

Ferdinand Hofer

List of Publications by Year in descending order

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239
papers

7,971
citations

53751

45
h-index

66879

78
g-index

247
all docs

247
docs citations

247
times ranked

8655
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlating whole sample EDS and Raman mappings – A case study of a Chelyabinsk meteorite fragment. <i>Micron</i> , 2022, 153, 103177.	1.1	2
2	Ultrastructure of spherites in the midgut diverticula and Malpighian tubules of the harvestman <i>Amilenus aurantiacus</i> during the winter diapause. <i>Histochemistry and Cell Biology</i> , 2022, 157, 107-118.	0.8	5
3	A method for a column-by-column EELS quantification of barium lanthanum ferrate. <i>Ultramicroscopy</i> , 2022, 234, 113477.	0.8	3
4	SiCâ€“Si ₃ N ₄ Nanocomposite Prepared by the Addition of SiO ₂ + C. <i>International Journal of Materials Research</i> , 2022, 92, 937-941.	0.1	2
5	Benefits of direct electron detection and PCA for EELS investigation of organic photovoltaics materials. <i>Micron</i> , 2021, 140, 102981.	1.1	11
6	An In Situ Synchrotron Dilatometry and Atomistic Study of Martensite and Carbide Formation during Partitioning and Tempering. <i>Materials</i> , 2021, 14, 3849.	1.3	0
7	Long-Term Stability of Pr ₂ NiO ₄ Air Electrodes for Solid Oxide Cells against Chromium Poisoning. <i>Journal of the Electrochemical Society</i> , 2021, 168, 014509.	1.3	9
8	Thermally Induced Diffusion and Restructuring of Iron Triade (Fe, Co, Ni) Nanoparticles Passivated by Several Layers of Gold. <i>Journal of Physical Chemistry C</i> , 2020, 124, 16680-16688.	1.5	14
9	Helium droplet assisted synthesis of plasmonic Ag@ZnO core@shell nanoparticles. <i>Nano Research</i> , 2020, 13, 2979-2986.	5.8	11
10	New Solar Cell – Battery Hybrid Energy System: Integrating Organic Photovoltaics with Li-Ion and Na-Ion Technologies. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 19155-19168.	3.2	14
11	Ultrashort XUV pulse absorption spectroscopy of partially oxidized cobalt nanoparticles. <i>Journal of Applied Physics</i> , 2020, 127, 184303.	1.1	4
12	Microstructural changes induced by Er and Zr additions to A356 alloy investigated by thermal analyses and STEM observations. <i>Materials Characterization</i> , 2020, 161, 110117.	1.9	13
13	Attosecond Spectroscopy of Ultrafast Carrier Dynamics in Nanoparticles. , 2020, , .		1
14	Elemental Nanoanalysis of Interfacial Alumina – Aryl Fluoride Interactions in Fullerene – Free Organic Tandem Solar Cells. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901053.	1.9	8
15	Effects of the Core Location on the Structural Stability of Ni – Au Core – Shell Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20037-20043.	1.5	28
16	On the passivation of iron particles at the nanoscale. <i>Nanoscale Advances</i> , 2019, 1, 2276-2283.	2.2	10
17	Elucidation of Donor:Acceptor Phase Separation in Nonfullerene Organic Solar Cells and Its Implications on Device Performance and Charge Carrier Mobility. <i>ACS Applied Energy Materials</i> , 2019, 2, 7535-7545.	2.5	11
18	Synthesis of nanosized vanadium (V) oxide clusters below 10 nm. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 21104-21108.	1.3	6

