

# 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	Effect of thermal aging on corrosion behavior of duplex stainless steels. SN Applied Sciences, 2022, 4, 1.	2.9	3
2	Orientation and morphology of Pt nanoparticles in $\hat{1}^3$ -alumina processed via ion implantation and thermal annealing. Scripta Materialia, 2020, 188, 44-49.	5.2	14
3	High-Speed Electron Microscopy. Springer Handbooks, 2019, , 455-486.	0.6	2
4	Additively manufactured hierarchical stainless steels with high strength and ductility. Nature Materials, 2018, 17, 63-71.	27.5	1,517
5	Mapping Crystallization Kinetics of Phase-Change Materials Over Large Temperature Ranges Using Complementary In Situ Microscopy Techniques. Microscopy and Microanalysis, 2018, 24, 1868-1869.	0.4	2
6	In-Situ TEM Observation of Crystallization in Phase-Change Material. Microscopy and Microanalysis, 2018, 24, 1930-1931.	0.4	1
7	A detailed study of the Al <sub>3</sub> Ni formation reaction using nanocalorimetry. Thermochimica Acta, 2017, 658, 72-83.	2.7	24
8	High-speed nanoscale characterization of dewetting via dynamic transmission electron microscopy. Journal of Applied Physics, 2016, 120, 085301.	2.5	1
9	High speed direct imaging of thin metal film ablation by movie-mode dynamic transmission electron microscopy. Scientific Reports, 2016, 6, 23046.	3.3	2
10	Dynamic Transmission Electron Microscope Study on the Crystallization of Ion-Bombarded Amorphous Germanium Thin Films. Microscopy and Microanalysis, 2015, 21, 1855-1856.	0.4	0
11	Imaging Irreversible Transformations with Movie-Mode Dynamic Transmission Electron Microscopy. Microscopy and Microanalysis, 2015, 21, 1853-1854.	0.4	0
12	Time resolved electron microscopy for <i>in situ</i> experiments. Applied Physics Reviews, 2014, 1, 041101.	11.3	38
13	Structure and phase transitions at the interface between $\hat{1}^{\pm}$ -Al <sub>2</sub> O <sub>3</sub> and Pt. Journal of Physics Condensed Matter, 2013, 25, 232202.	1.8	8
14	Approaches for ultrafast imaging of transient materials processes in the transmission electron microscope. Micron, 2012, 43, 1108-1120.	2.2	67
15	Nanosecond-scale time-resolved electron imaging during laser crystallization of GeTe. Physica Status Solidi (B): Basic Research, 2012, 249, 1907-1913.	1.5	14
16	The orientation and morphology of platinum precipitates in sapphire. Acta Materialia, 2011, 59, 4761-4774.	7.9	14
17	Precipitate orientation relationships in Pt-implanted sapphire. Scripta Materialia, 2010, 62, 187-190.	5.2	9
18	Rayleigh instabilities in crystalline solids: Evolution of finite-aspect-ratio pore channels in sapphire. Acta Materialia, 2008, 56, 1967-1980.	7.9	21

#	ARTICLE	IF	CITATIONS
19	Surface-energy-anisotropy-induced orientation effects on Rayleigh instabilities in sapphire. Surface Science, 2006, 600, 782-792.	1.9	17