Alexander X Gray

List of Publications by Year
in descending order

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	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
2	Strain-Induced Anion-Site Occupancy in Perovskite Oxyfluoride Films. Chemistry of Materials, 2021, 33, 1811-1820.	6.7	10
3	Bulk electronic structure of lanthanum hexaboride (<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 672 Td (xmlns:mml="http hard x-ray angle-resolved photoelectron spectroscopy. Physical Review Materials, 2021, 5, .	2.4	5
4	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
5	Tuning band alignment at a semiconductor-crystalline oxide heterojunction via electrostatic modulation of the interfacial dipole. Physical Review Materials, 2021, 5, .	2.4	12
6	Electronic Structure of a Graphene-like Artificial Crystal of NdNiO₃. Nano Letters, 2019, 19, 8311-8317.	9.1	7
7	Probing single-unit-cell resolved electronic structure modulations in oxide superlattices with standing-wave photoemission. Physical Review B, 2019, 100, .	3.2	3
8	Electronic structure of the dilute magnetic semiconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">G</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:mi mathvariant="normal">M</mml:mi><mml:msub><mml:mi mathvariant="normal">n</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:mi mathvariant="normal">P	3.2	13
9	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
10	Depth-resolved charge reconstruction at the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>LaNi</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:mi>CaMn</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> interface. Physical Review B, 2018, 98, .	3.2	18
11	Ultrafast terahertz field control of electronic and structural interactions in vanadium dioxide. Physical Review B, 2018, 98, .	3.2	49
12	Nature of the metal-insulator transition in few-unit-cell-thick LaNiO3 films. Nature Communications, 2018, 9, 2206.	12.8	66
13	Electronic structure of negative charge transfer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CaFeO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math> across the metal-insulator transition. Physical Review Materials, 2018, 2, .	2.4	18
14	Strain-Engineered Oxygen Vacancies in CaMnO₃ Thin Films. Nano Letters, 2017, 17, 794-799.	9.1	83
15	Inter-Layer Coupling Induced Valence Band Edge Shift in Mono- to Few-Layer MoS2. Scientific Reports, 2017, 7, 40559.	3.3	32
16	Magnetic Switching in Granular FePt Layers Promoted by Near-Field Laser Enhancement. Nano Letters, 2017, 17, 2426-2432.	9.1	22
17	Constructing oxide interfaces and heterostructures by atomic layer-by-layer laser molecular beam epitaxy. Npj Quantum Materials, 2017, 2, .	5.2	34
18	Effects of spin excitons on the surface states of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SmB</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:math> : A photoemission study. Physical Review B, 2016, 94, .	3.2	17

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19	Correlation-Driven Insulator-Metal Transition in Near-Ideal Vanadium Dioxide Films. Physical Review Letters, 2016, 116, 116403.	7.8	72
20	Superconductor to Mott insulator transition in YBa2Cu3O7/LaCaMnO3 heterostructures. Scientific Reports, 2016, 6, 33184.	3.3	10
21	Measurement of collective excitations in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>VO</mml:mtext><mml:mn>2</mml:mn></mml:msub> by resonant inelastic x-ray scattering. Physical Review B, 2016, 94, .	3.2	11
22	Progress toward time-resolved molecular imaging: A theoretical study of optimal parameters in static photoelectron holography. Physical Review A, 2014, 89, .	2.5	10
23	Future directions in standing-wave photoemission. Journal of Electron Spectroscopy and Related Phenomena, 2014, 195, 399-408.	1.7	30
24	Control of the metalâ€“insulator transition in vanadium dioxide by modifying orbital occupancy. Nature Physics, 2013, 9, 661-666.	16.7	448
25	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
26	Band offsets in complex-oxide thin films and heterostructures of SrTiO3/LaNiO3 and SrTiO3/GdTiO3 by soft and hard X-ray photoelectron spectroscopy. Journal of Applied Physics, 2013, 113, .	2.5	29
27	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
28	Electronic structure of delta-doped La:SrTiO₃ layers by hard x-ray photoelectron spectroscopy. Applied Physics Letters, 2012, 100, 261603.	3.3	25
29	Bulk electronic structure of the dilute magnetic semiconductor Ga1â^'xMnxAs through hard X-ray angle-resolved photoemission. Nature Materials, 2012, 11, 957-962.	27.5	117
30	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
31	Electronic Structure Changes across the Metamagnetic Transition in FeRh via Hard X-Ray Photoemission. Physical Review Letters, 2012, 108, 257208.	7.8	68
32	Temperature-driven nucleation of ferromagnetic domains in FeRh thin films. Applied Physics Letters, 2012, 100, .	3.3	79
33	Probing bulk electronic structure with hard X-ray angle-resolved photoemission. Nature Materials, 2011, 10, 759-764.	27.5	153
34	Electronic structure of EuO spin filter tunnel contacts directly on silicon. Physica Status Solidi - Rapid Research Letters, 2011, 5, 441-443.	2.4	28
35	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
36	Insulating state of ultrathin epitaxial LaNiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>thin films detected by hard x-ray photoemission. Physical Review B, 2011, 84, .	3.2	35

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37	Hard x-ray photoemission study of near-Heusler FexSi1â^'xalloys. Physical Review B, 2011, 83, .	3.2	13
38	Suppression of Near-Fermi Level Electronic States at the Interface in a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>LaNiO</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:msub><mml:msub><mml Physical Review Letters, 2011, 107, 116402.	7.8	39
39	Interface properties of magnetic tunnel junction<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>La</mml:mtext></mml:mrow><mml:mrow><mml:mn>0.7</mml:mn></mml:mrow><mml:m Physical Review B, 2010, 82, .	3.2	71
40	Standing-wave excited soft x-ray photoemission microscopy: Application to Co microdot magnetic arrays. Applied Physics Letters, 2010, 97, .	3.3	24
41	Band Gap and Electronic Structure of an Epitaxial, SemiconductingCr0.80Al0.20Thin Film. Physical Review Letters, 2010, 105, 236404.	7.8	12