

Ernst Z Kurmaev

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ext. papers

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L-index

#	Paper	IF	Citations
435	Mn 3s exchange splitting in mixed-valence manganites. <i>Physical Review B</i> , 2002 , 65,	3.3	407
434	Probing the Intrinsic Thermal and Photochemical Stability of Hybrid and Inorganic Lead Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1211-1218	6.4	160
433	Oxygen x-ray emission and absorption spectra as a probe of the electronic structure of strongly correlated oxides. <i>Physical Review B</i> , 2008 , 77,	3.3	121
432	Local moments in Mn-based Heusler alloys and their electronic structures. <i>Physical Review B</i> , 1999 , 60, 6428-6438	3.3	121
431	Oxygen-vacancy-induced ferromagnetism in undoped SnO ₂ thin films. <i>Physical Review B</i> , 2012 , 85,	3.3	112
430	Electronic structure of titanium monoxide. <i>Physical Review B</i> , 1997 , 56, 10656-10667	3.3	101
429	Valence-band spectra and electronic structure of CuFeO ₂ . <i>Physical Review B</i> , 1997 , 56, 4584-4591	3.3	96
428	Effect of Co and O defects on the magnetism in Co-doped ZnO: Experiment and theory. <i>Physical Review B</i> , 2007 , 75,	3.3	93
427	Photoemission study of the metal-insulator transition in Cu ₂ S ₄ . <i>Physical Review B</i> , 1997 , 55, R15979-R15982	3.3	85
426	Band-structure description of Mott insulators (NiO, MnO, FeO, CoO). <i>Journal of Physics Condensed Matter</i> , 1990 , 2, 3973-3987	1.8	71
425	Band gaps and electronic structure of alkaline-earth and post-transition-metal oxides. <i>Physical Review B</i> , 2010 , 81,	3.3	70
424	Epoxide Speciation and Functional Group Distribution in Graphene Oxide Paper-Like Materials. <i>Advanced Functional Materials</i> , 2012 , 22, 3950-3957	15.6	65
423	The Metallic Nature of Epitaxial Silicene Monolayers on Ag(111). <i>Advanced Functional Materials</i> , 2014 , 24, 5253-5259	15.6	61
422	FeAs systems: a new class of high-temperature superconductors. <i>Physics-Uspekhi</i> , 2008 , 51, 1261-1286	2.8	60
421	Degree of covalency of LiCoO ₂ : X-ray emission and photoelectron study. <i>Solid State Communications</i> , 1996 , 99, 221-224	1.6	55
420	Light or Heat: What Is Killing Lead Halide Perovskites under Solar Cell Operation Conditions?. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 333-339	6.4	54
419	Electronic structure of BiMO ₃ multiferroics and related oxides. <i>Physical Review B</i> , 2010 , 81,	3.3	52

4 ¹⁸	Electronic structure of studied by x-ray photoelectron and x-ray emission spectroscopies. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 4081-4091	1.8	52
4 ¹⁷	Valence Band Structure and X-ray Spectra of Oxygen-Deficient Ferrites SrFeOx. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 5154-5159	3.8	51
4 ¹⁶	Electronic structure of CoxTiSe2 and CrxTiSe2. <i>Physical Review B</i> , 2001 , 63,	3.3	51
4 ¹⁵	Appearance of Ferromagnetism in Co-Doped CeO2 Diluted Magnetic Semiconductors Prepared by Solid-State Reaction. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 1556-1560	3.8	50
4 ¹⁴	Electronic structure of the nucleobases. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 7749-57	3.4	50
4 ¹³	Characterization of Carbon-Encapsulated Nickel and Iron Nanoparticles by Means of X-ray Absorption and Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 22413-22416	3.8	47
4 ¹²	The L2:L3 intensity ratio in soft X-ray emission spectra of 3d-metals. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005 , 148, 1-4	1.7	46
4 ¹¹	Hexaazatriphenylene-based polymer cathode for fast and stable lithium-, sodium- and potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22596-22603	13	46
4 ¹⁰	Origin of magnetic circular dichroism in soft x-ray fluorescence of Heusler alloys at threshold excitation. <i>Physical Review B</i> , 2001 , 63,	3.3	45
4 ⁰⁹	Valence states of copper ions and electronic structure of LiCu2O2. <i>Physical Review B</i> , 1998 , 57, 4377-4383	3.3	45
4 ⁰⁸	High-Energy and High-Power-Density Potassium Ion Batteries Using Dihydrophenazine-Based Polymer as Active Cathode Material. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5440-5445	6.4	44
4 ⁰⁷	Structural and Band Gap Investigation of GaN:ZnO Heterojunction Solid Solution Photocatalyst Probed by Soft X-ray Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 7694-7700	3.8	44
4 ⁰⁶	Metal-insulator transition in NiS2. <i>Physical Review B</i> , 2010 , 81,	3.3	44
4 ⁰⁵	Electronic structure, charge transfer, and intrinsic luminescence of gadolinium oxide nanoparticles: Experiment and theory. <i>Applied Surface Science</i> , 2018 , 436, 697-707	6.7	43
4 ⁰⁴	Band Gap Tuning in Poly(triazine imide), a Nonmetallic Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 8806-8812	3.8	42
4 ⁰³	Experimental and theoretical investigation of the electronic structure of transition metal sulphides: CuS, and. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 1687-1697	1.8	42
4 ⁰²	Electronic structure of a Mn12 molecular magnet: Theory and experiment. <i>Physical Review B</i> , 2007 , 75,	3.3	41
4 ⁰¹	Electronic structure and bonding in vitamin B12, cyanocobalamin. <i>Computational and Theoretical Chemistry</i> , 2003 , 622, 221-227		41

