Sandra Van Aert

List of Publications by Year
in descending order

164 papers	6,918 citations	66343 42 h-index	62596 80 g-index
186 all docs	186 docs citations	186 times ranked	7904 citing authors

#	Article	IF	Citations
1	Highly Emissive Divalent-Ion-Doped Colloidal CsPb_{1â€“<i>x</i>}M_{<i>x</i>}Br₃ Perovskite Nanocrystals through Cation Exchange. Journal of the American Chemical Society, 2017, 139, 4087-4097.	13.7	590
2	Three-dimensional atomic imaging of crystalline nanoparticles. Nature, 2011, 470, 374-377.	27.8	503
3	Electronically coupled complementary interfaces between perovskite band insulators. Nature Materials, 2006, 5, 556-560.	27.5	325
4	Controlled lateral anisotropy in correlated manganite heterostructures by interface-engineered oxygen octahedral coupling. Nature Materials, 2016, 15, 425-431.	27.5	292
5	Smart Alignâ€”a new tool for robust non-rigid registration of scanning microscope data. Advanced Structural and Chemical Imaging, 2015, 1, .	4.0	290
6	Direct Observation of Ferrielectricity at Ferroelastic Domain Boundaries in CaTiO₃ by Electron Microscopy. Advanced Materials, 2012, 24, 523-527.	21.0	225
7	In situ study of the formation mechanism ofÂtwo-dimensional superlattices from PbSeÂnanocrystals. Nature Materials, 2016, 15, 1248-1254.	27.5	199
8	Quantitative atomic resolution mapping using high-angle annular dark field scanning transmission electron microscopy. Ultramicroscopy, 2009, 109, 1236-1244.	1.9	195
9	Model based quantification of EELS spectra. Ultramicroscopy, 2004, 101, 207-224.	1.9	174
10	StatSTEM: An efficient approach for accurate and precise model-based quantification of atomic resolution electron microscopy images. Ultramicroscopy, 2016, 171, 104-116.	1.9	170
11	Three-Dimensional Atomic Imaging of Colloidal Coreâ€“Shell Nanocrystals. Nano Letters, 2011, 11, 3420-3424.	9.1	134
12	Procedure to count atoms with trustworthy single-atom sensitivity. Physical Review B, 2013, 87, .	3.2	121
13	Advanced Electron Microscopy for Advanced Materials. Advanced Materials, 2012, 24, 5655-5675.	21.0	115
14	Measuring Lattice Strain in Three Dimensions through Electron Microscopy. Nano Letters, 2015, 15, 6996-7001.	9.1	110
15	Monitoring oxygen production on mass-selected iridiumâ€“tantalum oxide electrocatalysts. Nature Energy, 2022, 7, 55-64.	39.5	108
16	Optimized fabrication of high-quality La_{0.67}Sr_{0.33}MnO₃ thin films considering all essential characteristics. Journal Physics D: Applied Physics, 2011, 44, 205001.	2.8	105
17	Atomic scale dynamics of ultrasmall germanium clusters. Nature Communications, 2012, 3, 897.	12.8	101
18	Three-Dimensional Elemental Mapping at the Atomic Scale in Bimetallic Nanocrystals. Nano Letters, 2013, 13, 4236-4241.	9.1	101

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19	Maximum likelihood estimation of structure parameters from high resolution electron microscopy images. Part I: A theoretical framework. Ultramicroscopy, 2005, 104, 83-106.	1.9	98
20	Atom counting in HAADF STEM using a statistical model-based approach: Methodology, possibilities, and inherent limitations. Ultramicroscopy, 2013, 134, 23-33.	1.9	95
21	Three-Dimensional Quantification of the Facet Evolution of Pt Nanoparticles in a Variable Gaseous Environment. Nano Letters, 2019, 19, 477-481.	9.1	93
22	Defect Engineering in Oxide Heterostructures by Enhanced Oxygen Surface Exchange. Advanced Functional Materials, 2013, 23, 5240-5248.	14.9	88
23	Statistical Estimation of Atomic Positions from Exit Wave Reconstruction with a Precision in the Picometer Range. Physical Review Letters, 2006, 96, 096106.	7.8	82
