

# Alexander X Gray

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6048942/publications.pdf>

Version: 2024-02-01

41  
papers

1,928  
citations

257450

24  
h-index

276875

41  
g-index

44  
all docs

44  
docs citations

44  
times ranked

3531  
citing authors

#	ARTICLE	IF	CITATIONS
1	Control of the metal-insulator transition in vanadium dioxide by modifying orbital occupancy. Nature Physics, 2013, 9, 661-666.	16.7	448
2	Probing bulk electronic structure with hard X-ray angle-resolved photoemission. Nature Materials, 2011, 10, 759-764.	27.5	153
3	Bulk electronic structure of the dilute magnetic semiconductor $\text{Ga}_{1-x}\text{Mn}_x\text{As}$ through hard X-ray angle-resolved photoemission. Nature Materials, 2012, 11, 957-962.	27.5	117
4	Strain-Engineered Oxygen Vacancies in $\text{CaMnO}_3$ Thin Films. Nano Letters, 2017, 17, 794-799.	9.1	83
5	Temperature-driven nucleation of ferromagnetic domains in FeRh thin films. Applied Physics Letters, 2012, 100, .	3.3	79
6	Correlation-Driven Insulator-Metal Transition in Near-Ideal Vanadium Dioxide Films. Physical Review Letters, 2016, 116, 116403.	7.8	72
7	Interface properties of magnetic tunnel junction $\text{La}_{0.7}\text{Mn}_{0.7}\text{O}_2$ . Physical Review B, 2010, 82, .	3.2	71
8	Electronic Structure Changes across the Metamagnetic Transition in FeRh via Hard X-Ray Photoemission. Physical Review Letters, 2012, 108, 257208.	7.8	68
9	Nature of the metal-insulator transition in few-unit-cell-thick $\text{LaNiO}_3$ films. Nature Communications, 2018, 9, 2206.	12.8	66
10	Observation of boron diffusion in an annealed Ta/CoFeB/MgO magnetic tunnel junction with standing-wave hard x-ray photoemission. Applied Physics Letters, 2012, 101, .	3.3	64
11	Hard x-ray photoelectron spectroscopy: a snapshot of the state-of-the-art in 2020. Journal of Physics Condensed Matter, 2021, 33, 233001.	1.8	55
12	Ultrafast terahertz field control of electronic and structural interactions in vanadium dioxide. Physical Review B, 2018, 98, .	3.2	49
13	Making use of x-ray optical effects in photoelectron-, Auger electron-, and x-ray emission spectroscopies: Total reflection, standing-wave excitation, and resonant effects. Journal of Applied Physics, 2013, 113, .	2.5	47
14	Chemical stability of the magnetic oxide EuO directly on silicon observed by hard x-ray photoemission spectroscopy. Physical Review B, 2011, 84, .	3.2	46
15	Suppression of Near-Fermi Level Electronic States at the Interface in $\text{LaNiO}_3$ . Physical Review Letters, 2011, 107, 116402.	7.8	39
16	Insulating state of ultrathin epitaxial $\text{LaNiO}_3$ thin films detected by hard x-ray photoemission. Physical Review B, 2011, 84, .	3.2	35
17	Momentum-resolved electronic structure at a buried interface from soft X-ray standing-wave angle-resolved photoemission. Europhysics Letters, 2013, 104, 17004.	2.0	35
18	Constructing oxide interfaces and heterostructures by atomic layer-by-layer laser molecular beam epitaxy. Npj Quantum Materials, 2017, 2, .	5.2	34

#	ARTICLE	IF	CITATIONS
19	Inter-Layer Coupling Induced Valence Band Edge Shift in Mono- to Few-Layer MoS <sub>2</sub> . Scientific Reports, 2017, 7, 40559.	3.3	32
20	Future directions in standing-wave photoemission. Journal of Electron Spectroscopy and Related Phenomena, 2014, 195, 399-408.	1.7	30
21	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. Journal of Applied Physics, 2013, 113, .	2.5	29
22	Electronic structure of EuO spin filter tunnel contacts directly on silicon. Physica Status Solidi - Rapid Research Letters, 2011, 5, 441-443.	2.4	28
23	Electronic structure of negative charge transfer across the metal-insulator transition. Physical Review Materials, 2018, 2, .	2.4	28
24	Electronic structure of delta-doped La:SrTiO <sub>3</sub> layers by hard x-ray photoelectron spectroscopy. Applied Physics Letters, 2012, 100, 261603.	3.3	25
25	Standing-wave excited soft x-ray photoemission microscopy: Application to Co microdot magnetic arrays. Applied Physics Letters, 2010, 97, .	3.3	24
26	Magnetic Switching in Granular FePt Layers Promoted by Near-Field Laser Enhancement. Nano Letters, 2017, 17, 2426-2432.	9.1	22
27	Effects of spin excitons on the surface states of SmB <sub>6</sub> : A photoemission study. Physical Review B, 2016, 94, .	9.1	22
28	Hard x-ray photoemission study of near-Heusler Fe <sub>x</sub> Si <sub>1-x</sub> alloys. Physical Review B, 2011, 83, .	3.2	13
29	Electronic structure of the dilute magnetic semiconductor GaMnAs. Physical Review B, 2007, 75, 040401.	3.2	13
30	Depth-resolved charge reconstruction at the LaNiO <sub>3</sub> /SrTiO <sub>3</sub> interface. Physical Review B, 2018, 98, .	3.2	13
31	Band Gap and Electronic Structure of an Epitaxial, Semiconducting Cr <sub>0.80</sub> Al <sub>0.20</sub> Thin Film. Physical Review Letters, 2010, 105, 236404.	7.8	12
32	Tuning band alignment at a semiconductor-crystalline oxide heterojunction via electrostatic modulation of the interfacial dipole. Physical Review Materials, 2021, 5, .	2.4	12
33	Measurement of collective excitations in VO <sub>2</sub> by resonant inelastic x-ray scattering. Physical Review B, 2016, 94, .	2.4	12
34	Combining Hard and Soft X-ray Photoemission with Standing-Wave Excitation, Resonant Excitation, and Angular Resolution. Synchrotron Radiation News, 2018, 31, 42-49.	0.8	11
35	Progress toward time-resolved molecular imaging: A theoretical study of optimal parameters in static photoelectron holography. Physical Review A, 2014, 89, .	2.5	10
36	Superconductor to Mott insulator transition in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> /LaCaMnO <sub>3</sub> heterostructures. Scientific Reports, 2016, 6, 33184.	3.3	10

#	ARTICLE	IF	CITATIONS
37	Strain-Induced Anion-Site Occupancy in Perovskite Oxyfluoride Films. Chemistry of Materials, 2021, 33, 1811-1820.	6.7	10
38	Electronic Structure of a Graphene-like Artificial Crystal of NdNiO <sub>3</sub> . Nano Letters, 2019, 19, 8311-8317.	9.1	7
39	Bulk electronic structure of lanthanum hexaboride ( $T_j$ ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 672 Td (xmlns:mml="http://www.wiley.com") hard x-ray angle-resolved photoelectron spectroscopy. Physical Review Materials, 2021, 5, .	2.4	5
40	Probing single-unit-cell resolved electronic structure modulations in oxide superlattices with standing-wave photoemission. Physical Review B, 2019, 100, .	3.2	3
41	Emergent phenomena at oxide interfaces studied with standing-wave photoelectron spectroscopy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, 020801.	2.1	2