

Per-Anders Glans

List of Publications by Year in descending order

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papers

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citations

147566

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59
g-index

71
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71
docs citations

71
times ranked

6889
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic Structure of Monoclinic BiVO ₄ . Chemistry of Materials, 2014, 26, 5365-5373.	3.2	356
2	Properties of Disorder-Engineered Black Titanium Dioxide Nanoparticles through Hydrogenation. Scientific Reports, 2013, 3, 1510.	1.6	317
3	Electronic structure and chemical bonding of a graphene oxide-sulfur nanocomposite for use in superior performance lithium-sulfur cells. Physical Chemistry Chemical Physics, 2012, 14, 13670.	1.3	305
4	Electronic structure of the δ and γ phases of Bi ₂ O ₃ : A combined ab initio and x-ray spectroscopy study. Physical Review B, 2006, 73, .	1.1	187
5	Understanding the Electrochemical Mechanism of K δ MnO ₂ for Magnesium Battery Cathodes. ACS Applied Materials & Interfaces, 2014, 6, 7004-7008.	4.0	132
6	X-ray spectroscopic study of the electronic structure of visible-light responsive N-, C- and S-doped TiO ₂ . Journal of Electron Spectroscopy and Related Phenomena, 2008, 162, 67-73.	0.8	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 (H ₂) and Oxidizing (O ₂) Environments. Nano Letters, 2011, 11, 847-853.	4.5	115
8	High-efficiency <i>in situ</i> resonant inelastic x-ray scattering (iRIXS) endstation at the Advanced Light Source. Review of Scientific Instruments, 2017, 88, 033106.	0.6	107
9	Experimental and theoretical study of the electronic structures of δ -PbO and γ -PbO ₂ . 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.	2.9	103
11	In situ soft X-ray absorption spectroscopy investigation of electrochemical corrosion of copper in aqueous NaHCO ₃ solution. Electrochemistry Communications, 2010, 12, 820-822.	2.3	95
12	Effect of Electrolytic Properties of a Magnesium Organohaloaluminate Electrolyte on Magnesium Deposition. Journal of Physical Chemistry C, 2013, 117, 26881-26888.	1.5	93
13	Electronic structure of multiferroic BiFeO_3 resonant soft x-ray emission spectroscopy. Physical Review B, 2008, 78, .		
14	Unoccupied electronic states in graphite oxides. Chemical Physics Letters, 2008, 460, 499-502.	1.2	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, .	1.1	75
16	Amorphous V ₂ O ₅ -P ₂ O ₅ as high-voltage cathodes for magnesium batteries. Chemical Communications, 2015, 51, 15657-15660.	2.2	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.	1.3	68
18	High-resolution x-ray spectroscopic study of the electronic structure of the prototypical p-type transparent conducting oxide CuAlO ₂ . Physical Review B, 2005, 72, .	1.1	65

