

Ernst Z Kurmaev

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

435
papers

6,774
citations

39
h-index

58
g-index

444
ext. papers

7,469
ext. citations

3.3
avg, IF

5.54
L-index

#	Paper	IF	Citations
435	High-capacity polymer electrodes for potassium batteries. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 3044-3050	13	0
434	Octahydroxytetraazapentacenedione: New organic electrode material for fast and stable potassium batteries. <i>Journal of Power Sources</i> , 2022 , 517, 230711	8.9	0
433	Nanoscale Visualization of Photodegradation Dynamics of MAPbI Perovskite Films.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 2744-2749	6.4	2
432	Electronic Properties of Carbyne Chains: Experiment and Theory. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 8268-8273	3.8	2
431	When iodide meets bromide: Halide mixing facilitates the light-induced decomposition of perovskite absorber films. <i>Nano Energy</i> , 2021 , 86, 106082	17.1	3
430	Temperature Dynamics of MAPbI and PbI Photolysis: Revealing the Interplay between Light and Heat, Two Enemies of Perovskite Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 4362-4367	6.4	5
429	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
428	Spectacular Enhancement of the Thermal and Photochemical Stability of MAPbI ₃ Perovskite Films Using Functionalized Tetraazaadamantane as a Molecular Modifier. <i>Energies</i> , 2021 , 14, 669	3.1	0
427	X-ray Photoelectron Spectra of Ag-Au Colloidal Nanoparticles after Interaction with Linear Carbon Chains. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 685	2.6	1
426	Reversible Pb ²⁺ /Pb ⁰ and I ⁻ /I ₃ ⁻ 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
425	Influence of Oxygen Ion Migration from Substrates on Photochemical Degradation of CH ₃ NH ₃ PbI ₃ Hybrid Perovskite. <i>Energies</i> , 2021 , 14, 5062	3.1	0
424	The catalytic role of platinum nanoparticles in laser generated nanocarbons. <i>Applied Surface Science</i> , 2021 , 558, 149890	6.7	2
423	Rationalizing the effect of overstoichiometric PbI ₂ on the stability of perovskite solar cells in the context of precursor solution formulation. <i>Synthetic Metals</i> , 2021 , 278, 116823	3.6	2
422	Investigation on electronic structure and magnetic properties of Co and Mn incorporated nanoscale SnO ₂ . <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	3
421	Interaction of graphene oxide with barium titanate in composite: XPS and DFT studies. <i>Journal of Alloys and Compounds</i> , 2020 , 840, 155747	5.7	3
420	XPS study of interactions between linear carbon chains and colloidal Au nanoparticles. <i>Mendeleev Communications</i> , 2020 , 30, 285-287	1.9	16
419	Influence of Ion Migration from ITO and SiO ₂ Substrates on Photo and Thermal Stability of CH ₃ NH ₃ SnI ₃ Hybrid Perovskite. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 14928-14934	3.8	8

4 ¹⁸	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
4 ¹⁷	XPS characterization of surface layers of stainless steel nitrated in electron beam plasma at low temperature. <i>Surface and Coatings Technology</i> , 2020 , 386, 125492	4.4	4
4 ¹⁶	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
4 ¹⁵	Amine-selective gas sensor based on organic field-effect transistor with the porphyrin monolayer receptor. <i>Synthetic Metals</i> , 2020 , 260, 116295	3.6	7
4 ¹⁴	Intrinsic thermal decomposition pathways of lead halide perovskites APbX ₃ . <i>Solar Energy Materials and Solar Cells</i> , 2020 , 213, 110559	6.4	27
4 ¹³	XPS evidence of degradation mechanism in CH ₃ NH ₃ PbI ₃ hybrid perovskite. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 095501	1.8	10
4 ¹²	A nickel coordination polymer derived from 1,2,4,5-tetraaminobenzene for fast and stable potassium battery anodes. <i>Chemical Communications</i> , 2020 , 56, 1541-1544	5.8	12
4 ¹¹	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
4 ¹⁰	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
4 ⁰⁹	Thermal Effects and Halide Mixing of Hybrid Perovskites: MD and XPS Studies. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 135-140	2.8	4
4 ⁰⁸	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
4 ⁰⁷	Origin of magnetic phase transition in RMn ₂ Si ₂ (R = rare-earth ion or Y) intermetallics. <i>Computational Materials Science</i> , 2020 , 184, 109901	3.2	1
4 ⁰⁶	X-ray photoelectron spectra and electronic structure of Mo doped V ₂ O ₅ . <i>Thin Solid Films</i> , 2020 , 713, 138360	2.2	1
4 ⁰⁵	X-ray photoelectron spectroscopy study of Cr/[Pd/Gd/Pd/Fe] multilayered nanostructures. <i>Thin Solid Films</i> , 2020 , 709, 138251	2.2	4
4 ⁰⁴	Film Deposition Techniques Impact the Defect Density and Photostability of MAPbI ₃ Perovskite Films. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 21378-21385	3.8	10
4 ⁰³	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 ⁰²	Effect of post-annealing in air on optical and XPS spectra of Y ₂ O ₃ ceramics doped with CeO ₂ . <i>Mendeleev Communications</i> , 2019 , 29, 102-104	1.9	12
4 ⁰¹	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

