

Peter A Crozier

List of Publications by Year in descending order

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200
papers

6,848
citations

57631

44
h-index

69108

77
g-index

206
all docs

206
docs citations

206
times ranked

7780
citing authors

#	ARTICLE	IF	CITATIONS
1	Vibrational spectroscopy in the electron microscope. <i>Nature</i> , 2014, 514, 209-212.	13.7	568
2	Brown Carbon Spheres in East Asian Outflow and Their Optical Properties. <i>Science</i> , 2008, 321, 833-836.	6.0	432
3	Stabilized Gold Nanoparticles on Ceria Nanorods by Strong Interfacial Anchoring. <i>Journal of the American Chemical Society</i> , 2012, 134, 20585-20588.	6.6	348
4	Atomic-Scale Observations of Catalyst Structures under Reaction Conditions and during Catalysis. <i>Chemical Reviews</i> , 2016, 116, 3487-3539.	23.0	261
5	Approaching the Resolution Limit of Nanometer-Scale Electron Beam-Induced Deposition. <i>Nano Letters</i> , 2005, 5, 1303-1307.	4.5	251
6	Current status and future directions for in situ transmission electron microscopy. <i>Ultramicroscopy</i> , 2016, 170, 86-95.	0.8	181
7	SSZ-26 and SSZ-33: Two Molecular Sieves with Intersecting 10- and 12-Ring Pores. <i>Science</i> , 1993, 262, 1543-1546.	6.0	165
8	Dealloying of Noble-Metal Alloy Nanoparticles. <i>Nano Letters</i> , 2014, 14, 2569-2577.	4.5	151
9	In situ environmental TEM studies of dynamic changes in cerium-based oxides nanoparticles during redox processes. <i>Ultramicroscopy</i> , 2008, 108, 1432-1440.	0.8	132
10	Oxygen vacancy migration in ceria and Pr-doped ceria: A DFT+U study. <i>Journal of Chemical Physics</i> , 2010, 132, 094104.	1.2	128
11	Dynamic structure of active sites in ceria-supported Pt catalysts for the water gas shift reaction. <i>Nature Communications</i> , 2021, 12, 914.	5.8	103
12	Metal sintering mechanisms and regeneration of palladium/alumina hydrogenation catalysts. <i>Applied Catalysis A: General</i> , 2005, 282, 111-121.	2.2	100
13	Beam-Induced Damage to Thin Specimens in an Intense Electron Probe. <i>Microscopy and Microanalysis</i> , 2006, 12, 65-71.	0.2	100
14	Atomic Level In Situ Observation of Surface Amorphization in Anatase Nanocrystals During Light Irradiation in Water Vapor. <i>Nano Letters</i> , 2013, 13, 679-684.	4.5	100
15	Synthesis of ternary SiGeSn semiconductors on Si(100) via $\text{Sn}_x\text{Ge}_{1-x}$ buffer layers. <i>Applied Physics Letters</i> , 2003, 83, 2163-2165.	1.5	97
16	Quantitative elemental mapping of materials by energy-filtered imaging. <i>Ultramicroscopy</i> , 1995, 58, 157-174.	0.8	93
17	Electrical conductivity and grain boundary composition of Gd-doped and Gd/Pr co-doped ceria. <i>Solid State Ionics</i> , 2015, 272, 9-17.	1.3	89
18	In situ analysis of gas composition by electron energy-loss spectroscopy for environmental transmission electron microscopy. <i>Ultramicroscopy</i> , 2011, 111, 177-185.	0.8	81

