

# James M Ablett

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8563621/publications.pdf>

Version: 2024-02-01

66  
papers

1,672  
citations

361413

20  
h-index

289244

40  
g-index

67  
all docs

67  
docs citations

67  
times ranked

2583  
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of durable and non-durable FeNx sites in Fe-N-C materials for proton exchange membrane fuel cells. <i>Nature Catalysis</i> , 2021, 4, 10-19.	34.4	368
2	Dynamical screening in $\text{SrVO}_3$ : Inelastic x-ray scattering experiments and <i>ab initio</i> calculations. <i>Physical Review B</i> , 2021, 103, .	10.0	181
3	Lithium Borates from the Glass to the Melt: A Temperature-Induced Structural Transformation Viewed from the Boron and Oxygen Atoms. <i>Inorganic Chemistry</i> , 2021, 60, 798-806.	4.0	11
4	Quantification of non-bridging oxygens in silicates using X-ray Raman scattering. <i>Journal of Non-Crystalline Solids</i> , 2020, 528, 119715.	3.1	7
5	Core hole processes in x-ray absorption and photoemission by resonant Auger-electron spectroscopy and first-principles theory. <i>Physical Review B</i> , 2020, 101, .	3.2	11
6	Spectroscopies and Electron Microscopies Unravel the Origin of the First Colour Photographs. <i>Angewandte Chemie</i> , 2020, 132, 9198-9204.	2.0	0
7	Kondo-Induced Giant Isotropic Negative Thermal Expansion. <i>Physical Review Letters</i> , 2020, 124, 125701.	7.8	15
8	Spectroscopies and Electron Microscopies Unravel the Origin of the First Colour Photographs. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9113-9119.	13.8	4
9	Electronic structure and small-hole polarons in $\text{YTiO}_3$ . <i>Physical Review Materials</i> , 2020, 4, .	2.4	5
10	Charge Transfer and Built-in Electric Fields between a Crystalline Oxide and Silicon. <i>Physical Review Letters</i> , 2019, 123, 026805.	7.8	22
11	Separating Electrons and Donors in $\text{BaSnO}_3$ via Band Engineering. <i>Nano Letters</i> , 2019, 19, 8920-8927.	9.1	17
12	Epsilon iron as a spin-smectic state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20280-20285.	7.1	12
13	The GALAXIES inelastic hard X-ray scattering end-station at Synchrotron SOLEIL. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 263-271.	2.4	23
14	Emergent high-spin state above 7 GPa in superconducting FeSe. <i>Physical Review B</i> , 2018, 97, .	3.2	10
15	Bulk electronic structure of non-centrosymmetric $\text{EuTiO}_3$ ( $\text{EuTiO}_3$ ). <i>Physical Review B</i> , 2018, 97, .	3.2	10
16	1s2p Resonant Inelastic X-ray Scattering Magnetic Circular Dichroism as a probe for the local and non-local orbitals in $\text{CrO}_2$ . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2018, 222, 74-87.	1.7	14
17	Revealing excitonic processes and chemical bonding in $\text{MoS}_2$ by x-ray spectroscopy. <i>Physical Review B</i> , 2018, 98, .	3.2	11
18	Experimental assignment of many-electron excitations in the photoionization of NiO. <i>Physical Review B</i> , 2018, 97, .	3.2	6

#	ARTICLE	IF	CITATIONS
19	HAXPES for Materials Science at the GALAXIES Beamline. Synchrotron Radiation News, 2018, 31, 4-9.	0.8	15
20	Experimental setup for the study of resonant inelastic X-ray scattering of organometallic complexes in gas phase. Review of Scientific Instruments, 2018, 89, 063107.	1.3	3
21	Layer-resolved band bending at the $\text{SrTiO}_3/\text{p-Ge}(100)$ interface. Physical Review Materials, 2018, 2, .	2.4	20
22	Accurate band alignment at the amorphous $\text{Al}_2\text{O}_3/\text{p-Ge}(100)$ interface determined by hard x-ray photoelectron spectroscopy and density functional theory. Physical Review Materials, 2018, 2, .	2.4	3
23	Low-energy electronic excitations and band-gap renormalization in CuO. Physical Review B, 2017, 95, .	3.2	7
24	Lithium borate crystals and glasses: How similar are they? A non-resonant inelastic X-ray scattering study around the B and O K-edges. Journal of Non-Crystalline Solids, 2017, 472, 1-8.	3.1	28
25	Vacancy-mediated fcc/bcc phase separation in $\text{Fe}_{1-x}\text{Ni}_x$ films. Physical Review B, 2016, 94, .	3.2	11
26	CeRu <sub>4</sub> Sn <sub>6</sub> : a strongly correlated material with nontrivial topology. Scientific Reports, 2016, 5, 17937.	3.3	32
27	Possible evidence for high-pressure induced charge transfer in thallium rhenium oxide at room temperature. Physical Review B, 2015, 92, .	3.2	5
28	Absence of orbital rotation in superconducting $\text{CeCu}_2\text{Si}_2$ . Physical Review B, 2015, 91, .	3.2	16
29	Phase Coexistence in Two-Dimensional $\text{Fe}_x\text{O}_{1-x}/\text{Ni}_x\text{O}_{1-x}$ Films on W(110). E-Journal of Surface Science and Nanotechnology, 2015, 13, 256-260.	0.4	3
30	The GALAXIES beamline at the SOLEIL synchrotron: inelastic X-ray scattering and photoelectron spectroscopy in the hard X-ray range. Journal of Synchrotron Radiation, 2015, 22, 175-179.	2.4	127
31	Electronic Properties of $\text{BaFe}_2\text{As}_2$ upon Doping and Pressure: The Prominent Role of the As p Orbitals. Physical Review Letters, 2015, 114, 177001.	7.8	19
32	Metal-Insulator Transition in ALD $\text{VO}_2$ Ultrathin Films and Nanoparticles: Morphological Control. Advanced Functional Materials, 2015, 25, 679-686.	14.9	70
33	Detecting Non-bridging Oxygens: Non-Resonant Inelastic X-ray Scattering in Crystalline Lithium Borates. Inorganic Chemistry, 2014, 53, 10903-10908.	4.0	26
34	Atomic Auger Doppler effects upon emission of fast photoelectrons. Nature Communications, 2014, 5, 4069.	12.8	44
35	Understanding the Electronic Structure of $\text{IrO}_2$ . Physical Review Letters, 2014, 112, 117601.	11.1	10
36	Hard X-ray photoelectron spectroscopy on the GALAXIES beamline at the SOLEIL synchrotron. Journal of Electron Spectroscopy and Related Phenomena, 2013, 190, 188-192.	1.7	94