24	Quantitative composition determination at the atomic level using model-based high-angle annular dark field scanning transmission electron microscopy. Ultramicroscopy, 2014, 137, 12-19.	1.9	82
25	Incommensurate Modulation and Luminescence in the CaGd_{2(1â€"<i>x</i>)}Eu_{2<i>x</i>}(MoO₄)_{4(1â€"<i>y</i>)}(WO₄)<su (0 â‰ <i>x â‰</i> 1, 0 â‰ <i>y â‰</i> 1) Red Phosphors. Chemistry of Materials, 2013, 25, 4387-4395.	6.7	79
26	Resolution of coherent and incoherent imaging systems reconsidered - Classical criteria and a statistical alternative. Optics Express, 2006, 14, 3830.	3.4	75
27	Correction of non-linear thickness effects in HAADF STEM electron tomography. Ultramicroscopy, 2012, 116, 8-12.	1.9	75
28	Direct Observation of Ferroelectric Domain Walls in LiNbO₃: Wallâ€Meanders, Kinks, and Local Electric Charges. Advanced Functional Materials, 2016, 26, 7599-7604.	14.9	72
29	Berry phase engineering at oxide interfaces. Physical Review Research, 2020, 2, .	3.6	64
30	Maximum likelihood estimation of structure parameters from high resolution electron microscopy images. Part II: A practical example. Ultramicroscopy, 2005, 104, 107-125.	1.9	62
31	Thickness Dependent Properties in Oxide Heterostructures Driven by Structurally Induced Metalâ€"Oxygen Hybridization Variations. Advanced Functional Materials, 2017, 27, 1606717.	14.9	61
32	Metalâ€"insulator-transition engineering by modulation tilt-control in perovskite nickelates for room temperature optical switching. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9515-9520.	7.1	56
33	High-resolution electron microscopy and electron tomography: resolution versus precision. Journal of Structural Biology, 2002, 138, 21-33.	2.8	54
34	Optimal experimental design of STEM measurement of atom column positions. Ultramicroscopy, 2002, 90, 273-289.	1.9	51
35	Progress and new advances in simulating electron microscopy datasets using MULTEM. Ultramicroscopy, 2016, 168, 17-27.	1.9	51
36	Estimation of unknown structure parameters from high-resolution (S)TEM images: What are the limits?. Ultramicroscopy, 2013, 134, 34-43.	1.9	49

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37	Dose limited reliability of quantitative annular dark field scanning transmission electron microscopy for nano-particle atom-counting. Ultramicroscopy, 2015, 151, 56-61.	1.9	47
38	Unscrambling Mixed Elements using High Angle Annular Dark Field Scanning Transmission Electron Microscopy. Physical Review Letters, 2016, 116, 246101.	7.8	45
39	Ligand-Induced Shape Transformation of PbSe Nanocrystals. Chemistry of Materials, 2017, 29, 4122-4128.	6.7	45
40	Alloy CsCd<i>_x</i>Pb_{1â€“<i>x</i>}Br₃ Perovskite Nanocrystals: The Role of Surface Passivation in Preserving Composition and Blue Emission. Chemistry of Materials, 2020, 32, 10641-10652.	6.7	45
41	Three-dimensional atomic models from a single projection using Z-contrast imaging: verification by electron tomography and opportunities. Nanoscale, 2017, 9, 8791-8798.	5.6	44
42	Optimal experimental design for nano-particle atom-counting from high-resolution STEM images. Ultramicroscopy, 2015, 151, 46-55.	1.9	42
43	Is atomic resolution transmission electron microscopy able to resolve and refine amorphous structures?. Ultramicroscopy, 2003, 98, 27-42.	1.9	40
44	Model-based quantification of EELS spectra: Including the fine structure. Ultramicroscopy, 2006, 106, 976-980.	1.9	40
45	Electron channelling based crystallography. Ultramicroscopy, 2007, 107, 551-558.	1.9	40
46	Direct structure inversion from exit waves. Ultramicroscopy, 2010, 110, 527-534.	1.9	37
