

# Klaus van Benthem

## List of Publications by Year in Descending Order

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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.

137  
papers

3,284  
citations

28  
h-index

55  
g-index

144  
ext. papers

3,590  
ext. citations

3.5  
avg, IF

5  
L-index

#	Paper	IF	Citations
137	In-situ anisotropic growth of nickel oxide nanostructures through layer-by-layer metal oxidation. <i>Scripta Materialia</i> , <b>2022</b> , 214, 114660	5.6	0
136	Impact of Electric Fields on Grain Boundary Atomic and Electronic Structures. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 2926-2927	0.5	
135	In-situ NiO nanostructure growth during heating in water vapor atmosphere. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 2102-2103	0.5	
134	Oxidation Behavior of InAlN during Rapid Thermal Annealing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2021</b> , 218, 2100304	1.6	1
133	Mechanisms of long-range edge retraction of metal bilayer films. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 125302	2.5	
132	Stabilization of metal(II)oxides on the nanoscale. <i>Materials Research Letters</i> , <b>2020</b> , 8, 41-47	7.4	
131	p-i-n High-Speed Photodiodes for X-Ray and Infrared Imagers Fabricated by In Situ-Doped APCVD Germanium Homoepitaxy. <i>IEEE Transactions on Electron Devices</i> , <b>2020</b> , 67, 3235-3241	2.9	0
130	Phase Stability of Iron Oxide Evaluated Through Selected Area Electron Diffraction During In-Situ Heating Experiments. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1914-1915	0.5	0
129	Effects of electrostatic field strength on grain-boundary core structures in SrTiO <sub>3</sub> . <i>Journal of the American Ceramic Society</i> , <b>2019</b> , 102, 4502-4510	3.8	3
128	Low-angle twist grain boundary in SrTiO <sub>3</sub> fabricated by spark plasma sintering techniques. <i>Journal of the American Ceramic Society</i> , <b>2019</b> , 102, 578-586	3.8	1
127	Atomic resolution investigation of electric field effects on equilibrium grain boundary configurations in ceramics. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 2010-2011	0.5	
126	Nanovoids in dense hydroxyapatite ceramics after electric field assisted sintering. <i>Advances in Applied Ceramics</i> , <b>2018</b> , 117, 376-382	2.3	8
125	Ion beam heating of kinetically constrained nanomaterials. <i>Ultramicroscopy</i> , <b>2018</b> , 186, 30-34	3.1	6
124	Electrostatic fields control grain boundary structure in SrTiO <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2018</b> , 113, 041604	3.4	10
123	The effect of electric fields on grain growth in MgAl <sub>2</sub> O <sub>4</sub> spinel. <i>Journal of the European Ceramic Society</i> , <b>2018</b> , 38, 5512-5518	6	4
122	Cross-sectional characterization of the dewetting of a Au/Ni bilayer film. <i>Ultramicroscopy</i> , <b>2017</b> , 178, 131-139	3.1	14
121	Atomic Resolution Characterization of Semiconductor Materials by Aberration-Corrected Transmission Electron Microscopy ? <b>2017</b> ,		