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19	In situ preparation of Ni-Cu/TiO ₂ bimetallic catalysts. Journal of Catalysis, 2009, 262, 73-82.	3.1	80
20	Measuring the Redox Activity of Individual Catalytic Nanoparticles in Cerium-Based Oxides. Nano Letters, 2008, 8, 962-967.	4.5	79
21	Vibrational spectroscopy at atomic resolution with electron impact scattering. Nature Physics, 2019, 15, 1237-1241.	6.5	78
22	Nanometer-scale composition measurements of Ge/Si(100) islands. Applied Physics Letters, 2003, 82, 1473-1475.	1.5	77
23	Operando Transmission Electron Microscopy: A Technique for Detection of Catalysis Using Electron Energy-Loss Spectroscopy in the Transmission Electron Microscope. ACS Catalysis, 2012, 2, 2395-2402.	5.5	74
24	A density functional study of defect migration in gadolinium doped ceria. Physical Chemistry Chemical Physics, 2010, 12, 7904.	1.3	71
25	Physicochemical Characterization of Zeolites SSZ-26 and SSZ-33. The Journal of Physical Chemistry, 1994, 98, 12040-12052.	2.9	70
26	In situ synthesis and characterization of Ru promoted Co/Al ₂ O ₃ Fischer-Tropsch catalysts. Applied Catalysis A: General, 2006, 307, 212-221.	2.2	68
27	Synthesis of uniform GaN quantum dot arrays via electron nanolithography of D ₂ GaN ₃ . Applied Physics Letters, 2004, 84, 3441-3443.	1.5	65
28	Biassed secondary electron imaging in a UHV-STEM. Ultramicroscopy, 1989, 31, 111-115.	0.8	64
29	Structural Transformation in Ceria Nanoparticles during Redox Processes. Journal of Physical Chemistry C, 2009, 113, 5700-5704.	1.5	64
30	Vibrational and valence aloof beam EELS: A potential tool for nondestructive characterization of nanoparticle surfaces. Ultramicroscopy, 2017, 180, 104-114.	0.8	64
31	Atomic-Scale Observation of the Ni Activation Process for Partial Oxidation of Methane Using In-Situ Environmental TEM. ChemCatChem, 2011, 3, 1051-1059.	1.8	62
32	In situ and operando transmission electron microscopy of catalytic materials. MRS Bulletin, 2015, 40, 38-45.	1.7	61
33	Structural Evolution during Photocorrosion of Ni/NiO Core/Shell Cocatalyst on TiO ₂ . Journal of Physical Chemistry C, 2015, 119, 7207-7214.	1.5	61
34	Electron-beam-induced reactions at transition-metal oxide surfaces. Vacuum, 1991, 42, 301-308.	1.6	59
35	Epitaxial growth of group III nitrides on silicon substrates via a reflective lattice-matched zirconium diboride buffer layer. Applied Physics Letters, 2003, 82, 2398-2400.	1.5	56
36	Theoretical study of environmental dependence of oxygen vacancy formation in CeO ₂ . Applied Physics Letters, 2005, 87, 141917.	1.5	56

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37	Direct observation of hydrogen spillover in Ni-loaded Pr-doped ceria. <i>Catalysis Today</i> , 2012, 180, 2-8.	2.2	56
38	Lattice measurement and alloy compositions in metal and bimetallic nanoparticles. <i>Ultramicroscopy</i> , 2003, 98, 63-72.	0.8	55
39	Kinetic lattice Monte Carlo model for oxygen vacancy diffusion in praseodymium doped ceria: Applications to materials design. <i>Journal of Solid State Chemistry</i> , 2011, 184, 811-817.	1.4	53
40	Atomic level fluxional behavior and activity of CeO ₂ -supported Pt catalysts for CO oxidation. <i>Nature Communications</i> , 2021, 12, 5789.	5.8	53
41	Low-dose high-resolution electron microscopy of zeolite materials with a slow-scan CCD camera. <i>Ultramicroscopy</i> , 1993, 48, 332-340.	0.8	50
42	Synthesis, Structure, and Physicochemical and Catalytic Characterization of the Novel High-Silica Large-Pore Zeolite SSZ-42. <i>Chemistry - A European Journal</i> , 1998, 4, 1312-1323.	1.7	49
43	Growth behavior near the ultimate resolution of nanometer-scale focused electron beam-induced deposition. <i>Nanotechnology</i> , 2008, 19, 225305.	1.3	46
44	In situ environmental transmission electron microscopy to determine transformation pathways in supported Ni nanoparticles. <i>Micron</i> , 2012, 43, 1188-1194.	1.1	45
45	Analysis of Catalytic Gas Products Using Electron Energy-Loss Spectroscopy and Residual Gas Analysis for <i>Operando</i> Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2014, 20, 815-824.	0.2	45
46	Nanoscale Heterogeneity in Ceria Zirconia with Low-Temperature Redox Properties. <i>Journal of Physical Chemistry B</i> , 2006, 110, 18278-18285.	1.2	44
47	Measurement of inelastic electron scattering cross-sections by electron energy-loss spectroscopy. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1990, 61, 311-336.	0.6	43
48	SnGe superstructure materials for Si-based infrared optoelectronics. <i>Applied Physics Letters</i> , 2003, 83, 3489-3491.	1.5	42
49	Nanoscale Probing of Local Hydrogen Heterogeneity in Disordered Carbon Nitrides with Vibrational Electron Energy-Loss Spectroscopy. <i>ACS Nano</i> , 2018, 12, 5463-5472.	7.3	42
50	Quantitative imaging and diffraction of zeolites using a slow-scan CCD camera. <i>Ultramicroscopy</i> , 1993, 52, 487-498.	0.8	40
51	Growth and characterization of CdTe/Si heterostructures – effect of substrate orientation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2000, 77, 93-100.	1.7	40
52	A model study on the carburization process of iron-based Fischer–Tropsch catalysts using in situ TEM–EELS. <i>Applied Catalysis B: Environmental</i> , 2011, 102, 521-527.	10.8	40
53	In Situ Electron Microscopy Studies of the Sintering of Palladium Nanoparticles on Alumina during Catalyst Regeneration Processes. <i>Microscopy and Microanalysis</i> , 2004, 10, 77-85.	0.2	39
54	System for <i>In Situ</i> UV-Visible Illumination of Environmental Transmission Electron Microscopy Samples. <i>Microscopy and Microanalysis</i> , 2013, 19, 461-469.	0.2	39

