

Robin J Kirkham

List of Publications by Year in descending order

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33
papers

1,642
citations

279487

23
h-index

414034

32
g-index

35
all docs

35
docs citations

35
times ranked

1700
citing authors

#	ARTICLE	IF	CITATIONS
1	The XFM beamline at the Australian Synchrotron. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 1447-1458.	1.0	75
2	Maia Mapper: High Definition XRF Imaging of Geological Samples at Intermediate Spatial Scales. <i>Microscopy and Microanalysis</i> , 2018, 24, 110-111.	0.2	1
3	Maia Mapper: high definition XRF imaging in the lab. <i>Journal of Instrumentation</i> , 2018, 13, C03020-C03020.	0.5	31
4	Fast XANES fluorescence imaging using a Maia detector. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 892-898.	1.0	12
5	Next generation data acquisition systems for the CSIRO Nuclear Microprobe: Highly scaled versus customizable. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 404, 15-20.	0.6	6
6	Spiral scanning X-ray fluorescence computed tomography. <i>Optics Express</i> , 2017, 25, 23424.	1.7	28
7	Fast X-ray microfluorescence imaging with submicrometer-resolution integrating a Maia detector at beamline P06 at PETRA-III. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 1550-1560.	1.0	49
8	Visualising coordination chemistry: fluorescence X-ray absorption near edge structure tomography. <i>Chemical Communications</i> , 2016, 52, 11834-11837.	2.2	26
9	Simultaneous X-ray fluorescence and scanning X-ray diffraction microscopy at the Australian Synchrotron XFM beamline. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 1151-1157.	1.0	19
10	A Hidden Portrait by Edgar Degas. <i>Scientific Reports</i> , 2016, 6, 29594.	1.6	61
11	Ore Petrography Using Megapixel X-Ray Imaging: Rapid Insights into Element Distribution and Mobilization in Complex Pt and U-Ce-Cu Ores. <i>Economic Geology</i> , 2016, 111, 487-501.	1.8	32
12	Validation of aGeant4model of the X-ray fluorescence microprobe at the Australian Synchrotron. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 354-365.	1.0	5
13	Correlation between Chemical and Morphological Heterogeneities in $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Spinel Composite Electrodes for Lithium-Ion Batteries Determined by Micro-X-ray Fluorescence Analysis. <i>Chemistry of Materials</i> , 2015, 27, 2525-2531.	3.2	40
14	Improved Dynamic Analysis method for quantitative PIXE and SXRF element imaging of complex materials. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 363, 42-47.	0.6	31
15	Maia X-ray fluorescence imaging: Capturing detail in complex natural samples. <i>Journal of Physics: Conference Series</i> , 2014, 499, 012002.	0.3	162
16	Maia X-ray Microprobe Detector Array System. <i>Journal of Physics: Conference Series</i> , 2014, 499, 012001.	0.3	78
17	Visualizing the 17th century underpainting in Portrait of an Old Man by Rembrandt van Rijn using synchrotron-based scanning macro-XRF. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 111, 157-164.	1.1	41
18	The Maia detector array and x-ray fluorescence imaging system: locating rare precious metal phases in complex samples. <i>Proceedings of SPIE</i> , 2013, , .	0.8	22

#	ARTICLE	IF	CITATIONS
19	Caenorhabditis elegans Maintains Highly Compartmentalized Cellular Distribution of Metals and Steep Concentration Gradients of Manganese. PLoS ONE, 2012, 7, e32685.	1.1	47
20	High-Definition X-ray Fluorescence Elemental Mapping of Paintings. Analytical Chemistry, 2012, 84, 3278-3286.	3.2	79
21	The X-ray Fluorescence Microscopy Beamline at the Australian Synchrotron. AIP Conference Proceedings, 2011, , .	0.3	208
22	A uniaxial tensile stage with tracking capabilities for micro X-ray diffraction applications. Journal of Applied Crystallography, 2011, 44, 610-617.	1.9	3
23	Preclinical studies using a prototype high-resolution PET system with Depth of Interaction. , 2011, , .		3
24	Fast X-Ray Fluorescence Microtomography of Hydrated Biological Samples. PLoS ONE, 2011, 6, e20626.	1.1	89
25	High-definition mapping of trace metal elements in the hippocampus in a model of closed-head traumatic brain injury. Injury, 2010, 41, S30-S31.	0.7	1
26	Elemental X-ray imaging using the Maia detector array: The benefits and challenges of large solid-angle. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 619, 37-43.	0.7	176
27	The Maia 384 detector array in a nuclear microprobe: A platform for high definition PIXE elemental imaging. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 1899-1902.	0.6	29
28	The New Maia Detector System: Methods For High Definition Trace Element Imaging Of Natural Material. AIP Conference Proceedings, 2010, , .	0.3	89
29	Reduced As components in highly oxidized environments: Evidence from full spectral XANES imaging using the Maia massively parallel detector. American Mineralogist, 2010, 95, 884-887.	0.9	52
30	SiPM based detector module and digital data acquisition system for PET: Initial results. , 2009, , .		1
31	High-throughput X-ray fluorescence imaging using a massively parallel detector array, integrated scanning and real-time spectral deconvolution. Journal of Physics: Conference Series, 2009, 186, 012013.	0.3	23
32	Large detector array and real-time processing and elemental image projection of X-ray and proton microprobe fluorescence data. Nuclear Instruments & Methods in Physics Research B, 2007, 260, 1-7.	0.6	34
33	A High-speed Detector System for X-ray Fluorescence Microprobes. , 2006, , .		5