

Jan RUSZ

List of Publications by Year in descending order

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174
papers

3,620
citations

147801

31
h-index

175258

52
g-index

187
all docs

187
docs citations

187
times ranked

2956
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of magnetic circular dichroism using a transmission electron microscope. Nature, 2006, 441, 486-488.	27.8	331
2	Hidden order in URu ₂ Si ₂ originates from Fermi surface gapping induced by dynamic symmetry breaking. Nature Materials, 2009, 8, 337-341.	27.5	134
3	Formation and Structure of Graphene Waves on Fe(110). Physical Review Letters, 2012, 109, 026101.	7.8	122
4	Detection of magnetic circular dichroism on the two-nanometer scale. Physical Review B, 2008, 78, .	3.2	96
5	Electronic structure theory of the hidden-order material URu ₂ Si ₂ . Physical Review B, 2010, 82, .	3.2	91
6	Electronic structure and magnetic properties of URu ₂ Si ₂ alloys. Physical Review B, 2014, 90, .	3.2	90
7	First-principles theory of chiral dichroism in electron microscopy applied to 3d ferromagnets. Physical Review B, 2007, 75, .	3.2	86
8	Sum rules for electron energy loss near edge spectra. Physical Review B, 2007, 76, .	3.2	80
9	Boundaries for Efficient Use of Electron Vortex Beams to Measure Magnetic Properties. Physical Review Letters, 2013, 111, 105504.	7.8	72
10	Magnetic properties of URu ₂ Si ₂ alloys and the effect of doping by Fe. Physical Review B, 2015, 92, .	3.2	62
11	Quantitative Magnetic Information from Reciprocal Space Maps in Transmission Electron Microscopy. Physical Review Letters, 2009, 102, 037201.	7.8	61
12	Stabilization of the tetragonal distortion of FeCo alloys by C impurities: A potential new permanent magnet. Physical Review B, 2014, 89, .	3.2	60
13	Atomic scale imaging of magnetic circular dichroism by achromatic electron microscopy. Nature Materials, 2018, 17, 221-225.	27.5	60
14	Magnetic circular dichroism in EELS: Towards 10nm resolution. Ultramicroscopy, 2008, 108, 433-438.	1.9	59
15	Achieving Atomic Resolution Magnetic Dichroism by Controlling the Phase Symmetry of an Electron Probe. Physical Review Letters, 2014, 113, 145501.	7.8	54
16	Spin and orbital hybridization at specifically nested Fermi surfaces in URu ₂ Si ₂ . Physical Review B, 2011, 84, .	3.2	51
17	Scattering of electron vortex beams on a magnetic crystal: Towards atomic-resolution magnetic measurements. Physical Review B, 2014, 89, .	3.2	51
18	Quantitative characterization of nanoscale polycrystalline magnets with electron magnetic circular dichroism. Nature Communications, 2014, 5, 3138.	12.8	45

