R E Dunin-Borkowski

List of Publications by Year
in descending order

598 papers	18,651 citations	16451 64 h-index	24982 109 g-index

637 all docs	637 docs citations	637 times ranked	20884 citing authors

#	Article	IF	Citations
1	Quantitative imaging of the magnetic field distribution in an artificial spin ice studied by off-axis electron holography. Journal of Magnetism and Magnetic Materials, 2022, 543, 168535.	2.3	2
2	Continuous illumination picosecond imaging using a delay line detector in a transmission electron microscope. Ultramicroscopy, 2022, 233, 113392.	1.9	5
3	Local magnetic spin mismatch promoting photocatalytic overall water splitting with exceptional solar-to-hydrogen efficiency. Energy and Environmental Science, 2022, 15, 265-277.	30.8	37
4	All room-temperature synthesis, N2 photofixation and reactivation over 2D cobalt oxides. Applied Catalysis B: Environmental, 2022, 304, 121001.	20.2	11
5	Theoretical and practical aspects of the design and production of synthetic holograms for transmission electron microscopy. Journal of Applied Physics, 2022, 131, .	2.5	5
6	Operando transmission electron microscopy of battery cycling: thickness dependent breaking of TiO₂ coating on Si/SiO₂ nanoparticles. Chemical Communications, 2022, 58, 3130-3133.	4.1	2
7	A High Conductivity 1D Ï€â€“d Conjugated Metalâ€“Organic Framework with Efficient Polysulfide Trappingâ€Diffusionâ€Catalysis in Lithiumâ€“Sulfur Batteries. Advanced Materials, 2022, 34, e2108835.	21.0	86
8	Prospect for measuring two-dimensional van der Waals magnets by electron magnetic chiral dichroism. Ultramicroscopy, 2022, 234, 113476.	1.9	1
9	Amorphizing noble metal chalcogenide catalysts at the single-layer limit towards hydrogen production. Nature Catalysis, 2022, 5, 212-221.	34.4	113
10	Enhanced Polysulfide Conversion with Highly Conductive and Electrocatalytic Iodineâ€Doped Bismuth Selenide Nanosheets in Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2022, 32, .	14.9	49
11	Direct growth of single-metal-atom chains. , 2022, 1, 245-253.		16
12	Highly complex magnetic behavior resulting from hierarchical phase separation in AlCo(Cr)FeNi high-entropy alloys. IScience, 2022, 25, 104047.	4.1	8
13	TiN nanobridge Josephson junctions and nanoSQUIDs on SiN-buffered Si. Superconductor Science and Technology, 2022, 35, 065001.	3.5	6
14	Imaging biological macromolecules in thick specimens: The role of inelastic scattering in cryoEM. Ultramicroscopy, 2022, 237, 113510.	1.9	14
15	A novel Ï€-d conjugated cobalt tetraaza[14]annulene based atomically dispersed electrocatalyst for efficient CO2 reduction. Chemical Engineering Journal, 2022, 442, 136129.	12.7	16
16	Unveiling the three-dimensional magnetic texture of skyrmion tubes. Nature Nanotechnology, 2022, 17, 250-255.	31.5	45
17	Atomic-Scale Insights into Nickel Exsolution on LaNiO₃ Catalysts via In Situ Electron Microscopy. Journal of Physical Chemistry C, 2022, 126, 786-796.	3.1	14
18	Progress on Emerging Ferroelectric Materials for Energy Harvesting, Storage and Conversion. Advanced Energy Materials, 2022, 12, .	19.5	45

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19	Molecular engineering to introduce carbonyl between nickel salophen active sites to enhance electrochemical CO2 reduction to methanol. Applied Catalysis B: Environmental, 2022, 314, 121451.	20.2	32
