

Boby Joseph

List of Publications by Year in descending order

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174
papers

2,796
citations

201575

27
h-index

254106

43
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176
all docs

176
docs citations

176
times ranked

3506
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoscale phase separation in the iron chalcogenide superconductor $KxFe_{1-x}S_2$. Physical Review B, 2011, 84, .	1.1	228
2	Intrinsic phase separation in superconducting $K0.8Fe_{1.6}Se_2$ (Tc= 31.8 K) single crystals. Superconductor Science and Technology, 2011, 24, 082002.	1.8	118
3	Evidence of local structural inhomogeneity in $FeSe_{1-x}S_x$ extended x-ray absorption fine structure. Physical Review B, 2010, 82, .	1.1	85
4	Leveraging Cu/CuFe ₂ O ₄ -Catalyzed Biomass-Derived Furfural Hydrodeoxygenation: A Nanoscale Metal-Organic-Framework Template Is the Prime Key. ACS Applied Materials & Interfaces, 2020, 12, 21682-21700.	4.0	75
5	Role of the Ce valence in the coexistence of superconductivity and ferromagnetism of $CeO_{1-x}F_xBiS_2$ revealed by Ce L ₃ -edge x-ray absorption spectroscopy. Physical Review B, 2014, 89, .	1.1	67
6	Synthetically Tuned Atomic Ordering in PdCu Nanoparticles with Enhanced Catalytic Activity toward Solvent-Free Benzylamine Oxidation. ACS Applied Materials & Interfaces, 2017, 9, 3602-3615.	4.0	67
7	Cu-Pd bimetallic nanoalloy anchored on a N-rich porous organic polymer for high-performance hydrodeoxygenation of biomass-derived vanillin. Catalysis Science and Technology, 2018, 8, 2195-2210.	2.1	64
8	Structural, vibrational, and electrical properties of $Ti_2Fe_2O_7$ under hydrostatic pressure: Experiments and theory. Physical Review B, 2018, 97, .	1.1	63
9	High-temperature ferromagnetism in pulsed-laser deposited epitaxial (Zn,Mn)O thin films: Effects of substrate temperature. Applied Physics Letters, 2005, 86, 152511.	1.5	59
10	Direct observation of nanoscale interface phase in the superconducting chalcogenide $KxFe_{1-x}S_2$ intrinsic phase separation. Physical Review B, 2015, 91, .	1.1	59
11	Porous Organic Polymer-Driven Evolution of High-Performance Cobalt Phosphide Hybrid Nanosheets as Vanillin Hydrodeoxygenation Catalyst. ACS Applied Materials & Interfaces, 2019, 11, 24140-24153.	4.0	57
12	A study of the electronic structure of $FeSe_{1-x}Te_x$ chalcogenides by Fe and Se K-edge x-ray absorption near edge structure measurements. Journal of Physics Condensed Matter, 2010, 22, 485702.	0.7	52
13	Local inversion symmetry breaking and spin-phonon coupling in the perovskite $GdCrO_{3-x}F_x$. Physical Review B, 2017, 96, .	1.1	43
14	Determination of local atomic displacements in $CeO_{1-x}F_xBiS_2$ system. Journal of Physics Condensed Matter, 2014, 26, 435701.	0.7	42
15	Mesoporous Metal-Organic Framework MIL-101 at High Pressure. Journal of the American Chemical Society, 2020, 142, 15012-15019.	6.6	37
16	Magnetism in C_6O films induced by proton irradiation. Physical Review B, 2007, 75, .	1.1	36
17	Structural phase transition and superlattice misfit strain of $FeAsO$. Physical Review B, 2011, 84, .	1.1	36