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19	Elastic Scattering of Electron Vortex Beams in Magnetic Matter. Physical Review Letters, 2016, 116, 127203.	7.8	44
20	First-principles investigation of higher oxides of uranium and neptunium: UO_3 and NpO_3 .	3.2	43
21	Magnetic measurements with atomic-plane resolution. Nature Communications, 2016, 7, 12672.	12.8	43
22	Increased magnetocrystalline anisotropy in epitaxial Fe-Co-C thin films with spontaneous strain. Journal of Applied Physics, 2014, 116, .	2.5	42
23	Transition between direct and indirect band gap in silicon nanocrystals. Physical Review B, 2013, 87, .	3.2	40
24	Reciprocal and real space maps for EMCD experiments. Ultramicroscopy, 2010, 110, 1380-1389.	1.9	38
25	Local electronic structure information contained in energy-filtered diffraction patterns. Physical Review B, 2011, 84, .	3.2	36
26	Detecting magnetic ordering with atomic size electron probes. Advanced Structural and Chemical Imaging, 2016, 2, .	4.0	36
27	Toward Rare-Earth-Free Permanent Magnets: A Combinatorial Approach Exploiting the Possibilities of Modeling, Shape Anisotropy in Elongated Nanoparticles, and Combinatorial Thin-Film Approach. Jom, 2015, 67, 1318-1328.	1.9	34
28	Energy-loss magnetic chiral dichroism (EMCD): Magnetic chiral dichroism in the electron microscope. Journal of Materials Research, 2008, 23, 2582-2590.	2.6	32
29	Quadratic X-Ray Magneto-Optical Effect upon Reflection in a Near-Normal-Incidence Configuration at the Edges of M_3d -Transition Metals. Physical Review Letters, 2010, 104, 187401.	7.8	32
30	Detection of magnetic circular dichroism with subnanometer convergent electron beams. Physical Review B, 2016, 94, .	3.2	32
31	Optimal aperture sizes and positions for EMCD experiments. Ultramicroscopy, 2008, 108, 865-872.	1.9	31
32	New algorithm for efficient Bloch-waves calculations of orientation-sensitive ELNES. Ultramicroscopy, 2013, 125, 81-88.	1.9	31
33	Magnetic circular dichroism in electron energy loss spectrometry. Ultramicroscopy, 2008, 108, 277-284.	1.9	30
34	Positron Annihilation Studies of the f-Electron Character in Actinides. Physical Review Letters, 2004, 93, 156405.	7.8	29
35	Magnetic properties of NdNi ₂ B ₂ C from first principles calculations. Journal of Alloys and Compounds, 2005, 403, 29-33.	5.5	29
36	From soft to hard magnetic FeCoB by spontaneous strain: a combined first principles and thin film study. Journal of Physics Condensed Matter, 2015, 27, 476002.	1.8	29

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37	Structural discontinuity in the hexagonal $R\bar{1}T$ Al compounds: Experiments and density-functional theory calculations. Physical Review B, 2008, 77, .	3.2	28
38	Unified character of correlation effects in unconventional Pu-based superconductors and $\bar{1}$ -Pu. Physical Review B, 2013, 87, .	3.2	27
39	Quantitative analysis of magnetic spin and orbital moments from an oxidized iron (1 1 0) surface using electron magnetic circular dichroism. Scientific Reports, 2015, 5, 13012.	3.3	27
40	Magnetic properties of $Mn_{1-x}P_xS$ and its alloys with P, S, and Co. Physical Review B, 2016, 93, .	3.2	27
41	Can we use PCA to detect small signals in noisy data?. Ultramicroscopy, 2017, 172, 40-46.	1.9	27
42	Efficient and Versatile Model for Vibrational STEM-EELS. Physical Review Letters, 2020, 124, 025501.	7.8	27
43	Probing the electronic structure of pure and doped $Mn_{1-x}Ce_x$ compounds. Physical Review B, 2016, 93, .	3.2	27

