

Klaus van Benthem

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1851972/publications.pdf>

Version: 2024-02-01

144
papers

3,893
citations

159358

30
h-index

128067

60
g-index

144
all docs

144
docs citations

144
times ranked

5327
citing authors

#	ARTICLE	IF	CITATIONS
1	Bulk electronic structure of SrTiO ₃ : Experiment and theory. Journal of Applied Physics, 2001, 90, 6156-6164.	1.1	782
2	Three-dimensional imaging of individual hafnium atoms inside a semiconductor device. Applied Physics Letters, 2005, 87, 034104.	1.5	206
3	MATERIALS CHARACTERIZATION IN THE ABERRATION-CORRECTED SCANNING TRANSMISSION ELECTRON MICROSCOPE. Annual Review of Materials Research, 2005, 35, 539-569.	4.3	188
4	The effect of interfacial layer properties on the performance of Hf-based gate stack devices. Journal of Applied Physics, 2006, 100, 094108.	1.1	135
5	Amorphous Alumina Nanoparticles: Structure, Surface Energy, and Thermodynamic Phase Stability. Journal of Physical Chemistry C, 2013, 117, 17123-17130.	1.5	132
6	Three-dimensional ADF imaging of individual atoms by through-focal series scanning transmission electron microscopy. Ultramicroscopy, 2006, 106, 1062-1068.	0.8	122
7	Point Defect Configurations of Supersaturated Au Atoms Inside Si Nanowires. Nano Letters, 2008, 8, 1016-1019.	4.5	119
8	Au on MgAl ₂ O ₄ spinels: The effect of support surface properties in glycerol oxidation. Journal of Catalysis, 2010, 275, 108-116.	3.1	100
9	Electrode Effects on Microstructure Formation During γ -FLASH Sintering of Yttrium-stabilized Zirconia. Journal of the American Ceramic Society, 2016, 99, 2253-2259.	1.9	97
10	Aberration-corrected scanning transmission electron microscopy: from atomic imaging and analysis to solving energy problems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 3709-3733.	1.6	89
11	Dopant segregation and giant magnetoresistance in manganese-doped germanium. Physical Review B, 2007, 75, .	1.1	88
12	Single Pd atoms in activated carbon fibers and their contribution to hydrogen storage. Carbon, 2011, 49, 4050-4058.	5.4	74
13	Interpreting atomic-resolution spectroscopic images. Physical Review B, 2007, 76, .	1.1	64
14	Metal/ceramic interface structures and segregation behavior in aluminum-based composites. Acta Materialia, 2015, 95, 254-263.	3.8	64
15	Valence electron energy loss study of Fe-doped SrTiO ₃ and a Γ -K boundary: electronic structure and dispersion forces. Ultramicroscopy, 2001, 86, 303-318.	0.8	61
16	Optimal Doping Control of Magnetic Semiconductors via Subsurfactant Epitaxy. Physical Review Letters, 2008, 100, 066101.	2.9	58
17	Observations on the Influence of Secondary Me Oxide Additives (Me=Si, Al, Mg) on the Microstructural Evolution and Mechanical Behavior of Silicon Nitride Ceramics Containing RE ₂ O ₃ (RE=La, Gd, Lu). Journal of the American Ceramic Society, 2010, 93, 570-580.	1.9	56
18	Investigation into the microstructure evolution caused by nanoscratch-induced room temperature deformation in M-plane sapphire. Acta Materialia, 2011, 59, 5181-5193.	3.8	55

