

Melissa K Santala

List of Publications by Year in descending order

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19
papers

1,754
citations

1040056

9
h-index

888059

17
g-index

19
all docs

19
docs citations

19
times ranked

1902
citing authors

#	ARTICLE	IF	CITATIONS
1	Additively manufactured hierarchical stainless steels with high strength and ductility. <i>Nature Materials</i> , 2018, 17, 63-71.	27.5	1,517
2	Approaches for ultrafast imaging of transient materials processes in the transmission electron microscope. <i>Micron</i> , 2012, 43, 1108-1120.	2.2	67
3	Time resolved electron microscopy for <i>in situ</i> experiments. <i>Applied Physics Reviews</i> , 2014, 1, 041101.	11.3	38
4	A detailed study of the Al ₃ Ni formation reaction using nanocalorimetry. <i>Thermochimica Acta</i> , 2017, 658, 72-83.	2.7	24
5	Rayleigh instabilities in crystalline solids: Evolution of finite-aspect-ratio pore channels in sapphire. <i>Acta Materialia</i> , 2008, 56, 1967-1980.	7.9	21
6	Surface-energy-anisotropy-induced orientation effects on Rayleigh instabilities in sapphire. <i>Surface Science</i> , 2006, 600, 782-792.	1.9	17
7	The orientation and morphology of platinum precipitates in sapphire. <i>Acta Materialia</i> , 2011, 59, 4761-4774.	7.9	14
8	Nanosecond-scale time-resolved electron imaging during laser crystallization of GeTe. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 1907-1913.	1.5	14
9	Orientation and morphology of Pt nanoparticles in γ -alumina processed via ion implantation and thermal annealing. <i>Scripta Materialia</i> , 2020, 188, 44-49.	5.2	14
10	Precipitate orientation relationships in Pt-implanted sapphire. <i>Scripta Materialia</i> , 2010, 62, 187-190.	5.2	9
11	Structure and phase transitions at the interface between γ -Al ₂ O ₃ and Pt. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 232202.	1.8	8
12	Effect of thermal aging on corrosion behavior of duplex stainless steels. <i>SN Applied Sciences</i> , 2022, 4, 1.	2.9	3
13	High speed direct imaging of thin metal film ablation by movie-mode dynamic transmission electron microscopy. <i>Scientific Reports</i> , 2016, 6, 23046.	3.3	2
14	Mapping Crystallization Kinetics of Phase-Change Materials Over Large Temperature Ranges Using Complementary In Situ Microscopy Techniques. <i>Microscopy and Microanalysis</i> , 2018, 24, 1868-1869.	0.4	2
15	High-Speed Electron Microscopy. <i>Springer Handbooks</i> , 2019, , 455-486.	0.6	2
16	High-speed nanoscale characterization of dewetting via dynamic transmission electron microscopy. <i>Journal of Applied Physics</i> , 2016, 120, 085301.	2.5	1
17	In-Situ TEM Observation of Crystallization in Phase-Change Material. <i>Microscopy and Microanalysis</i> , 2018, 24, 1930-1931.	0.4	1
18	Dynamic Transmission Electron Microscope Study on the Crystallization of Ion-Bombarded Amorphous Germanium Thin Films. <i>Microscopy and Microanalysis</i> , 2015, 21, 1855-1856.	0.4	0

#	ARTICLE	IF	CITATIONS
19	Imaging Irreversible Transformations with Movie-Mode Dynamic Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2015, 21, 1853-1854.	0.4	0