400	Effect of doping and annealing on the electronic structure and magnetic properties of nanoscale Co and Zn co-doped SnO ₂ : An experimental study and first-principles modeling. <i>Journal of Alloys and Compounds</i> , 2019 , 799, 433-441	5.7	5
399	Fundamental crystal field excitations in magnetic semiconductor SnO: Mn, Fe, Co, Ni. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 11992-11998	3.6	2
398	Optical Transparency and Local Electronic Structure of Yb-Doped Y ₂ O ₃ Ceramics with Tetravalent Additives. <i>Symmetry</i> , 2019 , 11, 243	2.7	2
397	DC plasma electrolytic oxidation treatment of gum metal for dental implants. <i>Electrochimica Acta</i> , 2019 , 302, 10-20	6.7	14
396	Energy band gaps and excited states in Si QD/SiO ₂ /R ₂ O (R = Si, Al, Zr) suboxide superlattices. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 415301	1.8	0
395	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
394	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
393	Electronic structure and structural defects in 3d-metal doped In ₂ O ₃ . <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 14091-14098	2.1	1
392	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
391	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
390	Mixed Substitution in P-Doped Anatase TiO ₂ Probed by XPS and DFT. <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1700477	1.3	4
389	Electronic structure of alumina doped by light elements. <i>Computational Condensed Matter</i> , 2018 , 15, 48-54	1.7	2
388	Magnetic ordering in intermetallic La _{1-x} Tb _x Mn ₂ Si ₂ compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 454, 144-149	2.8	3
387	Towards understanding the origin of the hysteresis effects and threshold voltage shift in organic field-effect transistors based on the electrochemically grown AlO _x dielectric. <i>Thin Solid Films</i> , 2018 , 649, 7-11	2.2	3
386	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
385	Diamond deposition on Fe-Cr-Al alloy substrates: Effect of native oxidation by XPS and XAS investigation. <i>Journal of Alloys and Compounds</i> , 2018 , 740, 887-894	5.7	11
384	Stability of boron-doped graphene/copper interface: DFT, XPS and OSEE studies. <i>Applied Surface Science</i> , 2018 , 441, 978-983	6.7	14
383	Mechanochemical Activation of CuTeO ₂ Mixture as a Promising Technique for the Solid-State Synthesis of Catalysts for the Selective Oxidation of CO in the Presence of H ₂ . <i>Kinetics and Catalysis</i> , 2018 , 59, 160-173	1.5	2