120	In-situ study of the dewetting behavior of Au/Ni bilayer films supported by a SiO <sub>2</sub> /Si substrate. <i>Acta Materialia</i> , <b>2017</b> , 140, 149-156	8.4	9
119	Ligand exchange based molecular doping in 2D hybrid molecule-nanoparticle arrays: length determines exchange efficiency and conductance. <i>Molecular Systems Design and Engineering</i> , <b>2017</b> , 2, 440-448	4.6	3
118	Bismuth Doping of Germanium Nanocrystals through Colloidal Chemistry. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 7353-7363	9.6	21
117	Spark Plasma Sintering Apparatus Used for the Formation of Strontium Titanate Bicrystals. <i>Journal of Visualized Experiments</i> , <b>2017</b> ,	1.6	1
116	Thermodynamics versus kinetics of grain growth control in nanocrystalline zirconia. <i>Acta Materialia</i> , <b>2017</b> , 136, 224-234	8.4	25
115	Temperature gradient and microstructure evolution in AC flash sintering of 3 mol% yttria-stabilized zirconia. <i>Materials and Manufacturing Processes</i> , <b>2017</b> , 32, 549-556	4.1	25
114	Reduction reactions and densification during TEM heating of iron oxide nanochains. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 234303	2.5	5
113	Size-dependent stability of iron oxide evaluated through in-situ heating experiments. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 1718-1719	0.5	1
112	Agglomeration and long-range edge retraction for Au/Ni bilayer films during thermal annealing. <i>Acta Materialia</i> , <b>2016</b> , 119, 167-176	8.4	13
111	Simultaneous Scanning Electron Microscope Imaging of Topographical and Chemical Contrast Using In-Lens, In-Column, and Everhart-Thornley Detector Systems. <i>Microscopy and Microanalysis</i> , <b>2016</b> , 22, 565-75	0.5	17
110	Dislocation mediated alignment during metal nanoparticle coalescence. <i>Acta Materialia</i> , <b>2016</b> , 120, 364-378	8.4	23
109	Efficient and Hysteresis-Free Field Effect Modulation of Ambipolarly Doped Vanadium Dioxide Nanowires. <i>Physical Review Applied</i> , <b>2016</b> , 5,	4.3	14
108	High speed direct imaging of thin metal film ablation by movie-mode dynamic transmission electron microscopy. <i>Scientific Reports</i> , <b>2016</b> , 6, 23046	4.9	2
107	DC Electric Field-Enhanced Grain-Boundary Mobility in Magnesium Aluminate During Annealing. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 1951-1959	3.8	9
106	Formation of SrTiO <sub>3</sub> bicrystals using spark plasma sintering techniques. <i>Scripta Materialia</i> , <b>2016</b> , 118, 9-12	5.6	2
105	Robust mesoporous silica compacts: multi-scale characterization of microstructural changes related to physical/mechanical properties. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 4470-4480	4.3	8
104	Dewetting Transitions of Au/Ni Bilayer Films. <i>Microscopy and Microanalysis</i> , <b>2016</b> , 22, 1628-1629	0.5	3
103	Formation of Strontium Titanate Bicrystal by the Spark Plasma Sintering Method. <i>Microscopy and Microanalysis</i> , <b>2016</b> , 22, 1826-1827	0.5	

102	Electrode Effects on Microstructure Formation During FLASH Sintering of Yttrium-Stabilized Zirconia. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 2253-2259	3.8	77
101	High-speed nanoscale characterization of dewetting via dynamic transmission electron microscopy. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 085301	2.5	1
100	Robust X-Ray Phase Ptycho-Tomography. <i>IEEE Signal Processing Letters</i> , <b>2016</b> , 23, 944-948	3.2	8
99	Sacrificial Silver Nanoparticles: Reducing Ge <sub>2</sub> To Form Hollow Germanium Nanoparticles by Electroless Deposition. <i>ACS Nano</i> , <b>2016</b> , 10, 5391-7	16.7	13
98	Metal/ceramic interface structures and segregation behavior in aluminum-based composites. <i>Acta Materialia</i> , <b>2015</b> , 95, 254-263	8.4	47
97	Consolidation of Partially Stabilized ZrO <sub>2</sub> in the Presence of a Noncontacting Electric Field. <i>Physical Review Letters</i> , <b>2015</b> , 114, 195503	7.4	19
96	Characterization of Laser Ablation Dynamics for Nickel Thin Films on Silicon Using Movie Mode Dynamic TEM. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 1591-1592	0.5	1
95	Metal/ceramic Interface Structures and Segregation Behavior in Aluminum-based Composites. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 1053-1054	0.5	16
94	Determination of Reliable Grain Boundary Orientation using Automated Crystallographic Orientation Mapping in the Transmission Electron Microscope. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 1663-1664	0.5	4
93	Wetting and dewetting of ultra-thin Ni films on Si and SiO <sub>2</sub> substrates. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 775-776	0.5	
92	Effects of non-contact electric fields on consolidation behavior of agglomerated yttria-stabilized zirconia. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 1511-1512	0.5	2
91	Quantitative analysis for in situ sintering of 3% yttria-stabilized zirconia in the transmission electron microscope. <i>Ultramicroscopy</i> , <b>2015</b> , 152, 35-43	3.1	11
90	Time-dependent dielectric breakdown of surface oxides during electric-field-assisted sintering. <i>Acta Materialia</i> , <b>2014</b> , 63, 140-149	8.4	23
89	Ultra-long Magnetic Nanochains for Highly Efficient Arsenic Removal from Water. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 12974-12981	13	29
88	Sr <sub>0.95</sub> Fe <sub>0.5</sub> Co <sub>0.5</sub> O <sub>3-δ</sub> /Ce <sub>0.9</sub> Gd <sub>0.1</sub> O <sub>2-δ</sub> Dual-phase membrane: Oxygen permeability, phase stability, and chemical compatibility. <i>Journal of Membrane Science</i> , <b>2014</b> , 462, 153-159	9.6	17
87	Probing the Structure and Mechanical Properties of Individual MgAl <sub>2</sub> O <sub>4</sub> Porous Agglomerates and Their Effects on Densification. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 1450-1451	0.5	
86	In-situ TEM Investigation of Reduction-Oxidation Reactions during Densification of Iron Oxide Nanoparticles. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 1558-1559	0.5	
85	In situ Sintering of Agglomerated 3% Yttria-stabilized Zirconia. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 1630-1631	0.5	

