

# R E Dunin-Borkowski

## List of Publications by Year in Descending Order

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**Version:** 2024-04-20

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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.

603  
papers

14,615  
citations

58  
h-index

100  
g-index

637  
ext. papers

16,537  
ext. citations

5.8  
avg, IF

6.58  
L-index

#	Paper	IF	Citations
603	Theoretical and practical aspects of the design and production of synthetic holograms for transmission electron microscopy. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 031101	2.5	2
602	A High Conductivity One-Dimensional Ed Conjugated Metal-Organic Framework with Efficient Polysulfide Trapping-Diffusion-Catalysis in Lithium-Sulfur Batteries.. <i>Advanced Materials</i> , <b>2022</b> , e2108835 <sup>24</sup>		12
601	Prospect for measuring two-dimensional van der Waals magnets by electron magnetic chiral dichroism.. <i>Ultramicroscopy</i> , <b>2022</b> , 234, 113476	3.1	
600	All room-temperature synthesis, N2 photofixation and reactivation over 2D cobalt oxides. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 304, 121001	21.8	0
599	Amorphizing noble metal chalcogenide catalysts at the single-layer limit towards hydrogen production. <i>Nature Catalysis</i> , <b>2022</b> , 5, 212-221	36.5	14
598	Direct growth of single-metal-atom chains <b>2022</b> , 1, 245-253		1
597	Highly complex magnetic behavior resulting from hierarchical phase separation in AlCo(Cr)FeNi high-entropy alloys.. <i>IScience</i> , <b>2022</b> , 25, 104047	6.1	0
596	Imaging biological macromolecules in thick specimens: The role of inelastic scattering in cryoEM.. <i>Ultramicroscopy</i> , <b>2022</b> , 237, 113510	3.1	1
595	A novel Ed conjugated cobalt tetraaza[14]annulene based atomically dispersed electrocatalyst for efficient CO2 reduction. <i>Chemical Engineering Journal</i> , <b>2022</b> , 442, 136129	14.7	3
594	Atomic-Scale Insights into Nickel Exsolution on LaNiO Catalysts via Electron Microscopy.. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 786-796	3.8	1
593	Molecular engineering to introduce carbonyl between nickel salophen active sites to enhance electrochemical CO2 reduction to methanol. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 314, 121451	21.8	4
592	A Self-Flux-Biased NanoSQUID with Four NbN-TiN-NbN Nanobridge Josephson Junctions. <i>Electronics (Switzerland)</i> , <b>2022</b> , 11, 1704	2.6	
591	Voltage-controlled three-electron-beam interference by a three-element Boersch phase shifter with top and bottom shielding electrodes <b>2021</b> ,		1
590	Structural Phase Transition and In-Situ Energy Storage Pathway in Nonpolar Materials: A Review.. <i>Materials</i> , <b>2021</b> , 14,	3.5	1
589	Shaping of Electron Beams Using Sculpted Thin Films.. <i>ACS Photonics</i> , <b>2021</b> , 8, 3394-3405	6.3	1
588	Titanium Nitride as a New Prospective Material for NanoSQUIDs and Superconducting Nanobridge Electronics. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	5
587	Continuous illumination picosecond imaging using a delay line detector in a transmission electron microscope.. <i>Ultramicroscopy</i> , <b>2021</b> , 233, 113392	3.1	0