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55	Structure-reactivity relationships of Ni@NiO core-shell co-catalysts on Ta ₂ O ₅ for solar hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2015, 172-173, 58-64.	10.8	39
56	Detection of water and its derivatives on individual nanoparticles using vibrational electron energy-loss spectroscopy. <i>Ultramicroscopy</i> , 2016, 169, 30-36.	0.8	38
57	Oxidation and Reduction of Small Palladium Particles on Silica. <i>Microscopy and Microanalysis</i> , 1998, 4, 278-285.	0.2	37
58	Low-Temperature Epitaxial Growth of the Quaternary Wide Band Gap Semiconductor SiCAlN. <i>Physical Review Letters</i> , 2002, 88, 206102.	2.9	36
59	Enhanced ionic conductivity in electroceramics by nanoscale enrichment of grain boundaries with high solute concentration. <i>Nanoscale</i> , 2017, 9, 17293-17302.	2.8	36
60	Dynamic nucleation and growth of Ni nanoparticles on high-surface area titania. <i>Surface Science</i> , 2006, 600, 693-702.	0.8	35
61	Microstructural evolution of Ge/Si(100) nanoscale islands. <i>Journal of Crystal Growth</i> , 2003, 259, 232-244.	0.7	34
62	In search of enhanced electrolyte materials: a case study of doubly doped ceria. <i>Journal of Materials Chemistry</i> , 2011, 21, 18991.	6.7	33
63	In Situ Synthesis and Nanoscale Evolution of Model Supported Metal Catalysts: Ni on Silica. <i>Journal of Physical Chemistry C</i> , 2012, 116, 11486-11495.	1.5	32
64	Predicting the optimal dopant concentration in gadolinium doped ceria: a kinetic lattice Monte Carlo approach. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2012, 20, 015004.	0.8	31
65	Observation of exit surface sputtering in TiO ₂ using biased secondary electron imaging. <i>Surface Science</i> , 1990, 237, 232-240.	0.8	30
66	Atomic-scale imaging of asymmetric Lomer dislocation cores at the Ge/Si(001) heterointerface. <i>Applied Physics Letters</i> , 2004, 84, 2530-2532.	1.5	29
67	Measuring bandgap states in individual non-stoichiometric oxide nanoparticles using monochromated STEM EELS: The Praseodymium-ceria case. <i>Ultramicroscopy</i> , 2016, 167, 5-10.	0.8	29
68	Evolution of Ge/Si(100) island morphology at high temperature. <i>Applied Physics Letters</i> , 2002, 80, 3623-3625.	1.5	28
69	New Magnetic Order in Buried Native Iron Oxide Layers. <i>Physical Review Letters</i> , 2003, 91, 267201.	2.9	28
70	Coupling of strain, stress, and oxygen non-stoichiometry in thin film Pr _{0.1} Ce _{0.9} O _{2-δ} . <i>Nanoscale</i> , 2016, 8, 16499-16510.	2.8	28
71	Ca segregation and step modifications on cleaved and annealed MgO(100) surfaces. <i>Surface Science</i> , 1993, 284, 186-199.	0.8	27
72	Atomic-Scale Study of in Situ Metal Nanoparticle Synthesis in a Ni/TiO ₂ System. <i>Journal of Physical Chemistry B</i> , 2005, 109, 13883-13890.	1.2	26