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55	High-kinetic-energy photoemission spectroscopy of Ni at 6-eV satellite at 4 eV . <i>Physical Review B</i> , 2008, 78, .	3.2	20
56	First-principles study of the influence of different interfaces and core types on the properties of CdSe/CdS core-shell nanocrystals. <i>Scientific Reports</i> , 2015, 5, 10865.	3.3	20
57	Asymmetry of the two-beam geometry in EMCD experiments. <i>Journal of Microscopy</i> , 2010, 237, 465-468.	1.8	19
58	First Principles Calculation of the Crystal Field Splitting in Rare Earth Borocarbides. <i>European Physical Journal D</i> , 2002, 52, 283-286.	0.4	18
59	Detection of electron magnetic circular dichroism signals under zone axial diffraction geometry. <i>Ultramicroscopy</i> , 2016, 169, 44-54.	1.9	18
60	Nature off-electrons in CeIn ₃ : Theoretical analysis of positron annihilation data. <i>Physical Review B</i> , 2005, 71, .	3.2	17
61	Momentum-resolved EELS and EMCD spectra from the atomic multiplet theory: Application to magnetite. <i>Ultramicroscopy</i> , 2010, 110, 1042-1045.	1.9	17
62	Magnetic effects in the paraxial regime of elastic electron scattering. <i>Physical Review B</i> , 2016, 94, .	3.2	17
63	Magnetocrystalline anisotropy of Fe_5Mn_5 and its alloys with Co and $\text{Fe}_5\text{Mn}_5\text{d}$ elements: A combined first principles and experimental study. <i>Physical Review B</i> , 2018, 98, .	3.2	17
64	Anisotropy of the $L_{2,3}$ -ray magnetic linear dichroism of Fe films on GaAs: Experiment and ab initio theory. <i>Physical Review B</i> , 2010, 82, .	3.2	16
65	Site-specific electronic configurations of $\text{Fe}3d$ states by energy loss by channeled electrons. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	16
66	Toward Single Mode, Atomic Size Electron Vortex Beams. <i>Microscopy and Microanalysis</i> , 2014, 20, 832-836.	0.4	16
67	An in-plane magnetic chiral dichroism approach for measurement of intrinsic magnetic signals using transmitted electrons. <i>Nature Communications</i> , 2017, 8, 15348.	12.8	16
68	Probing the localization of magnetic dichroism by atomic-size astigmatic and vortex electron beams. <i>Scientific Reports</i> , 2018, 8, 4019.	3.3	16
69	Experimental and theoretical study of electronic structure of lutetium bi-phthalocyanine. <i>Journal of Chemical Physics</i> , 2013, 138, 234701.	3.0	15
70	Unified approach to electronic, thermodynamical, and transport properties of Fe_3Mg . <i>Physical Review B</i> , 2014, 90, .		
71	Towards sub-nanometer real-space observation of spin and orbital magnetism at the Fe/MgO interface. <i>Scientific Reports</i> , 2017, 7, 44802.	3.3	15
72	Atomic Structure and Electron Magnetic Circular Dichroism of Individual Rock Salt Structure Antiphase Boundaries in Spinel Ferrites. <i>Advanced Functional Materials</i> , 2021, 31, 2008306.	14.9	15

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73	Fermi surface changes due to localized delocalized f-state transitions in Ce-115 and Pu-115 compounds. Journal of Magnetism and Magnetic Materials, 2007, 310, 1684-1690.	2.3	14
74	Simulation of magnetic circular dichroism in the electron microscope. Journal Physics D: Applied Physics, 2010, 43, 474005.	2.8	14
75	Magnetic anisotropy of La2Co7. Journal of Applied Physics, 2015, 118, .	2.5	14
76	Tensor decompositions for the analysis of atomic resolution electron energy loss spectra. Ultramicroscopy, 2017, 175, 36-45.	1.9	14
77	Element-selective investigation of femtosecond spin dynamics in NiPd magnetic alloys using extreme ultraviolet radiation. Physical Review B, 2018, 97, .	3.2	14
78	Local low rank denoising for enhanced atomic resolution imaging. Ultramicroscopy, 2018, 187, 34-42.	1.9	14
79	Magnetic Polarization of the Americium Ground State in AmFe ₂ . Physical Review B, 2017, 96, 114407.	7.8	13
80	Magnetic properties of the AmFe ₂ system. Physical Review B, 2017, 96, .	3.2	13
81	Unmixing hyperspectral data by using signal subspace sampling. Ultramicroscopy, 2017, 182, 205-211.	1.9	13
82	Quantum mechanical treatment of atomic-resolution differential phase contrast imaging of magnetic materials. Physical Review B, 2019, 99, .	3.2	13
83	Magnetism in DyFe2Si2 a single-crystal study. Physica B: Condensed Matter, 2005, 367, 19-28.	2.7	12
84	Quantitative magnetic measurements with transmission electron microscope. Journal of Magnetism and Magnetic Materials, 2010, 322, 1478-1480.	2.3	12
85	Atomic site sensitivity of the energy loss magnetic chiral dichroic spectra of complex oxides. Journal of Applied Physics, 2011, 109, 07D328.	2.5	12
86	Aberrated electron probes for magnetic spectroscopy with atomic resolution: Theory and practical aspects. Physical Review B, 2016, 93, .	3.2	12
87	The usage of data compression for the background estimation of electron energy loss spectra. Ultramicroscopy, 2017, 181, 117-122.	1.9	12
88	Magnetic anisotropy in permalloy: Hidden quantum mechanical features. Physical Review B, 2018, 97, .	3.2	12
89	Atomically sharp domain walls in an antiferromagnet. Science Advances, 2022, 8, eabn3535.	10.3	12
90	Positron annihilation study of the electronic structure of URu ₂ Si ₂ Fermi surface and hidden order parameter. Physical Review B, 2009, 79, .	3.2	11