20	A Self-Flux-Biased NanoSQUID with Four NbN-TiN-NbN Nanobridge Josephson Junctions. Electronics (Switzerland), 2022, 11, 1704.	3.1	4
21	Diversity of states in a chiral magnet nanocylinder. APL Materials, 2022, 10, .	5.1	2
22	Highly Active and Stable Large Mo-Doped Ptâ€“Ni Octahedral Catalysts for ORR: Synthesis, Post-treatments, and Electrochemical Performance and Stability. ACS Applied Materials & Interfaces, 2022, 14, 29690-29702.	8.0	6
23	Skyrmionâ€“antiskyrmion pair creation and annihilation in a cubic chiral magnet. Nature Physics, 2022, 18, 863-868.	16.7	17
24	Extraction of 3D quantitative maps using EDS-STEM tomography and HAADF-EDS bimodal tomography. Ultramicroscopy, 2021, 220, 113166.	1.9	0
25	Atomically dispersed Fe in a C₂N Based Catalyst as a Sulfur Host for Efficient Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2021, 11, 2003507.	19.5	91
26	Towards data-driven next-generation transmission electron microscopy. Nature Materials, 2021, 20, 274-279.	27.5	130
27	Off-axis electron holography of NÃ©el-type skyrmions in multilayers of heavy metals and ferromagnets. Ultramicroscopy, 2021, 220, 113155.	1.9	9
28	A cartridge-based turning specimen holder with wireless tilt angle measurement for magnetic induction mapping in the transmission electron microscope. Ultramicroscopy, 2021, 220, 113098.	1.9	8
29	In Situ Observation of Pointâ€Defectâ€Induced Unitâ€Cellâ€Wise Energy Storage Pathway in Antiferroelectric PbZrO₃. Advanced Functional Materials, 2021, 31, 2008609.	14.9	18
30	Atomic-Scale Characterization of Commensurate and Incommensurate Vacancy Superstructures in Natural Pyrrhotites. American Mineralogist, 2021, 106, 82-96.	1.9	4
31	Mechanism of magnetization reduction in iron oxide nanoparticles. Nanoscale, 2021, 13, 6965-6976.	5.6	25
32	Bulk nanomachining of cantilevers with Nb nanoSQUIDs based on nanobridge Josephson junctions. Superconductor Science and Technology, 2021, 34, 035014.	3.5	8
33	2Dâ€Organic Layered Materials: Atomically dispersed Fe in a C₂N Based Catalyst as a Sulfur Host for Efficient Lithiumâ€“Sulfur Batteries (Adv. Energy Mater. 5/2021). Advanced Energy Materials, 2021, 11, 2170022.	19.5	3
34	Multifunctional Noble Metal Phosphide Electrocatalysts for Organic Molecule Electro-Oxidation. ACS Applied Energy Materials, 2021, 4, 1593-1600.	5.1	12
35	Efficient large field of view electron phase imaging using near-field electron ptychography with a diffuser. Ultramicroscopy, 2021, 231, 113257.	1.9	13
36	Atomic Structure and Electron Magnetic Circular Dichroism of Individual Rock Salt Structure Antiphase Boundaries in Spinel Ferrites. Advanced Functional Materials, 2021, 31, 2008306.	14.9	15

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37	Multiple polarization orders in individual twinned colloidal nanocrystals of centrosymmetric HfO2. Matter, 2021, 4, 986-1000.	10.0	15
38	Operando high-pressure investigation of size-controlled CuZn catalysts for the methanol synthesis reaction. Nature Communications, 2021, 12, 1435.	12.8	62
39	Experimental Demonstration of an Electrostatic Orbital Angular Momentum Sorter for Electron Beams. Physical Review Letters, 2021, 126, 094802.	7.8	39
40	Introduction to a special issue on Frontiers of Aberration Corrected Electron Microscopy in honour of Wolfgang Baumeister, Colin Humphreys, John Spence and Knut Urban on the occasion of their 75th, 80th, 75th and 80th birthdays. Ultramicroscopy, 2021, 231, 113290.	1.9	0