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73	A spray drying system for synthesis of rare-earth doped cerium oxide nanoparticles. <i>Chemical Physics Letters</i> , 2010, 495, 280-286.	1.2	26
74	Al ₂ O ₃ and SiO ₂ Atomic Layer Deposition Layers on ZnO Photoanodes and Degradation Mechanisms. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 16138-16147.	4.0	26
75	In-Situ and Ex-Situ Microscopic Study of Gas Phase Propylene Polymerization over a High Activity TiCl ₄ -MgCl ₂ Heterogeneous Ziegler-Natta Catalyst. <i>Macromolecular Rapid Communications</i> , 2001, 22, 34-40.	2.0	25
76	Novel sample preparation for operando TEM of catalysts. <i>Ultramicroscopy</i> , 2015, 156, 18-22.	0.8	25
77	One nanometer structure fabrication using electron beam induced deposition. <i>Microelectronic Engineering</i> , 2006, 83, 1468-1470.	1.1	24
78	Mechanical Properties of Titanium Nitride Nanocomposites Produced by Chemical Precursor Synthesis Followed by High-P,T Treatment. <i>Materials</i> , 2011, 4, 1747-1762.	1.3	24
79	The influence of surfaces and interfaces on high spatial resolution vibrational EELS from SiO ₂ . <i>Microscopy (Oxford, England)</i> , 2018, 67, i14-i23.	0.7	24
80	Stoichiometric and non-stoichiometric films in the Si ³ N ₄ system: mechanical, electrical, and dielectric properties. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003, 97, 54-58.	1.7	23
81	Environmental Transmission Electron Microscopy in Nanotechnology. , 2005, , 531-565.		23
82	Characterization of light-absorbing carbon particles at three altitudes in East Asian outflow by transmission electron microscopy. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 6359-6371.	1.9	23
83	Vibrational electron energy loss spectroscopy in truncated dielectric slabs. <i>Physical Review B</i> , 2018, 98, .	1.1	23
84	Developing and Evaluating Deep Neural Network-Based Denoising for Nanoparticle TEM Images with Ultra-Low Signal-to-Noise. <i>Microscopy and Microanalysis</i> , 2021, 27, 1431-1447.	0.2	23
85	In-Plane Structural Fluctuations in Differently Condensed Graphitic Carbon Nitrides. <i>Chemistry of Materials</i> , 2021, 33, 195-204.	3.2	23
86	Preparation and characterization of MgO surfaces by reflection electron microscopy. <i>Microscopy Research and Technique</i> , 1992, 20, 426-438.	1.2	22
87	CrO _x -Mediated Performance Enhancement of Ni/NiO-Mg:SrTiO ₃ in Photocatalytic Water Splitting. <i>ACS Catalysis</i> , 2021, 11, 11049-11058.	5.5	22
88	In situ real-time environmental TEM of gas phase Ziegler-Natta catalytic polymerization of propylene. <i>Journal of Electron Microscopy</i> , 2002, 51, S27-S39.	0.9	21
89	Atomic Scale Characterization of Fluxional Cation Behavior on Nanoparticle Surfaces: Probing Oxygen Vacancy Creation/Annihilation at Surface Sites. <i>ACS Nano</i> , 2021, 15, 2624-2634.	7.3	21
90	A compact parallel-recording detector for EELS. <i>Journal of Microscopy</i> , 1987, 148, 157-166.	0.8	19