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91	Signal enhancement of electron magnetic circular dichroism by ultra-high-voltage TEM, toward quantitative nano-magnetism measurements. <i>Microscopy (Oxford, England)</i> , 2014, 63, 243-247.	1.5	11
92	Enhanced spin-orbit coupling in tetragonally strained Fe-Co films. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 275802.	1.8	11
93	Analysis of electron energy loss spectroscopy data using geometric extraction methods. <i>Ultramicroscopy</i> , 2017, 174, 14-26.	1.9	11
94	Unconventional metallic magnetism in LaCrSb ₃ . <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, E251-E252.	2.3	10
95	Origin of the negative volume magnetostriction of the intermetallic compound GdAl ₂ . <i>Journal of Alloys and Compounds</i> , 2007, 431, 37-41.	5.5	10
96	Exceptional Ising magnetic behavior of itinerant spin-polarized carriers in URu ₂ Si ₂ . <i>Physical Review B</i> , 2014, 90, .	3.2	10
97	Size dependence of the stability, electronic structure, and optical properties of silicon nanocrystals with various surface impurities. <i>Physical Review B</i> , 2015, 91, .	3.2	10
98	Influence of Cobalt Substitution on the Magnetic Properties of Fe ₅ PB ₂ . <i>Inorganic Chemistry</i> , 2018, 57, 777-784.	4.0	10
99	Electronic Structure of RCo ₂ (R = Y, Nd, Ho, Er). <i>European Physical Journal D</i> , 2002, 52, 247-252.	0.4	9
100	Cancellation of probe effects in measurements of spin-polarized momentum density by electron-positron annihilation. <i>Journal of Physics Condensed Matter</i> , 2006, 18, L289-L295.	1.8	9
101	Electronic structure and Fermi surface of paramagnetic and antiferromagnetic UPt ₂ Si ₂ . <i>Physical Review B</i> , 2012, 86, .	3.2	9
102	Energy Loss by Channeled Electrons: A Quantitative Study on Transition Metal Oxides. <i>Microscopy and Microanalysis</i> , 2013, 19, 1586-1594.	0.4	9
103	Influence of nuclear quantum effects on frozen phonon simulations of electron vortex beam HAADF-STEM images. <i>Ultramicroscopy</i> , 2016, 164, 62-69.	1.9	9
104	Mapping of Defects in Individual Silicon Nanocrystals Using Real-Space Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1047-1054.	4.6	9
105	On the origin of perpendicular magnetic anisotropy in strained Fe-Co(X) films. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 045003.	2.8	9
106	Localization of magnetic circular dichroic spectra in transmission electron microscopy experiments with atomic plane resolution. <i>Physical Review B</i> , 2017, 95, .	3.2	9
107	Electronic structure and magnetic properties of selected UTX compounds: LDA +U approach. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 6675-6684.	1.8	8
108	Ab initio calculations of Curie temperatures in GdX compounds. <i>Journal of Alloys and Compounds</i> , 2006, 408-412, 930-933.	5.5	8