400	X-ray spectra and electronic structures of the iron arsenide superconductors RFeAsO _{1-x} F _x (R=La,Sm). <i>Physical Review B</i> , 2008 , 78,	3.3	40
399	Band approach to the excitation-energy dependence of x-ray fluorescence of TiO ₂ . <i>Physical Review B</i> , 1999 , 60, 2212-2217	3.3	40
398	Band gap engineering of graphene oxide by chemical modification. <i>Carbon</i> , 2014 , 75, 366-371	10.4	39
397	Strength of correlations in pnictides and its assessment by theoretical calculations and spectroscopy experiments. <i>Physica C: Superconductivity and Its Applications</i> , 2009 , 469, 442-447	1.3	39
396	Interlayer conduction band states in graphite-sulfur composites. <i>Physical Review B</i> , 2002 , 66,	3.3	39
395	The characterization of Co-nanoparticles supported on graphene. <i>RSC Advances</i> , 2015 , 5, 75600-75606	3.7	37
394	Surface characterisation and corrosion behaviour of niobium treated in a Ca- and P-containing solution under sparking conditions. <i>Electrochimica Acta</i> , 2016 , 198, 91-103	6.7	36
393	X-ray emission spectra and chemical bonding in TiC, TiN and TiO. <i>Journal of Physics and Chemistry of Solids</i> , 1977 , 38, 201-212	3.9	36
392	Nickel(II) and Copper(II) Coordination Polymers Derived from 1,2,4,5-Tetraaminobenzene for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2019 , 31, 5197-5205	9.6	34
391	Electronic structure of MgB ₂ : X-ray emission and absorption studies. <i>Physical Review B</i> , 2002 , 65,	3.3	34
390	Modification of a TiMo alloy surface via plasma electrolytic oxidation in a solution containing calcium and phosphorus. <i>Electrochimica Acta</i> , 2013 , 96, 180-190	6.7	33
389	Effect of 3d doping on the electronic structure of BaFe ₂ As ₂ . <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 215501	1.8	33
388	Half-metallic electronic structure of CrO ₂ in resonant scattering. <i>Physical Review B</i> , 2003 , 67,	3.3	33
387	Effect of Co doping on the electronic structure of MgCNi ₃ . <i>Physical Review B</i> , 2002 , 66,	3.3	32
386	Electronic structure of LiNiO ₂ , LiFeO ₂ and LiCrO ₂ : X-ray photoelectron and X-ray emission study. <i>Solid State Communications</i> , 1995 , 95, 347-351	1.6	32
385	Influence of process parameters on plasma electrolytic surface treatment of tantalum for biomedical applications. <i>Applied Surface Science</i> , 2017 , 407, 52-63	6.7	31
384	Room-temperature ferromagnetism via unpaired dopant electrons and p-d coupling in carbon-doped In ₂ O ₃ : Experiment and theory. <i>Physical Review B</i> , 2012 , 86,	3.3	31
383	X-ray fluorescent spectrometer with linear position sensitive detector. <i>Nuclear Instruments & Methods in Physics Research</i> , 1984 , 224, 117-119		31