47	Quantitative 3D Characterization of Elemental Diffusion Dynamics in Individual Ag@Au Nanoparticles with Different Shapes. ACS Nano, 2019, 13, 13421-13429.	14.6	37
48	Site occupation of Nb atoms in ternary Niâ€“Tiâ€“Nb shape memory alloys. Acta Materialia, 2014, 74, 85-95.	7.9	36
49	Advanced electron crystallography through model-based imaging. IUCrJ, 2016, 3, 71-83.	2.2	36
50	Atomic-scale quantification of charge densities in two-dimensional materials. Physical Review B, 2018, 98, .	3.2	36
51	Determining oxygen relaxations at an interface: A comparative study between transmission electron microscopy techniques. Ultramicroscopy, 2017, 181, 178-190.	1.9	36
52	Does a monochromator improve the precision in quantitative HRTEM?. Ultramicroscopy, 2001, 89, 275-290.	1.9	32
53	High resolution electron tomography. Current Opinion in Solid State and Materials Science, 2013, 17, 107-114.	11.5	31
54	Electrical Polarization in AlN/GaN Nanodisks Measured by Momentum-Resolved 4D Scanning Transmission Electron Microscopy. Physical Review Letters, 2019, 122, 106102.	7.8	31

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55	Hybrid statistics-simulations based method for atom-counting from ADF STEM images. Ultramicroscopy, 2017, 177, 69-77.	1.9	30
56	Single Atom Detection from Low Contrast-to-Noise Ratio Electron Microscopy Images. Physical Review Letters, 2018, 121, 056101.	7.8	30
57	3D Characterization and Plasmon Mapping of Gold Nanorods Welded by Femtosecond Laser Irradiation. ACS Nano, 2020, 14, 12558-12570.	14.6	30
58	Comparison of first moment STEM with conventional differential phase contrast and the dependence on electron dose. Ultramicroscopy, 2019, 203, 95-104.	1.9	29
59	Controlled growth of hexagonal gold nanostructures during thermally induced self-assembling on Ge(001) surface. Scientific Reports, 2017, 7, 42420.	3.3	28
60	The effect of probe inaccuracies on the quantitative model-based analysis of high angle annular dark field scanning transmission electron microscopy images. Micron, 2014, 63, 57-63.	2.2	26
61	Atomic Structure of Quantum Gold Nanowires: Quantification of the Lattice Strain. ACS Nano, 2014, 8, 599-606.	14.6	26
62	Quantitative STEM normalisation: The importance of the electron flux. Ultramicroscopy, 2015, 159, 46-58.	1.9	26
63	Atomic resolution mapping of phonon excitations in STEM-EELS experiments. Ultramicroscopy, 2014, 147, 1-7.	1.9	25
64	Longâ€Range Domain Structure and Symmetry Engineering by Interfacial Oxygen Octahedral Coupling at Heterostructure Interface. Advanced Functional Materials, 2016, 26, 6627-6634.	14.9	25
65	Optimal experimental design for the detection of light atoms from high-resolution scanning transmission electron microscopy images. Applied Physics Letters, 2014, 105, .	3.3	24
66	Atomic resolution electron tomography. MRS Bulletin, 2016, 41, 525-530.	3.5	24
67	How to optimize the experimental design of quantitative atomic resolution TEM experiments?. Micron, 2004, 35, 425-429.	2.2	23
68	An efficient way of including thermal diffuse scattering in simulation of scanning transmission electron microscopic images. Ultramicroscopy, 2006, 106, 933-940.	1.9	23
69	High-resolution electron microscopy: from imaging toward measuring. IEEE Transactions on Instrumentation and Measurement, 2002, 51, 611-615.	4.7	20
70	A model based atomic resolution tomographic algorithm. Ultramicroscopy, 2009, 109, 1485-1490.	1.9	20
71	A model based reconstruction technique for depth sectioning with scanning transmission electron microscopy. Ultramicroscopy, 2010, 110, 548-554.	1.9	20
72	Model-based electron microscopy: From images toward precise numbers for unknown structure parameters. Micron, 2012, 43, 509-515.	2.2	20