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109	Local investigation of electronic structure, electric field gradients, and photoemission of PuCoGa ₅ and PuRhGa ₅	3.2	8
110	Orbital angular momentum resolved electron magnetic chiral dichroism. Physical Review B, 2019, 100, .	3.2	8
111	Single-pass STEM-EMCD on a zone axis using a patterned aperture: progress in experimental and data treatment methods. Scientific Reports, 2019, 9, 18170.	3.3	8
112	Three-dimensional and temperature-dependent electronic structure of the heavy-fermion compound CePt ₂ studied by angle-resolved photoemission spectroscopy. Physical Review B, 2020, 101, .	3.2	8
113	Frequency-resolved frozen phonon multislice method and its application to vibrational electron energy loss spectroscopy using parallel illumination. Physical Review B, 2021, 104, .	3.2	8
114	Theory of magnon diffuse scattering in scanning transmission electron microscopy. Physical Review B, 2021, 104, .	3.2	8
115	Electronic structure and lattice geometry of LaPtSn. Journal of Alloys and Compounds, 2004, 376, 28-33.	5.5	7
116	Influence of dimensionality and interface type on optical and electronic properties of CdS/ZnS core-shell nanocrystals: A first-principles study. Journal of Chemical Physics, 2015, 143, 164701.	3.0	7
117	Crystal electric field splitting and f -electron hybridization in heavy-fermion CePt ₂ . Physical Review B, 2019, 100, .	3.2	7
118	Proposal for Measuring Magnetism with Patterned Apertures in a Transmission Electron Microscope. Physical Review Letters, 2019, 122, 037201.	7.8	7
119	Defect driven spin state transition and the existence of half-metallicity in CoO. Journal of Physics Condensed Matter, 2019, 31, 115602.	1.8	7
120	Simulations of spatially and angle-resolved vibrational electron energy loss spectroscopy for a system with a planar defect. Physical Review B, 2021, 104, .	3.2	7
121	Atomic resolution energy-loss magnetic chiral dichroism measurements enabled by patterned apertures. Physical Review Research, 2020, 2, .	3.6	7
122	Positron wave-function effects in the measurement of the two-dimensional angular correlation of the annihilation radiation of a spin-polarized system. Physical Review B, 2007, 75, .	3.2	6
123	Exchange interactions and correlations in Heusler alloys. Journal of Magnetism and Magnetic Materials, 2007, 310, 1654-1656.	2.3	6
124	Magnetocrystalline anisotropy in x-ray magnetic linear dichroism at the 3pedges of crystalline Fe thin films. Physical Review B, 2014, 89, .	3.2	6
125	Jacob's ladder of approximations to paraxial dynamic electron scattering. Physical Review B, 2015, 92, .	3.2	6
126	Detection of magnetic circular dichroism in amorphous materials utilizing a single-crystalline overlayer. Physical Review Materials, 2017, 1, .	2.4	6