84	Nanodiffraction Characterization of Grain Boundary Structures in Nanocrystalline MgAl <sub>2</sub> O <sub>4</sub> prepared by Electric Field Assisted Sintering. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 1936-1937	0.5	
83	Local Current-Activated Growth of Individual Nanostructures with High Aspect Ratios. <i>Materials Research Letters</i> , <b>2014</b> , 2, 10-15	7.4	4
82	Increased thermal conductivity polycrystalline diamond for low-dissipation micromechanical resonators <b>2014</b> ,		3
81	Mechanical properties of individual MgAl <sub>2</sub> O <sub>4</sub> agglomerates and their effects on densification. <i>Acta Materialia</i> , <b>2014</b> , 69, 187-195	8.4	17
80	In-situ observation of equilibrium transitions in Ni films; agglomeration and impurity effects. <i>Ultramicroscopy</i> , <b>2014</b> , 137, 55-65	3.1	17
79	Synthesis and Sintering Behavior of Ultrafine (. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 2077-2085	9.5	42
78	Evidence of surface cleaning during electric field assisted sintering. <i>Scripta Materialia</i> , <b>2013</b> , 69, 769-772	5.6	45
77	Design of Desintering in Tin Dioxide Nanoparticles. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 4262-4268	9.6	14
76	Formation of pre-silicide layers below Ni <sub>1-x</sub> Pt <sub>x</sub> Si/Si interfaces. <i>Acta Materialia</i> , <b>2013</b> , 61, 2481-2488	8.4	4
75	PtSi dominated Schottky barrier heights of Ni(Pt)Si contacts due to Pt segregation. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 123507	3.4	4
74	Amorphous Alumina Nanoparticles: Structure, Surface Energy, and Thermodynamic Phase Stability. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 17123-17130	3.8	106
73	Characterization of the Interface Between Fe <sub>3</sub> O <sub>4</sub> Nanoparticles and a GaAs Substrate As a Platform For Next Generation Spintronic Devices. <i>Microscopy and Microanalysis</i> , <b>2013</b> , 19, 1650-1651	0.5	
72	Low Temperature Sintering of Nanocrystalline Zinc Oxide: Effect of Heating Rate Achieved by Field Assisted Sintering/Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 2451-2457	3.8	34
71	In situ transmission electron microscopy study of dielectric breakdown of surface oxides during electric field-assisted sintering of nickel nanoparticles. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 093107	3.4	22
70	In situ transmission electron microscopic investigations of reduction-oxidation reactions during densification of nickel nanoparticles. <i>Journal of Materials Research</i> , <b>2012</b> , 27, 2431-2440	2.5	15
69	Characterization of Microstructures Before, During and After Densification. <i>Engineering Materials</i> , <b>2012</b> , 215-238	0.4	0
68	Structural changes during the reaction of Ni thin films with (100) silicon substrates. <i>Acta Materialia</i> , <b>2012</b> , 60, 2668-2678	8.4	24
67	Surface Segregation in Chromium-Doped Nanocrystalline Tin Dioxide Pigments. <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 170-176	3.8	11