382	Evidence of random distribution of carbon impurities in oxygen sites of zinc oxide. <i>Physica B: Condensed Matter</i> , 2018 , 545, 172-175	2.8	
381	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
380	Atomic and electronic structures of stable linear carbon chains on Ag-nanoparticles. <i>Carbon</i> , 2018 , 128, 296-301	10.4	25
379	XPS spectra, electronic structure, and magnetic properties of RFe ₅ Al ₇ intermetallics. <i>Journal of Alloys and Compounds</i> , 2018 , 733, 82-90	5.7	1
378	First-Principles Calculations of the Electronic Structure of Imperfect Crystals in the Coherent Potential Approximation. <i>Physics of Metals and Metallography</i> , 2018 , 119, 1249-1253	1.2	1
377	Influence of halide mixing on thermal and photochemical stability of hybrid perovskites: XPS studies. <i>Mendeleev Communications</i> , 2018 , 28, 381-383	1.9	7
376	Atomic and electronic structure of graphene oxide/Cu interface. <i>Thin Solid Films</i> , 2018 , 665, 99-108	2.2	6
375	Interfacial reactions in Al ₂ O ₃ /Cr ₂ O ₃ layers: Electronic structure calculations and X-ray photoelectron spectra. <i>Thin Solid Films</i> , 2018 , 665, 6-8	2.2	7
374	Electronic Structure of Aluminum Oxide with Oxygen Vacancies. <i>Physics of Metals and Metallography</i> , 2018 , 119, 707-712	1.2	6
373	XPS-and-DFT analyses of the Pb 4f Zn 3s and Pb 5d O 2s overlapped ambiguity contributions to the final electronic structure of bulk and thin-film Pb-modulated zincite. <i>Applied Surface Science</i> , 2017 , 405, 129-136	6.7	11
372	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
371	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
370	Influence of dopants on the impermeability of graphene. <i>Nanoscale</i> , 2017 , 9, 6145-6150	7.7	4
369	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
368	Spectral and magnetic properties of NaRuO. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 405804	1.8	3
367	ITO Modification for Efficient Inverted Organic Solar Cells. <i>Langmuir</i> , 2017 , 33, 10118-10124	4	10
366	Enhanced clustering tendency of Cu-impurities with a number of oxygen vacancies in heavy carbon-loaded TiO ₂ - the bulk and surface morphologies. <i>Solid State Sciences</i> , 2017 , 71, 130-138	3.4	3
365	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

364	Electronic structure of RMn_2Si_2 ($\text{R} = \text{Y, La}$) intermetallics: DFT and XPS studies. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 1663-1671	5.7	4
363	Characterisation of anodic oxide films on zirconium formed in sulphuric acid: XPS and corrosion resistance investigations. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 203-210	2.6	9
362	Influence of Alkali Treatment on Anodized Titanium Alloys in Wollastonite Suspension. <i>Metals</i> , 2017 , 7, 322	2.3	8
361	CuTeO_2 nanocomposites: mechanochemical synthesis, physico-chemical properties, CO-PROX activity. <i>Journal of Nanoparticle Research</i> , 2016 , 18, 1	2.3	12
360	Tuning the electronic structure of graphene through nitrogen doping: experiment and theory. <i>RSC Advances</i> , 2016 , 6, 56721-56727	3.7	18
359	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
358	Sn-loss effect in a Sn-implanted α - 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
357	On the electropolishing and anodic oxidation of Ti-15Mo alloy. <i>Electrochimica Acta</i> , 2016 , 205, 256-265	6.7	21
356	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
355	The appearance of Ti^{3+} states in solution-processed TiO_x buffer layers in inverted organic photovoltaics. <i>Applied Physics Letters</i> , 2016 , 109, 022108	3.4	2
354	Pleomorphic structural imperfections caused by pulsed Bi-implantation in the bulk and thin-film morphologies of TiO_2 . <i>Applied Surface Science</i> , 2016 , 379, 223-229	6.7	11
353	Local moments and electronic correlations in Fe-based Heusler alloys: $\text{K}\beta$ x-ray emission spectra measurements. <i>Journal of Alloys and Compounds</i> , 2016 , 679, 268-276	5.7	6
352	Searching for pure iron in nature: the Chelyabinsk meteorite. <i>RSC Advances</i> , 2016 , 6, 85844-85851	3.7	4
351	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
350	Structural defects and electronic structure of N-ion implanted TiO_2 : Bulk versus thin film. <i>Applied Surface Science</i> , 2015 , 355, 984-988	6.7	10
349	Formation of Ge_0 and GeO nanoclusters in Ge^{++} -implanted SiO_2/Si thin-film heterostructures under rapid thermal annealing. <i>Applied Surface Science</i> , 2015 , 349, 780-784	6.7	5
348	Pronounced, Reversible, and in Situ Modification of the Electronic Structure of Graphene Oxide via Buckling below 160 K. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 3163-3169	6.4	2
347	Analysis of valence XPS and AES of C, N, O, and F-containing substances by DFT calculations using the model molecules. <i>Chemical Physics</i> , 2015 , 452, 31-39	2.3	8