586	Atomic Structure and Electron Magnetic Circular Dichroism of Individual Rock Salt Structure Antiphase Boundaries in Spinel Ferrites. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2008306	15.6	2
585	Multiple polarization orders in individual twinned colloidal nanocrystals of centrosymmetric HfO <sub>2</sub> . <i>Matter</i> , <b>2021</b> , 4, 986-1000	12.7	4
584	Operando high-pressure investigation of size-controlled CuZn catalysts for the methanol synthesis reaction. <i>Nature Communications</i> , <b>2021</b> , 12, 1435	17.4	15
583	Experimental Demonstration of an Electrostatic Orbital Angular Momentum Sorter for Electron Beams. <i>Physical Review Letters</i> , <b>2021</b> , 126, 094802	7.4	19
582	A sorter for electrons based on magnetic elements. <i>Ultramicroscopy</i> , <b>2021</b> , 231, 113287	3.1	
581	Combining quantitative ADF STEM with SiN membrane-based MEMS devices: A simulation study with Pt nanoparticles. <i>Ultramicroscopy</i> , <b>2021</b> , 231, 113270	3.1	
580	Influence of surface band bending on a narrow band gap semiconductor: Tunneling atomic force studies of graphite with Bernal and rhombohedral stacking orders. <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	2
579	Microstructural insights into the coercivity enhancement of grain-boundary-diffusion-processed Tb-treated Nd-Fe-B sintered magnets beyond the core-shell formation mechanism. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 864, 158915	5.7	3
578	Temperature dependence of magnetization processes in Sm(Co, Fe, Cu, Zr) <sub>z</sub> magnets with different nanoscale microstructures. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 183903	2.5	2
577	Unravelling Magnetic Nanochain Formation in Dispersion for In Vivo Applications. <i>Advanced Materials</i> , <b>2021</b> , 33, e2008683	24	1
576	Atomically-resolved interlayer charge ordering and its interplay with superconductivity in YBaCuO. <i>Nature Communications</i> , <b>2021</b> , 12, 3893	17.4	2
575	Magnetic Nanoparticles: Unravelling Magnetic Nanochain Formation in Dispersion for In Vivo Applications (Adv. Mater. 24/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170189	24	
574	Differentiation between strain and charge mediated magnetoelectric coupling in La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> ) <sub>0.7</sub> Ti <sub>0.3</sub> O <sub>3</sub> (001). <i>New Journal of Physics</i> , <b>2021</b> , 23, 063043	2.9	3
573	Reducing Decoherence in Fluctuation Electron Microscopy. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 1776-1777	13.77	
572	In situ transmission electron microscopy of magnetic transitions. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 2174-2176	0.5	
571	How much can inelastically scattered electrons contribute to electron cryotomography of biological specimens?. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 3212-3214	0.5	
570	Non-topographic current contrast in scanning field emission microscopy. <i>Royal Society Open Science</i> , <b>2021</b> , 8, 210511	3.3	1
569	Focused ion beam fabrication of Janus bimetallic cylinders acting as drift tube Zernike phase plates for electron microscopy. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 024507	2.5	1

568	Extraction of 3D quantitative maps using EDS-STEM tomography and HAADF-EDS bimodal tomography. <i>Ultramicroscopy</i> , <b>2021</b> , 220, 113166	3.1	
567	Atomically dispersed Fe in a C <sub>2</sub> N Based Catalyst as a Sulfur Host for Efficient Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003507	21.8	36
566	Towards data-driven next-generation transmission electron microscopy. <i>Nature Materials</i> , <b>2021</b> , 20, 274-279	4.8	
565	Off-axis electron holography of Néel-type skyrmions in multilayers of heavy metals and ferromagnets. <i>Ultramicroscopy</i> , <b>2021</b> , 220, 113155	3.1	3
564	A cartridge-based turning specimen holder with wireless tilt angle measurement for magnetic induction mapping in the transmission electron microscope. <i>Ultramicroscopy</i> , <b>2021</b> , 220, 113098	3.1	2
563	In Situ Observation of Point-Defect-Induced Unit-Cell-Wise Energy Storage Pathway in Antiferroelectric PbZrO <sub>3</sub> . <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2008609	15.6	8
562	Atomic-scale characterization of commensurate and incommensurate vacancy superstructures in natural pyrrhotites. <i>American Mineralogist</i> , <b>2021</b> , 106, 82-96	2.9	2
561	Mechanism of magnetization reduction in iron oxide nanoparticles. <i>Nanoscale</i> , <b>2021</b> , 13, 6965-6976	7.7	13
560	Bulk nanomachining of cantilevers with Nb nanoSQUIDs based on nanobridge Josephson junctions. <i>Superconductor Science and Technology</i> , <b>2021</b> , 34, 035014	3.1	3
559	2D-Organic Layered Materials: Atomically dispersed Fe in a C <sub>2</sub> N Based Catalyst as a Sulfur Host for Efficient Lithium-Sulfur Batteries (Adv. Energy Mater. 5/2021). <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2170022	21.8	0
558	Multifunctional Noble Metal Phosphide Electrocatalysts for Organic Molecule Electro-Oxidation. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 1593-1600	6.1	4
557	Efficient large field of view electron phase imaging using near-field electron ptychography with a diffuser. <i>Ultramicroscopy</i> , <b>2021</b> , 231, 113257	3.1	5
556	Towards laser printing of magnetocaloric structures by inducing a magnetic phase transition in iron-rhodium nanoparticles. <i>Scientific Reports</i> , <b>2021</b> , 11, 13719	4.9	1
555	Estimating illumination coherence width from focused-probe intensity profiles. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 738-740	0.5	
554	Three-Dimensional Measurement of Magnetic Moment Vectors Using Electron Magnetic Chiral Dichroism at Atomic Scale. <i>Physical Review Letters</i> , <b>2021</b> , 127, 087202	7.4	0
553	Live Processing of Momentum-Resolved STEM Data for First Moment Imaging and Ptychography. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 1078-1092	0.5	3
552	Single-particle cryo-EM: alternative schemes to improve dose efficiency. <i>Journal of Synchrotron Radiation</i> , <b>2021</b> , 28, 1343-1356	2.4	1
551	Quantitative imaging of the magnetic field distribution in an artificial spin ice studied by off-axis electron holography. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2021</b> , 168535	2.8	2

