

# Chris Cochrane

## List of Publications by Year in descending order

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14  
papers

184  
citations

1163117

8  
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1058476

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docs citations

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times ranked

277  
citing authors

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