#	ARTICLE	IF	CITATIONS
19	Synthesis and Sintering Behavior of Ultrafine ($\leq 10\text{Ånm}$) Magnesium Aluminate Spinel Nanoparticles. Journal of the American Ceramic Society, 2013, 96, 2077-2085.	1.9	53
20	Evidence of surface cleaning during electric field assisted sintering. Scripta Materialia, 2013, 69, 769-772.	2.6	50
21	Depth sectioning in scanning transmission electron microscopy based on core-loss spectroscopy. Ultramicroscopy, 2007, 108, 17-28.	0.8	43
22	Low Temperature Sintering of Nanocrystalline Zinc Oxide: Effect of Heating Rate Achieved by Field Assisted Sintering/Spark Plasma Sintering. Journal of the American Ceramic Society, 2012, 95, 2451-2457.	1.9	41
23	Temperature gradient and microstructure evolution in AC flash sintering of 3Åmol% yttria-stabilized zirconia. Materials and Manufacturing Processes, 2017, 32, 549-556.	2.7	39
24	Progress in the Preparation of Cross-Sectional TEM Specimens by Ion-Beam Thinning. International Journal of Materials Research, 2003, 94, 290-297.	0.8	38
25	Experimental Methodologies for Assessing the Surface Energy of Highly Hygroscopic Materials: The Case of Nanocrystalline Magnesia. Journal of Physical Chemistry C, 2011, 115, 23929-23935.	1.5	38
26	Thermodynamics versus kinetics of grain growth control in nanocrystalline zirconia. Acta Materialia, 2017, 136, 224-234.	3.8	38
27	First-principles study of rare earth adsorption at $\hat{1}^2$ Si. Physical Review B, 2008, 78, .	1.1	37
28	Local Optical Properties, Electron Densities, and London Dispersion Energies of Atomically Structured Grain Boundaries. Physical Review Letters, 2004, 93, 227201.	2.9	35
29	Core-hole effects on the ELNES of absorption edges in SrTiO3. Ultramicroscopy, 2003, 96, 509-522.	0.8	34
30	Time-dependent dielectric breakdown of surface oxides during electric-field-assisted sintering. Acta Materialia, 2014, 63, 140-149.	3.8	34
31	Ultra-long magnetic nanochains for highly efficient arsenic removal from water. Journal of Materials Chemistry A, 2014, 2, 12974-12981.	5.2	33
32	Field assisted sintering of nickel nanoparticles during <i>in situ</i> transmission electron microscopy. Applied Physics Letters, 2010, 96, .	1.5	29
33	Dislocation mediated alignment during metal nanoparticle coalescence. Acta Materialia, 2016, 120, 364-378.	3.8	29
34	STEM imaging of single Pd atoms in activated carbon fibers considered for hydrogen storage. Carbon, 2011, 49, 4059-4063.	5.4	28
35	<i>In situ</i> transmission electron microscopy study of dielectric breakdown of surface oxides during electric field-assisted sintering of nickel nanoparticles. Applied Physics Letters, 2012, 101, 093107.	1.5	28
36	Structural changes during the reaction of Ni thin films with (100) silicon substrates. Acta Materialia, 2012, 60, 2668-2678.	3.8	27

#	ARTICLE	IF	CITATIONS
37	Bismuth Doping of Germanium Nanocrystals through Colloidal Chemistry. Chemistry of Materials, 2017, 29, 7353-7363.	3.2	26
38	Consolidation of Partially Stabilized ZrO_2 in the Presence of a Noncontacting Electric Field. Physical Review Letters, 2015, 114, 195503.	2.9	24
39	Simultaneous Scanning Electron Microscope Imaging of Topographical and Chemical Contrast Using In-Lens, In-Column, and Everhart-Thornley Detector Systems. Microscopy and Microanalysis, 2016, 22, 565-575.	0.2	24
40	Scanning Transmission Electron Microscopy for Nanostructure Characterization. , 2006, , 152-191.		22
41	Europium sulfide nanoparticles in the sub-2nm size regime. Materials Chemistry and Physics, 2009, 115, 526-529.	2.0	22
42	Single Hf atoms inside the ultrathin SiO ₂ interlayer between a HfO ₂ dielectric film and the Si substrate: How do they modify the interface?. Microelectronic Engineering, 2005, 80, 416-419.	1.1	21
43	Strong immobilization of charge carriers near the surface of a solid oxide electrolyte. Journal of Materials Chemistry, 2010, 20, 3855.	6.7	21
44	Mechanical properties of individual MgAl ₂ O ₄ agglomerates and their effects on densification. Acta Materialia, 2014, 69, 187-195.	3.8	21
45	Graded interface models for more accurate determination of van der Waals-London dispersion interactions across grain boundaries. Physical Review B, 2006, 74, .	1.1	20
46	Metal/ceramic Interface Structures and Segregation Behavior in Aluminum-based Composites. Microscopy and Microanalysis, 2015, 21, 1053-1054.	0.2	20
47	Chapter 9 Materials Applications of Aberration-Corrected Scanning Transmission Electron Microscopy. Advances in Imaging and Electron Physics, 2008, , 327-384.	0.1	19
48	Electronic structure investigations of Ni and Cr films on (100)SrTiO ₃ substrates using electron energy-loss spectroscopy. International Journal of Materials Research, 2002, 93, 362-371.	0.8	18
49	In-situ observation of equilibrium transitions in Ni films; agglomeration and impurity effects. Ultramicroscopy, 2014, 137, 55-65.	0.8	18
50	Agglomeration and long-range edge retraction for Au/Ni bilayer films during thermal annealing. Acta Materialia, 2016, 119, 167-176.	3.8	18
51	Experimental probe of adsorbate binding energies at internal crystalline/amorphous interfaces in Gd-doped Si ₃ N ₄ . Applied Physics Letters, 2008, 92, .	1.5	17
52	Sr _{0.95} Fe _{0.5} Co _{0.5} O _{3-δ} /Ce _{0.9} Gd _{0.1} O _{2-δ} dual-phase membrane: Oxygen permeability, phase stability, and chemical compatibility. Journal of Membrane Science, 2014, 462, 153-159.	4.1	17
53	Cross-sectional characterization of the dewetting of a Au/Ni bilayer film. Ultramicroscopy, 2017, 178, 131-139.	0.8	17
54	Methods for ELNES-quantification: characterization of the degree of inversion of Mg-Al-spinels. Micron, 2000, 31, 347-354.	1.1	16

