, 122492.	4.8	18
34	The Nature and Origin of "Double Expanded Austenite" in Ni-Based Ni-Ti Alloys Developing Upon Low Temperature Gaseous Nitriding. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 4115-4131.	2.2	16
35	Properties and influence of microstructure and crystal defects in Fe <sub>2</sub> VAl modified by laser surface remelting. <i>Scripta Materialia</i> , 2021, 193, 153-157.	5.2	16
36	On strong-scaling and open-source tools for analyzing atom probe tomography data. <i>Npj Computational Materials</i> , 2021, 7, .	8.7	14

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37	Predicting microstructures from phase transformation kinetics: the case of isochronal heating and cooling from a supersaturated matrix. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2010, 18, 065010.	2.0	12
38	Microstructural characterization of 15-5PH stainless steel processed by laser powder-bed fusion. <i>Materials Characterization</i> , 2021, 181, 111485.	4.4	8
39	Publisher's Note: Shear-Induced Mixing Governs Codeformation of Crystalline-Amorphous Nanolaminates [ <i>Phys. Rev. Lett.</i> 113 (2014), 035501]. <i>Physical Review Letters</i> , 2014, 113, .	7.8	7
40	Formation Mechanisms of Alloying Element Nitrides in Recrystallized and Deformed Ferritic Fe-Cr-Al Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 4578-4593.	2.2	6
41	Early stage phase separation of AlCoCr <sub>0.75</sub> Cu <sub>0.5</sub> FeNi high-entropy powder at the nanoscale. <i>Journal of Alloys and Compounds</i> , 2020, 820, 153149.	5.5	6
42	Interplay of Kinetics and Microstructure in the Recrystallization of Pure Copper: Comparing Mesoscopic Simulations and Experiments. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 2534-2551.	2.2	4
43	Influence of increased carbon content on the processability of high-speed steel HS6-5-3-8 by laser powder bed fusion. <i>Additive Manufacturing</i> , 2021, 46, 102125.	3.0	4
44	Simulation of the Kinetics of Grain-Boundary Nucleated Phase Transformations. <i>Solid State Phenomena</i> , 0, 172-174, 1128-1133.	0.3	3
45	Nitridation and hydrogen reduction of Fe-2.3 wt% Al alloy powder. <i>Powder Technology</i> , 2020, 374, 527-533.	4.2	3
46	Bulk nanostructured AlCoCrFeMnNi chemically complex alloy synthesized by laser-powder bed fusion. <i>Additive Manufacturing</i> , 2020, 35, 101337.	3.0	3
47	Co-deformation of crystalline-amorphous nanolaminates. <i>Microscopy and Microanalysis</i> , 2015, 21, 361-362.	0.4	2
48	On Strong Scaling Open Source Tools for Mining Atom Probe Tomography Data. <i>Microscopy and Microanalysis</i> , 2019, 25, 298-299.	0.4	2
49	Nitride Dispersion Strengthened Steel Development after Sintering of Nitrided Fe-4.6 at% Al Alloy Powder. <i>Steel Research International</i> , 2021, 92, 2100174.	1.8	2
50	Kinetics of interface-controlled phase transformations: atomistic and mesoscopic simulations. <i>International Journal of Materials Research</i> , 2011, 102, 837-845.	0.3	1
51	Application of Atom Probe Tomography to Complex Microstructures of Laser Additively Manufactured Samples. <i>Microscopy and Microanalysis</i> , 2019, 25, 2514-2515.	0.4	0