Per-Anders Glans

List of Publications by Year
in descending order

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69 papers	3,546 citations	147801 31 h-index	133252 59 g-index
71 all docs	71 docs citations	71 times ranked	6889 citing authors

#	Article	IF	Citations
1	Electronic Structure of Monoclinic BiVO₄. Chemistry of Materials, 2014, 26, 5365-5373.	6.7	356
2	Properties of Disorder-Engineered Black Titanium Dioxide Nanoparticles through Hydrogenation. Scientific Reports, 2013, 3, 1510.	3.3	317
3	Electronic structure and chemical bonding of a graphene oxideâ€“sulfur nanocomposite for use in superior performance lithiumâ€“sulfur cells. Physical Chemistry Chemical Physics, 2012, 14, 13670.	2.8	305
4	Electronic structure of theÎ±andÎ´phases ofBi2O3: A combinedab initioand x-ray spectroscopy study. Physical Review B, 2006, 73, .	3.2	187
5	Understanding the Electrochemical Mechanism of K-Î±MnO₂ for Magnesium Battery Cathodes. ACS Applied Materials & Interfaces, 2014, 6, 7004-7008.	8.0	132
6	X-ray spectroscopic study of the electronic structure of visible-light responsive N-, C- and S-doped TiO2. Journal of Electron Spectroscopy and Related Phenomena, 2008, 162, 67-73.	1.7	119
7	In-situ X-ray Absorption Study of Evolution of Oxidation States and Structure of Cobalt in Co and CoPt Bimetallic Nanoparticles (4 nm) under Reducing (H₂) and Oxidizing (O₂) Environments. Nano Letters, 2011, 11, 847-853.	9.1	115
8	High-efficiency in situ resonant inelastic x-ray scattering (iRIXS) endstation at the Advanced Light Source. Review of Scientific Instruments, 2017, 88, 033106.	1.3	107
9	Experimental and theoretical study of the electronic structures of Î±-PbO and Î²-PbO2. Journal of Materials Chemistry, 2007, 17, 267-277.	6.7	104
10	Quantized Electron Accumulation States in Indium Nitride Studied by Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2006, 97, 237601.	7.8	103
11	In situ soft X-ray absorption spectroscopy investigation of electrochemical corrosion of copper in aqueous NaHCO3 solution. Electrochemistry Communications, 2010, 12, 820-822.	4.7	95
12	Effect of Electrolytic Properties of a Magnesium Organohaloaluminate Electrolyte on Magnesium Deposition. Journal of Physical Chemistry C, 2013, 117, 26881-26888.	3.1	93
13	Electronic structure of multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>BiFeO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> resonant soft x-ray emission spectroscopy. Physical Review B, 2008, 78, .	3.2	82
14	Unoccupied electronic states in graphite oxides. Chemical Physics Letters, 2008, 460, 499-502.	2.6	81
15	Observation of quantized subband states and evidence for surface electron accumulation in CdO from angle-resolved photoemission spectroscopy. Physical Review B, 2008, 78, .	3.2	75
16	Amorphous V₂O₅â€“P₂O₅ as high-voltage cathodes for magnesium batteries. Chemical Communications, 2015, 51, 15657-15660.	4.1	72
17	X-Ray absorption, photoemission spectroscopy, and Raman scattering analysis of amorphous tantalum oxide with a large extent of oxygen nonstoichiometry. Physical Chemistry Chemical Physics, 2011, 13, 17013.	2.8	68
18	High-resolution x-ray spectroscopic study of the electronic structure of the prototypicalp-type transparent conducting oxideCuAlO2. Physical Review B, 2005, 72, .	3.2	65