346	Characterization of TiAlSiON coatings deposited by plasma enhanced magnetron sputtering: XRD, XPS, and DFT studies. <i>Surface and Coatings Technology</i> , 2015 , 278, 87-91	4.4	7
345	The characterization of Co-nanoparticles supported on graphene. <i>RSC Advances</i> , 2015 , 5, 75600-75606	3.7	37
344	Adjacent Fe-Vacancy Interactions as the Origin of Room Temperature Ferromagnetism in $(\text{In}_{1-x}\text{Fe}_x)\text{2O}_3$. <i>Physical Review Letters</i> , 2015 , 115, 167401	7.4	29
343	Linking the HOMO-LUMO gap to torsional disorder in P3HT/PCBM blends. <i>Journal of Chemical Physics</i> , 2015 , 143, 224704	3.9	13
342	Selective Area Band Engineering of Graphene using Cobalt-Mediated Oxidation. <i>Scientific Reports</i> , 2015 , 5, 15380	4.9	6
341	Stability and Electronic Characteristics of Epitaxial Silicene Multilayers on Ag(111). <i>Advanced Functional Materials</i> , 2015 , 25, 4083-4090	15.6	12
340	Octahedral conversion of $\alpha\text{-SiO}_2$ host matrix by pulsed ion implantation. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 2185-2190	1.3	16
339	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
338	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
337	Electronic structure and magnetic properties of graphene/Co composite. <i>Carbon</i> , 2015 , 91, 298-303	10.4	16
336	Band gap engineering of graphene oxide by chemical modification. <i>Carbon</i> , 2014 , 75, 366-371	10.4	39
335	Modulation of the band gap of graphene oxide: The role of AA-stacking. <i>Carbon</i> , 2014 , 66, 539-546	10.4	17
334	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
333	The coherent potential approximation for strongly correlated systems: electronic structure and magnetic properties of NiO-ZnO solid solutions. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 115501	1.8	6
332	A re-evaluation of how functional groups modify the electronic structure of graphene oxide. <i>Advanced Materials</i> , 2014 , 26, 4870-4	24	12
331	Local Structure of Fe Impurity Atoms in ZnO: Bulk versus Surface. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 5336-5345	3.8	12
330	Electronic Structure and Magnetic Properties of Iron Doped TiO ₂ (Rutile): XPS Measurements and CPA Calculations. <i>Solid State Phenomena</i> , 2014 , 215, 28-34	0.4	2
329	The Metallic Nature of Epitaxial Silicene Monolayers on Ag(111). <i>Advanced Functional Materials</i> , 2014 , 24, 5253-5259	15.6	61

328	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
327	Electronic band gap reduction and intense luminescence in Co and Mn ion-implanted SiO ₂ . <i>Journal of Applied Physics</i> , 2014 , 115, 103708	2.5	13
326	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
325	Electronic structure of copper pnictides: Influence of different cations and pnictogens. <i>Physical Review B</i> , 2013 , 88,	3.3	4
324	Reduction of conductivity and ferromagnetism induced by Ag doping in ZnO:Co. <i>Thin Solid Films</i> , 2013 , 545, 488-495	2.2	2
323	X-ray Spectroscopic Study of the Conduction Band of K ₃ :Anthracene and K ₃ :Phenanthrene. <i>Journal of Physical Chemistry C</i> , 2013 , 130826233621000	3.8	
322	Band Gap Tuning in Poly(triazine imide), a Nonmetallic Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 8806-8812	3.8	42
321	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
320	The Formation of TiO tetrahedra and band gap reduction in SiO ₂ via pulsed ion implantation. <i>Journal of Applied Physics</i> , 2013 , 113, 103704	2.5	12
319	Selective response of mesoporous silicon to adsorbants with nitro groups. <i>Chemistry - A European Journal</i> , 2012 , 18, 2912-22	4.8	6
318	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
317	Formation of Mn-oxide clusters in Mn ⁺⁺ -implanted SiO ₂ probed by soft X-ray emission and absorption spectroscopy. <i>Vacuum</i> , 2012 , 86, 1615-1617	3.7	1
316	Interplay of ballistic and chemical effects in the formation of structural defects for Sn and Pb implanted silica. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 3187-3192	3.9	4
315	Computer simulation of the energy gap in ZnO- and TiO ₂ -based semiconductor photocatalysts. <i>Journal of Experimental and Theoretical Physics</i> , 2012 , 115, 1048-1054	1	4
314	Chemical Bonding and Hybridization in 5p Binary Oxide. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 24248-842545	3.8	45
313	Structural ordering in a silica glass matrix under Mn ion implantation. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 185402	1.8	3
312	Predicting the band gap of ternary oxides containing 3d ¹⁰ and 3d ⁰ metals. <i>Physical Review B</i> , 2012 , 86,	3.3	13
311	Oxygen-vacancy-induced ferromagnetism in undoped SnO ₂ thin films. <i>Physical Review B</i> , 2012 , 85,	3.3	112