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19	Covalent Organic Framework (COF) under High Pressure. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1087-1092.	7.2	34
20	Anisotropic compression in the high-pressure regime of pure and chromium-doped vanadium dioxide. <i>Physical Review B</i> , 2012, 85, .	1.1	32
21	Pressure-induced superconductivity in semimetallic $1T\bar{d}'\text{TiTe}_2$ and its persistence upon decompression. <i>Physical Review B</i> , 2018, 97, .	1.1	31
22	Pressure induced band inversion, electronic and structural phase transitions in InTe: A combined experimental and theoretical study. <i>Physical Review B</i> , 2018, 97, .	1.1	31
23	Single-crystal diffraction at the high-pressure Indo-Italian beamline Xpress at Elettra, Trieste. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 222-229.	1.0	31
24	Local structure of ReFeAsO (Re=La, Pr, Nd, Sm) oxypnictides studied by Fe K-edge EXAFS. <i>Europhysics Letters</i> , 2009, 87, 26005.	0.7	30
25	$\text{CH}_3\text{NH}_3\text{Pb}_3$, A Potential Solar Cell Candidate: Structural and Spectroscopic Investigations. <i>Journal of Physical Chemistry A</i> , 2016, 120, 9732-9739.	1.1	29
26	Ferromagnetic properties of epitaxial manganite films on SrTiO_3/Si heterostructures. <i>Journal of Applied Physics</i> , 2006, 100, 033903.	1.1	27
27	Effects of ball-milling on the hydrogen sorption properties of LaNi_5 . <i>Journal of Alloys and Compounds</i> , 2009, 480, 912-916.	2.8	27
28	On the possibility of a new multiband heterostructure at the atomic limit made of alternate CuO_2 and FeAs superconducting layers. <i>Superconductor Science and Technology</i> , 2010, 23, 052003.	1.8	27
29	Zeolitic Imidazolate Framework-Mediated Synthesis of Co_3O_4 Nanoparticles Encapsulated in N-Doped Graphitic Carbon as an Efficient Catalyst for Selective Oxidation of Hydrocarbons. <i>ACS Applied Nano Materials</i> , 2018, 1, 4836-4851.	2.4	27
30	Temperature dependent local structure of LiCoO_2 nanoparticles determined by Co K-edge X-ray absorption fine structure. <i>Journal of Power Sources</i> , 2013, 229, 272-276.	4.0	26
31	Local structural displacements across the structural phase transition in IrTe_2 . Order-disorder of dimers and role of Ir-Te correlations. <i>Physical Review B</i> , 2013, 88, .		
32	X-ray photoelectron and Raman spectroscopic studies of MeV proton irradiated graphite. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 3241-3246.	0.6	25
33	Combined experimental and computational study of the pressure dependence of the vibrational spectrum of solid picene $\text{C}_{22}\text{H}_{14}$. <i>Physical Review B</i> , 2013, 88, .	1.1	25
34	Pressure induced structural, electronic topological, and semiconductor to metal transition in AgBiSe_2 . <i>Applied Physics Letters</i> , 2016, 109, .	1.5	25
35	Size saturation in low energy ion beam synthesized Au nanoclusters and their size redistribution with O irradiation. <i>Thin Solid Films</i> , 2005, 492, 35-40.	0.8	24
36	Role of the local structure in superconductivity of $\text{La}_{0.5}\text{F}_{0.5}\text{BiS}_2$ system. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 145603.	0.7	24