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73	Measuring Dynamic Structural Changes of Nanoparticles at the Atomic Scale Using Scanning Transmission Electron Microscopy. Physical Review Letters, 2020, 124, 106105.	7.8	20
74	Coupling Charge and Topological Reconstructions at Polar Oxide Interfaces. Physical Review Letters, 2021, 127, 127202.	7.8	20
75	Fully Automated Measurement of the Modulation Transfer Function of Charge-Coupled Devices above the Nyquist Frequency. Microscopy and Microanalysis, 2012, 18, 336-342.	0.4	19
76	Recent Advances in Transmission Electron Microscopy for Materials Science at the EMAT Lab of the University of Antwerp. Materials, 2018, 11, 1304.	2.9	19
77	Statistical Experimental Design for Quantitative Atomic Resolution Transmission Electron Microscopy. Advances in Imaging and Electron Physics, 2004, 130, 1-164.	0.2	17
78	Seeing and measuring in 3D with electrons. Comptes Rendus Physique, 2014, 15, 140-150.	0.9	17
79	The maximum a posteriori probability rule for atom column detection from HAADF STEM images. Ultramicroscopy, 2019, 201, 81-91.	1.9	17
80	Interface Pattern Engineering in Coreâ€Shell Upconverting Nanocrystals: Shedding Light on Critical Parameters and Consequences for the Photoluminescence Properties. Small, 2021, 17, e2104441.	10.0	17
81	Effect of amorphous layers on the interpretation of restored exit waves. Ultramicroscopy, 2009, 109, 237-246.	1.9	16
82	Mapping electronic reconstruction at the metal-insulator interface in LaVO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>/SrVO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>heterostructures. Physical Review B, 2013, 88, .	3.2	16
83	Direct structure inversion from exit waves. Part II: A practical example. Ultramicroscopy, 2012, 116, 77-85.	1.9	15
84	Determination of the atomic width of an APB in ordered CoPt using quantified HAADF-STEM. Journal of Alloys and Compounds, 2015, 644, 570-574.	5.5	15
85	Atom column detection from simultaneously acquired ABF and ADF STEM images. Ultramicroscopy, 2020, 219, 113046.	1.9	15
86	Advanced three-dimensional electron microscopy techniques in the quest for better structural and functional materials. Science and Technology of Advanced Materials, 2013, 14, 014206.	6.1	14
87	Control of Knock-On Damage for 3D Atomic Scale Quantification of Nanostructures: Making Every Electron Count in Scanning Transmission Electron Microscopy. Physical Review Letters, 2019, 122, 066101.	7.8	14
88	High precision measurements of atom column positions using model-based exit wave reconstruction. Ultramicroscopy, 2011, 111, 1475-1482.	1.9	13
89	Depth sectioning combined with atom-counting in HAADF STEM to retrieve the 3D atomic structure. Ultramicroscopy, 2017, 177, 36-42.	1.9	13
90	Three-dimensional atomic structure of supported Au nanoparticles at high temperature. Nanoscale, 2021, 13, 1770-1776.	5.6	13

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91	Three-Dimensional Nanoparticle Transformations Captured by an Electron Microscope. Accounts of Chemical Research, 2021, 54, 1189-1199.	15.6	13
92	Unconventional Specimen Preparation Techniques Using High Resolution Low Voltage Field Emission Scanning Electron Microscopy to Study Cell Motility, Host Cell Invasion, and Internal Cell Structures in Toxoplasma gondii. Microscopy and Microanalysis, 2002, 8, 94-103.	0.4	12
93	Throughput maximization of particle radius measurements through balancing size versus current of the electron probe. Ultramicroscopy, 2011, 111, 940-947.	1.9	12