41	A sorter for electrons based on magnetic elements. Ultramicroscopy, 2021, 231, 113287.	1.9	1
42	Combining quantitative ADF STEM with SiNx membrane-based MEMS devices: A simulation study with Pt nanoparticles. Ultramicroscopy, 2021, 231, 113270.	1.9	0
43	Influence of surface band bending on a narrow band gap semiconductor: Tunneling atomic force studies of graphite with Bernal and rhombohedral stacking orders. Physical Review Materials, 2021, 5, .	2.4	5
44	Multifunctional Noble Metal Phosphide Electrocatalysts for the Organic Molecule Electro-Oxidation. ECS Meeting Abstracts, 2021, MA2021-01, 2073-2073.	0.0	0
45	Microstructural insights into the coercivity enhancement of grain-boundary-diffusion-processed Tb-treated Nd-Fe-B sintered magnets beyond the core-shell formation mechanism. Journal of Alloys and Compounds, 2021, 864, 158915.	5.5	17
46	Temperature dependence of magnetization processes in Sm(Co, Fe, Cu, Zr)z magnets with different nanoscale microstructures. Journal of Applied Physics, 2021, 129, .	2.5	5
47	Unravelling Magnetic Nanochain Formation in Dispersion for In Vivo Applications. Advanced Materials, 2021, 33, e2008683.	21.0	11
48	Atomically-resolved interlayer charge ordering and its interplay with superconductivity in YBa2Cu3O6.81. Nature Communications, 2021, 12, 3893.	12.8	2
49	Influence of crystalline defects on magnetic nanodomains in a rare-earth-free magnetocrystalline anisotropic alloy. Physical Review Materials, 2021, 5, .	2.4	4
50	Magnetic Nanoparticles: Unravelling Magnetic Nanochain Formation in Dispersion for In Vivo Applications (Adv. Mater. 24/2021). Advanced Materials, 2021, 33, 2170189.	21.0	0
51	Differentiation between strain and charge mediated magnetoelectric coupling in La_{0.7}Sr_{0.3}MnO₃/Pb(Mg_{1/3}Nb_{2/3})_{0.7}Ti_{0.3}. New Journal of Physics, 2021, 23, 063043.	2.5	0
52	Reducing Decoherence in Fluctuation Electron Microscopy. Microscopy and Microanalysis, 2021, 27, 1776-1777.	0.4	1
53	In situ transmission electron microscopy of magnetic transitions. Microscopy and Microanalysis, 2021, 27, 2174-2176.	0.4	0
54	How much can inelastically scattered electrons contribute to electron cryotomography of biological specimens?. Microscopy and Microanalysis, 2021, 27, 3212-3214.	0.4	0

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55	Non-topographic current contrast in scanning field emission microscopy. Royal Society Open Science, 2021, 8, 210511.	2.4	2
56	Focused ion beam fabrication of Janus bimetallic cylinders acting as drift tube Zernike phase plates for electron microscopy. Journal of Applied Physics, 2021, 130, 024507.	2.5	3
57	Towards laser printing of magnetocaloric structures by inducing aÂmagnetic phase transition in iron-rhodium nanoparticles. Scientific Reports, 2021, 11, 13719.	3.3	3
58	Estimating illumination coherence width from focused-probe intensity profiles. Microscopy and Microanalysis, 2021, 27, 738-740.	0.4	0
59	Three-Dimensional Measurement of Magnetic Moment Vectors Using Electron Magnetic Chiral Dichroism at Atomic Scale. Physical Review Letters, 2021, 127, 087202.	7.8	3
60	Live Processing of Momentum-Resolved STEM Data for First Moment Imaging and Ptychography. Microscopy and Microanalysis, 2021, 27, 1078-1092.	0.4	13
61	Single-particle cryo-EM: alternative schemes to improve dose efficiency. Journal of Synchrotron Radiation, 2021, 28, 1343-1356.	2.4	5