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37	Formation and growth of SnO ₂ nanoparticles in silica glass by Sn implantation and annealing. Journal of Applied Physics, 2007, 102, 024315.	1.1	22
38	X-ray absorption spectroscopy characterization of iron-oxide nanoparticles synthesized by high temperature plasma processing. Journal of Electron Spectroscopy and Related Phenomena, 2014, 196, 125-129.	0.8	22
39	Effect of 100MeV Au irradiation on embedded Au nanoclusters in silica glass. Nuclear Instruments & Methods in Physics Research B, 2007, 256, 659-664.	0.6	21
40	RE L ₃ x-ray absorption study of REO ₃ F ₂ FeAs (RE =) Tj ETQq0,0 0 rgBT/Overlock	0.7	21
41	Large local disorder in superconducting K _{0.8} Fe _{1.6} Se ₂ studied by extended x-ray absorption fine structure. Journal of Physics Condensed Matter, 2012, 24, 115701.	0.7	21
42	Local structural disorder in REFeAsO oxypnictides by RE L ₃ edge XANES. Journal of Physics Condensed Matter, 2010, 22, 125701.	0.7	20
43	Temperature-dependent local structure of NdFeAsO _{1-x} F _x system using arsenic K-edge extended x-ray absorption fine structure. Journal of Physics Condensed Matter, Effect of Ru substitution on atomic displacements in the layered SmFe ₂ AsO _{1-x} Ru _x AsO _{0.85} F _{0.15} superconductors. Superconductor Science and Technology, 2013, 26, 065005.	0.7	19
44	Temperature dependent local atomic displacements in Ru substituted SmFe ₂ AsO _{1-x} Ru _x AsO _{0.85} F _{0.15} superconductors. Superconductor Science and Technology, 2013, 26, 065005.	1.1	19
45	MeV Au irradiation induced nanoparticle formation and recrystallization in a low energy Au implanted Si layer. Nanotechnology, 2007, 18, 495702.	1.8	19
46	An experimental investigation on the poor hydrogen sorption properties of nano-structured LaNi ₅ prepared by ball-milling. International Journal of Hydrogen Energy, 2011, 36, 7914-7919.	1.3	18
47	Combustion Synthesis of Graphene from Waste Paper for High Performance Supercapacitor Electrodes. International Journal of Nanoscience, 2018, 17, 1760023.	3.8	18
48	Evolution of Eu valence and superconductivity in layered SmFe ₂ AsO _{1-x} Ru _x AsO _{0.85} F _{0.15} system. Physical Review B, 2017, 95, .	0.4	18
49	Nanocluster superstructures or nanoparticles? The self-consuming scaffold decides. Nanoscale, 2018, 10, 7472-7483.	2.8	17
50	Interplay of electronic and lattice degrees of freedom in Al _{1-x} Fe _{2-x} Se ₂ superconductors under pressure. Physical Review B, 2013, 88, .	1.1	16
51	Experimental evidence of an electronic transition in CeP under pressure using Ce L ₃ XAS. Physical Chemistry Chemical Physics, 2017, 19, 17526-17530.	1.3	16
52	Temperature Dependent Structural Evolution of WSe ₂ : A Synchrotron X-ray Diffraction Study. Condensed Matter, 2020, 5, 76.	0.8	16
53	Observation of a Universal Aggregation Mechanism and a Possible Phase Transition in Au Sputtered by Swift Heavy Ions. Physical Review Letters, 2008, 100, 245501.	2.9	15

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55	Arsenic K-edge XANES study of REFeAsO oxypnictides. <i>Europhysics Letters</i> , 2010, 90, 57001.	0.7	15
56	Random alloy-like local structure of Fe(Se, S) superconductors revealed by extended x-ray absorption fine structure. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 425701.	0.7	15
57	Tracking competitive lattice distortions in strongly correlated VO ₂ -based systems: A temperature-dependent EXAFS study. <i>Europhysics Letters</i> , 2013, 102, 66004.	0.7	15
58	Electronic structure of LaO _{1-x} FxBiSe ₂ (x=0.18) revealed by photoelectron spectromicroscopy. <i>Physical Review B</i> , 2014, 90, .	1.1	15
59	Local disorder investigation in Ni ₂ Se ₂ using Raman and Ni K-edge x-ray absorption spectroscopies. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 452201.	0.7	15
60	Large scale synthesis of copper nickel alloy nanoparticles with reduced compressibility using arc thermal plasma process. <i>Scientific Reports</i> , 2021, 11, 7629.	1.6	15
61	Energy dependent sputtering of nanoclusters from a nanodisperse target. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006, 244, 278-282.	0.6	14
62	Probing the electronic and local structural changes across the pressure-induced insulator-to-metal transition in VO ₂ . <i>Europhysics Letters</i> , 2014, 108, 36003.	0.7	14
63	Emergent Dirac carriers across a pressure-induced Lifshitz transition in black phosphorus. <i>Physical Review B</i> , 2018, 98, .	1.1	14
64	Organogel-assisted porous organic polymer embedding Cu NPs for selectivity control in the semi hydrogenation of alkynes. <i>Nanoscale</i> , 2022, 14, 1505-1519.	2.8	14
65	Large atomic disorder in nanostructured LaNi ₅ alloys: A La L ₃ -edge extended X-ray absorption fine structure study. <i>Journal of Physics and Chemistry of Solids</i> , 2010, 71, 1069-1072.	1.9	13
66	Determination of the local structure in FeSe _{0.25} Te _{0.75} single crystal by polarized EXAFS. <i>Europhysics Letters</i> , 2010, 90, 67008.	0.7	13
67	Mixed valence and metamagnetism in a metal flux grown compound Eu ₂ Pt ₃ Si ₅ . <i>Journal of Solid State Chemistry</i> , 2015, 225, 181-186.	1.4	13
68	Nonlinear optical properties of MeV and keV ion beam synthesized Ag nanoclusters. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 265, 631-636.	0.6	12
69	Local structure of ball-milled LaNi ₅ hydrogen storage material by Ni K-edge EXAFS. <i>Journal of Solid State Chemistry</i> , 2010, 183, 1550-1554.	1.4	12
70	Local structure of LiCoO ₂ nanoparticles studied by Co K-edge x-ray absorption spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 335305.	0.7	12
71	Synthesis and Characterization of a Monoclinic Crystalline Phase of Hydroxyapatite by Synchrotron X-ray Powder Diffraction and Piezoresponse Force Microscopy. <i>Crystals</i> , 2018, 8, 458.	1.0	12
72	Metavalent Bonding in GeSe Leads to High Thermoelectric Performance. <i>Angewandte Chemie</i> , 2021, 133, 10438-10446.	1.6	12