550	Alignment of electron optical beam shaping elements using a convolutional neural network. <i>Ultramicroscopy</i> , <b>2021</b> , 228, 113338	3.1	5
549	Ferroelectric phase-transition frustration near a tricritical composition point. <i>Nature Communications</i> , <b>2021</b> , 12, 5322	17.4	4
548	Magnetic skyrmion braids. <i>Nature Communications</i> , <b>2021</b> , 12, 5316	17.4	2
547	Discovery and Implications of Hidden Atomic-Scale Structure in a Metallic Meteorite. <i>Nano Letters</i> , <b>2021</b> , 21, 8135-8142	11.5	1
546	Experimental realization of a $\pi/2$ vortex mode converter for electrons using a spherical aberration corrector. <i>Ultramicroscopy</i> , <b>2021</b> , 229, 113340	3.1	2
545	Unveiling the three-dimensional magnetic texture of skyrmion tubes.. <i>Nature Nanotechnology</i> , <b>2021</b> , ,	28.7	6
544	Near-4D STEM with an Orbital Angular Momentum Sorter: Advantages and Challenges. <i>Microscopy and Microanalysis</i> , <b>2020</b> , 26, 236-238	0.5	0
543	Design, Realization and Challenges of an Orbital Angular Momentum Sorter: A New Instrument for Phase Microscopy. <i>Microscopy and Microanalysis</i> , <b>2020</b> , 26, 1538-1539	0.5	0
542	Project Tomo: Toward Atomic-scale Analytical Tomography. <i>Microscopy and Microanalysis</i> , <b>2020</b> , 26, 2618-2621	0.5	2
541	Fabrication of low aspect ratio three-element Boersch phase shifters for voltage-controlled three electron beam interference. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 134502	2.5	6
540	Combination of Electron Energy-loss Spectroscopy and Orbital Angular Momentum Spectroscopy. Applications to Electron Magnetic Chiral Dichroism, Plasmon-loss, and Core-loss. <i>Microscopy and Microanalysis</i> , <b>2020</b> , 26, 1752-1753	0.5	1
539	Operando Transmission Electron Microscopy Study of All-Solid-State Battery Interface: Redistribution of Lithium among Interconnected Particles. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 5101-5106	6.1	8
538	STEM electron beam-induced current measurements of organic-inorganic perovskite solar cells. <i>Ultramicroscopy</i> , <b>2020</b> , 217, 113047	3.1	3
537	A Comparative Study of the Catalytic Performance of Pt-Based Bi and Trimetallic Nanocatalysts Towards Methanol, Ethanol, Ethylene Glycol, and Glycerol Electro-Oxidation. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2020</b> , 20, 6274-6285	1.3	1
536	Quantitative measurement of charge accumulation along a quasi-one-dimensional WO nanowire during electron field emission. <i>Nanoscale</i> , <b>2020</b> , 12, 10559-10564	7.7	6
535	Magnetic quantification of single-crystalline Fe and Co nanowires via off-axis electron holography. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 114202	3.9	1
534	Visualizing Magnetic Structure in 3D Nanoscale Ni-Fe Gyroid Networks. <i>Nano Letters</i> , <b>2020</b> , 20, 3642-3650	1.5	8
533	Energy Storage: An Unconventional Transient Phase with Cycloidal Order of Polarization in Energy-Storage Antiferroelectric PbZrO <sub>3</sub> (Adv. Mater. 9/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070069	24	2

