

# Ingrid McCarroll

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

559  
citations

1040056

9  
h-index

888059

17  
g-index

21  
all docs

21  
docs citations

21  
times ranked

611  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of hydrogen trapping at dislocations, grain boundaries, and precipitates. <i>Science</i> , 2020, 367, 171-175.	12.6	275
2	Understanding solid solution strengthening at elevated temperatures in a creep-resistant Mg-Gd-Ca alloy. <i>Acta Materialia</i> , 2019, 181, 185-199.	7.9	71
3	Hydrogen trapping and desorption of dual precipitates in tempered low-carbon martensitic steel. <i>Acta Materialia</i> , 2020, 196, 516-527.	7.9	41
4	New frontiers in atom probe tomography: a review of research enabled by cryo and/or vacuum transfer systems. <i>Materials Today Advances</i> , 2020, 7, 100090.	5.2	34
5	Three-dimensional finite-element analyses of seepage and contaminant transport through composite geosynthetic clay liners with multiple defects. <i>Geotextiles and Geomembranes</i> , 2012, 33, 34-42.	4.6	27
6	Roles of Nd and Mn in a new creep-resistant magnesium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 779, 139152.	5.6	25
7	Performance of an FeCrAl alloy in a high-temperature CO <sub>2</sub> environment. <i>Corrosion Science</i> , 2018, 139, 267-274.	6.6	18
8	Thermally stable epitaxial ZrN/carrier-compensated Sc <sub>0.99</sub> Mg <sub>0.01</sub> N metal/semiconductor multilayers for thermionic energy conversion. <i>Journal of Materials Science</i> , 2020, 55, 1592-1602.	3.7	11
9	A Gas-Phase Reaction Cell for Modern Atom Probe Systems. <i>Microscopy and Microanalysis</i> , 2019, 25, 410-417.	0.4	10
10	Interpreting Atom Probe Data from Oxide-Metal Interfaces. <i>Microscopy and Microanalysis</i> , 2018, 24, 342-349.	0.4	8
11	The effect of hydrogen on the early stages of oxidation of a magnesium alloy. <i>Corrosion Science</i> , 2020, 165, 108391.	6.6	8
12	Laser ablation sample preparation for atom probe tomography and transmission electron microscopy. <i>Ultramicroscopy</i> , 2021, 220, 113161.	1.9	8
13	A simple approach to atom probe sample preparation by using shadow masks. <i>Ultramicroscopy</i> , 2016, 160, 163-167.	1.9	6
14	Nanoscale Analysis of Corrosion Products: A Review of the Application of Atom Probe and Complementary Microscopy Techniques. <i>Jom</i> , 2018, 70, 1744-1751.	1.9	6
15	Developing Atom Probe Tomography of Phyllosilicates in Preparation for Extra-Terrestrial Sample Return. <i>Geostandards and Geoanalytical Research</i> , 2021, 45, 427-441.	3.1	5
16	Correlative UHV-Cryo Transfer Suite: Connecting Atom Probe, SEM-FIB, Transmission Electron Microscopy via an Environmentally-Controlled Glovebox. <i>Microscopy and Microanalysis</i> , 2019, 25, 2494-2495.	0.4	4
17	Nanoporous metal tips as frameworks for analysing frozen liquids with atom probe tomography. <i>Microscopy and Microanalysis</i> , 2021, 27, 1512-1513.	0.4	1
18	Remote Learning Facilitated by MyScope Explore. <i>Microscopy Today</i> , 2021, 29, 42-48.	0.3	1

#	ARTICLE	IF	CITATIONS
19	Developing cryogenic and vacuum transfer capabilities at the Australian Centre for Microscopy and Microanalysis. <i>Microscopy and Microanalysis</i> , 2021, 27, 982-983.	0.4	0
20	Atomistic structure and three-dimensional spatial distribution of oxide clusters along voids in nitride metal/semiconductor superlattices. <i>Physical Review Materials</i> , 2021, 5, .	2.4	0
21	Understanding Solid Solution Strengthening at Elevated Temperatures in a Creep-Resistant Dilute Mg-Gd-Ca Alloy. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0