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19	Mg deposition observed by in situ electrochemical Mg K-edge X-ray absorption spectroscopy. <i>Electrochemistry Communications</i> , 2012, 24, 43-46.	2.3	64
20	Effect of Al ³⁺ Co-doping on the Dopant Local Structure, Optical Properties, and Exciton Dynamics in Cu ⁺ -Doped ZnSe Nanocrystals. <i>ACS Nano</i> , 2013, 7, 8680-8692.	7.3	55
21	Experimental and theoretical study of the electronic structure of HgO and Ti ₂ O ₃ . <i>Physical Review B</i> , 2005, 71, .	1.1	51
22	Towards understanding the electronic structure of Fe-doped CeO ₂ nanoparticles with X-ray spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 14701.	1.3	48
23	Material/element-dependent fluorescence-yield modes on soft X-ray absorption spectroscopy of cathode materials for Li-ion batteries. <i>AIP Advances</i> , 2016, 6, .	0.6	48
24	Electronic structure near the Fermi level of the organic semiconductor copper phthalocyanine. <i>Chemical Physics Letters</i> , 2004, 390, 203-207.	1.2	46
25	An ultra-high vacuum electrochemical flow cell for in situ/operando soft X-ray spectroscopy study. <i>Review of Scientific Instruments</i> , 2014, 85, 043106.	0.6	43
26	Effect of Mn Substitution for Multiferroic BiFeO ₃ Probed by High-Resolution Soft-X-ray Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 7570.	0.8	38
27	Electron delocalization in cyanide-bridged coordination polymer electrodes for Li-ion batteries studied by soft x-ray absorption spectroscopy. <i>Physical Review B</i> , 2011, 84, .	1.1	38
28	Influence of crystal structure, ligand environment and morphology on Co L-edge XAS spectral characteristics in cobalt compounds. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 1450-1458.	1.0	38
29	Comparative study of bandwidths in copper delafossites from x-ray emission spectroscopy. <i>Physical Review B</i> , 2009, 80, .	1.1	36
30	Interfacial Insight from Operando XAS/TEM for Magnesium Metal Deposition with Borohydride Electrolytes. <i>Chemistry of Materials</i> , 2017, 29, 7183-7188.	3.2	36
31	Perspectives of in situ/operando resonant inelastic X-ray scattering in catalytic energy materials science. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015, 200, 282-292.	0.8	34
32	Electronic structure study of ordering and interfacial interaction in graphene/Cu composites. <i>Carbon</i> , 2012, 50, 5316-5322.	5.4	32
33	Atomic-scale understanding of the electronic structure-crystal facets synergy of nanopyramidal CoPi/BiVO ₄ hybrid photocatalyst for efficient solar water oxidation. <i>Nano Energy</i> , 2018, 53, 483-491.	8.2	31
34	Understanding and Overcoming the Challenges Posed by Electrode/Electrolyte Interfaces in Rechargeable Magnesium Batteries. <i>Frontiers in Energy Research</i> , 2014, 2, .	1.2	29
35	Capturing interfacial photoelectrochemical dynamics with picosecond time-resolved X-ray photoelectron spectroscopy. <i>Faraday Discussions</i> , 2014, 171, 219-241.	1.6	28
36	On the involvement of the shallow core 5d level in the bonding in HgO. <i>Chemical Physics Letters</i> , 2004, 399, 98-101.	1.2	26

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37	Pentavalent and Tetravalent Uranium Selenides, $Tl_3Cu_4USe_6$ and $Tl_2Ag_2USe_4$: Syntheses, Characterization, and Structural Comparison to Other Layered Actinide Chalcogenide Compounds. <i>Inorganic Chemistry</i> , 2011, 50, 6656-6666.	1.9	25
38	Room Temperature Ferromagnetism and Fast Ultraviolet Photoresponse of Inkjet-Printed Mn-Doped ZnO Thin Films. <i>IEEE Transactions on Magnetics</i> , 2010, 46, 2152-2155.	1.2	23
39	Probing the Interfacial Interaction in Layered-Carbon-Stabilized Iron Oxide Nanostructures: A Soft X-ray Spectroscopic Study. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7863-7868.	4.0	23
40	Comprehensive electronic structure characterization of pristine and nitrogen/phosphorus doped carbon nanocages. <i>Carbon</i> , 2016, 103, 480-487.	5.4	23
41	X-ray spectroscopies studies of the 3d transition metal oxides and applications of photocatalysis. <i>MRS Communications</i> , 2017, 7, 53-66.	0.8	22
42	MoS ₂ for beyond lithium-ion batteries. <i>APL Materials</i> , 2021, 9, .	2.2	22
43	Anisotropic charge-transfer effects in the asymmetric $Fe(CN)_5NO$ octahedron of sodium nitroprusside: a soft X-ray absorption spectroscopy study. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 7031-7036.	1.3	21
44	Investigation of the amorphous to crystalline phase transition of chemical solution deposited $Pb(Zr_{0.3}Ti_{0.7})O_3$ thin films by soft X-ray absorption and soft X-ray emission spectroscopy. <i>Journal of Sol-Gel Science and Technology</i> , 2008, 48, 239-252.	1.1	20
45	Electronic structure of InN studied using soft x-ray emission, soft x-ray absorption, and quasiparticle band structure calculations. <i>Physical Review B</i> , 2007, 76, .	1.1	18
46	Valence state fossils in Proterozoic stromatolites by $L\alpha$ X-ray absorption spectroscopy. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	18
47	Large Charge-Transfer Energy in $LiFePO_4$ Revealed by Full-Multiplet Calculation for the $Fe\ L_{2,3}$ Soft X-ray Emission Spectra. <i>ChemPhysChem</i> , 2018, 19, 988-992.	1.0	13
48	Nuclear resonance fluorescence of ^{237}Np . <i>Physical Review C</i> , 2010, 82, .	1.1	12
49	Disorder-induced Room Temperature Ferromagnetism in Glassy Chromites. <i>Scientific Reports</i> , 2015, 4, 4686.	1.6	12
50	p-f hybridization in the ferromagnetic semiconductor HoN. <i>Applied Physics Letters</i> , 2012, 100, 072108.	1.5	10
51	Interfacial interaction of gas molecules and single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	10
52	A design of resonant inelastic X-ray scattering (RIXS) spectrometer for spatial- and time-resolved spectroscopy. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 695-707.	1.0	10
53	Effects of domain size on x-ray absorption spectra of boron nitride doped graphenes. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	9
54	Soft x-ray spectroscopy of high pressure liquid. <i>Review of Scientific Instruments</i> , 2018, 89, 013114.	0.6	9

