Robin J Kirkham

List of Publications by Year
in descending order

33 papers	1,642 citations	279798 23 h-index	414414 32 g-index
35 all docs	35 docs citations	35 times ranked	1700 citing authors

#	Article	IF	Citations
1	The X-ray Fluorescence Microscopy Beamline at the Australian Synchrotron. AIP Conference Proceedings, 2011, , .	0.4	208
2	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.	1.6	176
3	Maia X-ray fluorescence imaging: Capturing detail in complex natural samples. Journal of Physics: Conference Series, 2014, 499, 012002.	0.4	162
4	The New Maia Detector System: Methods For High Definition Trace Element Imaging Of Natural Material. AIP Conference Proceedings, 2010, , .	0.4	89
5	Fast X-Ray Fluorescence Microtomography of Hydrated Biological Samples. PLoS ONE, 2011, 6, e20626.	2.5	89
6	High-Definition X-ray Fluorescence Elemental Mapping of Paintings. Analytical Chemistry, 2012, 84, 3278-3286.	6.5	79
7	Maia X-ray Microprobe Detector Array System. Journal of Physics: Conference Series, 2014, 499, 012001.	0.4	78
8	The XFM beamline at the Australian Synchrotron. Journal of Synchrotron Radiation, 2020, 27, 1447-1458.	2.4	75
9	A Hidden Portrait by Edgar Degas. Scientific Reports, 2016, 6, 29594.	3.3	61
10	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.	1.9	52
11	Fast X-ray microfluorescence imaging with submicrometer-resolution integrating a Maia detector at beamline P06 at PETRAâ€...III. Journal of Synchrotron Radiation, 2016, 23, 1550-1560.	2.4	49
12	Caenorhabditis elegans Maintains Highly Compartmentalized Cellular Distribution of Metals and Steep Concentration Gradients of Manganese. PLoS ONE, 2012, 7, e32685.	2.5	47
13	Visualizing the 17th century underpainting in Portrait of an Old Man by Rembrandt van Rijn using synchrotron-based scanning macro-XRF. Applied Physics A: Materials Science and Processing, 2013, 111, 157-164.	2.3	41
14	Correlation between Chemical and Morphological Heterogeneities in LiNi_{0.5}Mn_{1.5}O₄ Spinel Composite Electrodes for Lithium-Ion Batteries Determined by Micro-X-ray Fluorescence Analysis. Chemistry of Materials, 2015, 27, 2525-2531.	6.7	40
15	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.	1.4	34
16	Ore Petrography Using Megapixel X-Ray Imaging: Rapid Insights into Element Distribution and Mobilization in Complex Pt and U-Ge-Cu Ores. Economic Geology, 2016, 111, 487-501.	3.8	32
17	Improved Dynamic Analysis method for quantitative PIXE and SXRF element imaging of complex materials. Nuclear Instruments & Methods in Physics Research B, 2015, 363, 42-47.	1.4	31
18	Maia Mapper: high definition XRF imaging in the lab. Journal of Instrumentation, 2018, 13, C03020-C03020.	1.2	31

#	Article	IF	Citations
19	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.	1.4	29
20	Spiral scanning X-ray fluorescence computed tomography. Optics Express, 2017, 25, 23424.	3.4	28
21	Visualising coordination chemistry: fluorescence X-ray absorption near edge structure tomography. Chemical Communications, 2016, 52, 11834-11837.	4.1	26
22	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.	0.4	23
23	The Maia detector array and x-ray fluorescence imaging system: locating rare precious metal phases in complex samples. Proceedings of SPIE, 2013, , .	0.8	22
24	Simultaneous X-ray fluorescence and scanning X-ray diffraction microscopy at the Australian Synchrotron XFM beamline. Journal of Synchrotron Radiation, 2016, 23, 1151-1157.	2.4	19
25	Fast XANES fluorescence imaging using a Maia detector. Journal of Synchrotron Radiation, 2018, 25, 892-898.	2.4	12
26	Next generation data acquisition systems for the CSIRO Nuclear Microprobe: Highly scaled versus customizable. Nuclear Instruments & Methods in Physics Research B, 2017, 404, 15-20.	1.4	6
27	A High-speed Detector System for X-ray Fluorescence Microprobes. , 2006, , .		5
28	Validation of aGeant4model of the X-ray fluorescence microprobe at the Australian Synchrotron. Journal of Synchrotron Radiation, 2015, 22, 354-365.	2.4	5
29	A uniaxial tensile stage with tracking capabilities for micro X-ray diffraction applications. Journal of Applied Crystallography, 2011, 44, 610-617.	4.5	3
30	Preclinical studies using a prototype high-resolution PET system with Depth of Interaction. , 2011, , .		3
31	SiPM based detector module and digital data acquisition system for PET: Initial results. , 2009, , .		1
32	High-definition mapping of trace metal elements in the hippocampus in a model of closed-head traumatic brain injury. Injury, 2010, 41, S30-S31.	1.7	1
33	Maia Mapper: High Definition XRF Imaging of Geological Samples at Intermediate Spatial Scales. Microscopy and Microanalysis, 2018, 24, 110-111.	0.4	1