66	Characterization of defect evolution in ultrathin SiO <sub>2</sub> layers under applied electrical stress. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 103513	2.5	8
65	Substitutional and Interstitial Diffusion of Ni across the NiSi/Si interface. <i>Microscopy and Microanalysis</i> , <b>2012</b> , 18, 344-345	0.5	
64	In situ Sintering of Ni Nanoparticles by Controlled Heating. <i>Microscopy and Microanalysis</i> , <b>2011</b> , 17, 524-525	4	
63	Wetting-Dewetting Transitions of Ultrathin Nickel Films Deposited on Silicon (100) Substrates. <i>Microscopy and Microanalysis</i> , <b>2011</b> , 17, 1328-1329	0.5	
62	Evaluation of Defect Structures from In Situ Dielectric Breakdown of SiO <sub>2</sub> -Based Gate Dielectric Layers. <i>Microscopy and Microanalysis</i> , <b>2011</b> , 17, 1352-1353	0.5	
61	Template assisted synthesis of europium sulfide nanotubes. <i>Materials Letters</i> , <b>2011</b> , 65, 420-423	3.3	5
60	Investigation into the microstructure evolution caused by nanoscratch-induced room temperature deformation in M-plane sapphire. <i>Acta Materialia</i> , <b>2011</b> , 59, 5181-5193	8.4	40
59	Experimental Methodologies for Assessing the Surface Energy of Highly Hygroscopic Materials: The Case of Nanocrystalline Magnesia. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 23929-23935	3.8	32
58	STEM imaging of single Pd atoms in activated carbon fibers considered for hydrogen storage. <i>Carbon</i> , <b>2011</b> , 49, 4059-4063	10.4	24
57	Single Pd atoms in activated carbon fibers and their contribution to hydrogen storage. <i>Carbon</i> , <b>2011</b> , 49, 4050-4058	10.4	65
56	Atomic Resolution Characterization of Semiconductor Materials by Aberration-Corrected Transmission Electron Microscopy <b>2011</b> , 287-307		1
55	Seeing inside materials by aberration-corrected electron microscopy. <i>International Journal of Nanotechnology</i> , <b>2011</b> , 8, 935	1.5	
54	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 <sub>2</sub> O <sub>3</sub> (RE=La, Gd, Lu). <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 570-580	3.8	40
53	Atomic Level Mechanisms of Solid-State Dewetting in Thin Metal Films Deposited on Silicon (100) Substrates. <i>Microscopy and Microanalysis</i> , <b>2010</b> , 16, 1462-1463	0.5	1
52	Determination of Local Oxidations States in Ni-NiO Core-shell Structures Using White Line Intensity Ratios. <i>Microscopy and Microanalysis</i> , <b>2010</b> , 16, 1458-1459	0.5	
51	Field assisted sintering of nickel nanoparticles during in situ transmission electron microscopy. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 243106	3.4	27
50	Strong immobilization of charge carriers near the surface of a solid oxide electrolyte. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 3855		21
49	In Situ Investigation of Dielectric Breakdown in Field Effect Transistors. <i>Microscopy and Microanalysis</i> , <b>2010</b> , 16, 1298-1299	0.5	1