#	ARTICLE	IF	CITATIONS
55	In situ transmission electron microscopic investigations of reduction-oxidation reactions during densification of nickel nanoparticles. <i>Journal of Materials Research</i> , 2012, 27, 2431-2440.	1.2	16
56	Design of Desintering in Tin Dioxide Nanoparticles. <i>Chemistry of Materials</i> , 2013, 25, 4262-4268.	3.2	16
57	Surface Segregation in Chromium-Doped Nanocrystalline Tin Dioxide Pigments. <i>Journal of the American Ceramic Society</i> , 2012, 95, 170-176.	1.9	15
58	Sacrificial Silver Nanoparticles: Reducing Gel ₂ To Form Hollow Germanium Nanoparticles by Electroless Deposition. <i>ACS Nano</i> , 2016, 10, 5391-5397.	7.3	15
59	Efficient and Hysteresis-Free Field Effect Modulation of Ambipolarly Doped Vanadium Dioxide Nanowires. <i>Physical Review Applied</i> , 2016, 5, .	1.5	15
60	Electrostatic fields control grain boundary structure in SrTiO ₃ . <i>Applied Physics Letters</i> , 2018, 113, .	1.5	15
61	Quantitative analysis for in situ sintering of 3% yttria-stabilized zirconia in the transmission electron microscope. <i>Ultramicroscopy</i> , 2015, 152, 35-43.	0.8	14
62	Robust X-Ray Phase Ptycho-Tomography. <i>IEEE Signal Processing Letters</i> , 2016, 23, 944-948.	2.1	14
63	Electric Field-Enhanced Grain-Boundary Mobility in Magnesium Aluminate During Annealing. <i>Journal of the American Ceramic Society</i> , 2016, 99, 1951-1959.	1.9	14
64	In-situ study of the dewetting behavior of Au/Ni bilayer films supported by a SiO ₂ /Si substrate. <i>Acta Materialia</i> , 2017, 140, 149-156.	3.8	14
65	Core-hole Effect on the ELNES of SrTiO ₃ : Experiment and Theory. <i>Microscopy and Microanalysis</i> , 2003, 9, 68-69.	0.2	13
66	Homogeneous Silica Formed by the Oxidation of Si(100) in Hyperthermal Atomic Oxygen. <i>Journal of Spacecraft and Rockets</i> , 2006, 43, 431-435.	1.3	13
67	Impurity segregation and ordering in SiO_x . <i>Physical Review B</i> , 2008, 77, .	1.1	13
68	Imaging and spectroscopy of defects in semiconductors using aberration-corrected STEM. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 96, 161-169.	1.1	12
69	Characterization of defect evolution in ultrathin SiO ₂ layers under applied electrical stress. <i>Journal of Applied Physics</i> , 2012, 112, 103513.	1.1	12
70	Nanovoids in dense hydroxyapatite ceramics after electric field assisted sintering. <i>Advances in Applied Ceramics</i> , 2018, 117, 376-382.	0.6	12
71	Preparation and characterisation of novel 'cucumber'-like structures containing carbon and boron. <i>Carbon</i> , 2004, 42, 2223-2231.	5.4	11
72	Advances in EELS spectroscopy by using new detector and new specimen preparation technologies. <i>Journal of Microscopy</i> , 2003, 210, 16-24.	0.8	10