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73	Impact of different regression frameworks on the estimation of the scaling properties of radar rainfall. Atmospheric Research, 2007, 86, 340-349.	1.8	11
74	A study of temperature dependent local atomic displacements in a Ba(Fe _{1-x} Co _x) ₂ As ₂ superconductor. Physical Chemistry Chemical Physics, 2016, 18, 9029-9035.	1.3	11
75	Local structure investigation of $\hat{\Gamma}^2$ -Ni(OH) ₂ under pressure using combined Raman and Ni K-edge extended x-ray absorption fine structure studies. High Pressure Research, 2017, 37, 1-10.	0.4	11
76	Low energy O induced redistribution of nanosized Au inclusions in an oxide layer grown on Si(100). Nuclear Instruments & Methods in Physics Research B, 2005, 227, 559-566.	0.6	10
77	keV Ag ion irradiation induced damage on multiwalled carbon nanotubes. Nuclear Instruments & Methods in Physics Research B, 2007, 264, 36-40.	0.6	10
78	Pressure Effects in the Isoelectronic REFe _{0.85} Ir _{0.15} AsO System. Journal of the American Chemical Society, 2011, 133, 3252-3255.	6.6	10
79	Electronic structure of FeSe _{1-x} Te _x studied by Fe L _{2,3} -edge x-ray absorption spectroscopy. Physical Review B, 2011, 83, .	1.1	10
80	Fe-As Bond Fluctuations in a Double-Well Potential in LaFeAsO. Journal of Superconductivity and Novel Magnetism, 2016, 29, 3035-3039.	0.8	10
81	Magnetic and X-ray absorption studies on the RE ₅ X ₂ Sb ₆ (RE= Eu, Yb; X= Al, Ga, In) compounds. Journal of Alloys and Compounds, 2016, 658, 395-401.	2.8	10
82	Crystallographic properties of the Ce _{1-x} Lu _x O ₂ system at pressures up to 7 GPa. Solid State Ionics, 2018, 320, 152-158.	1.3	10
83	Direct Visualization of Spatial Inhomogeneity of Spin Stripes Order in La _{1.72} Sr _{0.28} NiO ₄ . Condensed Matter, 2019, 4, 77.	0.8	10
84	Phonon signatures of multiple topological quantum phase transitions in compressed $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{TlBi} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{S} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$: A combined experimental and theoretical study. Physical Review B, 2019, 99, .	1.1	10
85	SYNTHESIS OF ALLOY METAL NANOCLUSTERS IN SILICA GLASS BY SEQUENTIAL ION IMPLANTATION. International Journal of Nanoscience, 2007, 06, 423-430.	0.4	9
86	Saturation effects observed in high fluence heavy ion implantation at few tens of keV. Vacuum, 2009, 83, 836-840.	1.6	9
87	Distinct local structure of nanoparticles and nanowires of V ₂ O ₅ probed by x-ray absorption spectroscopy. Applied Physics Letters, 2013, 103, .	1.5	9
88	Dispersive x-ray absorption studies at the Fe K-edge on the iron chalcogenide superconductor FeSe under pressure. Journal of Physics Condensed Matter, 2013, 25, 425704.	0.7	9
89	Pressure dependence of the local structure of iridium ditelluride across the structural phase transition. Physical Review B, 2016, 93, .	1.1	9
90	Transmittance and reflectance measurements at terahertz frequencies on a superconducting BaFe _{1.84} Co _{0.16} As ₂ ultrathin film: an analysis of the optical gaps in the Co-doped BaFe ₂ As ₂ pnictide. European Physical Journal B, 2013, 86, 1.	0.6	8