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127	ism of UPTAl and UIrAl; $\langle \text{mml:math altimg="si2.gif" overflow="scroll" display="inline" \rangle < \text{mml:mrow} < \text{mml:mi} > \text{h} < \text{mml:mi} > < \text{mml:mrow} > < \text{mml:math} > \text{BN}$, and their alloy. Physical Review B, 2013, 87, .	2.3	5
128	Calculations of magnetic transition temperatures of Gd-based compounds. Physica B: Condensed Matter, 2006, 378-380, 1079-1080.	2.7	5
129	The electronic structure and crystal field of RPt ₃ Si (R=Pr, Nd, Sm) compounds. Physica B: Condensed Matter, 2007, 400, 114-118.	2.7	5
130	X-ray absorption spectra: Graphene, $\langle \text{mml:math mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle < \text{mml:mrow} < \text{mml:mi} > \text{h} < \text{mml:mi} > < \text{mml:mrow} > < \text{mml:math} > \text{BN}$, and their alloy. Physical Review B, 2013, 87, .	3.2	5
131	Angle-resolved photoemission spectroscopy view on the nature of Ce $\langle \text{mml:math mml="http://www.w3.org/1998/Math/MathML" \rangle < \text{mml:mn} > 4 < \text{mml:mn} > < \text{mml:mi} > \text{f} < \text{mml:mi} > < \text{mml:math} > \text{electrons}$ in the antiferromagnetic Kondo lattice $\langle \text{mml:math mml="http://www.w3.org/1998/Math/MathML" \rangle < \text{mml:mrow} < \text{mml:mi} > \text{Ce} < \text{mml:mi} > < \text{mml:msub} < \text{mml:mi} > \text{Pd} < \text{mml:mi} > < \text{mml:math} > \text{Physical Review B}$, 2021, 103, .	3.2	5
132	Exchange interactions and crystal-field effects in HoX (, Cd, Cu, Mg, Rh, Zn) intermetallic compounds. Physica B: Condensed Matter, 2006, 381, 265-270.	2.7	4
133	Spin and orbital magnetism of FeBr ₂ : a density functional theory study. Journal of Physics Condensed Matter, 2008, 20, 025217.	1.8	4
134	Electron tomography analysis of 3D interfacial nanostructures appearing in annealed Si rich SiC films. Nanoscale, 2017, 9, 6703-6710.	5.6	4
135	Fully nonlocal inelastic scattering computations for spectroscopical transmission electron microscopy methods. Physical Review B, 2017, 96, .	3.2	4
136	Proposal for a three-dimensional magnetic measurement method with nanometer-scale depth resolution. Physical Review B, 2018, 98, .	3.2	4
137	Blind identification of magnetic signals in electron magnetic chiral dichroism using independent component analysis. Ultramicroscopy, 2018, 195, 129-135.	1.9	4
138	Prospect for detecting magnetism of a single impurity atom using electron magnetic chiral dichroism. Physical Review B, 2019, 100, .	3.2	4
139	On the Usefulness of the LDA+U Calculations of the Crystal Field in Insulators. European Physical Journal D, 2004, 54, 291-294.	0.4	3
140	Magnetism in RECo ₂ compounds under pressure. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E383-E385.	2.3	3
141	A multislice theory of electron scattering in crystals including backscattering and inelastic effects. Ultramicroscopy, 2015, 159, 11-18.	1.9	3
142	Communication: Visualization and spectroscopy of defects induced by dehydrogenation in individual silicon nanocrystals. Journal of Chemical Physics, 2016, 144, 241102.	3.0	3
143	Vorticity in electron beams: Definition, properties, and its relationship with magnetism. Physical Review B, 2016, 94, .	3.2	3
144	Understanding electron magnetic circular dichroism in a transition potential approach. Physical Review B, 2018, 97, .	3.2	3