48	Investigation of Dielectric Breakdown on the Atomic Length-Scale Using In Situ STM-TEM. <i>Microscopy and Microanalysis</i> , <b>2010</b> , 16, 1750-1751	0.5	
47	Au on MgAl <sub>2</sub> O <sub>4</sub> spinels: The effect of support surface properties in glycerol oxidation. <i>Journal of Catalysis</i> , <b>2010</b> , 275, 108-116	7.3	90
46	Aberration-corrected scanning transmission electron microscopy: from atomic imaging and analysis to solving energy problems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2009</b> , 367, 3709-33	3	76
45	Europium sulfide nanoparticles in the sub-2nm size regime. <i>Materials Chemistry and Physics</i> , <b>2009</b> , 115, 526-529	4.4	21
44	Imaging and spectroscopy of defects in semiconductors using aberration-corrected STEM. <i>Applied Physics A: Materials Science and Processing</i> , <b>2009</b> , 96, 161-169	2.6	10
43	Characterization of EuS Nanotubes in Quantum Confinement. <i>Microscopy and Microanalysis</i> , <b>2009</b> , 15, 1178-1179	0.5	
42	Atomic Resolution Investigation of Metal-Assisted Hydrogen Storage Mechanisms in Activated Carbon Fibers. <i>Microscopy and Microanalysis</i> , <b>2009</b> , 15, 1426-1427	0.5	
41	Chapter 9 Materials Applications of Aberration-Corrected Scanning Transmission Electron Microscopy. <i>Advances in Imaging and Electron Physics</i> , <b>2008</b> , 327-384	0.2	19
40	Optimal doping control of magnetic semiconductors via subsurfactant epitaxy. <i>Physical Review Letters</i> , <b>2008</b> , 100, 066101	7.4	54
39	Point defect configurations of supersaturated Au atoms inside Si nanowires. <i>Nano Letters</i> , <b>2008</b> , 8, 1016-1019	9.5	111
38	First-principles study of rare earth adsorption at Si <sub>3</sub> N <sub>4</sub> interfaces. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	34
37	Impurity segregation and ordering in Si/SiO <sub>2</sub> /HfO <sub>2</sub> structures. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	12
36	Experimental probe of adsorbate binding energies at internal crystalline/amorphous interfaces in Gd-doped Si <sub>3</sub> N <sub>4</sub> . <i>Applied Physics Letters</i> , <b>2008</b> , 92, 163110	3.4	17
35	Quantitative Image Contrast Variations in STEM. <i>Microscopy and Microanalysis</i> , <b>2008</b> , 14, 942-943	0.5	
34	Direct Imaging of Point Defect Configurations for Au inside Si Nanowires. <i>Microscopy and Microanalysis</i> , <b>2008</b> , 14, 204-205	0.5	
33	Quantitative Image Simulation for Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , <b>2008</b> , 14, 930-931	0.5	
32	Dopant segregation and giant magnetoresistance in manganese-doped germanium. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	81
31	Depth sectioning in scanning transmission electron microscopy based on core-loss spectroscopy. <i>Ultramicroscopy</i> , <b>2007</b> , 108, 17-28	3.1	37

