

Alexander X Gray

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42
papers

1,537
citations

22
h-index

39
g-index

44
ext. papers

1,745
ext. citations

6
avg, IF

3.87
L-index

#	Paper	IF	Citations
42	Emergent phenomena at oxide interfaces studied with standing-wave photoelectron spectroscopy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022 , 40, 020801	2.9	
41	Bulk electronic structure of lanthanum hexaboride (LaB ₆) by hard x-ray angle-resolved photoelectron spectroscopy. <i>Physical Review Materials</i> , 2021 , 5,	3.2	2
40	Hard x-ray photoelectron spectroscopy: a snapshot of the state-of-the-art in 2020. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	17
39	Strain-Induced Anion-Site Occupancy in Perovskite Oxyfluoride Films. <i>Chemistry of Materials</i> , 2021 , 33, 1811-1820	9.6	6
38	Electronic Structure of a Graphene-like Artificial Crystal of NdNiO. <i>Nano Letters</i> , 2019 , 19, 8311-8317	11.5	5
37	Electronic structure of the dilute magnetic semiconductor Ga _{1-x} MnxP from hard x-ray photoelectron spectroscopy and angle-resolved photoemission. <i>Physical Review B</i> , 2018 , 97,	3.3	10
36	Nature of the metal-insulator transition in few-unit-cell-thick LaNiO films. <i>Nature Communications</i> , 2018 , 9, 2206	17.4	44
35	Electronic structure of negative charge transfer CaFeO ₃ across the metal-insulator transition. <i>Physical Review Materials</i> , 2018 , 2,	3.2	18
34	Combining Hard and Soft X-ray Photoemission with Standing-Wave Excitation, Resonant Excitation, and Angular Resolution. <i>Synchrotron Radiation News</i> , 2018 , 31, 42-49	0.6	8
33	Depth-resolved charge reconstruction at the LaNiO ₃ /CaMnO ₃ interface. <i>Physical Review B</i> , 2018 , 98,	3.3	8
32	Ultrafast terahertz field control of electronic and structural interactions in vanadium dioxide. <i>Physical Review B</i> , 2018 , 98,	3.3	34
31	Strain-Engineered Oxygen Vacancies in CaMnO Thin Films. <i>Nano Letters</i> , 2017 , 17, 794-799	11.5	64
30	Inter-Layer Coupling Induced Valence Band Edge Shift in Mono- to Few-Layer MoS ₂ . <i>Scientific Reports</i> , 2017 , 7, 40559	4.9	25
29	Magnetic Switching in Granular FePt Layers Promoted by Near-Field Laser Enhancement. <i>Nano Letters</i> , 2017 , 17, 2426-2432	11.5	16
28	Constructing oxide interfaces and heterostructures by atomic layer-by-layer laser molecular beam epitaxy. <i>Npj Quantum Materials</i> , 2017 , 2,	5	27
27	Correlation-Driven Insulator-Metal Transition in Near-Ideal Vanadium Dioxide Films. <i>Physical Review Letters</i> , 2016 , 116, 116403	7.4	56
26	Superconductor to Mott insulator transition in YBa ₂ Cu ₃ O ₇ /LaCaMnO ₃ heterostructures. <i>Scientific Reports</i> , 2016 , 6, 33184	4.9	7

25	Measurement of collective excitations in VO ₂ by resonant inelastic x-ray scattering. <i>Physical Review B</i> , 2016 , 94,	3.3	7
24	Effects of spin excitons on the surface states of SmB ₆ : A photoemission study. <i>Physical Review B</i> , 2016 , 94,	3.3	15
23	Future directions in standing-wave photoemission. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2014 , 195, 399-408	1.7	24
22	Progress toward time-resolved molecular imaging: A theoretical study of optimal parameters in static photoelectron holography. <i>Physical Review A</i> , 2014 , 89,	2.6	8
21	Control of the metal-insulator transition in vanadium dioxide by modifying orbital occupancy. <i>Nature Physics</i> , 2013 , 9, 661-666	16.2	365
20	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> , 2013 , 113, 073513	2.5	39
19	Band offsets in complex-oxide thin films and heterostructures of SrTiO ₃ /LaNiO ₃ and SrTiO ₃ /GdTiO ₃ by soft and hard X-ray photoelectron spectroscopy. <i>Journal of Applied Physics</i> , 2013 , 113, 143704	2.5	28
18	Momentum-resolved electronic structure at a buried interface from soft X-ray standing-wave angle-resolved photoemission. <i>Europhysics Letters</i> , 2013 , 104, 17004	1.6	31
17	Electronic structure of delta-doped La:SrTiO ₃ layers by hard x-ray photoelectron spectroscopy. <i>Applied Physics Letters</i> , 2012 , 100, 261603	3.4	23
16	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> , 2012 , 11, 957-62	27	98
15	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> , 2012 , 101, 202402	3.4	56
14	Electronic structure changes across the metamagnetic transition in FeRh via hard X-ray photoemission. <i>Physical Review Letters</i> , 2012 , 108, 257208	7.4	56
13	Temperature-driven nucleation of ferromagnetic domains in FeRh thin films. <i>Applied Physics Letters</i> , 2012 , 100, 262401	3.4	64
12	Probing bulk electronic structure with hard X-ray angle-resolved photoemission. <i>Nature Materials</i> , 2011 , 10, 759-64	27	129
11	Electronic structure of EuO spin filter tunnel contacts directly on silicon. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011 , 5, 441-443	2.5	26
10	Chemical stability of the magnetic oxide EuO directly on silicon observed by hard x-ray photoemission spectroscopy. <i>Physical Review B</i> , 2011 , 84,	3.3	37
9	Insulating state of ultrathin epitaxial LaNiO ₃ thin films detected by hard x-ray photoemission. <i>Physical Review B</i> , 2011 , 84,	3.3	32
8	Hard x-ray photoemission study of near-Heusler Fe _x Si _{1-x} alloys. <i>Physical Review B</i> , 2011 , 83,	3.3	13

- 7 Suppression of near-Fermi level electronic states at the interface in a LaNiO₃/SrTiO₃ superlattice. *Physical Review Letters*, **2011**, 107, 116402 7.4 35
- 6 Interface properties of magnetic tunnel junction La_{0.7}Sr_{0.3}MnO₃/SrTiO₃ superlattices studied by standing-wave excited photoemission spectroscopy. *Physical Review B*, **2010**, 82, 3.3 69
- 5 Standing-wave excited soft x-ray photoemission microscopy: Application to Co microdot magnetic arrays. *Applied Physics Letters*, **2010**, 97, 062503 3.4 21
- 4 Band gap and electronic structure of an epitaxial, semiconducting Cr_{0.80}Al_{0.20} thin film. *Physical Review Letters*, **2010**, 105, 236404 7.4 12
- 3 Nanosession: Spin Tunneling Systems 311-322
- 2 Nanosession: Advanced Spectroscopy and Scattering 123-132
- 1 Poster: Advances in Technology and Characterization 665-692