#	ARTICLE	IF	CITATIONS
73	Robust mesoporous silica compacts: multi-scale characterization of microstructural changes related to physical–mechanical properties. <i>Journal of Materials Science</i> , 2016, 51, 4470-4480.	1.7	10
74	Bonding of thin Pd films on(100)SrTiO ₃ substrates:Ab initiodensity functional theory investigations. <i>Physical Review B</i> , 2005, 72, .	1.1	9
75	Ligand exchange based molecular doping in 2D hybrid molecule-nanoparticle arrays: length determines exchange efficiency and conductance. <i>Molecular Systems Design and Engineering</i> , 2017, 2, 440-448.	1.7	8
76	Ion beam heating of kinetically constrained nanomaterials. <i>Ultramicroscopy</i> , 2018, 186, 30-34.	0.8	8
77	The effect of electric fields on grain growth in MgAl ₂ O ₄ spinel. <i>Journal of the European Ceramic Society</i> , 2018, 38, 5512-5518.	2.8	7
78	Structural and Chemical Analysis of Materials with High Spatial Resolution. <i>Mikrochimica Acta</i> , 2002, 138, 181-193.	2.5	6
79	PtSi dominated Schottky barrier heights of Ni(Pt)Si contacts due to Pt segregation. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	6
80	Reduction reactions and densification during in situ TEM heating of iron oxide nanochains. <i>Journal of Applied Physics</i> , 2017, 122, 234303.	1.1	6
81	Effects of electrostatic field strength on grain–boundary core structures in SrTiO ₃ . <i>Journal of the American Ceramic Society</i> , 2019, 102, 4502-4510.	1.9	6
82	Atomic and Electronic Structure Investigations of HfO ₂ /SiO ₂ /Si Gate Stacks Using Aberration-Corrected STEM. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	5
83	Template assisted synthesis of europium sulfide nanotubes. <i>Materials Letters</i> , 2011, 65, 420-423.	1.3	5
84	Local Current-Activated Growth of Individual Nanostructures with High Aspect Ratios. <i>Materials Research Letters</i> , 2014, 2, 10-15.	4.1	5
85	p-i-n High-Speed Photodiodes for X-Ray and Infrared Imagers Fabricated by <i>In Situ</i> -Doped APCVD Germanium Homoepitaxy. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 3235-3241.	1.6	5
86	<i>In situ</i> Sintering of Ni Nanoparticles by Controlled Heating. <i>Microscopy and Microanalysis</i> , 2011, 17, 524-525.	0.2	4
87	Formation of pre-silicide layers below Ni ^{1-x} Pt _x Si/Si interfaces. <i>Acta Materialia</i> , 2013, 61, 2481-2488.	3.8	4
88	Determination of Reliable Grain Boundary Orientation using Automated Crystallographic Orientation Mapping in the Transmission Electron Microscope. <i>Microscopy and Microanalysis</i> , 2015, 21, 1663-1664.	0.2	4
89	Dewetting Transitions of Au/Ni Bilayer Films. <i>Microscopy and Microanalysis</i> , 2016, 22, 1628-1629.	0.2	4
90	Low-angle twist grain boundary in SrTiO ₃ fabricated by spark plasma sintering techniques. <i>Journal of the American Ceramic Society</i> , 2019, 102, 578-586.	1.9	4

