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Soft-x-ray spectroscopy measurements of the p-like density of states of B in MgB<sub>2</sub> and evidence for surface boron oxides on exposed surfaces

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#	Paper	IF	Citations
46	Soft x-ray spectroscopy experiments on the near K-edge of B in MB <sub>2</sub> (M=Mg, Al, Ta, and Nb). <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	34
45	Experimental verification of the electronic structure of MgB <sub>2</sub> using electron energy-loss spectroscopy. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 3491-3493	3.4	7
44	Ab initio investigation of collective charge excitations in MgB <sub>2</sub> . <i>Physical Review Letters</i> , <b>2002</b> , 88, 057001	7.4	47
43	Degradation of MgB <sub>2</sub> under ambient environment. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 4401-4403	3.4	21
42	Electron energy-loss spectroscopy characterization of the boron p-like density of states in MgB <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2002</b> , 80, 778-780	3.4	8
41	Unraveling the symmetry of the hole states near the Fermi level in the MgB <sub>2</sub> superconductor. <i>Physical Review Letters</i> , <b>2002</b> , 88, 247002	7.4	36
40	Occupied density of states in MgB <sub>2</sub> revealed by photoemission microscopy. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	12
39	Polarized x-ray emission and absorption spectra of MgB <sub>2</sub> . <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	5
38	Electronic structure of MgB <sub>2</sub> : X-ray emission and absorption studies. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	34
37	X-RAY ABSORPTION STUDY OF Mg <sub>1-x</sub> Al <sub>x</sub> B <sub>2</sub> AT B K-EDGE. <i>International Journal of Modern Physics B</i> , <b>2002</b> , 16, 1619-1626	1.1	3
36	STUDY OF ELECTRONIC STRUCTURE OF MgB <sub>2</sub> BY MULTIPLE-SCATTERING CALCULATIONS OF B K-EDGE XANES. <i>International Journal of Modern Physics B</i> , <b>2002</b> , 16, 1605-1612	1.1	1
35	Electronic Structure of B-2p State in AlB <sub>2</sub> Single Crystal: Direct Observation of p-Density of States. <i>Journal of the Physical Society of Japan</i> , <b>2002</b> , 71, 408-410	1.5	17
34	Band structure and properties of superconducting MgB <sub>2</sub> and related compounds (A review). <i>Physics of the Solid State</i> , <b>2003</b> , 45, 1829-1859	0.8	64
33	Electronic structure of B 2p and p states in MgB <sub>2</sub> , AlB <sub>2</sub> , and ZrB <sub>2</sub> single crystals. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	16
32	X-ray absorption and optical spectroscopy studies of (Mg <sub>1-x</sub> Al <sub>x</sub> )B <sub>2</sub> . <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	13
31	Angle-resolved soft x-ray spectroscopy study of the electronic states of single-crystal MgB <sub>2</sub> . <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	12
30	Comparative study of the electronic structure of MgB <sub>2</sub> and ZrB <sub>2</sub> . <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	16