62	Alignment of electron optical beam shaping elements using a convolutional neural network. Ultramicroscopy, 2021, 228, 113338.	1.9	10
63	Molecular Engineering to Tune the Ligand Environment of Atomically Dispersed Nickel for Efficient Alcohol Electrochemical Oxidation. Advanced Functional Materials, 2021, 31, 2106349.	14.9	27
64	Ferroelectric phase-transition frustration near a tricritical composition point. Nature Communications, 2021, 12, 5322.	12.8	18
65	Magnetic skyrmion braids. Nature Communications, 2021, 12, 5316.	12.8	22
66	Discovery and Implications of Hidden Atomic-Scale Structure in a Metallic Meteorite. Nano Letters, 2021, 21, 8135-8142.	9.1	4
67	Experimental realization of aâ€‰<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e889" altimg="si21.svg"><mml:mi>Ï€</mml:mi></mml:math>/2 vortex mode converter for electrons using a spherical aberration corrector. Ultramicroscopy, 2021, 229, 113340.	1.9	8
68	Titanium Nitride as a New Prospective Material for NanoSQUIDs and Superconducting Nanobridge Electronics. Nanomaterials, 2021, 11, 466.	4.1	12
69	Shaping of Electron Beams Using Sculpted Thin Films. ACS Photonics, 2021, 8, 3394-3405.	6.6	8
70	Voltage-controlled three-electron-beam interference by a three-element Boersch phase shifter with top and bottom shielding electrodes. , 2021, , .		1
71	Structural Phase Transition and In-Situ Energy Storage Pathway in Nonpolar Materials: A Review. Materials, 2021, 14, 7854.	2.9	15
72	Design of electrostatic phase elements for sorting the orbital angular momentum of electrons. Ultramicroscopy, 2020, 208, 112861.	1.9	20

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73	Measurement of charge density in nanoscale materials using off-axis electron holography. Journal of Electron Spectroscopy and Related Phenomena, 2020, 241, 146881.	1.7	9
74	The grainâ€boundary resistance of CeO₂ ceramics: A combined microscopyâ€spectroscopyâ€simulation study of a dilute solution. Journal of the American Ceramic Society, 2020, 103, 1755-1764.	3.8	10
75	Direct measurement of electrostatic potentials at the atomic scale: A conceptual comparison between electron holography and scanning transmission electron microscopy. Ultramicroscopy, 2020, 210, 112926.	1.9	15
76	Engineering stable electrocatalysts by synergistic stabilization between carbide cores and Pt shells. Nature Materials, 2020, 19, 287-291.	27.5	120
77	Observation of oxygen pyramid tilting induced polarization rotation in strained BiFeO 3 thin film. Journal of the American Ceramic Society, 2020, 103, 2828-2834.	3.8	0
78	Structural perspective on revealing heat dissipation behavior of CoFe2O4â€“Pd nanohybrids: great promise for magnetic fluid hyperthermia. Physical Chemistry Chemical Physics, 2020, 22, 26728-26741.	2.8	4
79	Discovery of Realâ€Space Topological Ferroelectricity in Metallic Transition Metal Phosphides. Advanced Materials, 2020, 32, e2003479.	21.0	13
80	Size dependent oxygen reduction and methanol oxidation reactions: catalytic activities of PtCu octahedral nanocrystals. Catalysis Science and Technology, 2020, 10, 5501-5512.	4.1	18
81	Effect of annealing on the magnetic states of FEBIDâ€grown cobalt nanopatterns examined by offâ€axis electron holography. Journal of Microscopy, 2020, 279, 217-221.	1.8	2
82	Interplay of intrinsic and extrinsic states in pinning and passivation of m-plane facets of GaN n-p-n junctions. Journal of Applied Physics, 2020, 128, .	2.5	2