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19	Mg deposition observed by in situ electrochemical Mg K-edge X-ray absorption spectroscopy. Electrochemistry Communications, 2012, 24, 43-46.	4.7	64
20	Effect of Al³⁺ Co-doping on the Dopant Local Structure, Optical Properties, and Exciton Dynamics in Cu⁺-Doped ZnSe Nanocrystals. ACS Nano, 2013, 7, 8680-8692.	14.6	55
21	Experimental and theoretical study of the electronic structure of HgO andTl2O3. Physical Review B, 2005, 71, .	3.2	51
22	Towards understanding the electronic structure of Fe-doped CeO2 nanoparticles with X-ray spectroscopy. Physical Chemistry Chemical Physics, 2013, 15, 14701.	2.8	48
23	Material/element-dependent fluorescence-yield modes on soft X-ray absorption spectroscopy of cathode materials for Li-ion batteries. AIP Advances, 2016, 6, .	1.3	48
24	Electronic structure near the Fermi level of the organic semiconductor copper phthalocyanine. Chemical Physics Letters, 2004, 390, 203-207.	2.6	46
25	An ultra-high vacuum electrochemical flow cell for in situ/operando soft X-ray spectroscopy study. Review of Scientific Instruments, 2014, 85, 043106.	1.3	43
26	Effect of Mn Substitution for Multiferroic BiFeO₃ Probed by High-Resolution Soft-X-ray Spectroscopy. Japanese Journal of Applied Physics, 2008, 47, 7570.	1.5	38
27	Electron delocalization in cyanide-bridged coordination polymer electrodes for Li-ion batteries studied by soft x-ray absorption spectroscopy. Physical Review B, 2011, 84, .	3.2	38
28	Influence of crystal structure, ligand environment and morphology on CoL-edge XAS spectral characteristics in cobalt compounds. Journal of Synchrotron Radiation, 2015, 22, 1450-1458.	2.4	38
29	Comparative study of bandwidths in copper delafossites from x-ray emission spectroscopy. Physical Review B, 2009, 80, .	3.2	36
30	Interfacial Insight from Operando XAS/TEM for Magnesium Metal Deposition with Borohydride Electrolytes. Chemistry of Materials, 2017, 29, 7183-7188.	6.7	36
31	Perspectives of in situ/operando resonant inelastic X-ray scattering in catalytic energy materials science. Journal of Electron Spectroscopy and Related Phenomena, 2015, 200, 282-292.	1.7	34
32	Electronic structure study of ordering and interfacial interaction in graphene/Cu composites. Carbon, 2012, 50, 5316-5322.	10.3	32
33	Atomic-scale understanding of the electronic structure-crystal facets synergy of nanopyramidal CoPi/BiVO4 hybrid photocatalyst for efficient solar water oxidation. Nano Energy, 2018, 53, 483-491.	16.0	31
34	Understanding and Overcoming the Challenges Posed by Electrode/Electrolyte Interfaces in Rechargeable Magnesium Batteries. Frontiers in Energy Research, 2014, 2, .	2.3	29
35	Capturing interfacial photoelectrochemical dynamics with picosecond time-resolved X-ray photoelectron spectroscopy. Faraday Discussions, 2014, 171, 219-241.	3.2	28
36	On the involvement of the shallow core 5d level in the bonding in HgO. Chemical Physics Letters, 2004, 399, 98-101.	2.6	26

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37	Pentavalent and Tetravalent Uranium Selenides, Tl3Cu4USe6and Tl2Ag2USe4: Syntheses, Characterization, and Structural Comparison to Other Layered Actinide Chalcogenide Compounds. Inorganic Chemistry, 2011, 50, 6656-6666.	4.0	25
38	Room Temperature Ferromagnetism and Fast Ultraviolet Photoresponse of Inkjet-Printed Mn-Doped ZnO Thin Films. IEEE Transactions on Magnetics, 2010, 46, 2152-2155.	2.1	23
39	Probing the Interfacial Interaction in Layered-Carbon-Stabilized Iron Oxide Nanostructures: A Soft X-ray Spectroscopic Study. ACS Applied Materials & Interfaces, 2015, 7, 7863-7868.	8.0	23
40	Comprehensive electronic structure characterization of pristine and nitrogen/phosphorus doped carbon nanocages. Carbon, 2016, 103, 480-487.	10.3	23
41	X-ray spectroscopies studies of the 3d transition metal oxides and applications of photocatalysis. MRS Communications, 2017, 7, 53-66.	1.8	22
42	MoS2 for beyond lithium-ion batteries. APL Materials, 2021, 9, .	5.1	22
43	Anisotropic charge-transfer effects in the asymmetric Fe(CN)₅NO octahedron of sodium nitroprusside: a soft X-ray absorption spectroscopy study. Physical Chemistry Chemical Physics, 2014, 16, 7031-7036.	2.8	21
44	Investigation of the amorphous to crystalline phase transition of chemical solution deposited Pb(Zr0.3Ti0.7)O3 thin films by soft X-ray absorption and soft X-ray emission spectroscopy. Journal of Sol-Gel Science and Technology, 2008, 48, 239-252.	2.4	20
45	Electronic structure of InN studied using soft x-ray emission, soft x-ray absorption, and quasiparticle band structure calculations. Physical Review B, 2007, 76, .	3.2	18
46	Valence state fossils in Proterozoic stromatolites by Lâ€edge Xâ€ray absorption spectroscopy. Journal of Geophysical Research, 2007, 112, .	3.3	18
47	Large Chargeâ€Transfer Energy in LiFePO₄ Revealed by Fullâ€Multiplet Calculation for the Fe L₃â€edge Soft Xâ€ray Emission Spectra. ChemPhysChem, 2018, 19, 988-992.	2.1	13
48	Nuclear resonance fluorescence of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Np</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>237</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>. Physical Review C, 2010, 82, .	2.9	12
49	Disorder-induced Room Temperature Ferromagnetism in Glassy Chromites. Scientific Reports, 2015, 4, 4686.	3.3	12
50	p-f hybridization in the ferromagnetic semiconductor HoN. Applied Physics Letters, 2012, 100, 072108.	3.3	10
51	Interfacial interaction of gas molecules and single-walled carbon nanotubes. Applied Physics Letters, 2012, 100, .	3.3	10
52	A design of resonant inelastic X-ray scattering (RIXS) spectrometer for spatial- and time-resolved spectroscopy. Journal of Synchrotron Radiation, 2020, 27, 695-707.	2.4	10
53	Effects of domain size on x-ray absorption spectra of boron nitride doped graphenes. Applied Physics Letters, 2016, 109, .	3.3	9
54	Soft x-ray spectroscopy of high pressure liquid. Review of Scientific Instruments, 2018, 89, 013114.	1.3	9