29	A multichannel superconducting tunnel junction detector for high-resolution X-ray spectroscopy of magnesium diboride films. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2003</b> , 13, 1114-1119	1.8	7
28	BK Emission Spectra for MgB <sub>2</sub> and Al-doped MgB <sub>2</sub> . <i>Journal of the Physical Society of Japan</i> , <b>2003</b> , 72, 1810-1812		
27	Valence-electron distribution in MgB <sub>2</sub> by accurate diffraction measurements and first-principles calculations. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	38
26	Chemical shifts in the x-ray emission spectra of MgB <sub>2</sub> and their correlation with the electronic structure. <i>Physics of the Solid State</i> , <b>2004</b> , 46, 1994-1997	0.8	1
25	Electronic structure of lanthanum calcium oxoborate LaCa <sub>4</sub> O(BO <sub>3</sub> ) <sub>3</sub> . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2004</b> , 137-140, 541-546	1.7	16
24	Core level photoemission study of polycrystalline MgB <sub>2</sub> . <i>Solid State Communications</i> , <b>2004</b> , 131, 343-347	1.6	25
23	X-ray Fluorescence Spectroscopy of Novel Materials. <i>Inorganic Materials</i> , <b>2005</b> , 41, S1-S23	0.9	5
22	Local Electronic Structure of MgB <sub>2</sub> by X-Ray Raman Scattering at the Boron K Edge. <i>Physical Review Letters</i> , <b>2005</b> , 94,	7.4	31
21	CHARACTERIZATION OF 3D TRANSITION-METAL DIBORIDES BY X-RAY-ABSORPTION SPECTRA AT THE METAL K EDGE. <i>International Journal of Modern Physics B</i> , <b>2005</b> , 19, 2386-2391	1.1	5
20	X-ray absorption spectroscopic study of a hot pressed MgB <sub>2</sub> . <i>Solid State Communications</i> , <b>2006</b> , 137, 97-100	1.6	10
19	X-ray photoelectron spectroscopy studies of non-stoichiometric superconducting NbB <sub>2+x</sub> . <i>Superconductor Science and Technology</i> , <b>2006</b> , 19, 623-628	3.1	20
18	SOFT X-RAY ABSORPTION SPECTROSCOPY OF THE MgB <sub>2</sub> BORON K EDGE IN AN MgB <sub>2</sub> /Mg COMPOSITE. <i>Modern Physics Letters B</i> , <b>2006</b> , 20, 1207-1216	1.6	3
17	Elastic properties of superconducting NbB <sub>2+x</sub> obtained from first-principles calculations. <i>Journal of Physics Condensed Matter</i> , <b>2007</b> , 19, 376209	1.8	12
16	Superconductivity of MgB <sub>2</sub> in the BCS framework with emphasis on extrinsic effects on critical temperature. <i>Superconductor Science and Technology</i> , <b>2007</b> , 20, R31-R45	3.1	30
15	Electron-hole counts in Al-substituted MgB <sub>2</sub> superconductors from x-ray Raman scattering. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	3
14	Synthesis of Uniform Diameter Boron-Based Nanostructures Using a Mesoporous MgAl <sub>2</sub> O <sub>3</sub> Template and Tests for Superconductivity. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 17661-17668	3.8	6
13	High resolution <sup>11</sup> B NMR of magnesium diboride using cryogenic magic angle spinning. <i>Journal of Chemical Physics</i> , <b>2012</b> , 137, 114201	3.9	9
12	Templated one-step catalytic fabrication of uniform diameter Mg <sub>x</sub> By nanostructures. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 2568	7.1	2

11	Correlation-Enhanced Electron-Phonon Coupling: Applications of GW and Screened Hybrid Functional to Bismuthates, Chloronitrides, and Other High-Tc Superconductors. <i>Physical Review X</i> , <b>2013</b> , 3,	9.1	72
10	Electronic structure of LBO and BBO as revealed by boron and oxygen RIXS spectra. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2013</b> , 188, 32-37	1.7	1
9	Electronic Structure of Single-Crystalline Mg <sub>x</sub> Al <sub>1-x</sub> B <sub>2</sub> Probed by X-ray Diffraction Multipole Refinements and Polarization-Dependent X-ray Absorption Spectroscopy. <i>Journal of the Physical Society of Japan</i> , <b>2014</b> , 83, 024714	1.5	5
8	Interface structure in nanoscale multilayers near continuous-to-discontinuous regime. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 045308	2.5	15
7	Chelation assisted exfoliation of layered borides towards synthesizing boron based nanosheets. <i>RSC Advances</i> , <b>2017</b> , 7, 1905-1914	3.7	30
6	Elucidating the mechanism of MgB initial hydrogenation via a combined experimental-theoretical study. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 22646-22658	3.6	16
5	Soft X-Ray Fluorescence Spectroscopy. <b>2018</b> , 1-25		
4	Electronic structure and surface properties of MgB <sub>2</sub> (0001) upon oxygen adsorption. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	4
3	The spatial inhomogeneity and X-ray absorption spectroscopy of superconducting nanocrystalline boron doped diamond films. <i>Applied Surface Science</i> , <b>2019</b> , 466, 498-502	6.7	
2	Spontaneous dynamical disordering of borophenes in MgB and related metal borides. <i>Nature Communications</i> , <b>2021</b> , 12, 6268	17.4	2
1	Correlation between T and local structure of MgB <sub>2</sub> with ZnO buffer layer: X-ray absorption fine structure study. <b>2022</b> , 645, 414234		1