532	MoRe/YBCO Josephson junctions and loops. <i>Superconductor Science and Technology</i> , <b>2020</b> , 33, 044005	3.1	2
531	Energy-level quantization and single-photon control of phase slips in YBaCuO nanowires. <i>Nature Communications</i> , <b>2020</b> , 11, 763	17.4	10
530	Solute Incorporation at Oxide/Oxide Interfaces Explains How Ternary Mixed-Metal Oxide Nanocrystals Support Element-Specific Anisotropic Growth. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909054	15.6	1
529	An Unconventional Transient Phase with Cycloidal Order of Polarization in Energy-Storage Antiferroelectric PbZrO. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907208	24	30
528	Linear-regioselective hydromethoxycarbonylation of styrene using Ru-clusters/CeO <sub>2</sub> catalyst. <i>Chinese Journal of Catalysis</i> , <b>2020</b> , 41, 963-969	11.3	4
527	Room-Temperature Skyrmions at Zero Field in Exchange-Biased Ultrathin Films. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	13
526	Generation of electron vortices using nonexact electric fields. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	11
525	Next-Generation Information Technology Systems for Fast Detectors in Electron Microscopy <b>2020</b> , 83-120		4
524	LiberTEM: Software platform for scalable multidimensional data processing in transmission electron microscopy. <i>Journal of Open Source Software</i> , <b>2020</b> , 5, 2006	5.2	10
523	The grain-boundary resistance of CeO <sub>2</sub> ceramics: A combined microscopy-spectroscopy-simulation study of a dilute solution. <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 1755-1764	3.8	5
522	Engineering stable electrocatalysts by synergistic stabilization between carbide cores and Pt shells. <i>Nature Materials</i> , <b>2020</b> , 19, 287-291	27	68
521	Observation of oxygen pyramid tilting induced polarization rotation in strained BiFeO <sub>3</sub> thin film. <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 2828-2834	3.8	
520	Structural perspective on revealing heat dissipation behavior of CoFeO-Pd nanohybrids: great promise for magnetic fluid hyperthermia. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 26728-26741	3.6	1
519	Discovery of Real-Space Topological Ferroelectricity in Metallic Transition Metal Phosphides. <i>Advanced Materials</i> , <b>2020</b> , 32, e2003479	24	7
518	Size dependent oxygen reduction and methanol oxidation reactions: catalytic activities of PtCu octahedral nanocrystals. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 5501-5512	5.5	10
517	Effect of annealing on the magnetic states of FEBID-grown cobalt nanopatterns examined by off-axis electron holography. <i>Journal of Microscopy</i> , <b>2020</b> , 279, 217-221	1.9	1
516	Interplay of intrinsic and extrinsic states in pinning and passivation of m-plane facets of GaN n-p-n junctions. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 185701	2.5	
515	Strong size selectivity in the self-assembly of rounded nanocubes into 3D mesocrystals. <i>Nanoscale Horizons</i> , <b>2020</b> , 5, 1065-1072	10.8	5