94	Precision of three-dimensional atomic scale measurements from HRTEM images: What are the limits?. Ultramicroscopy, 2012, 114, 20-30.	1.9	12
95	The atomic lensing model: New opportunities for atom-by-atom metrology of heterogeneous nanomaterials. Ultramicroscopy, 2019, 203, 155-162.	1.9	12
96	Do smaller probes in a scanning transmission electron microscope result in more precise measurement of the distances between atom columns?. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2001, 81, 1833-1846.	0.6	11
97	How to Select the Items for the Shopping List of Future High Resolution Electron Microscopists?. Microscopy and Microanalysis, 2002, 8, 94-95.	0.4	11
98	Detecting and locating light atoms from high-resolution STEM images: The quest for a single optimal design. Ultramicroscopy, 2016, 170, 128-138.	1.9	11
99	Thickness dependence of scattering cross-sections in quantitative scanning transmission electron microscopy. Ultramicroscopy, 2018, 187, 84-92.	1.9	11
100	Recent breakthroughs in scanning transmission electron microscopy of small species. Advances in Physics: X, 2018, 3, 1480420.	4.1	11
101	From 2D to 3D: Bridging Self-Assembled Monolayers to a Substrate-Induced Polymorph in a Molecular Semiconductor. Chemistry of Materials, 2022, 34, 2238-2248.	6.7	11
102	Atomic and electronic structures of BaHfO₃-doped TFA-MOD-derived YBa₂Cu₃O_{7âˆ’<i>Î´</i>}thin films. Superconductor Science and Technology, 2015, 28, 115009.	3.5	10
103	3D Atomicâ€Scale Dynamics of Laserâ€Lightâ€Induced Restructuring of Nanoparticles Unraveled by Electron Tomography. Advanced Materials, 2021, 33, 2100972.	21.0	10
104	3D Atomic Structure of Supported Metallic Nanoparticles Estimated from 2D ADF STEM Images: A Combination of Atomâ€Counting and a Local Minima Search Algorithm. Small Methods, 2021, 5, e2101150.	8.6	10
105	Do smaller probes in a scanning transmission electron microscope result in more precise measurement of the distances between atom columns?. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2001, 81, 1833-1846.	0.6	9
106	Physical Limits on Atomic Resolution. Microscopy and Microanalysis, 2004, 10, 153-157.	0.4	9
107	A memory efficient method for fully three-dimensional object reconstruction with HAADF STEM. Ultramicroscopy, 2014, 141, 22-31.	1.9	9
108	Quantifying a Heterogeneous Ru Catalyst on Carbon Black Using ADF STEM. Particle and Particle Systems Characterization, 2016, 33, 438-444.	2.3	9

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109	Locating light and heavy atomic column positions with picometer precision using ISTEM. Ultramicroscopy, 2017, 172, 75-81.	1.9	9
110	Selfâ€Assembly of Atomically Thin Chiral Copper Heterostructures Templated by Black Phosphorus. Advanced Functional Materials, 2019, 29, 1903120.	14.9	9
111	Linear versus non-linear structural information limit in high-resolution transmission electron microscopy. Ultramicroscopy, 2010, 110, 1404-1410.	1.9	8
112	Exit wave reconstruction from focal series of HRTEM images, single crystal XRD and total energy studies on Sb_{<i>x</i>}WO_{3+<i>y</i>}(<i>x</i>âˆ¼ 0.11). Zeitschrift Fur Kristallographie - Crystalline Materials, 2012, 227, 341-349.	0.8	8
113	Thermal Activation of Gold Atom Diffusion in Au@Pt Nanorods. ACS Nano, 2022, 16, 9608-9619.	14.6	8
114	The Notion of Resolution. , 2007, , 1228-1265.		7
115	Functional twin boundaries. Phase Transitions, 2013, 86, 1052-1059.	1.3	7
116	Atom-counting in High Resolution Electron Microscopy:TEM or STEM â€" That's the question. Ultramicroscopy, 2017, 174, 112-120.	1.9	7
117	How precise can atoms of a nanocluster be located in 3D using a tilt series of scanning transmission electron microscopy images?. Ultramicroscopy, 2017, 181, 134-143.	1.9	6
