Thomas M Lillo

List of Publications by Year
in descending order

43 papers	2,086 citations	430874 18 h-index	315739 38 g-index
55 all docs	55 docs citations	55 times ranked	1708 citing authors

#	Article	IF	Citations
1	Micro- and Nano-Characterization of Neutron Irradiated TRISO Coated Particles. Microscopy and Microanalysis, 2019, 25, 1612-1613.	0.4	1
2	A Novel Dual-Step Nucleation Pathway in Crystalline Solids under Neutron Irradiation. Scientific Reports, 2018, 8, 98.	3.3	9
3	Creep and creep-rupture of Alloy 617. Nuclear Engineering and Design, 2018, 329, 142-146.	1.7	22
4	Silicon carbide grain boundary distributions, irradiation conditions, and silver retention in irradiated AGR-1 TRISO fuel particles. Nuclear Engineering and Design, 2018, 329, 46-52.	1.7	9
5	Influence of SiC grain boundary character on fission product transport in irradiated TRISO fuel. Journal of Nuclear Materials, 2016, 473, 83-92.	2.7	14
6	Precession electron diffraction for SiC grain boundary characterization in unirradiated TRISO fuel. Nuclear Engineering and Design, 2016, 305, 277-283.	1.7	4
7	Associations of Pd, U and Ag in the SiC layer of neutron-irradiated TRISO fuel. Journal of Nuclear Materials, 2015, 460, 97-106.	2.7	29
8	Identification of silver and palladium in irradiated TRISO coated particles of the AGR-1 experiment. Journal of Nuclear Materials, 2014, 446, 178-186.	2.7	50
9	Thermal Conductivity in Nanocrystalline Ceria Thin Films. Journal of the American Ceramic Society, 2014, 97, 562-569.	3.8	58
10	Threshold Stress Creep Behavior of Alloy 617 at Intermediate Temperatures. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 3010-3022.	2.2	54
11	Spatial Distribution of Pd, Ag & U in the SiC Layer of an Irradiated TRISO Fuel Particle. Microscopy and Microanalysis, 2014, 20, 1810-1811.	0.4	1
12	A Residual Mass Ballistic Testing Method to Compare Armor Materials or Components (Residual Mass) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.7	0
13	Characterization of elevated temperature properties of heat exchanger and steam generator alloys. Nuclear Engineering and Design, 2012, 251, 252-260.	1.7	41
14	Chromium-free nickel alloys for hot sulfuric and sulfur environments. International Journal of Hydrogen Energy, 2011, 36, 4588-4594.	7.1	4
15	Precipitate Redistribution during Creep of Alloy 617. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 2812-2823.	2.2	44
16	Influence of Grain Boundary Character on Creep Void Formation in Alloy 617. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 2803-2811.	2.2	55
17	Analysis of Precipitate Redistribution in Inconel 617 Using Integrated Electron Backscatter Diffraction and Energy Dispersive Spectroscopy. Microscopy and Microanalysis, 2009, 15, 24-25.	0.4	0
18	On the establishment of a method for characterization of material microstructure through laser-based resonant ultrasound spectroscopy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 770-777.	3.0	17

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19	The role of annealing twins during recrystallization of Cu. Acta Materialia, 2007, 55, 4233-4241.	7.9	344
20	Diatomic substitutionals in superconducting Nb(1â^'x)B2. Physica C: Superconductivity and Its Applications, 2006, 449, 1-8.	1.2	6
21	The role of shear stress in the formation of annealing twin boundaries in copper. Scripta Materialia, 2006, 54, 983-986.	5.2	33
22	Ductility enhancement of a heat-treatable magnesium alloy. Scripta Materialia, 2006, 55, 855-858.	5.2	40
23	Crystallographic texture evolution of three wrought magnesium alloys during equal channel angular extrusion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 408, 72-78.	5.6	127
24	Enhancing ductility of AL6061+10wt.% B4C through equal-channel angular extrusion processing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 410-411, 443-446.	5.6	47
25	Texture evolution of five wrought magnesium alloys during route A equal channel angular extrusion: Experiments and simulations. Acta Materialia, 2005, 53, 3135-3146.	7.9	289
26	Effect of orientation on the tensile and creep properties of coarse-grained INCONEL alloy MA754. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2005, 36, 785-795.	2.2	11
27	Local Orientation Gradient and Recrystallization of Deformed Copper. Solid State Phenomena, 2005, 105, 157-162.	0.3	4
28	In-Situ EBSD Investigation of Recrystallization in ECAE Processed Copper. Materials Science Forum, 2004, 467-470, 1401-1406.	0.3	12
29	Enhanced ductility in strongly textured magnesium produced by equal channel angular processing. Scripta Materialia, 2004, 50, 377-381.	5.2	546
30	Soft ferromagnetism in amorphous and nanocrystalline alloys. Journal of Magnetism and Magnetic Materials, 2004, 283, 223-230.	2.3	50
31	Observation of twin boundary migration in copper during deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 372, 173-179.	5.6	64
32	The flow stress behavior of OFHC polycrystalline copper. Acta Materialia, 2001, 49, 2065-2074.	7.9	62
33	Equal Channel Angular Extrusion for Development of Advanced Metallic Alloys. , 1999, , .		0
34	Production of carbide and nitride free Fe-0.78C-0.79N. Scripta Materialia, 1999, 40, 1321-1326.	5.2	5
35	Solute Redistribution by a Migrating Grain Boundary. Scripta Materialia, 1998, 38, 1659-1667.	5.2	0
36	Consolidation of nanocrystalline Fe-1.6 wt%C via low temperature hot isostatic pressing. Scripta Materialia, 1998, 10, 35-43.	0.5	17

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37	Film thickness change due to grain boundary migration in stressed thin films at elevated temperatures. Scripta Materialia, 1996, 35, 233-238.	5.2	0
38	Edge instabilities in thin plates studied by in situ transmission electron microscopy. Ultramicroscopy, 1993, 51, 81-89.	1.9	3
39	Edge instabilities in thin plates with spatial variations in thickness. Scripta Metallurgica Et Materialia, 1993, 28, 269-274.	1.0	2
40	On the origins of ghost boundaries during in situ strain-induced grain-boundary migration. Ultramicroscopy, 1991, 37, 294-309.	1.9	3
41	Grain boundary structural disruption under thermal stress. Scripta Metallurgica Et Materialia, 1990, 24, 1653-1658.	1.0	1
42	Direct observations of grain boundary dislocation motion due to thermal stresses. Scripta Metallurgica Et Materialia, 1990, 24, 369-374.	1.0	3
43	In-situ observations of intrinsic grain boundary structure during thermal cycling. Ultramicroscopy, 1989, 29, 257-265.	1.9	5