83	Strong size selectivity in the self-assembly of rounded nanocubes into 3D mesocrystals. Nanoscale Horizons, 2020, 5, 1065-1072.	8.0	9
84	Robust nature of the chiral spin helix in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Cr</mml:mi><mml:msub><mml:mi>Nb</mml:mi><mml:m mathvariant="normal">S</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math> nanostructures studied by off-axis electron holography. Physical Review B, 2020, 102, .	3.2	8
85	Cobalt Hexacyanoferrate as a Selective and High Current Density Formate Oxidation Electrocatalyst. ACS Applied Energy Materials, 2020, 3, 9198-9207.	5.1	15
86	Three-dimensional Charge Density and Electric Field Mapping of an Electrically Biased Needle Using Off-axis Electron Holography. Microscopy and Microanalysis, 2020, 26, 1540-1542.	0.4	0
87	Unconventional magnetization textures and domain-wall pinning in Smâ€“Co magnets. Scientific Reports, 2020, 10, 21209.	3.3	14
88	Dynamical diffraction effects in STEM orbital angular momentum resolved electron energy-loss magnetic chiral dichroism. Physical Review B, 2020, 102, .	3.2	3
89	Near-4D STEM with an Orbital Angular Momentum Sorter: Advantages and Challenges. Microscopy and Microanalysis, 2020, 26, 236-238.	0.4	1
90	Design, Realization and Challenges of an Orbital Angular Momentum Sorter: A New Instrument for Phase Microscopy. Microscopy and Microanalysis, 2020, 26, 1538-1539.	0.4	1

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91	Project Tomo: Toward Atomic-scale Analytical Tomography. Microscopy and Microanalysis, 2020, 26, 2618-2621.	0.4	3
92	Fabrication of low aspect ratio three-element Boersch phase shifters for voltage-controlled three electron beam interference. Journal of Applied Physics, 2020, 128, 134502.	2.5	7
93	Combination of Electron Energy-loss Spectroscopy and Orbital Angular Momentum Spectroscopy. Applications to Electron Magnetic Chiral Dichroism, Plasmon-loss, and Core-loss. Microscopy and Microanalysis, 2020, 26, 1752-1753.	0.4	1
94	Operando Transmission Electron Microscopy Study of All-Solid-State Battery Interface: Redistribution of Lithium among Interconnected Particles. ACS Applied Energy Materials, 2020, 3, 5101-5106.	5.1	14
95	STEM electron beam-induced current measurements of organic-inorganic perovskite solar cells. Ultramicroscopy, 2020, 217, 113047.	1.9	7
96	A Comparative Study of the Catalytic Performance of Pt-Based Bi and Trimetallic Nanocatalysts Towards Methanol, Ethanol, Ethylene Glycol, and Glycerol Electro-Oxidation. Journal of Nanoscience and Nanotechnology, 2020, 20, 6274-6285.	0.9	3
97	Quantitative measurement of charge accumulation along a quasi-one-dimensional W₅O₁₄ nanowire during electron field emission. Nanoscale, 2020, 12, 10559-10564.	5.6	7
98	Magnetic quantification of single-crystalline Fe and Co nanowires via off-axis electron holography. Journal of Chemical Physics, 2020, 152, 114202.	3.0	4
99	Visualizing Magnetic Structure in 3D Nanoscale Niâ€“Fe Gyroid Networks. Nano Letters, 2020, 20, 3642-3650.	9.1	25
100	Energy Storage: An Unconventional Transient Phase with Cycloidal Order of Polarization in Energyâ€Storage Antiferroelectric PbZrO₃ (Adv. Mater. 9/2020). Advanced Materials, 2020, 32, 2070069.	21.0	2
101	MoRe/YBCO Josephson junctions and Ï€-loops. Superconductor Science and Technology, 2020, 33, 044005.	3.5	4