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91	Local structure response of phase separation and iron-vacancy order in $KxFe_2\hat{a}^ySe_2$ superconductor. Physical Review B, 2014, 90, .	1.1	8
92	Local Noncentrosymmetric Structure of $Bi_2Sr_2CaCu_2O_{8+y}$ by X-ray Magnetic Circular Dichroism at Cu K-Edge XANES. Journal of Superconductivity and Novel Magnetism, 2018, 31, 663-670.	0.8	8
93	Pressure-Induced Structural Behavior of Orthorhombic $Mn_{3/4}(VO_4)_2$: Raman Spectroscopic and X-ray Diffraction Investigations. ACS Omega, 2022, 7, 3099-3108.	1.6	8
94	Anomalous diffusion of Au in mega-electron-volt Au implanted $SiO_2\hat{a}Si(100)$. Journal of Applied Physics, 2007, 101, 063542.	1.1	7
95	Local structural investigation of $SmFeAsO_{1-x}F_x$ high temperature superconductors. Journal of Physics Condensed Matter, 2011, 23, 272201.	0.7	7
96	Determination of temperature-dependent atomic displacements in the $CaMn_2O_4$. Physical Review B, 2014, 90, .		
97	Effect of pressure-driven local structural rearrangement on the superconducting properties of $FeSe_{0.5}Te_{0.5}$. Physical Review B, 2014, 90, .		
98	Defective iron-oxide nanoparticles synthesised by high temperature plasma processing: a magnetic characterisation versus temperature. Nanotechnology, 2016, 27, 445701.	1.3	7
99	Structural properties of \hat{I}^2 -metal(II) hydroxides: Combined XAS and Raman spectroscopic studies on lattice stability. Europhysics Letters, 2018, 122, 66002.	0.7	7
100	Combined micro X-ray absorption and fluorescence spectroscopy to map phases of complex systems: the case of sphalerite. Scientific Reports, 2019, 9, 18857.	1.6	7
101	Crystal structure of monoclinic hafnia (HfO_2) revisited with synchrotron X-ray, neutron diffraction and first-principles calculations. Acta Crystallographica Section C, Structural Chemistry, 2020, 76, 1034-1042.	0.2	7
102	Evaluation of the Defect Cluster Content in Singly and Doubly Doped Ceria through In Situ High-Pressure X-ray Diffraction. Inorganic Chemistry, 2021, 60, 7306-7314.	1.9	7
103	Pressure Induced Hydrogen Order-Disorder Transition in $\hat{I}^2-Ni(OH)_2$. Journal of Physical Chemistry C, 2021, 125, 2785-2792.	1.5	7
104	Low energy Cn cluster ion induced damage effects in Si(100) substrates. Nuclear Instruments & Methods in Physics Research B, 2007, 256, 665-668.	0.6	6
105	Unraveling the Peculiarities in the Temperature-Dependent Structural Evolution of Black Phosphorus. Condensed Matter, 2017, 2, 11.	0.8	6
106	Determination of the local structure of $Sr_{2-x}M_xIrO_4$ (M = K, La) as a function of doping and temperature. Physical Chemistry Chemical Physics, 2018, 20, 23783-23788.	1.3	6
107	Effect of H ₂ O on the Pressure-Induced Amorphization of Hydrated AlPO ₄ -17. Molecules, 2019, 24, 2864.	1.7	6
108	Local structure of A-atom in ABO ₃ perovskites studies by RMC-EXAFS. Radiation Physics and Chemistry, 2020, 175, 108072.	1.4	6