310	Band-gap engineering in TiO ₂ -based ternary oxides. <i>Physical Review B</i> , 2012 , 85,	3.3	14
309	Arsenic contamination of coarse-grained and nanostructured nitinol surfaces induced by chemical treatment in hydrofluoric acid. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012 , 100, 1812-6	3.5	5
308	Epoxide Speciation and Functional Group Distribution in Graphene Oxide Paper-Like Materials. <i>Advanced Functional Materials</i> , 2012 , 22, 3950-3957	15.6	65
307	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
306	Spectroscopic characterization of a multiband complex oxide: Insulating and conducting cement 12CaO \cdot 7Al ₂ O ₃ . <i>Physical Review B</i> , 2012 , 85,	3.3	19
305	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
304	Surface studies of coarse-grained and nanostructured titanium implants. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 8567-72	1.3	5
303	Appearance of Ferromagnetism in Co-Doped CeO ₂ Diluted Magnetic Semiconductors Prepared by Solid-State Reaction. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 1556-1560	3.8	50
302	X-ray absorption and emission spectroscopic investigation of Mn doped ZnO films. <i>Applied Surface Science</i> , 2011 , 257, 10748-10748	6.7	3
301	Pb ⁺ implanted SiO ₂ probed by soft x-ray emission and absorption spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 3381-3384	3.9	6
300	Effect of additives on titanium-hydrogen interaction under ball milling of Ti powder probed by hard x-ray emission spectroscopy. <i>Journal of Applied Physics</i> , 2011 , 110, 104904	2.5	
299	Electronic structure of the Si-C-N amorphous films. <i>Physics of the Solid State</i> , 2011 , 53, 1806-1810	0.8	1
298	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
297	Evaluation of antioxidant activity and electronic structure of aspirin and paracetamol. <i>Journal of Molecular Structure</i> , 2011 , 985, 63-69	3.4	5
296	Identifying local dopant structures and their impact on the magnetic properties of spintronic materials. <i>Physical Review B</i> , 2011 , 83,	3.3	14
295	Valence structure of alkaline and post-transition metal oxides 2011 ,		3
294	Correlation effects in Ni 3d states of LaNiPO. <i>Physical Review B</i> , 2010 , 81,	3.3	5
293	Electronic properties of pyroxenes NaCrSi ₂ O ₆ and NaFeSi ₂ O ₆ . <i>Physical Review B</i> , 2010 , 81,	3.3	11

292	Electronic structure of BiMO ₃ multiferroics and related oxides. <i>Physical Review B</i> , 2010 , 81,	3.3	52
291	Metal-insulator transition in NiS ₂ Se _x . <i>Physical Review B</i> , 2010 , 81,	3.3	44
290	Band gaps and electronic structure of alkaline-earth and post-transition-metal oxides. <i>Physical Review B</i> , 2010 , 81,	3.3	70
289	The origin of the resistance change in GeSbTe films. <i>Applied Physics Letters</i> , 2010 , 97, 152113	3.4	4
288	High-T _c Superconductors Based on FeAs Compounds. <i>Springer Series in Materials Science</i> , 2010 ,	0.9	29
287	Valence Band Structure and X-ray Spectra of Oxygen-Deficient Ferrites SrFeO _x . <i>Journal of Physical Chemistry C</i> , 2010 , 114, 5154-5159	3.8	51
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