

# Alexander X Gray

## List of Publications by Citations

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42  
papers

1,537  
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22  
h-index

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g-index

44  
ext. papers

1,745  
ext. citations

6  
avg, IF

3.87  
L-index

#	Paper	IF	Citations
42	Control of the metal-insulator transition in vanadium dioxide by modifying orbital occupancy. <i>Nature Physics</i> , <b>2013</b> , 9, 661-666	16.2	365
41	Probing bulk electronic structure with hard X-ray angle-resolved photoemission. <i>Nature Materials</i> , <b>2011</b> , 10, 759-64	27	129
40	Bulk electronic structure of the dilute magnetic semiconductor Ga(1-x)Mn(x)As through hard X-ray angle-resolved photoemission. <i>Nature Materials</i> , <b>2012</b> , 11, 957-62	27	98
39	Interface properties of magnetic tunnel junction La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /SrTiO <sub>3</sub> superlattices studied by standing-wave excited photoemission spectroscopy. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	69
38	Strain-Engineered Oxygen Vacancies in CaMnO Thin Films. <i>Nano Letters</i> , <b>2017</b> , 17, 794-799	11.5	64
37	Temperature-driven nucleation of ferromagnetic domains in FeRh thin films. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 262401	3.4	64
36	Correlation-Driven Insulator-Metal Transition in Near-Ideal Vanadium Dioxide Films. <i>Physical Review Letters</i> , <b>2016</b> , 116, 116403	7.4	56
35	Observation of boron diffusion in an annealed Ta/CoFeB/MgO magnetic tunnel junction with standing-wave hard x-ray photoemission. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 202402	3.4	56
34	Electronic structure changes across the metamagnetic transition in FeRh via hard X-ray photoemission. <i>Physical Review Letters</i> , <b>2012</b> , 108, 257208	7.4	56
33	Nature of the metal-insulator transition in few-unit-cell-thick LaNiO films. <i>Nature Communications</i> , <b>2018</b> , 9, 2206	17.4	44
32	Making use of x-ray optical effects in photoelectron-, Auger electron-, and x-ray emission spectroscopies: Total reflection, standing-wave excitation, and resonant effects. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 073513	2.5	39
31	Chemical stability of the magnetic oxide EuO directly on silicon observed by hard x-ray photoemission spectroscopy. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	37
30	Suppression of near-Fermi level electronic states at the interface in a LaNiO <sub>3</sub> /SrTiO <sub>3</sub> superlattice. <i>Physical Review Letters</i> , <b>2011</b> , 107, 116402	7.4	35
29	Ultrafast terahertz field control of electronic and structural interactions in vanadium dioxide. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	34
28	Insulating state of ultrathin epitaxial LaNiO <sub>3</sub> thin films detected by hard x-ray photoemission. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	32
27	Momentum-resolved electronic structure at a buried interface from soft X-ray standing-wave angle-resolved photoemission. <i>Europhysics Letters</i> , <b>2013</b> , 104, 17004	1.6	31
26	Band offsets in complex-oxide thin films and heterostructures of SrTiO <sub>3</sub> /LaNiO <sub>3</sub> and SrTiO <sub>3</sub> /GdTiO <sub>3</sub> by soft and hard X-ray photoelectron spectroscopy. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 143704	2.5	28

25	Constructing oxide interfaces and heterostructures by atomic layer-by-layer laser molecular beam epitaxy. <i>Npj Quantum Materials</i> , <b>2017</b> , 2,	5	27
24	Electronic structure of EuO spin filter tunnel contacts directly on silicon. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2011</b> , 5, 441-443	2.5	26
23	Inter-Layer Coupling Induced Valence Band Edge Shift in Mono- to Few-Layer MoS. <i>Scientific Reports</i> , <b>2017</b> , 7, 40559	4.9	25
22	Future directions in standing-wave photoemission. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2014</b> , 195, 399-408	1.7	24
21	Electronic structure of delta-doped La:SrTiO <sub>3</sub> layers by hard x-ray photoelectron spectroscopy. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 261603	3.4	23
20	Standing-wave excited soft x-ray photoemission microscopy: Application to Co microdot magnetic arrays. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 062503	3.4	21
19	Electronic structure of negative charge transfer CaFeO <sub>3</sub> across the metal-insulator transition. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	18
18	Hard x-ray photoelectron spectroscopy: a snapshot of the state-of-the-art in 2020. <i>Journal of Physics Condensed Matter</i> , <b>2021</b> , 33,	1.8	17
17	Magnetic Switching in Granular FePt Layers Promoted by Near-Field Laser Enhancement. <i>Nano Letters</i> , <b>2017</b> , 17, 2426-2432	11.5	16
16	Effects of spin excitons on the surface states of SmB <sub>6</sub> : A photoemission study. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	15
15	Hard x-ray photoemission study of near-Heusler Fe <sub>x</sub> Si <sub>1-x</sub> alloys. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	13
14	Band gap and electronic structure of an epitaxial, semiconducting Cr <sub>0.80</sub> Al <sub>0.20</sub> thin film. <i>Physical Review Letters</i> , <b>2010</b> , 105, 236404	7.4	12
13	Electronic structure of the dilute magnetic semiconductor Ga <sub>1-x</sub> MnxP from hard x-ray photoelectron spectroscopy and angle-resolved photoemission. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	10
12	Progress toward time-resolved molecular imaging: A theoretical study of optimal parameters in static photoelectron holography. <i>Physical Review A</i> , <b>2014</b> , 89,	2.6	8
11	Combining Hard and Soft X-ray Photoemission with Standing-Wave Excitation, Resonant Excitation, and Angular Resolution. <i>Synchrotron Radiation News</i> , <b>2018</b> , 31, 42-49	0.6	8
10	Depth-resolved charge reconstruction at the LaNiO <sub>3</sub> /CaMnO <sub>3</sub> interface. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	8
9	Superconductor to Mott insulator transition in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> /LaCaMnO <sub>3</sub> heterostructures. <i>Scientific Reports</i> , <b>2016</b> , 6, 33184	4.9	7
8	Measurement of collective excitations in VO <sub>2</sub> by resonant inelastic x-ray scattering. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	7

7	Strain-Induced Anion-Site Occupancy in Perovskite Oxyfluoride Films. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 1811-1820	9.6	6
6	Electronic Structure of a Graphene-like Artificial Crystal of NdNiO. <i>Nano Letters</i> , <b>2019</b> , 19, 8311-8317	11.5	5
5	Bulk electronic structure of lanthanum hexaboride (LaB <sub>6</sub> ) by hard x-ray angle-resolved photoelectron spectroscopy. <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	2
4	Emergent phenomena at oxide interfaces studied with standing-wave photoelectron spectroscopy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2022</b> , 40, 020801	2.9	
3	Nanosession: Spin Tunneling Systems311-322		
2	Nanosession: Advanced Spectroscopy and Scattering123-132		
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