382	X-ray emission spectra and electronic structure of amorphous silicon. <i>Journal of Non-Crystalline Solids</i> , 1985 , 70, 187-198	3.9	31
381	X-ray emission spectra and electronic structure of VO, VN, VC. <i>Journal of Physics and Chemistry of Solids</i> , 1975 , 36, 861-869	3.9	31
380	Surface characterisation of Ti-15Mo alloy modified by a PEO process in various suspensions. <i>Materials Science and Engineering C</i> , 2014 , 39, 259-72	8.3	30
379	Observation of magnetic splitting in XPS MnL-spectra of Co ₂ MnSn and Pd ₂ MnSn Heusler alloys. <i>European Physical Journal B</i> , 1998 , 2, 1-3	1.2	30
378	Soft X-ray emission spectroscopy of early transition metal compounds. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1998 , 92, 197-205	1.7	30
377	Electronic structure and chemical bonding in nonstoichiometric compounds of refractory transition metals of the IVa and Va subgroups. <i>Journal of the Less Common Metals</i> , 1981 , 78, 1-17		30
376	Sn-loss effect in a Sn-implanted a-SiO ₂ host-matrix after thermal annealing: A combined XPS, PL, and DFT study. <i>Applied Surface Science</i> , 2016 , 367, 320-326	6.7	29
375	Adjacent Fe-Vacancy Interactions as the Origin of Room Temperature Ferromagnetism in (In _{1-x} Fe _x) ₂ O ₃ . <i>Physical Review Letters</i> , 2015 , 115, 167401	7.4	29
374	High-Tc Superconductors Based on FeAs Compounds. <i>Springer Series in Materials Science</i> , 2010 ,	0.9	29
373	Electronic structure of magnetic molecules V15: LSDA+U calculations, x-ray emissions, and photoelectron spectra. <i>Physical Review B</i> , 2003 , 67,	3.3	29
372	Studies of Solid Interfaces Using Soft X-ray Emission Spectroscopy. <i>Critical Reviews in Solid State and Materials Sciences</i> , 1998 , 23, 65-203	10.1	29
371	Unraveling the Impact of Hole Transport Materials on Photostability of Perovskite Films and p-i-n Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 19161-19173	9.5	28
370	Electronic structure of Sr ₂ RuO ₄ : X-ray fluorescence emission study. <i>Physical Review B</i> , 1998 , 57, 1558-1563	5.3	28
369	X-ray emission spectra of carbon materials. <i>Carbon</i> , 1986 , 24, 249-253	10.4	28
368	Intrinsic thermal decomposition pathways of lead halide perovskites APbX ₃ . <i>Solar Energy Materials and Solar Cells</i> , 2020 , 213, 110559	6.4	27
367	Electronic structure and valence-band spectra of FeBO ₃ . <i>Physical Review B</i> , 1994 , 50, 14849-14854	3.3	27
366	Effects of NH ₃ , O ₂ , and N ₂ co-implantation on Cu out-diffusion and antimicrobial properties of copper plasma-implanted polyethylene. <i>Applied Surface Science</i> , 2007 , 253, 8981-8985	6.7	26
365	Testing the magnetism of polymerized fullerene. <i>Physical Review B</i> , 2004 , 69,	3.3	26