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109	Pressure-dependent modifications in the LaAuSb charge density wave system. <i>Physical Review B</i> , 2021, 103, .		
110	Brucite (Mg(OH)_2) under small perturbation: A combined first principles and synchrotron X-ray diffraction study. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 154, 110078.	1.9	6
111	Measurement of Spin Dynamics in a Layered Nickelate Using X-Ray Photon Correlation Spectroscopy: Evidence for Intrinsic Destabilization of Incommensurate Stripes at Low Temperatures. <i>Physical Review Letters</i> , 2021, 127, 057001.	2.9	6
112	High efficiency gettering of Au in Si(111) by MeV C implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 217, 578-582.	0.6	5
113	Effect of Au irradiation energy on ejection of ZnS nanoparticles from ZnS film. <i>Journal of Applied Physics</i> , 2007, 101, 014313.	1.1	5
114	Local structural studies of $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ using atomic pair distribution function analysis. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 112202.	0.7	5
115	Temperature Dependence of $\sqrt{2} \times \sqrt{2}$ Phase in Superconducting $\text{K}_{0.8}\text{Fe}_{1.6}\text{Se}_2$ Single Crystal. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 1003-1007.	0.8	5
116	Temperature dependent structural modulation in $\text{Ca}_{0.82}\text{La}_{0.18}\text{FeAs}_2$ pnictide superconductors. <i>Superconductor Science and Technology</i> , 2015, 28, 092001.	1.8	5
117	Comparison of the local structures of $\text{Ca}_{0.82}\text{La}_{0.18}\text{FeAs}_2$ and $\text{Ba}_{0.64}\text{K}_{0.36}\text{Fe}_2\text{As}_2$ pnictide superconductors using atomic pair distribution function analysis. <i>Journal of Physics and Chemistry of Solids</i> , 2015, 84, 24-27.	1.9	5
118	Nb K-edge x-ray absorption investigation of the pressure induced amorphization in A-site deficient double perovskite $\text{La}_{1/3}\text{NbO}_3$. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 045401.	0.7	5
119	Local structure of cobalt nanoparticles synthesized by high heat flux plasma process. <i>Radiation Physics and Chemistry</i> , 2017, 137, 108-115.	1.4	5
120	In Situ High Pressure Structural Investigation of Sm-Doped Ceria. <i>Energies</i> , 2020, 13, 1558.	1.6	5
121	Pressure-induced antiferromagnetic dome in the heavy-fermion YbMn_2Pn system. <i>Physical Review B</i> , 2020, 101, .		
122	Intermittent dynamics of antiferromagnetic phase in inhomogeneous iron-based chalcogenide superconductor. <i>Physical Review B</i> , 2020, 101, .	1.1	5
123	High-Pressure Synthesis and Gas-Sensing Tests of 1-D Polymer/Aluminophosphate Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 27237-27244.	4.0	5
124	Role of Pb for Ag growth on H-passivated $\text{Si}(100)$ surfaces. <i>Applied Surface Science</i> , 2005, 249, 31-37.	3.1	4
125	Gettering of implanted Au in MeV C implanted Si. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 82, 297-304.	1.1	4
126	Observation of an enhanced gettering effect in silicon under germanium molecular ion implantation. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 88, 397-400.	1.1	4

