Tianbo Yu

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Structure restoration and coarsening of nanocrystalline cementite in cold drawn pearlitic wire induced by low temperature annealing. Scripta Materialia, 2022, 215, 114696.	5.2	5
2	Local residual stresses and microstructure within recrystallizing grains in iron. Materials Characterization, 2022, 191, 112113.	4.4	13
3	In-situ synchrotron X-ray micro-diffraction investigation of ultra-low-strain deformation microstructure in laminated Ti-Al composites. Acta Materialia, 2021, 202, 149-158.	7.9	27
4	Segregation and precipitation stabilizing an ultrafine lamellar-structured Al-0.3%Cu alloy. Acta Materialia, 2021, 206, 116595.	7.9	12
5	Enhanced strength in pure Ti via design of alternating coarse- and fine-grain layers. Acta Materialia, 2021, 206, 116627.	7.9	62
6	In Situ Synchrotron X-ray Micro-Diffraction Investigation of Elastic Strains in Laminated Ti-Al Composites. Metals, 2021, 11, 668.	2.3	2
7	Microstructure and Texture Evolution During Cold Rolling of 316L Stainless Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 4100-4111.	2.2	8
8	Transitions in mechanical behavior and in deformation mechanisms enhance the strength and ductility of Mg-3Gd. Acta Materialia, 2020, 183, 398-407.	7.9	136
9	Microstructural evolution in Mg-3Gd during accumulative roll-bonding. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 772, 138763.	5.6	13
10	Pt-20Rh dispersion strengthened by ZrO2 - Microstructure and strength. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 765, 138305.	5.6	7
11	Microstructure and strength of weldment in Pt20Rh alloys dispersion-strengthened by ZrO2 particles. IOP Conference Series: Materials Science and Engineering, 2019, 580, 012035.	0.6	0
12	Quantification of microstructure in a eutectic high entropy alloy AlCoCrFeNi_{2.1}. IOP Conference Series: Materials Science and Engineering, 2019, 580, 012039.	0.6	8
13	Strong pinning of triple junction migration for robust high strain nanostructures. Philosophical Magazine, 2019, 99, 869-886.	1.6	11
14	3D characterization of partially recrystallized Al using high resolution diffraction contrast tomography. Scripta Materialia, 2018, 157, 72-75.	5.2	17
15	Fatigue behaviors and damage mechanism of a Cr-Mn-N austenitic steel. Journal of Alloys and Compounds, 2017, 691, 103-109.	5.5	11
16	An electron microscopy study of microstructural evolution during in-situ annealing of heavily deformed nickel. Materials Letters, 2017, 186, 102-104.	2.6	6
17	Laminated Ti-Al composites: Processing, structure and strength. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 673, 572-580.	5.6	92
18	Coarsening kinetics of fine-scale microstructures in deformed materials. Acta Materialia, 2016, 120, 40-45.	7.9	19

#	Article	IF	Citations
19	Recovery Kinetics in Commercial Purity Aluminum Deformed to Ultrahigh Strain: Model and Experiment. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 4189-4196.	2.2	9
20	In situ observation of triple junction motion during recovery of heavily deformed aluminum. Acta Materialia, 2015, 86, 269-278.	7.9	43
21	Evolution of microstructure and texture during recovery and recrystallization in heavily rolled aluminum. IOP Conference Series: Materials Science and Engineering, 2015, 82, 012083.	0.6	3
22	Effects of interface roughness on the annealing behaviour of laminated Ti-Al composite deformed by hot rolling. IOP Conference Series: Materials Science and Engineering, 2015, 89, 012021.	0.6	11
23	Characterization and influence of deformation microstructure heterogeneity on recrystallization. IOP Conference Series: Materials Science and Engineering, 2015, 89, 012003.	0.6	22
24	Recovery by triple junction motion in heavily deformed metals. IOP Conference Series: Materials Science and Engineering, 2015, 89, 012014.	0.6	3
25	Observation of a New Mechanism Balancing Hardening and Softening in Metals. Materials Research Letters, 2014, 2, 160-165.	8.7	34
26	Particle stabilization of plastic flow in nanostructured Al-1Â%Si Alloy. Journal of Materials Science, 2014, 49, 6667-6673.	3.7	5
27	Linking recovery and recrystallization through triple junction motion in aluminum cold rolled to a large strain. Acta Materialia, 2013, 61, 6577-6586.	7.9	50
28	Coupling of Local Texture and Microstructure Evolution during Restoration Processes in Aluminum Deformed to Large Strains. Materials Science Forum, 2013, 753, 251-256.	0.3	0
29	EBSD-Based Techniques for Characterization of Microstructural Restoration Processes during Annealing of Metals Deformed to Large Plastic Strains. Materials Science Forum, 2012, 715-716, 203-210.	0.3	3
30	Recovery mechanisms in nanostructured aluminium. Philosophical Magazine, 2012, 92, 4056-4074.	1.6	22
31	A Model for Recovery Kinetics of Aluminum after Large Strain. Materials Science Forum, 2012, 715-716, 374-379.	0.3	2
32	Recovery by triple junction motion in aluminium deformed to ultrahigh strains. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2011, 467, 3039-3065.	2.1	72
33	Triple Junction Motion â€“ A New Recovery Mechanism in Metals Deformed to Large Strains. Materials Science Forum, 0, 753, 485-488.	0.3	5