

Chris Cochrane

List of Publications by Year in descending order

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14
papers

184
citations

1163117

8
h-index

1058476

14
g-index

14
all docs

14
docs citations

14
times ranked

277
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct search for a ferromagnetic phase in a heavily overdoped nonsuperconducting copper oxide. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17131-17134.	7.1	32
2	Orientation-dependent irradiation hardening in pure Zr studied by nanoindentation, electron microscopies, and crystal plasticity finite element modeling. International Journal of Plasticity, 2020, 124, 133-154.	8.8	32
3	Magnetism and Disorder Effects on Muon Spin Rotation Measurements of the Magnetic Penetration Depth in Iron-Arsenic Superconductors. Physical Review Letters, 2011, 106, 127002.	7.8	28
4	Dislocation evolution at a crack-tip in a hexagonal close packed metal under plane-stress conditions. Acta Materialia, 2019, 164, 25-38.	7.9	22
5	Micropillar compression study on heavy ion irradiated Zr-2.5Nb pressure tube alloy. Journal of Nuclear Materials, 2018, 511, 487-495.	2.7	12
6	Evidence for deformation-induced phase transformation in a high Sn content zirconium alloy. Acta Materialia, 2018, 161, 311-319.	7.9	11
7	Trace analysis of uranium ore concentrates using laser ablation inductively coupled plasma mass spectrometry for nuclear forensics. Journal of Radioanalytical and Nuclear Chemistry, 2020, 323, 831-838.	1.5	11
8	Retention of metastable β_2 phase in a two-phase quaternary zirconium alloy. Materials and Design, 2018, 156, 622-630.	7.0	9
9	Crystallographic orientation sensitive measurement of strain rate sensitivity in Zircaloy-2 via synchrotron X-ray diffraction. International Journal of Plasticity, 2019, 113, 1-17.	8.8	9
10	Effect of interstitial oxygen and iron on deformation of Zr-2.5 wt% Nb. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 636, 10-23.	5.6	4
11	Phase Transformation Temperatures and Solute Redistribution in a Quaternary Zirconium Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 3468-3485.	2.2	4
12	Effect of rate on the deformation properties of metastable β_2 in a high Sn content zirconium alloy. International Journal of Plasticity, 2019, 119, 102-122.	8.8	4
13	Effect of temperature and loading sense on deformation-induced phase transformation in a high Sn content zirconium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 748, 313-326.	5.6	3
14	Phase Transformation and Atypical Variants in an Extruded Two Phase Zirconium Tube. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 2724-2737.	2.2	3