102	Energy-level quantization and single-photon control of phase slips in YBa2Cu3O7â€“x nanowires. Nature Communications, 2020, 11, 763.	12.8	27
103	Solute Incorporation at Oxideâ€“Oxide Interfaces Explains How Ternary Mixedâ€Metal Oxide Nanocrystals Support Elementâ€Specific Anisotropic Growth. Advanced Functional Materials, 2020, 30, 1909054.	14.9	2
104	An Unconventional Transient Phase with Cycloidal Order of Polarization in Energyâ€Storage Antiferroelectric PbZrO₃. Advanced Materials, 2020, 32, e1907208.	21.0	54
105	Linear-regioselective hydromethoxycarbonylation of styrene using Ru-clusters/CeO2 catalyst. Chinese Journal of Catalysis, 2020, 41, 963-969.	14.0	11
106	Room-Temperature Skyrmions at Zero Field in Exchange-Biased Ultrathin Films. Physical Review Applied, 2020, 13, .	3.8	29
107	Self-Epitaxial Hetero-Nanolayers and Surface Atom Reconstruction in Electrocatalytic Nickel Phosphides. ACS Applied Materials & Interfaces, 2020, 12, 21616-21622.	8.0	9
108	Generation of electron vortices using nonexact electric fields. Physical Review Research, 2020, 2, .	3.6	18

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109	Next-Generation Information Technology Systems for Fast Detectors in Electron Microscopy. , 2020, , 83-120.		5
110	LiberTEM: Software platform for scalable multidimensional data processing in transmission electron microscopy. Journal of Open Source Software, 2020, 5, 2006.	4.6	26
111	Magnetic Field Mapping using Off-Axis Electron Holography in the Transmission Electron Microscope. Journal of Visualized Experiments, 2020, , .	0.3	0
112	Interplay of anomalous strain relaxation and minimization of polarization changes at nitride semiconductor heterointerfaces. Physical Review B, 2020, 102, .	3.2	3
113	Focused Electron-Beam Induced Deposition, In Situ TEM And Off-Axis Electron Holography Investigation of Bi-Magnetic Core-Shell Nanostructures. Microscopy and Microanalysis, 2019, 25, 56-57.	0.4	0
114	Model-Based Iterative Reconstruction of Charge Density in Nanoscale Materials using Off-Axis Electron Holography. Microscopy and Microanalysis, 2019, 25, 48-49.	0.4	0
115	Three-dimensional electric field mapping of an electrically biased atom probe needle using off-axis electron holography. Microscopy and Microanalysis, 2019, 25, 326-327.	0.4	6
116	Reconstruction of Projected and 3D Magnetization Distributions from Electron-Optical Phase Images using an Iterative Model-Based Algorithm. Microscopy and Microanalysis, 2019, 25, 1806-1807.	0.4	0
117	Understanding the Formation Mechanism of Magnetic Mesocrystals with (Cryo-)Electron Microscopy. Chemistry of Materials, 2019, 31, 7320-7328.	6.7	22
118	Temperature-Induced Structural Reorganization of W-Doped Ba_{0.5}Sr_{0.5}Co_{0.8}Fe_{0.2}O_{3â˜Î´} Composite Membranes for Air Separation. Chemistry of Materials, 2019, 31, 7487-7492.	6.7	17
119	The Young-Feynman controlled double-slit electron interference experiment. Scientific Reports, 2019, 9, 10458.	3.3	22
120	Boosting Photoelectrochemical Water Oxidation of Hematite in Acidic Electrolytes by Surface State Modification. Advanced Energy Materials, 2019, 9, 1901836.	19.5	64
121	Etching-Assisted Route to Heterophase Au Nanowires with Multiple Types of Active Surface Sites for Silane Oxidation. Nano Letters, 2019, 19, 6363-6369.	9.1	19
122	In-plane Aligned Colloidal 2D WS2 Nanoflakes for Solution-Processable Thin Films with High Planar Conductivity. Scientific Reports, 2019, 9, 9002.	3.3	16