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91	Direct quantitative measurement of compositional enrichment and variations in InyGa1-yAs quantum dots. Applied Physics Letters, 2001, 79, 3170-3172.	1.5	19
92	Novel synthetic pathways to wide bandgap semiconductors in the Si-C-Al-N system. Solid State Sciences, 2002, 4, 1509-1519.	1.5	19
93	Tracking the picoscale spatial motion of atomic columns during dynamic structural change. Ultramicroscopy, 2020, 213, 112978.	0.8	19
94	An Environmental Transmission Electron Microscope for In-Situ Observation of Chemical Processes at the Nanometer Level. Microscopy and Microanalysis, 2003, 9, 912-913.	0.2	18
95	Linking Changes in Reaction Kinetics and Atomic-Level Surface Structures on a Supported Ru Catalyst for CO Oxidation. ACS Catalysis, 2021, 11, 1456-1463.	5.5	18
96	Direct observation of reduction of PdO to Pd metal by in situ electron microscopy. Studies in Surface Science and Catalysis, 2000, 130, 3119-3124.	1.5	16
97	Low-temperature growth of SiCAlN films of high hardness on Si(111) substrates. Applied Physics Letters, 2001, 79, 2880-2882.	1.5	16
98	Effects of stress on phase separation in InxGa1-xN/GaN multiple quantum-wells. Acta Materialia, 2011, 59, 3759-3769.	3.8	15
99	Metal-free synthesis of carbon nanotubes filled with calcium silicate. Carbon, 2012, 50, 2666-2669.	5.4	14
100	Oxygen Transfer at Metal-Reducible Oxide Nanocatalyst Interfaces: Contrasting Carbon Growth from Ethane and Ethylene. ACS Applied Nano Materials, 2018, 1, 1360-1369.	2.4	14
101	Linking Macroscopic and Nanoscopic Ionic Conductivity: A Semiempirical Framework for Characterizing Grain Boundary Conductivity in Polycrystalline Ceramics. ACS Applied Materials & Interfaces, 2020, 12, 507-517.	4.0	14
102	Nanoscale Oxide Patterning with Electron-Solid-Gas Reactions. Nano Letters, 2007, 7, 2395-2398.	4.5	13
103	Approaches to Exploring Spatio-Temporal Surface Dynamics in Nanoparticles with <i>In Situ</i> Transmission Electron Microscopy. Microscopy and Microanalysis, 2020, 26, 86-94.	0.2	13
104	Proximity effects in nanoscale patterning with high resolution electron beam induced deposition. Journal of Vacuum Science & Technology B, 2008, 26, 249.	1.3	12
105	Derivation of Optical Properties of Carbonaceous Aerosols by Monochromated Electron Energy-Loss Spectroscopy. Microscopy and Microanalysis, 2014, 20, 748-759.	0.2	12
106	Nanoscale probing of resonant photonic modes in dielectric nanoparticles with focused electron beams. Physical Review B, 2019, 99, .	1.1	12
107	Synthesis of Highly Coherent SiGe and Si4Ge Nanostructures by Molecular Beam Epitaxy of H3SiGeH3 and Ge(SiH3)4. Chemistry of Materials, 2003, 15, 3569-3572.	3.2	11
108	Epitaxial semimetallic HfxZr1-xB2 templates for optoelectronic integration on silicon. Applied Physics Letters, 2006, 89, 242110.	1.5	11