364	Electronic structure of CuV ₂ S ₄ . <i>Physical Review B</i> , 1996 , 53, 9626-9633	3.3	26
363	Electronic valence band structure of high-T _c superconductors: X-ray emission spectroscopy study. <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 177, 8-16	1.3	26
362	Efficient and Stable MAPbI ₃ -Based Perovskite Solar Cells Using Polyvinylcarbazole Passivation. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 6772-6778	6.4	26
361	Contribution of Fe 3d states to the Fermi level of CaFe ₂ As ₂ . <i>Physical Review B</i> , 2009 , 80,	3.3	25
360	Electronic structure and x-ray spectra of defective oxides Li _x CoO ₂ . <i>Physical Review B</i> , 2006 , 74,	3.3	25
359	X-ray emission bands and electronic structure of crystalline and vitreous silica (SiO ₂). <i>Journal of Physics C: Solid State Physics</i> , 1985 , 18, 4393-4402		25
358	The electronic structure, x-ray photoelectron and emission spectra of YOF. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1980 , 18, 227-233	1.7	25
357	Atomic and electronic structures of stable linear carbon chains on Ag-nanoparticles. <i>Carbon</i> , 2018 , 128, 296-301	10.4	25
356	Influence of electropolishing and anodic oxidation on morphology, chemical composition and corrosion resistance of niobium. <i>Materials Science and Engineering C</i> , 2014 , 42, 529-37	8.3	24
355	The electronic structure and chemical bonding of vitamin B 12. <i>Europhysics Letters</i> , 2003 , 62, 582-587	1.6	24
354	Electronic structure and thermoelectric properties of skutterudite compounds. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 979-987	1.8	24
353	Electronic structure of alkali-metal-doped M ₈ Si ₄₆ (M=Na,K) clathrates. <i>Physical Review B</i> , 2002 , 65,	3.3	24
352	Electronic structure of niobium oxides. <i>Journal of Alloys and Compounds</i> , 2002 , 347, 213-218	5.7	24
351	X-ray emission and photoelectron spectra of Pr _{0.5} Sr _{0.5} MnO ₃ . <i>Physical Review B</i> , 1999 , 59, 12799-12806	3.3	24
350	Soft electronic structure modulation of surface (thin-film) and bulk (ceramics) morphologies of TiO ₂ -host by Pb-implantation: XPS-and-DFT characterization. <i>Applied Surface Science</i> , 2017 , 400, 110-117	6.7	23
349	Study of the Structural Characteristics of 3d Metals Cr, Mn, Fe, Co, Ni, and Cu Implanted in ZnO and TiO ₂ Experiment and Theory. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 28143-28151	3.8	23
348	Carbon States in Carbon-Encapsulated Nickel Nanoparticles Studied by Means of X-ray Absorption, Emission, and Photoelectron Spectroscopies. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 24615-24620	3.8	23
347	Valence states of titanium atoms in non-stoichiometric carbides: X-ray emission spectra and cluster calculations. <i>Journal of Physics C: Solid State Physics</i> , 1981 , 14, 5567-5574		23

346	XPS and DFT study of pulsed Bi-implantation of bulk and thin-films of ZnO. The role of oxygen imperfections. <i>Applied Surface Science</i> , 2016 , 387, 1093-1099	6.7	23
345	Analysis of oxyanion (BO 3B , CO 2B , SO 2B , PO 3B , SeO 4-4) substitution in Y123 compounds studied by X-ray photoelectron spectroscopy. <i>Journal of Superconductivity and Novel Magnetism</i> , 1996 , 9, 97-100		22
344	X-ray Ce LIII absorption in CeO2 and BaCeO3: experiment and interpretation on the basis of LMTO band structure calculations. <i>Materials Letters</i> , 1992 , 14, 115-118	3.3	22
343	Reversible Pb ²⁺ /Pb ⁰ and I ³⁻ /I ⁻ Redox Chemistry Drives the Light-Induced Phase Segregation in All-Inorganic Mixed Halide Perovskites. <i>Advanced Energy Materials</i> , 2021 , 11, 2002934	21.8	22
342	On the electropolishing and anodic oxidation of Ti-15Mo alloy. <i>Electrochimica Acta</i> , 2016 , 205, 256-265	6.7	21
341	Materials with strong electron correlations. <i>Physics-Uspekhi</i> , 2008 , 51, 23-56	2.8	21
340	Dependence of DNA electronic structure on environmental and structural variations. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 15742-8	3.4	21
339	Observation of fluorapatite formation under hydrolysis of tetracalcium phosphate in the presence of KF by means of soft X-ray emission and absorption spectroscopy. <i>Journal of Materials Science: Materials in Medicine</i> , 2002 , 13, 33-6	4.5	21
338	Electronic structure of the molecule-based magnet Mn[N(CN) ₂] ₂ from theory and experiment. <i>Physical Review B</i> , 2002 , 66,	3.3	21
337	Soft X-ray emission CuL spectra and copper-oxygen bond covalency in high-Tc superconductors. <i>Solid State Communications</i> , 1992 , 81, 1003-1007	1.6	21
336	Phenyl-C61-butyric Acid as an Interface Passivation Layer for Highly Efficient and Stable Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 1872-1877	3.8	21
335	New tetraazapentacene-based redox-active material as a promising high-capacity organic cathode for lithium and potassium batteries. <i>Journal of Power Sources</i> , 2019 , 435, 226724	8.9	20
334	Comparative Intrinsic Thermal and Photochemical Stability of Sn(II) Complex Halides as Next-Generation Materials for Lead-Free Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 26862-26869	3.8	20
333	Synthesis, structure, and XPS characterization of the stoichiometric phase Sr ₂ CuO ₂ F ₂ . <i>Physical Review B</i> , 1997 , 56, 2831-2835	3.3	20
332	Mechanism for interfacial adhesion strength of an ion beam mixed Cu/polyimide with a thin buffer layer. <i>Applied Physics Letters</i> , 1999 , 74, 522-524	3.4	20
331	Interpretation of ESCA spectra for non-stoichiometric titanium carbides on the basis of MO-CAO calculations. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1979 , 16, 415-422	1.7	20
330	Spectroscopic characterization of a multiband complex oxide: Insulating and conducting cement 12CaO·7Al ₂ O ₃ . <i>Physical Review B</i> , 2012 , 85,	3.3	19
329	Clustering of impurity atoms in Co-doped anatase TiO ₂ thin films probed with soft x-ray fluorescence. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 4243-51	1.8	19