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55	Developing soft X-ray spectroscopy for in situ characterization of nanocatalysts in catalytic reactions. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2014, 197, 118-123.	0.8	8
56	Correlation between the O 2p Orbital and Redox Reaction in LiMn _{0.6} Fe _{0.4} PO ₄ Nanowires Studied by Soft X-ray Absorption. <i>ChemPhysChem</i> , 2016, 17, 4110-4115.	1.0	7
57	In-situ/operando soft x-ray spectroscopy characterization of energy and catalytic materials. <i>Solar Energy Materials and Solar Cells</i> , 2020, 208, 110432.	3.0	7
58	Electronic structure in thin film organic semiconductors studied using soft X-ray emission and resonant inelastic X-ray scattering. <i>Thin Solid Films</i> , 2006, 515, 394-400.	0.8	4
59	Understanding the magnetic interaction between intrinsic defects and impurity ions in room-temperature ferromagnetic Mg _{1-x} Fe _x O thin films. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 156002.	0.7	4
60	Surface Electronic Structure of BaZr _{1-x} Y _x O _{3-δ} by Soft-X-Ray Spectroscopy. <i>Transactions of the Materials Research Society of Japan</i> , 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 _x O _{3-δ} by Soft-X-Ray Spectroscopy. <i>Transactions of the Materials Research Society of Japan</i> , 2015, 40, 37-40.	0.2	3
63	Electronic Structure of PrFeAsO _{1-x} : An Investigation Using X-ray Absorption and Emission Spectroscopy. <i>Journal of Physics: Conference Series</i> , 2011, 273, 012092.	0.3	2
64	An Advanced Materials Beamline for Energy Research (AMBER). <i>Synchrotron Radiation News</i> , 2017, 30, 41-43.	0.2	2
65	In situ/operando soft x-ray spectroscopy of chemical interfaces in gas and liquid environments. <i>MRS Bulletin</i> , 2021, 46, 747-754.	1.7	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 TiO ₂ nanocrystals revealed by resonant inelastic x-ray scattering. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021, 39, .	0.9	1
68	Electronic Structure of BiFe _{1-x} M _x O ₃ (M=Mn and Tj ETQq0 0 0 rgBT /Overlock 10	0.2	0
69	Operando Soft X-ray Spectroscopy Probing Chemical Transformation in Space and Time. <i>Microscopy and Microanalysis</i> , 2021, 27, 61-62.	0.2	0