#	ARTICLE	IF	CITATIONS
91	Letter to the Editor: Limitations to the Measurement of Oxygen Concentrations by HRTEM Imposed by Surface Roughness. <i>Microscopy and Microanalysis</i> , 2005, 11, 111-113.	0.2	3
92	Depth-related Contrast in Aberration-Corrected Confocal STEM. <i>Microscopy and Microanalysis</i> , 2006, 12, 1574-1575.	0.2	3
93	Increased thermal conductivity polycrystalline diamond for low-dissipation micromechanical resonators. , 2014, , .		3
94	Characterization of Laser Ablation Dynamics for Nickel Thin Films on Silicon Using Movie Mode Dynamic TEM. <i>Microscopy and Microanalysis</i> , 2015, 21, 1591-1592.	0.2	3
95	Formation of SrTiO ₃ bicrystals using spark plasma sintering techniques. <i>Scripta Materialia</i> , 2016, 118, 9-12.	2.6	3
96	Spark Plasma Sintering Apparatus Used for the Formation of Strontium Titanate Bicrystals. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	3
97	Effects of non-contact electric fields on consolidation behavior of agglomerated yttria-stabilized zirconia. <i>Microscopy and Microanalysis</i> , 2015, 21, 1511-1512.	0.2	2
98	High speed direct imaging of thin metal film ablation by movie-mode dynamic transmission electron microscopy. <i>Scientific Reports</i> , 2016, 6, 23046.	1.6	2
99	Oxidation Behavior of InAlN during Rapid Thermal Annealing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2100304.	0.8	2
100	In situ anisotropic NiO nanostructure growth at high temperature and under water vapor. <i>Journal of the American Ceramic Society</i> , 2022, 105, 2454-2464.	1.9	2
101	In-situ anisotropic growth of nickel oxide nanostructures through layer-by-layer metal oxidation. <i>Scripta Materialia</i> , 2022, 214, 114660.	2.6	2
102	3D Imaging with Single Atom Sensitivity using Confocal STEM. <i>Microscopy and Microanalysis</i> , 2006, 12, 1562-1563.	0.2	1
103	Aberration-corrected Scanning Transmission Electron Microscopy for Atomic-scale Characterization of Semiconductor Devices. <i>ECS Transactions</i> , 2007, 11, 225-231.	0.3	1
104	Direct Imaging of Point Defect Configurations for Au inside Si Nanowires. <i>Microscopy and Microanalysis</i> , 2008, 14, 204-205.	0.2	1
105	In Situ Investigation of Dielectric Breakdown in Field Effect Transistors. <i>Microscopy and Microanalysis</i> , 2010, 16, 1298-1299.	0.2	1
106	Atomic Level Mechanisms of Solid-State Dewetting in Thin Metal Films Deposited on Silicon (100) Substrates. <i>Microscopy and Microanalysis</i> , 2010, 16, 1462-1463.	0.2	1
107	Atomic Resolution Characterization of Semiconductor Materials by Aberration-Corrected Transmission Electron Microscopy. , 2011, , 287-307.		1
108	Characterization of Microstructures Before, During and After Densification. <i>Engineering Materials</i> , 2012, , 215-238.	0.3	1

#	ARTICLE	IF	CITATIONS
109	High-speed nanoscale characterization of dewetting via dynamic transmission electron microscopy. Journal of Applied Physics, 2016, 120, 085301.	1.1	1
110	Size-dependent stability of iron oxide evaluated through in-situ heating experiments. Microscopy and Microanalysis, 2017, 23, 1718-1719.	0.2	1
111	Phase Stability of Iron Oxide Evaluated Through Selected Area Electron Diffraction During In-Situ Heating Experiments. Microscopy and Microanalysis, 2019, 25, 1914-1915.	0.2	1
112	Electronic Structure Investigations of Metal / SrTiO ₃ Interfaces Using EELS. Microscopy and Microanalysis, 2001, 7, 304-305.	0.2	0
113	High Resolution EELS with the Aberration Corrected STEM: Determining Interfacial Electronic Structures with High Accuracy. Microscopy and Microanalysis, 2004, 10, 260-261.	0.2	0
114	Aberration-Corrected STEM - More than just Higher Resolution. Microscopy and Microanalysis, 2006, 12, 132-133.	0.2	0
115	Image Formation Based on Atomic Resolution Core-loss Electron Energy Loss Spectroscopy. Microscopy and Microanalysis, 2006, 12, 1138-1139.	0.2	0
116	Atomic scale investigations of ferroelectricity in perovskite thin films. , 2008, , .		0
117	Quantitative Image Contrast Variations in STEM. Microscopy and Microanalysis, 2008, 14, 942-943.	0.2	0
118	Quantitative Image Simulation for Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2008, 14, 930-931.	0.2	0
119	Characterization of EuS Nanotubes in Quantum Confinement. Microscopy and Microanalysis, 2009, 15, 1178-1179.	0.2	0
120	Atomic Resolution Investigation of Metal-Assisted Hydrogen Storage Mechanisms in Activated Carbon Fibers. Microscopy and Microanalysis, 2009, 15, 1426-1427.	0.2	0
121	Investigation of Dielectric Breakdown on the Atomic Length-Scale Using In Situ STM-TEM. Microscopy and Microanalysis, 2010, 16, 1750-1751.	0.2	0
122	Determination of Local Oxidations States in Ni-NiO Core-shell Structures Using White Line Intensity Ratios. Microscopy and Microanalysis, 2010, 16, 1458-1459.	0.2	0
123	Wetting-Dewetting Transitions of Ultrathin Nickel Films Deposited on Silicon (100) Substrates. Microscopy and Microanalysis, 2011, 17, 1328-1329.	0.2	0
124	Evaluation of Defect Structures from In Situ Dielectric Breakdown of SiO ₂ -Based Gate Dielectric Layers. Microscopy and Microanalysis, 2011, 17, 1352-1353.	0.2	0
125	Seeing inside materials by aberration-corrected electron microscopy. International Journal of Nanotechnology, 2011, 8, 935.	0.1	0
126	Substitutional and Interstitial Diffusion of Ni across the NiSi/Si interface. Microscopy and Microanalysis, 2012, 18, 344-345.	0.2	0