328	Electronic structure of LiMnO : X-ray emission and photoelectron spectra and band structure calculations. <i>European Physical Journal B</i> , 2000 , 14, 281-286	1.2	19
327	X-ray emission, photoelectron spectra, and electronic structure of Sr ₂ CuO ₂ F ₂ + delta. <i>Physical Review B</i> , 1995 , 52, 2390-2394	3.3	19
326	Analysis of fluorine incorporation into YBa ₂ Cu ₃ O _{6.5} +δ by means of X-ray emission spectroscopy. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 221, 71-75	1.3	19
325	Unravelling the Material Composition Effects on the Gamma Ray Stability of Lead Halide Perovskite Solar Cells: MAPbI Breaks the Records. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2630-2636	6.4	18
324	Tuning the electronic structure of graphene through nitrogen doping: experiment and theory. <i>RSC Advances</i> , 2016 , 6, 56721-56727	3.7	18
323	XPS and DFT study of Sn incorporation into ZnO and TiO ₂ host matrices by pulsed ion implantation. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 1890-1896	1.3	18
322	X-ray photoemission spectra of valence electrons in V ₃ X and Nb ₃ X compounds. <i>Solid State Communications</i> , 1977 , 21, 239-243	1.6	18
321	X-ray ultrasoft spectra of vanadium in vanadium oxides. <i>Journal of Solid State Chemistry</i> , 1977 , 22, 217-220	3.9	18
320	An insight into the origin of room-temperature ferromagnetism in SnO and Mn-doped SnO quantum dots: an experimental and DFT approach. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 6500-6514	3.6	17
319	Modulation of the band gap of graphene oxide: The role of AA-stacking. <i>Carbon</i> , 2014 , 66, 539-546	10.4	17
318	Valence band spectra of 4d and 5d silicides. <i>Journal of Physics Condensed Matter</i> , 1997 , 9, 9403-9414	1.8	17
317	X-ray emission spectra and electronic structure of CuI ₂ S ₄ and CuI ₂ Se ₄ . <i>Solid State Communications</i> , 1998 , 108, 235-239	1.6	17
316	Soft X-ray spectroscopy of nucleobases, B-DNA and ferrocene-proline conjugates. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2004 , 137-140, 817-822	1.7	17
315	X-ray emission spectra of YSr ₂ Cu ₃ O ₇ -x containing sulphate and phosphate groups. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 224, 317-320	1.3	17
314	X-ray emission spectra of diamond films. <i>Surface and Coatings Technology</i> , 1991 , 47, 628-630	4.4	17
313	Electronic structure and experimental spectra of some rare-earth oxyfluorides. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1980 , 21, 193-204	1.7	17
312	XPS study of interactions between linear carbon chains and colloidal Au nanoparticles. <i>Mendeleev Communications</i> , 2020 , 30, 285-287	1.9	16
311	Atomic and electronic structure of a copper/graphene interface as prepared and 1.5 years after. <i>Applied Surface Science</i> , 2017 , 426, 1167-1172	6.7	16

