

# Phil K Cook

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

424  
citations

759233

12  
h-index

752698

20  
g-index

22  
all docs

22  
docs citations

22  
times ranked

526  
citing authors

#	ARTICLE	IF	CITATIONS
1	Trace Element Patterns in Otoliths: The Role of Biomineralization. <i>Reviews in Fisheries Science and Aquaculture</i> , 2021, 29, 445-477.	9.1	87
2	X-ray diffraction microscopy based on refractive optics. <i>Journal of Applied Crystallography</i> , 2017, 50, 1441-1456.	4.5	50
3	A multi-scale study of the interaction of Sn solutes with dislocations during static recovery in $\hat{1}\pm$ -Fe. <i>Acta Materialia</i> , 2019, 174, 92-104.	7.9	34
4	Quantifying microscale drivers for fatigue failure via coupled synchrotron X-ray characterization and simulations. <i>Nature Communications</i> , 2020, 11, 3189.	12.8	30
5	Biomineralization as a Paradigm of Directional Solidification: A Physical Model for Molluscan Shell Ultrastructural Morphogenesis. <i>Advanced Materials</i> , 2018, 30, e1803855.	21.0	27
6	Synthesis of $\text{Co}_3[\text{Fe}(\text{CN})_6]_2$ molecular-based nanomagnets in MSU mesoporous silica by integrative chemistry. <i>New Journal of Chemistry</i> , 2009, 33, 2449.	2.8	24
7	Sub-surface measurements of the austenite microstructure in response to martensitic phase transformation. <i>Acta Materialia</i> , 2019, 179, 273-286.	7.9	23
8	In situ visualization of long-range defect interactions at the edge of melting. <i>Science Advances</i> , 2021, 7, .	10.3	23
9	Reciprocal space mapping and strain scanning using X-ray diffraction microscopy. <i>Journal of Applied Crystallography</i> , 2018, 51, 1428-1436.	4.5	22
10	4D microstructural evolution in a heavily deformed ferritic alloy: A new perspective in recrystallisation studies. <i>Scripta Materialia</i> , 2022, 214, 114689.	5.2	15
11	Probing nanoscale structure and strain by dark-field x-ray microscopy. <i>MRS Bulletin</i> , 2020, 45, 277-282.	3.5	14
12	Biogenic and diagenetic indicators in archaeological and modern otoliths: Potential and limits of high definition synchrotron micro-XRF elemental mapping. <i>Chemical Geology</i> , 2015, 414, 1-15.	3.3	12
13	In-operando observation of microstructural evolution in a solid oxide cell electrolyte operating at high polarization. <i>Journal of Power Sources</i> , 2019, 413, 351-359.	7.8	12
14	Strontium speciation in archaeological otoliths. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 700-711.	3.0	11
15	Quantitative mapping of nanotwin variants in the bulk. <i>Scripta Materialia</i> , 2021, 199, 113878.	5.2	10
16	Insights into the Exceptional Crystallographic Order of Biominerals Using Dark-Field X-ray Microscopy. <i>Microscopy and Microanalysis</i> , 2018, 24, 90-91.	0.4	8
17	Dark-field X-ray microscopy reveals mosaicity and strain gradients across sub-surface TiC and TiN particles in steel matrix composites. <i>Scripta Materialia</i> , 2020, 187, 402-406.	5.2	6
18	Imaging microstructural dynamics and strain fields in electro-active materials <i>in situ</i> with dark field x-ray microscopy. <i>Review of Scientific Instruments</i> , 2020, 91, 065103.	1.3	6

#	ARTICLE	IF	CITATIONS
19	Full-section otolith microtexture imaged by local-probe X-ray diffraction. Journal of Applied Crystallography, 2018, 51, 1182-1196.	4.5	5
20	Untangling the mechanisms of lattice distortions in biogenic crystals across scales. Advanced Materials, 2022, , 2200690.	21.0	3
21	Bulk heterogeneity in barium titanate above the Curie temperature. Applied Physics Letters, 2021, 119, .	3.3	2
22	Sub-Surface Measurements of the Austenite Microstructure in Response to Martensitic Phase Transformation. SSRN Electronic Journal, 0, , .	0.4	0