123	The impact of crystal size and temperature on the adsorption-induced flexibility of the Zr-based metalâ€“organic framework DUT-98. Beilstein Journal of Nanotechnology, 2019, 10, 1737-1744.	2.8	28
124	Electron Ptychography of Single Biological Macromolecules. Microscopy and Microanalysis, 2019, 25, 72-73.	0.4	2
125	Photoelectrochemical Water Splitting: Boosting Photoelectrochemical Water Oxidation of Hematite in Acidic Electrolytes by Surface State Modification (Adv. Energy Mater. 34/2019). Advanced Energy Materials, 2019, 9, 1970131.	19.5	1
126	Room-temperature all-solid-state sodium batteries with robust ceramic interface between rigid electrolyte and electrode materials. Nano Energy, 2019, 65, 104040.	16.0	52

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127	Controlling Near-Surface Ni Composition in Octahedral PtNi(Mo) Nanoparticles by Mo Doping for a Highly Active Oxygen Reduction Reaction Catalyst. Nano Letters, 2019, 19, 6876-6885.	9.1	95
128	Concave curvature facets benefit oxygen electroreduction catalysis on octahedral shaped PtNi nanocatalysts. Journal of Materials Chemistry A, 2019, 7, 1149-1159.	10.3	37
129	Formation of unexpectedly active Niâ€“Fe oxygen evolution electrocatalysts by physically mixing Ni and Fe oxyhydroxides. Chemical Communications, 2019, 55, 818-821.	4.1	57
130	Ï€-Loops With ds Josephson Junctions. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	3
131	Mechanistic insight into the formation of colloidal WS₂ nanoflakes in hot alkylamine media. Nanoscale Advances, 2019, 1, 2772-2782.	4.6	5
132	Nanoscopic Porous Iridium/Iridium Dioxide Superstructures (15â€…nm): Synthesis and Thermal Conversion by Inâ€…Situ Transmission Electron Microscopy. Chemistry - A European Journal, 2019, 25, 11048-11057.	3.3	4
133	Single Electron Precision in the Measurement of Charge Distributions on Electrically Biased Graphene Nanotips Using Electron Holography. Nano Letters, 2019, 19, 4091-4096.	9.1	4
134	Controlled Assembly of Block Copolymer Coated Nanoparticles in 2D Arrays. Angewandte Chemie - International Edition, 2019, 58, 8541-8545.	13.8	16
135	Nanostructuring of electron beams. Physica Scripta, 2019, 94, 034004.	2.5	16
136	Electron-Beam Shaping in the Transmission Electron Microscope: Control of Electron-Beam Propagation Along Atomic Columns. Physical Review Applied, 2019, 11, .	3.8	10
137	Dealloyed PtNi-Coreâ€“Shell Nanocatalysts Enable Significant Lowering of Pt Electrode Content in Direct Methanol Fuel Cells. ACS Catalysis, 2019, 9, 3764-3772.	11.2	66
138	Photodriven Dipole Reordering: Key to Carrier Separation in Metalorganic Halide Perovskites. ACS Nano, 2019, 13, 4402-4409.	14.6	38
139	Dislocation Evolution and Migration at Grain Boundaries in Thermoelectric SnTe. ACS Applied Energy Materials, 2019, 2, 2392-2397.	5.1	27
140	Introduction to a special issue on Frontiers of Aberration Corrected Electron Microscopy in honour of Christian Colliex, Archie Howie and Hannes Lichte on the occasion of their 75th, 85th and 75th birthdays. Ultramicroscopy, 2019, 203, 1.	1.9	1
141	Nano-scale Si segregation and precipitation in Cr₂Al(Si)C MAX phase coatings impeding grain growth during oxidation. Materials Research Letters, 2019, 7, 180-187.	8.7	9
142	Manipulation of dipolar magnetism in low-dimensional iron oxide nanoparticle assemblies. Physical Chemistry Chemical Physics, 2019, 21, 6171-6177.	2.8	10