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109	Nanoscale compositional and structural evolution in ceria zirconia during cyclic redox treatments. <i>Journal of Materials Chemistry</i> , 2010, 20, 7497.	6.7	11
110	Anisotropic Nanocrystal Dissolution Observation by in Situ Transmission Electron Microscopy. <i>Nano Letters</i> , 2012, 12, 5708-5713.	4.5	11
111	An Open-Cell Environmental Transmission Electron Microscopy Technique for In Situ Characterization of Samples in Aqueous Liquid Solutions. <i>Microscopy and Microanalysis</i> , 2020, 26, 134-138.	0.2	10
112	Nanoscale probing of bandgap states on oxide particles using electron energy-loss spectroscopy. <i>Ultramicroscopy</i> , 2017, 178, 2-11.	0.8	9
113	Light induced coarsening of metal nanoparticles. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11756-11763.	5.2	9
114	Role of Convergence and Collection Angles in the Excitation of Long- and Short-Wavelength Phonons with Vibrational Electron Energy-Loss Spectroscopy. <i>Microscopy and Microanalysis</i> , 2021, 27, 1069-1077.	0.2	8
115	Chemical kinetics for operando electron microscopy of catalysts: 3D modeling of gas and temperature distributions during catalytic reactions. <i>Ultramicroscopy</i> , 2020, 218, 113080.	0.8	7
116	Properties of Dipole-Mode Vibrational Energy Losses Recorded From a TEM Specimen. <i>Microscopy and Microanalysis</i> , 2020, 26, 1117-1123.	0.2	7
117	Nanocharacterization of Heterogeneous Catalysts by Ex Situ and In Situ STEM. , 2011, , 537-582.		6
118	Characterization and application of supported metal catalysts with well-tailored pore systems and metal dispersions. <i>Fresenius' Journal of Analytical Chemistry</i> , 1998, 361, 677-679.	1.5	5
119	Detection and Characterization of OH Vibrational Modes using High Energy Resolution EELS. <i>Microscopy and Microanalysis</i> , 2015, 21, 1473-1474.	0.2	5
120	Photochemical Reaction Patterns on Heterostructures of ZnO on Periodically Poled Lithium Niobate. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 26365-26373.	4.0	5
121	Dy- and Tb-doped CeO ₂ -Ni cermets for solid oxide fuel cell anodes: electrochemical fabrication, structural characterization, and electrocatalytic performance. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 3761-3773.	1.2	5
122	Alloof-beam Vibrational Electron Energy-loss Spectroscopy of Adsorbate/Metal Particle Systems. <i>Microscopy and Microanalysis</i> , 2018, 24, 460-461.	0.2	5
123	New Data-Driven Interacting-Defect Model Describing Nanoscopic Grain Boundary Compositions in Ceramics. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23619-23625.	1.5	5
124	Impact of Aliovalent Alkaline-Earth metal solutes on Ceria Grain Boundaries: A density functional theory study. <i>Acta Materialia</i> , 2021, 205, 116481.	3.8	5
125	Advanced and In Situ Analytical Methods for Solar Fuel Materials. <i>Topics in Current Chemistry</i> , 2015, 371, 253-324.	4.0	4
126	Design and Application of an In Situ Illumination System for an Aberration-corrected Environmental Transmission Electron Microscope. <i>Microscopy and Microanalysis</i> , 2016, 22, 730-731.	0.2	4