310	Octahedral conversion of α -SiO ₂ host matrix by pulsed ion implantation. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 2185-2190	1.3	16
309	Modification of titanium and titanium dioxide surfaces by ion implantation: Combined XPS and DFT study. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 748-754	1.3	16
308	Electronic structure and magnetic properties of graphene/Co composite. <i>Carbon</i> , 2015 , 91, 298-303	10.4	16
307	Effect of atomic magnetic moments on the relative intensity of the L _β and L _γ components in x-ray emission spectra of 3d transition metal oxides. <i>Physics of the Solid State</i> , 2003 , 45, 1048-1055	0.8	16
306	Superfluidity of compounds based on transition elements, and its connection with lattice instability. <i>Uspekhi Fizicheskikh Nauk</i> , 1976 , 118, 53	0.5	16
305	Chemical Bonding and Hybridization in 5p Binary Oxide. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 24248-24254	3.8	15
304	Solid versus solution: Examining the electronic structure of metallic DNA with soft x-ray spectroscopy. <i>Physical Review B</i> , 2006 , 74,	3.3	15
303	Analysis of XPS and XES of diamond and graphite by DFT calculations using model molecules. <i>Journal of Computational Chemistry</i> , 2001 , 22, 102-108	3.5	15
302	Core X-ray emission spectra of C ₆₀ . <i>Physica C: Superconductivity and Its Applications</i> , 1992 , 195, 352-354	1.3	15
301	Calculations of bandstructure of intermetallic compounds using the multiple scattering X _β cluster method and k dependent boundary conditions. <i>Journal of Physics F: Metal Physics</i> , 1981 , 11, 405-418		15
300	XPS spectra as a tool for studying photochemical and thermal degradation in APbX ₃ hybrid halide perovskites. <i>Nano Energy</i> , 2021 , 79, 105421	17.1	15
299	DC plasma electrolytic oxidation treatment of gum metal for dental implants. <i>Electrochimica Acta</i> , 2019 , 302, 10-20	6.7	14
298	Stability of boron-doped graphene/copper interface: DFT, XPS and OSEE studies. <i>Applied Surface Science</i> , 2018 , 441, 978-983	6.7	14
297	Electronic structure and photoluminescence properties of Zn-ion implanted silica glass before and after thermal annealing. <i>Journal of Non-Crystalline Solids</i> , 2016 , 432, 183-188	3.9	14
296	Impact of charge transport layers on the photochemical stability of MAPbI ₃ in thin films and perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 2705-2716	5.8	14
295	Band-gap engineering in TiO ₂ -based ternary oxides. <i>Physical Review B</i> , 2012 , 85,	3.3	14
294	Identifying local dopant structures and their impact on the magnetic properties of spintronic materials. <i>Physical Review B</i> , 2011 , 83,	3.3	14
293	Soft X-ray absorption and emission characterization of nanodiamond prepared by explosive detonation. <i>Diamond and Related Materials</i> , 2007 , 16, 350-352	3.5	14

292	Influence of graphite addition on the reactivity of Ti powder with H ₂ under ball milling. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 196-204	3.4	14
291	Resonant inelastic soft x-ray scattering and electronic structure of LiBC. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 5137-5142	1.8	14
290	Analysis of Electron Spectra of Carbon Allotropes (Diamond, Graphite, Fullerene) by Density Functional Theory Calculations Using the Model Molecules. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 9403-9408	2.8	14
289	Analysis of ¹³ C NMR Chemical Shielding and XPS for Cellulose and Chitosan by DFT Calculations Using the Model Molecules. <i>Polymer Journal</i> , 2005 , 37, 21-29	2.7	14
288	Electronic structure of graphite fluorides. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001 , 288, 340-344	2.3	14
287	No multiatom resonances observed in x-ray fluorescence. <i>Physical Review B</i> , 2000 , 62, 15427-15430	3.3	14
286	Characterization of diamondlike films by x-ray emission spectroscopy with high-energy resolution. <i>Journal of Applied Physics</i> , 1993 , 73, 4605-4609	2.5	14
285	X-ray emission spectra and valence band structure of the 3d transition metal oxides. <i>Physica B: Condensed Matter</i> , 1991 , 168, 163-169	2.8	14
284	Analysis of the depth profile of Fe-Si buried layers in Fe ⁺ -implanted Si wafer by soft X-ray emission spectroscopy. <i>Applied Surface Science</i> , 1993 , 72, 73-77	6.7	14
283	Sulphur-oxygen substitution in YBa ₂ Cu ₃ O _{6+x} S _y analyzed by means of X-ray emission spectroscopy. <i>Physica C: Superconductivity and Its Applications</i> , 1993 , 211, 29-35	1.3	14
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