143	Structured quantum projectiles. Physical Review A, 2019, 99, .	2.5	2
144	Nanoscale measurement of giant saturation magnetization in Î±â€³-Fe16N2 by electron energy-loss magnetic chiral dichroism. Ultramicroscopy, 2019, 203, 37-43.	1.9	9

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145	Quantitative measurement of nanoscale electrostatic potentials and charges using off-axis electron holography: Developments and opportunities. Ultramicroscopy, 2019, 203, 105-118.	1.9	22
146	Iuliacumite: A Novel Chemical Short-Range Order in a Two-Dimensional Wurtzite Single Monolayer InAs_{1â€“x}Sb_x Shell on InAs Nanowires. Nano Letters, 2019, 19, 8801-8805.	9.1	2
147	Composition-Tuned Pt-Skinned PtNi Bimetallic Clusters as Highly Efficient Methanol Dehydrogenation Catalysts. Chemistry of Materials, 2019, 31, 10040-10048.	6.7	28
148	Orbital angular momentum resolved electron magnetic chiral dichroism. Physical Review B, 2019, 100, .	3.2	8
149	Composition modulation by twinning in InAsSb nanowires. Nanotechnology, 2019, 30, 324005.	2.6	4
150	Resolution and aberration correction in liquid cell transmission electron microscopy. Nature Reviews Materials, 2019, 4, 61-78.	48.7	125
151	Characterization of grain boundary disconnections in SrTiO3 part I: the dislocation component of grain boundary disconnections. Journal of Materials Science, 2019, 54, 3694-3709.	3.7	18
152	Structural characterization of bulk and nanoparticle lead halide perovskite thin films by (S)TEM techniques. Nanotechnology, 2019, 30, 135701.	2.6	5
153	Morphological, Structural, and Compositional Evolution of Ptâ€“Ni Octahedral Electrocatalysts with Ptâ€Rich Edges and Niâ€Rich Core: Toward the Rational Design of Electrocatalysts for the Oxygen Reduction Reaction. Particle and Particle Systems Characterization, 2019, 36, 1800442.	2.3	10
154	Electron Holography. Springer Handbooks, 2019, , 767-818.	0.6	16
155	Acid-Promoter-Free Ethylene Methoxycarbonylation over Ru-Clusters/Ceria: The Catalysis of Interfacial Lewis Acidâ€“Base Pair. Journal of the American Chemical Society, 2018, 140, 4172-4181.	13.7	157
156	Bifunctional Electrocatalysis on Pdâ€Ni Coreâ€“Shell Nanoparticles for Hydrogen Oxidation Reaction in Alkaline Medium. Advanced Materials Interfaces, 2018, 5, 1701666.	3.7	41
157	Quantification of Magnetic Surface and Edge States in an FeGe Nanostripe by Off-Axis Electron Holography. Physical Review Letters, 2018, 120, 167204.	7.8	33
158	Understanding electron magnetic circular dichroism in a transition potential approach. Physical Review B, 2018, 97, .	3.2	3
159	The oldest magnetic record in our solar system identified using nanometric imaging and numerical modeling. Nature Communications, 2018, 9, 1173.	12.8	23
160	Experimental observation of chiral magnetic bobbers in B20-type FeGe. Nature Nanotechnology, 2018, 13, 451-455.	31.5	243
161	Absolute Scale Quantitative Off-Axis Electron Holography at Atomic Resolution. Physical Review Letters, 2018, 120, 156101.	7.8	18
162	Flip-Chip High-Tc DC SQUID Magnetometer With a Ferromagnetic Flux Antenna. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	4

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163	Atomic scale imaging of magnetic circular dichroism by achromatic electron microscopy. Nature Materials, 2018, 17, 221-225.	27.5	60
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