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127	Exploring Vibrational and Electronic Structure of Carbon Nitride Powders Using Monochromated Electron Energy-Loss Spectroscopy. <i>Microscopy and Microanalysis</i> , 2016, 22, 986-987.	0.2	4
128	Atomic-Resolution Operando Observations of Nanostructured Pt/Ce ₂ Catalysts Performing CO Oxidation. <i>Microscopy and Microanalysis</i> , 2018, 24, 236-237.	0.2	4
129	Background Modelling for Quantitative Analysis in Vibrational EELS. <i>Microscopy and Microanalysis</i> , 2019, 25, 674-675.	0.2	4
130	Atomic-resolution <i>Operando</i> and Time-resolved <i>In Situ</i> TEM Imaging of Oxygen Transfer Reactions Catalyzed by CeO ₂ -supported Pt Nanoparticles. <i>Microscopy and Microanalysis</i> , 2020, 26, 1694-1695.	0.2	4
131	Exploring Blob Detection to Determine Atomic Column Positions and Intensities in Time-Resolved TEM Images with Ultra-Low Signal-to-Noise. <i>Microscopy and Microanalysis</i> , 2022, 28, 1917-1930.	0.2	4
132	In situ TEM observations of Oxygen Surface Dynamics in CeO ₂ Cubes. <i>Microscopy and Microanalysis</i> , 2017, 23, 1994-1995.	0.2	3
133	Identification of Rapid Oxygen Exchange Through Site-Dependent Cationic Displacements on CeO ₂ Nanoparticles. <i>Microscopy and Microanalysis</i> , 2018, 24, 54-55.	0.2	3
134	Dynamic Restructuring during Processing: Approaches to Higher Temporal Resolution. <i>Microscopy and Microanalysis</i> , 2019, 25, 1464-1465.	0.2	3
135	Direct Imaging of Zirconia Pillars in Montmorillonite by Analytical Electron Microscopy. <i>Clays and Clay Minerals</i> , 1999, 47, 683-687.	0.6	2
136	Synthesis of Uniform GaN Quantum Dot Arrays via Electron Nanolithography of D ₂ GaN ₃ . <i>Microscopy and Microanalysis</i> , 2004, 10, 356-357.	0.2	2
137	Nanoscale Probing of Adsorbates on Pt/CeO ₂ with Aloof-beam Vibrational Electron Energy-loss Spectroscopy. <i>Microscopy and Microanalysis</i> , 2019, 25, 644-645.	0.2	2
138	<i>Operando</i> Insight into Oxygen Transfer at Pt/CeO ₂ Interfaces during CO Oxidation. <i>Microscopy and Microanalysis</i> , 2019, 25, 1508-1509.	0.2	2
139	Probing Properties of Nanomaterials with Advanced Electron Energy-Loss Spectroscopy. <i>Microscopy and Microanalysis</i> , 2021, 27, 872-874.	0.2	2
140	Determination of Elemental Composition and Structure of Individual Organic Cloud Condensation Nuclei. <i>Microscopy and Microanalysis</i> , 2004, 10, 878-879.	0.2	1
141	Preface. <i>Micron</i> , 2012, 43, 1077.	1.1	1
142	Full Optical Properties of Carbonaceous Aerosols by High Energy Monochromated Electron Energy-loss Spectroscopy. <i>Microscopy and Microanalysis</i> , 2014, 20, 188-189.	0.2	1
143	Bandgaps and Surface Inter-Band States in Photocatalysts with High Energy Resolution EELS. <i>Microscopy and Microanalysis</i> , 2015, 21, 1903-1904.	0.2	1
144	Investigating the Spatial Resolution of Vibrational Electron Energy-Loss Spectroscopy. <i>Microscopy and Microanalysis</i> , 2016, 22, 992-993.	0.2	1

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145	Revealing the Structure of Graphitic Carbon Nitride through Low-Dose TEM using a Direct Electron Detector. <i>Microscopy and Microanalysis</i> , 2017, 23, 1808-1809.	0.2	1
146	In situ Imaging and Spectroscopy of the Carbon Deposition Mechanism on Ni/CeO ₂ Solid Oxide Fuel Cell Anode Catalyst. <i>Microscopy and Microanalysis</i> , 2017, 23, 914-915.	0.2	1
147	Atomic-Resolution Characterization of Surface Structures and Metal-Support Interfaces on Nanostructured Pt/CeO ₂ Catalysts Performing CO Oxidation. <i>Microscopy and Microanalysis</i> , 2017, 23, 966-967.	0.2	1
148	Local Mapping of Bandgap Electronic State in Pr _x Ce _{1-x} Ch ₂ Î: Elucidating Enhancement and Mechanism of Grain Boundary Electrical Conductivity. <i>Microscopy and Microanalysis</i> , 2017, 23, 1548-1549.	0.2	1
149	Surface Dynamics Associated with Redox Processes on TiO ₂ Nanoparticles. <i>Microscopy and Microanalysis</i> , 2017, 23, 906-907.	0.2	1
150	Oxygen Ion Conductivity and Composition at the Grain Boundaries of Ca Doped CeO ₂ . <i>Microscopy and Microanalysis</i> , 2018, 24, 1540-1541.	0.2	1
151	Interpreting Cation Displacements and Image Motifs Associated with the Oxygen Exchange Reaction on CeO ₂ Nanoparticles. <i>Microscopy and Microanalysis</i> , 2018, 24, 144-145.	0.2	1
152	Finite Element Modeling of Gas and Temperature Distributions during Catalytic Reactions in an Environmental Transmission Electron Microscope. <i>Microscopy and Microanalysis</i> , 2019, 25, 2014-2015.	0.2	1
153	Probing Local Structures and Disorder in Graphitic Carbon Nitrides. <i>Microscopy and Microanalysis</i> , 2019, 25, 1690-1691.	0.2	1
154	Coupling of Photonic and Plasmonic Modes in Oxide and Supported Metal Nanoparticles: Finite Element Simulation and EELS Study. <i>Microscopy and Microanalysis</i> , 2021, 27, 888-890.	0.2	1
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