514	Robust nature of the chiral spin helix in CrNb <sub>3</sub> S <sub>6</sub> nanostructures studied by off-axis electron holography. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	4
513	Cobalt Hexacyanoferrate as a Selective and High Current Density Formate Oxidation Electrocatalyst. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 9198-9207	6.1	6
512	Three-dimensional Charge Density and Electric Field Mapping of an Electrically Biased Needle Using Off-axis Electron Holography. <i>Microscopy and Microanalysis</i> , <b>2020</b> , 26, 1540-1542	0.5	
511	Unconventional magnetization textures and domain-wall pinning in Sm-Co magnets. <i>Scientific Reports</i> , <b>2020</b> , 10, 21209	4.9	9
510	Dynamical diffraction effects in STEM orbital angular momentum resolved electron energy-loss magnetic chiral dichroism. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	3
509	Design of electrostatic phase elements for sorting the orbital angular momentum of electrons. <i>Ultramicroscopy</i> , <b>2020</b> , 208, 112861	3.1	15
508	Measurement of charge density in nanoscale materials using off-axis electron holography. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2020</b> , 241, 146881	1.7	5
507	Self-Epitaxial Hetero-Nanolayers and Surface Atom Reconstruction in Electrocatalytic Nickel Phosphides. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 21616-21622	9.5	4
506	Room-temperature all-solid-state sodium batteries with robust ceramic interface between rigid electrolyte and electrode materials. <i>Nano Energy</i> , <b>2019</b> , 65, 104040	17.1	26
505	Controlling Near-Surface Ni Composition in Octahedral PtNi(Mo) Nanoparticles by Mo Doping for a Highly Active Oxygen Reduction Reaction Catalyst. <i>Nano Letters</i> , <b>2019</b> , 19, 6876-6885	11.5	56
504	Concave curvature facets benefit oxygen electroreduction catalysis on octahedral shaped PtNi nanocatalysts. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 1149-1159	13	28
503	Formation of unexpectedly active Ni-Fe oxygen evolution electrocatalysts by physically mixing Ni and Fe oxyhydroxides. <i>Chemical Communications</i> , <b>2019</b> , 55, 818-821	5.8	39
502	Loops With ds Josephson Junctions. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2019</b> , 29, 1-5	1.8	3
501	Mechanistic insight into the formation of colloidal WS <sub>2</sub> nanoflakes in hot alkylamine media. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 2772-2782	5.1	4
500	Nanosopic Porous Iridium/Iridium Dioxide Superstructures (15 nm): Synthesis and Thermal Conversion by In Situ Transmission Electron Microscopy. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 11048-11057 <sup>1</sup>	4.8	1057 <sup>1</sup>
499	Single Electron Precision in the Measurement of Charge Distributions on Electrically Biased Graphene Nanotips Using Electron Holography. <i>Nano Letters</i> , <b>2019</b> , 19, 4091-4096	11.5	4
498	Controlled Assembly of Block Copolymer Coated Nanoparticles in 2D Arrays. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 8541-8545	16.4	10
497	Nanostructuring of electron beams. <i>Physica Scripta</i> , <b>2019</b> , 94, 034004	2.6	9

496	Electron-Beam Shaping in the Transmission Electron Microscope: Control of Electron-Beam Propagation Along Atomic Columns. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	6
495	Dealloyed PtNi-CoreShell Nanocatalysts Enable Significant Lowering of Pt Electrode Content in Direct Methanol Fuel Cells. <i>ACS Catalysis</i> , <b>2019</b> , 9, 3764-3772	13.1	42
494	Photodriven Dipole Reordering: Key to Carrier Separation in Metalorganic Halide Perovskites. <i>ACS Nano</i> , <b>2019</b> , 13, 4402-4409	16.7	26
493	Dislocation Evolution and Migration at Grain Boundaries in Thermoelectric SnTe. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 2392-2397	6.1	13
492	Nano-scale Si segregation and precipitation in Cr <sub>2</sub> Al(Si)C MAX phase coatings impeding grain growth during oxidation. <i>Materials Research Letters</i> , <b>2019</b> , 7, 180-187	7.4	3
491	Focused Electron-Beam Induced Deposition, In Situ TEM And Off-Axis Electron Holography Investigation of Bi-Magnetic Core-Shell Nanostructures. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 56-57	0.5	
490	Model-Based Iterative Reconstruction of Charge Density in Nanoscale Materials using Off-Axis Electron Holography. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 48-49	0.5	
489	Three-dimensional electric field mapping of an electrically biased atom probe needle using off-axis electron holography. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 326-327	0.5	5
488	Reconstruction of Projected and 3D Magnetization Distributions from Electron-Optical Phase Images using an Iterative Model-Based Algorithm. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1806-1807	0.5	
487	Understanding the Formation Mechanism of Magnetic Mesocrystals with (Cryo-)Electron Microscopy. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 7320-7328	9.6	10
486	Temperature-Induced Structural Reorganization of W-Doped Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3</sub> Composite Membranes for Air Separation. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 7487-7492	9.6	12
485	The Young-Feynman controlled double-slit electron interference experiment. <i>Scientific Reports</i> , <b>2019</b> , 9, 10458	4.9	9
484	Boosting Photoelectrochemical Water Oxidation of Hematite in Acidic Electrolytes by Surface State Modification. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901836	21.8	32
483	Etching-Assisted Route to Heterophase Au Nanowires with Multiple Types of Active Surface Sites for Silane Oxidation. <i>Nano Letters</i> , <b>2019</b> , 19, 6363-6369	11.5	11
482	In-plane Aligned Colloidal 2D WS Nanoflakes for Solution-Processable Thin Films with High Planar Conductivity. <i>Scientific Reports</i> , <b>2019</b> , 9, 9002	4.9	12
481	The impact of crystal size and temperature on the adsorption-induced flexibility of the Zr-based metal-organic framework DUT-98. <i>Beilstein Journal of Nanotechnology</i> , <b>2019</b> , 10, 1737-1744	3	18
480	Electron Ptychography of Single Biological Macromolecules. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 72-73	0.5	2
479	Photoelectrochemical Water Splitting: Boosting Photoelectrochemical Water Oxidation of Hematite in Acidic Electrolytes by Surface State Modification (Adv. Energy Mater. 34/2019). <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1970131	21.8	