118	Understanding the Effect of Iodide Ions on the Morphology of Gold Nanorods. Particle and Particle Systems Characterization, 2018, 35, 1800051.	2.3	6
119	Dynamical diffraction of high-energy electrons investigated by focal series momentum-resolved scanning transmission electron microscopy at atomic resolution. Ultramicroscopy, 2022, 233, 113425.	1.9	5
120	A method to determine the local surface profile from reconstructed exit waves. Ultramicroscopy, 2011, 111, 1352-1359.	1.9	4
121	One Step Toward a New Generation of C-MOS Compatible Oxide Pâ€"N Junctions: Structure of the LSMO/ZnO Interface Elucidated by an Experimental and Theoretical Synergic Work. ACS Applied Materials & Interfaces, 2017, 9, 20974-20980.	8.0	4
122	StatSTEM: An efficient program for accurate and precise model-based quantification of atomic resolution electron microscopy images. Journal of Physics: Conference Series, 2017, 902, 012013.	0.4	4
123	Frozen lattice and absorptive model for high angle annular dark field scanning transmission electron microscopy: A comparison study in terms of integrated intensity and atomic column position measurement. Ultramicroscopy, 2018, 184, 188-198.	1.9	4
124	Nano- and Microcrystal Investigations of Precipitates, Interfaces and Strain Fields in Ni-Ti-Nb by Various TEM Techniques. Materials Science Forum, 2013, 738-739, 65-71.	0.3	3
125	Atom column detection. Advances in Imaging and Electron Physics, 2021, 217, 177-214.	0.2	3
126	Modelling ADF STEM images using elliptical Gaussian peaks and its effects on the quantification of structure parameters in the presence of sample tilt. Ultramicroscopy, 2021, 230, 113391.	1.9	3

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127	Ultra-High Resolution Electron Tomography for Materials Science: a Roadmap. Microscopy and Microanalysis, 2011, 17, 934-935.	0.4	2
128	An alternative approach to determine attainable resolution directly from HREM images. Ultramicroscopy, 2013, 133, 50-61.	1.9	2
129	Lattice deformations in quasiâ€dynamic strain glass visualised and quantified by aberration corrected electron microscopy. Physica Status Solidi (B): Basic Research, 2014, 251, 2034-2040.	1.5	2
130	Quantification by aberration corrected (S)TEM of boundaries formed by symmetry breaking phase transformations. Ultramicroscopy, 2017, 176, 194-199.	1.9	2
131	Hidden Markov model for atom-counting from sequential ADF STEM images: Methodology, possibilities and limitations. Ultramicroscopy, 2020, 219, 113131.	1.9	2
132	Statistical parameter estimation theory: principles and simulation studies. Advances in Imaging and Electron Physics, 2021, , 29-72.	0.2	2
133	Model-Based Electron Microscopy. Springer Handbooks, 2019, , 605-624.	0.6	2
134	High-Resolution Visualization Techniques: Structural Aspects. Springer Series in Materials Science, 2012, , 135-149.	0.6	2
135	Atomic-scale detection of individual lead clusters confined in Linde Type A zeolites. Nanoscale, 2022, 14, 9323-9330.	5.6	2
136	Structural, Chemical And Electronic Characterization Of Ceramic Materials Using Quantitative (Scanning) Transmission Electron Microscopy.. Microscopy and Microanalysis, 2007, 13, 332-333.	0.4	1
137	Atomic Resolution Mapping Using Quantitative High-angle Annular Dark Field Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2009, 15, 464-465.	0.4	1
138	Dedicated TEM on domain boundaries from phase transformations and crystal growth. Phase Transitions, 2013, 86, 15-22.	1.3	1