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127	Study of low energy $\{m\text{Si}\}_5^-$ and Cs^+ implantation induced amorphization effects in $\text{Si}(1\hat{\epsilon}\%0\hat{\epsilon}\%0)$. Journal Physics D: Applied Physics, 2008, 41, 215305.	1.3	4
128	Study of annealing induced redistribution of implanted Au in Si: Fluence dependence. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 3471-3477.	0.6	4
129	Vibrational spectrum of solid picene ($\text{C}_{22}\text{H}_{14}$). Journal of Physics Condensed Matter, 2012, 24, 252203.	0.7	4
130	Two-band conductivity of a $\text{FeSe}_{0.5}\text{Te}_{0.5}$ film by reflectance measurements in the terahertz and infrared range. Superconductor Science and Technology, 2014, 27, 125011.	1.8	4
131	Effect of chemical pressure on the local structure of $\text{La}^{\sim x}\text{Sm}_x\text{FeAsO}$ system. Superconductor Science and Technology, 2015, 28, 025007.	1.8	4
132	Mesoscopic Stripes in Antiferromagnetic Fe Chalcogenide Probed by Scanning Photoelectron Spectromicroscopy. Journal of the Physical Society of Japan, 2016, 85, 033702.	0.7	4
133	Temperature-Dependent As K-Edge EXAFS Studies of $\text{LaFe}^{\sim x}\text{Co}_x\text{AsO}$ ($x = 0.0$ and 0.11) Single Crystals. Journal of Superconductivity and Novel Magnetism, 2016, 29, 3041-3047.	0.8	4
134	Low-temperature anomalies of EXAFS at the K -edge of As in superconducting $\text{LaFe}_{0.89}\text{Co}_{0.11}\text{AsO}$. Journal of Physics: Conference Series, 2017, 941, 012058.	0.3	4
135	The local structure and magnetic correlations in $\text{La}(\text{Fe}_{1-\text{Mn}})\text{AsO}$ system. Journal of Physics and Chemistry of Solids, 2019, 134, 319-323.	1.9	4
136	Pressure response of decylammonium-containing 2D iodide perovskites. IScience, 2022, 25, 104057.	1.9	4
137	Study of the electronic and magnetic properties as a function of isoelectronic substitution in $\text{SmFe}^{\sim x}\text{Ru}_x\text{AsO}_{0.85}\text{F}_{0.15}$. Journal of Physics Condensed Matter, 2014, 26, 065701.	0.7	3
138	Anderson's impurity-model analysis on $\text{CeO}_{1-x}\text{F}_x\text{BiS}_2$. Journal of Physics: Conference Series, 2015, 592, 012073.	0.3	3
139	The nanoscale structure and unoccupied valence electronic states in $\text{FeSe}^{\sim x}\text{Te}_x$ chalcogenides probed by X-ray absorption measurements. Physical Chemistry Chemical Physics, 2015, 17, 18131-18137.	1.3	3
140	Synthetically tuned structural variations in CePdxGe_{2-x} ($x = 0.21, 0.32, 0.69$) towards diverse physical properties. Inorganic Chemistry Frontiers, 2017, 4, 241-255.	3.0	3
141	Pressure-induced disruption of the local environment of Fe-Fe dimers in FeGa_3 by metallization. Physical Review B, 2018, 98, .		
142	Pressure dependence of room-temperature structural properties of CaAl_2Si_2 . Journal of Physics Condensed Matter, 2020, 32, 365403.	0.7	3
143	Pressure effects on vibrational properties and structure of nanocrystalline $\text{Cu}_2\text{ZnSnS}_4$. Journal of Alloys and Compounds, 2021, 867, 159041.	2.8	3
144	Tuning Size and Shape of Au Nanoparticles Embedded in Silica Glass by Swift Heavy Ion Irradiation. Advanced Science Letters, 2010, 3, 404-410.	0.2	3

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145	Robust evidence for the stabilization of the premartensite phase in Ni-Mn-In magnetic shape memory alloys by chemical pressure. <i>Physical Review Materials</i> , 2021, 5, .	0.9	3
146	Observation of ZnS nanoparticles sputtered from ZnS films under 2MeV Au irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006, 248, 25-30.	0.6	2
147	Two mega-electron volt proton-irradiation effects on fullerene films. <i>Radiation Effects and Defects in Solids</i> , 2007, 162, 223-228.	0.4	2
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