478	Electron Holography. <i>Springer Handbooks</i> , <b>2019</b> , 767-818	1.3	8
477	Direct measurement of electrostatic potentials at the atomic scale: A conceptual comparison between electron holography and scanning transmission electron microscopy. <i>Ultramicroscopy</i> , <b>2019</b> , 210, 112926	3.1	5
476	Manipulation of dipolar magnetism in low-dimensional iron oxide nanoparticle assemblies. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 6171-6177	3.6	7
475	Nanoscale measurement of giant saturation magnetization in $\alpha$ -FeN by electron energy-loss magnetic chiral dichroism. <i>Ultramicroscopy</i> , <b>2019</b> , 203, 37-43	3.1	4
474	Quantitative measurement of nanoscale electrostatic potentials and charges using off-axis electron holography: Developments and opportunities. <i>Ultramicroscopy</i> , <b>2019</b> , 203, 105-118	3.1	12
473	Iuliacumite: A Novel Chemical Short-Range Order in a Two-Dimensional Wurtzite Single Monolayer InAsSb Shell on InAs Nanowires. <i>Nano Letters</i> , <b>2019</b> , 19, 8801-8805	11.5	1
472	Composition-Tuned Pt-Skinned PtNi Bimetallic Clusters as Highly Efficient Methanol Dehydrogenation Catalysts. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 10040-10048	9.6	16
471	Orbital angular momentum resolved electron magnetic chiral dichroism. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	7
470	Composition modulation by twinning in InAsSb nanowires. <i>Nanotechnology</i> , <b>2019</b> , 30, 324005	3.4	4
469	Resolution and aberration correction in liquid cell transmission electron microscopy. <i>Nature Reviews Materials</i> , <b>2019</b> , 4, 61-78	73.3	83
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440	Facet formation in Si layers selectively grown on patterned substrates studied by different electron microscopy techniques <b>2018</b> , 239-242		
439	Electron holography of biased semiconductor devices <b>2018</b> , 497-500		
438	Simulations of the electrostatic potential distribution in a TEM sample of a semiconductor device <b>2018</b> , 501-504		
437	The effects of resist strip processing on a porous low k dielectric oxide <b>2018</b> , 413-416		
436	The application of advanced TEM techniques to the characterisation of an asymmetric spacer layer tunnel diode <b>2018</b> , 53-56		
435	3D analysis of semiconductor structures using STEM tomography <b>2018</b> , 541-544		
434	HREM and EDX studies of GaN as a guest material in the voids of synthetic opal <b>2018</b> , 61-68		
433	Fine electron biprism on a Si-on-insulator chip for off-axis electron holography. <i>Ultramicroscopy</i> , <b>2018</b> , 185, 81-89	3.1	4
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367	Quantitative measurement of mean inner potential and specimen thickness from high-resolution off-axis electron holograms of ultra-thin layered WSe <sub>2</sub> <b>2016</b> , 417-418			
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339	Automated in situ transmission electron microscopy experiments <b>2016</b> , 638-639		
338	Imaging of Electric Fields with the pnCCD (S)TEM Camera <b>2016</b> , 376-377		
337	Extending the Limits of Fast Acquisition in TEM Tomography and 4D-STEM <b>2016</b> , 51-52		0
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335	Magnetic Skyrmions in an FeGe Nanostripe Revealed by in situ Electron Holography <b>2016</b> , 974-975		1



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333	Atomic resolution HR(S)TEM and EDXS analyses of GaInAs/GaSb and GaInP/GaSb bond interfaces for high-efficiency solar cells <b>2016</b> , 846-847			
332	Nitride layers grown on patterned graphene/SiC <b>2016</b> , 630-631			
331	Decoupling of valence and coordination number contributions at perovskite surfaces <b>2016</b> , 934-935			
330	Electron tomography with sub-5-second temporal resolution for dynamic in situ transmission electron microscopy <b>2016</b> , 21-22			0
329	Generation of super-oscillatory electron beams beyond the diffraction limit <b>2016</b> , 731-732			0
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