#	ARTICLE	IF	CITATIONS
127	In-situ Heating Investigations of Dewetting Transitions in Ultra-Thin Ni films on SiO ₂ Layers. Microscopy and Microanalysis, 2013, 19, 450-451.	0.2	0
128	Local Current-activated Growth of Nanometric Nickel Pillars During In situ STM-TEM Experiments. Microscopy and Microanalysis, 2013, 19, 504-505.	0.2	0
129	Characterization of the Interface Between Fe ₃ O ₄ Nanoparticles and a GaAs Substrate As a Platform For Next Generation Spintronic Devices. Microscopy and Microanalysis, 2013, 19, 1650-1651.	0.2	0
130	In situ Nanoindentation of Nanocrystalline MgAl ₂ O ₄ Agglomerates and Their Effect on Densification Behavior. Microscopy and Microanalysis, 2013, 19, 528-529.	0.2	0
131	Probing the Structure and Mechanical Properties of Individual MgAl ₂ O ₄ Porous Agglomerates and Their Effects on Densification. Microscopy and Microanalysis, 2014, 20, 1450-1451.	0.2	0
132	In-situ TEM Investigation of Reduction-Oxidation Reactions during Densification of Iron Oxide Nanoparticles. Microscopy and Microanalysis, 2014, 20, 1558-1559.	0.2	0
133	In situ Sintering of Agglomerated 3% Ytria-stabilized Zirconia. Microscopy and Microanalysis, 2014, 20, 1630-1631.	0.2	0
134	Nanodiffraction Characterization of Grain Boundary Structures in Nanocrystalline MgAl ₂ O ₄ prepared by Electric Field Assisted Sintering. Microscopy and Microanalysis, 2014, 20, 1936-1937.	0.2	0
135	Wetting and dewetting of ultra-thin Ni films on Si and SiO ₂ substrates. Microscopy and Microanalysis, 2015, 21, 775-776.	0.2	0
136	Formation of Strontium Titanate Bicrystal by the Spark Plasma Sintering Method. Microscopy and Microanalysis, 2016, 22, 1826-1827.	0.2	0
137	Preface. Ultramicroscopy, 2017, 178, 1.	0.8	0
138	Atomic Resolution Characterization of Semiconductor Materials by Aberration-Corrected Transmission Electron Microscopy \hat{t} . , 2017, , .		0
139	Atomic resolution investigation of electric field effects on equilibrium grain boundary configurations in ceramics. Microscopy and Microanalysis, 2019, 25, 2010-2011.	0.2	0
140	Stabilization of metal(II)oxides on the nanoscale. Materials Research Letters, 2020, 8, 41-47.	4.1	0
141	Impact of Electric Fields on Grain Boundary Atomic and Electronic Structures. Microscopy and Microanalysis, 2021, 27, 2926-2927.	0.2	0
142	In-situ NiO nanostructure growth during heating in water vapor atmosphere. Microscopy and Microanalysis, 2021, 27, 2102-2103.	0.2	0
143	Mechanisms of long-range edge retraction of metal bilayer films. Journal of Applied Physics, 2021, 130, 125302.	1.1	0
144	From 3D Imaging of Atoms to Macroscopic Device Properties. , 2008, , .		0