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55	Developing soft X-ray spectroscopy for in situ characterization of nanocatalysts in catalytic reactions. Journal of Electron Spectroscopy and Related Phenomena, 2014, 197, 118-123.	1.7	8
56	Correlation between the Oâ€‰2p Orbital and Redox Reaction in LiMn_{0.6}Fe_{0.4}PO₄ Nanowires Studied by Soft Xâ€ray Absorption. ChemPhysChem, 2016, 17, 4110-4115.	2.1	7
57	In-situ/operando soft x-ray spectroscopy characterization of energy and catalytic materials. Solar Energy Materials and Solar Cells, 2020, 208, 110432.	6.2	7
58	Electronic structure in thin film organic semiconductors studied using soft X-ray emission and resonant inelastic X-ray scattering. Thin Solid Films, 2006, 515, 394-400.	1.8	4
59	Understanding the magnetic interaction between intrinsic defects and impurity ions in room-temperature ferromagnetic Mg1â^'xFexO thin films. Journal of Physics Condensed Matter, 2016, 28, 156002.	1.8	4
60	Surface Electronic Structure of BaZr_{1-x}Y_xO_{3-Î´} by Soft-X-Ray Spectroscopy. Transactions of the Materials Research Society of Japan, 2012, 37, 575-578.	0.2	4
61	Electronic Structure Study of Nanostructured Transition Metal Oxides Using Soft X-Ray Spectroscopy. , 0, , 123-142.		3
62	Electronic Structure of BaPr_{1-x}Yb_xO_{3-Î´} by Soft-X-Ray Spectroscopy. Transactions of the Materials Research Society of Japan, 2015, 40, 37-40.	0.2	3
63	Electronic Structure of PrFeAsO_{1â^'Î´}: An Investigation Using X-ray Absorption and Emission Spectroscopy. Journal of Physics: Conference Series, 2011, 273, 012092.	0.4	2
64	An Advanced Materials Beamline for Energy Research (AMBER). Synchrotron Radiation News, 2017, 30, 41-43.	0.8	2
65	In situ/operando soft x-ray spectroscopy of chemical interfaces in gas and liquid environments. MRS Bulletin, 2021, 46, 747-754.	3.5	2
66	In-situ/operando soft x-ray spectroscopy characterization of interfacial phenomena in energy materials and devices. , 2015, , .		1
67	Electronic surface reconstruction of TiO2 nanocrystals revealed by resonant inelastic x-ray scattering. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, .	2.1	1
68	Electronic Structure of BiFe_{1-x}M_xO₃ (M=Mn and) Tj ETQq0 0 0 rgBT /Overlock 10 2012, 37, 77-80.	0.2	0
69	Operando Soft X-ray Spectroscopy Probing Chemical Transformation in Space and Time. Microscopy and Microanalysis, 2021, 27, 61-62.	0.4	0