139	Getting the Best from an Imperfect Detector - an Alternative Normalisation Procedure for Quantitative HAADF STEM. Microscopy and Microanalysis, 2014, 20, 126-127.	0.4	1
140	Novel Approaches for Electron Tomography to Investigate the Structure and Stability of Nanomaterials in 3 Dimensions.. Microscopy and Microanalysis, 2020, 26, 1128-1130.	0.4	1
141	3D Atomic Scale Quantification of Nanostructures and their Dynamics Using Model-based STEM. Microscopy and Microanalysis, 2020, 26, 2606-2608.	0.4	1
142	Atom counting. Advances in Imaging and Electron Physics, 2021, , 91-144.	0.2	1
143	Combining ADF-EDX scattering cross-sections for elemental quantification of nanostructures. Microscopy and Microanalysis, 2021, 27, 600-602.	0.4	1
144	High resolution electron microscopy from imaging towards measuring. , 0, , .		0

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145	Obstacles on the Road Towards Atomic Resolution Tomography. Microscopy and Microanalysis, 2005, 11, .	0.4	0
146	Computational Aspects in Quantitative EELS. Microscopy and Microanalysis, 2010, 16, 240-241.	0.4	0
147	Beyond the limits of imaging: advances and applications of model-based scanning transmission electron microscopy. Microscopy and Microanalysis, 2012, 18, 356-357.	0.4	0
148	Materials Science Applications of Aberration Corrected TEM and/or STEM. Microscopy and Microanalysis, 2015, 21, 1131-1132.	0.4	0
149	Quantitative annular dark field scanning transmission electron microscopy for nanoparticle atom-counting: What are the limits?. Journal of Physics: Conference Series, 2015, 644, 012034.	0.4	0
150	Quantification of ADF STEM Image Data for Nanoparticle Structure and Strain Measurements. Microscopy and Microanalysis, 2016, 22, 896-897.	0.4	0
151	Direct Methods for Images Interpretation. , 2016, , 267-281.		0
152	Recent Advances of the Open Source MULTEM Program to Provide Accurate and Fast Electron Microscopy Simulations. Microscopy and Microanalysis, 2017, 23, 206-207.	0.4	0
153	Quantitative STEM of Catalyst Nanoparticles using ADF Imaging with Simultaneous EDS and EELS Spectroscopy.. Microscopy and Microanalysis, 2017, 23, 1888-1889.	0.4	0
154	Quantification of 3D Atomic Structures and Their Dynamics by Atom-Counting from an ADF STEM Image. Microscopy and Microanalysis, 2019, 25, 1808-1809.	0.4	0
155	Efficient fitting algorithm. Advances in Imaging and Electron Physics, 2021, 217, 73-90.	0.2	0
156	Optimal experiment design for nanoparticle atom counting from ADF STEM images. Advances in Imaging and Electron Physics, 2021, 217, 145-175.	0.2	0
157	General conclusions and future perspectives. Advances in Imaging and Electron Physics, 2021, , 243-253.	0.2	0
158	Image-quality evaluation and model selection with maximum a posteriori probability. Advances in Imaging and Electron Physics, 2021, 217, 215-242.	0.2	0
159	Phase Retrieval From 4-Dimensional Electron Diffraction Datasets. , 2021, , .		0
160	Argand plot: a sensitive fingerprint for electron channelling. , 2008, , 167-168.		0
161	The benefits of statistical parameter estimation theory for quantitative interpretation of electron microscopy data. , 2008, , 97-98.		0
162	Present state of the composition evaluation of ternary semiconductor nanostructures by lattice fringe analysis. , 2018, , 19-22.		0

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163	Interface Pattern Engineering in Coreâ€Shell Upconverting Nanocrystals: Shedding Light on Critical Parameters and Consequences for the Photoluminescence Properties (Small 47/2021). Small, 2021, 17, 2170246.	10.0	0
164	Atomic resolution electron tomography: a dream?. International Journal of Materials Research, 2022, 97, 872-879.	0.3	0