#	ARTICLE	IF	CITATIONS
37	New Design Concept for a High-Resolution In-Vacuum 4-Bounce Hard X-Ray Monochromator at the GALAXIES Beamline at the SOLEIL Synchrotron. Journal of Physics: Conference Series, 2013, 425, 052007.	0.4	4
38	Characterization of Chemically Vapor Deposited Manganese Barrier Layers Using X-ray Absorption Fine Structure. Japanese Journal of Applied Physics, 2012, 51, 05EB01.	1.5	4
39	Study of Chemical Vapor Deposition of Manganese on Porous SiCOH Low-k Dielectrics Using Bis(ethylcyclopentadienyl)manganese. Electrochemical and Solid-State Letters, 2012, 15, H176.	2.2	16
40	Comparison of x-ray diffraction, wafer curvature and Raman spectroscopy to evaluate the stress evolution in Copper TSV's. , 2012, , .		6
41	A bi-prism interferometer for hard X-ray photons. Journal of Synchrotron Radiation, 2010, 17, 451-455.	2.4	10
42	Speciation of antimony in polyethylene terephthalate bottles. X-Ray Spectrometry, 2010, 39, 257-259.	1.4	11
43	Domain faceting in an in-plane magnetic reorientation transition. Physical Review B, 2010, 82, .	3.2	10
44	Arsenic in an alkaline AMD treatment sludge: Characterization and stability under prolonged anoxic conditions. Applied Geochemistry, 2010, 25, 1487-1499.	3.0	18
45	Phase identification of self-forming Cu-Mn based diffusion barriers on p-SiOC:H and SiO2 dielectrics using x-ray absorption fine structure. Applied Physics Letters, 2009, 94, 042112.	3.3	49
46	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
47	An Infiltration Manufacturing Process for Nuclear Fuels. , 2008, , .		0
48	X-25 Cryo-ready In-vacuum Undulator at the NSLS. AIP Conference Proceedings, 2007, , .	0.4	11
49	Preliminary Hard X-ray Micro-spectroscopic Investigations on Thin-Film Ta-and-W Based Diffusion Barriers for Copper Interconnect Technology. AIP Conference Proceedings, 2007, , .	0.4	0
50	Using Compound Kinoform Hard-X-Ray Lenses to Exceed the Critical Angle Limit. Physical Review Letters, 2007, 99, 134801.	7.8	59
51	Local environment surrounding Co in MBE-grown Co-doped $\text{HfO}_2$ thin films probed by EXAFS. Physical Review B, 2007, 76, .	3.2	11
52	Observation of room temperature ferromagnetic behavior in cluster-free, Co doped HfO2 films. Applied Physics Letters, 2007, 91, .	3.3	21
53	Spectral measurements and synchrotron radiation calculation comparisons of the new X25 mini-gap undulator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 582, 37-39.	1.6	4
54	X27A A new hard X-ray micro-spectroscopy facility at the National Synchrotron Light Source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 562, 487-494.	1.6	25

#	ARTICLE	IF	CITATIONS
55	High-brightness hard X-ray scanning nano-probes at NSLS II. Nuclear Instruments & Methods in Physics Research B, 2005, 241, 238-241.	1.4	0
56	Spin-polarized conduction in localized ferromagnetic materials: The case of Fe <sub>3</sub> O <sub>4</sub> on MgO(100). Journal of Applied Physics, 2005, 98, 084507.	2.5	20
57	The NSLS X13 Mini-Gap Undulator: Design and Performance. AIP Conference Proceedings, 2004, , .	0.4	0
58	Small-gap insertion-device development at the National Synchrotron Light Source – performance of the new X13 mini-gap undulator. Journal of Synchrotron Radiation, 2004, 11, 129-131.	2.4	7
59	Imaging with single-dimension kinoform lenses. , 2004, , .		2
60	Hard x-ray Fresnel prisms: properties and applications. , 2004, , .		3
61	Energy-dependent focusing properties of a kinoform Fresnel lens. , 2004, 5539, 73.		3
62	High-pressure X-ray near-edge absorption study of thallium rhenium oxide up to 10.86 GPa. High Pressure Research, 2003, 23, 471-476.	1.2	9
63	Single-element elliptical hard x-ray micro-optics. Optics Express, 2003, 11, 919.	3.4	106
64	The design and performance of an x-ray micro-focusing system using differentially deposited elliptical mirrors at the National Synchrotron Light Source. Review of Scientific Instruments, 2002, 73, 3464-3468.	1.3	3
65	Tunable X-ray polarization reflector with perfect crystals. Acta Crystallographica Section A: Foundations and Advances, 1999, 55, 955-962.	0.3	27
66	Transmission-type X-ray linear polarizer with perfect crystals. Journal of Synchrotron Radiation, 1998, 5, 738-740.	2.4	26