30	Interpreting atomic-resolution spectroscopic images. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	62
29	Three-dimensional ADF imaging of individual atoms by through-focal series scanning transmission electron microscopy. <i>Ultramicroscopy</i> , <b>2006</b> , 106, 1062-8	3.1	100
28	Graded interface models for more accurate determination of van der Waals-London dispersion interactions across grain boundaries. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	20
27	Homogeneous Silica Formed by the Oxidation of Si(100) in Hyperthermal Atomic Oxygen. <i>Journal of Spacecraft and Rockets</i> , <b>2006</b> , 43, 431-435	1.5	6
26	Scanning Transmission Electron Microscopy for Nanostructure Characterization <b>2006</b> , 152-191		15
25	Aberration-Corrected STEM - More than just Higher Resolution. <i>Microscopy and Microanalysis</i> , <b>2006</b> , 12, 132-133	0.5	
24	Depth-related Contrast in Aberration-Corrected Confocal STEM. <i>Microscopy and Microanalysis</i> , <b>2006</b> , 12, 1574-1575	0.5	2
23	Image Formation Based on Atomic Resolution Core-loss Electron Energy Loss Spectroscopy. <i>Microscopy and Microanalysis</i> , <b>2006</b> , 12, 1138-1139	0.5	
22	3D Imaging with Single Atom Sensitivity using Confocal STEM. <i>Microscopy and Microanalysis</i> , <b>2006</b> , 12, 1562-1563	0.5	0
21	The effect of interfacial layer properties on the performance of Hf-based gate stack devices. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 094108	2.5	117
20	MATERIALS CHARACTERIZATION IN THE ABERRATION-CORRECTED SCANNING TRANSMISSION ELECTRON MICROSCOPE. <i>Annual Review of Materials Research</i> , <b>2005</b> , 35, 539-569	12.8	159
19	Single Hf atoms inside the ultrathin SiO <sub>2</sub> interlayer between a HfO <sub>2</sub> dielectric film and the Si substrate: How do they modify the interface?. <i>Microelectronic Engineering</i> , <b>2005</b> , 80, 416-419	2.5	15
18	Limitations to the measurement of oxygen concentrations by HRTEM imposed by surface roughness. <i>Microscopy and Microanalysis</i> , <b>2005</b> , 11, 111-3; author reply 113-5	0.5	3
17	Atomic and Electronic Structure Investigations of HfO <sub>2</sub> /SiO <sub>2</sub> /Si Gate Stacks Using Aberration-Corrected STEM. <i>AIP Conference Proceedings</i> , <b>2005</b> ,	0	3
16	Bonding of thin Pd films on (100)SrTiO <sub>3</sub> substrates: Ab initio density functional theory investigations. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	6
15	Three-dimensional imaging of individual hafnium atoms inside a semiconductor device. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 034104	3.4	184
14	Local optical properties, electron densities, and london dispersion energies of atomically structured grain boundaries. <i>Physical Review Letters</i> , <b>2004</b> , 93, 227201	7.4	33
13	Preparation and characterisation of novel sea-cucumber-like structures containing carbon and boron. <i>Carbon</i> , <b>2004</b> , 42, 2223-2231	10.4	11



12	High Resolution EELS with the Aberration Corrected STEM: Determining Interfacial Electronic Structures with High Accuracy. <i>Microscopy and Microanalysis</i> , <b>2004</b> , 10, 260-261	0.5	
11	Progress in the Preparation of Cross-Sectional TEM Specimens by Ion-Beam Thinning. <i>International Journal of Materials Research</i> , <b>2003</b> , 94, 290-297		36
10	Core-hole Effect on the ELNES of SrTiO <sub>3</sub> : Experiment and Theory. <i>Microscopy and Microanalysis</i> , <b>2003</b> , 9, 68-69	0.5	13
9	Core-hole effects on the ELNES of absorption edges in SrTiO <sub>3</sub> . <i>Ultramicroscopy</i> , <b>2003</b> , 96, 509-22	3.1	33
8	Advances in EELS spectroscopy by using new detector and new specimen preparation technologies. <i>Journal of Microscopy</i> , <b>2003</b> , 210, 16-24	1.9	10
7	Structural and Chemical Analysis of Materials with High Spatial Resolution. <i>Mikrochimica Acta</i> , <b>2002</b> , 138, 181-193	5.8	5
6	Electronic structure investigations of Ni and Cr films on (100)SrTiO <sub>3</sub> substrates using electron energy-loss spectroscopy. <i>International Journal of Materials Research</i> , <b>2002</b> , 93, 362-371		18
5	Valence electron energy loss study of Fe-doped SrTiO <sub>3</sub> and a sigma13 boundary: electronic structure and dispersion forces. <i>Ultramicroscopy</i> , <b>2001</b> , 86, 303-18	3.1	60
4	Bulk electronic structure of SrTiO <sub>3</sub> : Experiment and theory. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 6156-6164	1.4	669
3	Electronic Structure Investigations of Metal / SrTiO <sub>3</sub> Interfaces Using EELS. <i>Microscopy and Microanalysis</i> , <b>2001</b> , 7, 304-305	0.5	
2	Methods for ELNES-quantification: characterization of the degree of inversion of Mg-Al-spinels. <i>Micron</i> , <b>2000</b> , 31, 347-54	2.3	14
1	In situ anisotropic NiO nanostructure growth at high temperature and under water vapor. <i>Journal of the American Ceramic Society</i> ,	3.8	1