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145	Dynamical diffraction effects in STEM orbital angular momentum resolved electron energy-loss magnetic chiral dichroism. <i>Physical Review B</i> , 2020, 102, .	3.2	3
146	Parameterization of magnetic vector potentials and fields for efficient multislice calculations of elastic electron scattering. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2021, 77, 509-518.	0.1	3
147	Spin and orbital moment sum-rules for the electron energy loss chiral magnetic dichroism. <i>Physica B: Condensed Matter</i> , 2008, 403, 1614-1615.	2.7	2
148	Mapping Magnetic Properties of Materials At Atomic Spatial Resolution. <i>Microscopy and Microanalysis</i> , 2015, 21, 499-500.	0.4	2
149	Mapping Magnetic Ordering With Aberrated Electron Probes in STEM. <i>Microscopy and Microanalysis</i> , 2016, 22, 1676-1677.	0.4	2
150	Towards Nanometer-Scale Three-Dimensional Magnetic Studies with Atomic Size Electron Vortex Beams. <i>Microscopy and Microanalysis</i> , 2018, 24, 918-919.	0.4	2
151	Electronic specific heat coefficient and magnetic properties of YFe_2 Laves phases: A combined experimental and first-principles study. <i>Physical Review B</i> , 2019, 100, .	3.2	2
152	Simultaneous mapping of EMCD signals and crystal orientations in a transmission electron microscope. <i>Scientific Reports</i> , 2021, 11, 2180.	3.3	2
153	Simple method for optimization of classical electron magnetic circular dichroism measurements: The role of structure factor and extinction distances. <i>Physical Review Materials</i> , 2018, 2, .	2.4	2
154	The 4f-Hybridization Strength in $\text{Ce}_m\text{M}_n\text{In}_{3m+2n}$ Heavy-Fermion Compounds Studied by Angle-Resolved Photoemission Spectroscopy. <i>Chinese Physics Letters</i> , 2021, 38, 107402.	3.3	2
155	Inelastic neutron scattering spectra in f-electron compounds: first-principles calculations. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s772-s774.	2.3	1
156	LSDA+U Calculations of UIrAl and UPtAl. <i>European Physical Journal D</i> , 2004, 54, 363-366.	0.4	1
157	Band alignment switching and the interaction between neighboring silicon nanocrystals embedded in a SiC matrix. <i>Physical Review B</i> , 2015, 91, .	3.2	1
158	Electron Vortex Beams for Magnetic Measurements on Ferromagnetic Samples via STEM. <i>Microscopy and Microanalysis</i> , 2015, 21, 505-506.	0.4	1
159	Image and Spectrum Image Denoising under the local low Rank Assumption. <i>Microscopy and Microanalysis</i> , 2018, 24, 578-579.	0.4	1
160	Probing the Proximity of Magnetic Dichroic Signal in Electron Magnetism Circular Dichroism by Atomic Sized Electron Vortex Beam and Four Fold Astigmatic Beams.. <i>Microscopy and Microanalysis</i> , 2018, 24, 922-923.	0.4	1
161	Towards topological spectroscopy in the electron microscope with atomic resolution. <i>Microscopy and Microanalysis</i> , 2018, 24, 926-927.	0.4	1
162	Theory of Spontaneous Volume Magnetostriction in Rare-earth-based Systems. <i>European Physical Journal D</i> , 2004, 54, 279-282.	0.4	0

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163	Magnetic Properties of Selected RFe ₂ Si ₂ Compounds. European Physical Journal D, 2004, 54, 283-286.	0.4	0
164	Electronic Structure and Lattice Geometry of LaPtSn.. ChemInform, 2004, 35, no.	0.0	0
165	EMCD: Magnetic Chiral Dichroism in the Electron Microscope. Materials Research Society Symposia Proceedings, 2007, 1026, 1.	0.1	0
166	Detection of Magnetic Circular Dichroism Using TEM and EELS. NATO Science for Peace and Security Series B: Physics and Biophysics, 2012, , 419-427.	0.3	0
167	B11-O-13A New Atomic Scale EMCD Measurement Scheme by STEM-EELS under 3-beam Diffraction Condition. Microscopy (Oxford, England), 2015, 64, i16.2-i16.	1.5	0
168	Spin-Multisllice Applied to the Electron Spin Interaction with Materials. Microscopy and Microanalysis, 2015, 21, 1961-1962.	0.4	0
169	B11-P-01Magnetocrystalline anisotropy of hexagonal Co by relative intensities of electron magnetic circular dichroic signals. Microscopy (Oxford, England), 2015, 64, i78.1-i78.	1.5	0
170	Quantifying Magnetism on the nm Scale: EMCD on Individual FePt Nanoparticles. Microscopy and Microanalysis, 2016, 22, 1674-1675.	0.4	0
171	Improvements towards the inclusion of magnetic effects in large-scale multislice calculations of elastic electron scattering. Microscopy and Microanalysis, 2021, 27, 3338-3339.	0.4	0
172	Electronic Structure of PrCo ₂ Ge ₂ . Acta Physica Polonica A, 2008, 113, 295-298.	0.5	0
173	Evidence for a delocalization quantum phase transition without symmetry breaking in CeCoIn. Science, 2021, , eaaz4566.	12.6	0
174	A study on the relationship of magnetic moments orientation in L10 FePt network nanostructured film by electron energy-loss magnetic chiral dichroism using semi-core excitation spectra. Journal of Magnetism and Magnetic Materials, 2022, 558, 169522.	2.3	0