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19	Structural characterization of poly-Si Films crystallized by Ni Metal Induced Lateral Crystallization. Scientific Reports, 2019, 9, 2844.	1.6	11
20	The impact of swift electrons on the segregation of Ni-Au nanoalloys. Applied Physics Letters, 2019, 115, 123103.	1.5	6
21	Ultra-thin h-BN substrates for nanoscale plasmon spectroscopy. Journal of Applied Physics, 2019, 125, .	1.1	8
22	Stability of Core-Shell Nanoparticles for Catalysis at Elevated Temperatures: Structural Inversion in the Ni-Au System Observed at Atomic Resolution. Chemistry of Materials, 2018, 30, 1113-1120.	3.2	44
23	Thermally induced alloying processes in a bimetallic system at the nanoscale: AgAu sub-5 nm core-shell particles studied at atomic resolution. Nanoscale, 2018, 10, 2017-2024.	2.8	30
24	How Dark Are Radial Breathing Modes in Plasmonic Nanodisks?. ACS Photonics, 2018, 5, 861-866.	3.2	30
25	Adatom dynamics and the surface reconstruction of Si(110) revealed using time-resolved electron microscopy. Applied Physics Letters, 2018, 113, .	1.5	9
26	Copper-Alumina nanocomposites derived from CuAlO_2 : Phase transformation and microstructural coarsening. Journal of the American Ceramic Society, 2018, 101, 5801-5810.	1.9	6
27	Phase decomposition of La_2NiO_4 under Cr- and Si-poisoning conditions. Solid State Ionics, 2018, 322, 44-53.	1.3	13
28	Modelling electron beam induced dynamics in metallic nanoclusters. Ultramicroscopy, 2018, 192, 69-79.	0.8	19
29	Properties of nitrocarburised and oxidised steel surfaces and the correlation with their tribological behaviour under unlubricated sliding conditions. Wear, 2018, 410-411, 127-141.	1.5	2
30	Thermally induced breakup of metallic nanowires: experiment and theory. Physical Chemistry Chemical Physics, 2017, 19, 9402-9408.	1.3	21
31	Inclusions in Si whiskers grown by Ni metal induced lateral crystallization. Journal of Applied Physics, 2017, 121, .	1.1	10
32	Presence of silver in the strengthening particles of an Al-Cu-Mg-Si-Zr-Ti-Ag alloy during severe overaging and creep. Acta Materialia, 2017, 125, 50-57.	3.8	24
33	Transformation dynamics of Ni clusters into NiO rings under electron beam irradiation. Ultramicroscopy, 2017, 176, 105-111.	0.8	10
34	Precipitation of Long-Period Stacking Ordered Structure in Mg-Gd-Zn-Mn Alloy. Advanced Engineering Materials, 2017, 19, 1600705.	1.6	3
35	Publisher's Note. Ultramicroscopy, 2017, 174, 1.	0.8	1
36	3D Imaging of Gap Plasmons in Vertically Coupled Nanoparticles by EELS Tomography. Nano Letters, 2017, 17, 6773-6777.	4.5	31

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37	Oxygen exchange kinetics of $\text{La}_{0.6}\text{Sr}_{0.4}\text{CoO}_{3-\delta}$ affected by changes of the surface composition due to chromium and silicon poisoning. <i>Solid State Ionics</i> , 2017, 299, 26-31.	1.3	20
38	Spectrum image analysis tool – A flexible MATLAB solution to analyze EEL and CL spectrum images. <i>Micron</i> , 2017, 93, 43-51.	1.1	8
39	Heterogeneous nucleation of entrained eutectic Si in high purity melt spun Al-Si alloys investigated by entrained droplet technique and DSC. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 117, 012006.	0.3	1
40	Fundamentals of electron energy-loss spectroscopy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 109, 012007.	0.3	45
41	Effects of trace elements (Y and Ca) on the eutectic Ge in Al-Ge based alloys. <i>Acta Materialia</i> , 2016, 111, 85-95.	3.8	11
42	Synthesis and morphology of iron-iron oxide core-shell nanoparticles produced by high pressure gas condensation. <i>Nanotechnology</i> , 2016, 27, 215703.	1.3	19
43	Phase decomposition in the chromium- and silicon-poisoned IT-SOFC cathode materials $\text{La}_{0.6}\text{Sr}_{0.4}\text{CoO}_{3-\delta}$ and La_2NiO_4 . <i>Solid State Ionics</i> , 2016, 288, 14-21.	1.3	24
44	Modeling the Microstructural and Yield Strength Evolution of an Age-Hardenable Al Alloy for High Temperature Applications. <i>Materials Science Forum</i> , 2016, 879, 380-385.	0.3	2
45	Impact of lattice dynamics on the phase stability of metamagnetic FeRh: Bulk and thin films. <i>Physical Review B</i> , 2016, 94, .	1.1	44
46	Edge Mode Coupling within a Plasmonic Nanoparticle. <i>Nano Letters</i> , 2016, 16, 5152-5155.	4.5	15
47	Room temperature synthesis of CuInS_2 nanocrystals. <i>RSC Advances</i> , 2016, 6, 106120-106129.	1.7	30
48	Self-organized Sr leads to solid state twinning in nano-scaled eutectic Si phase. <i>Scientific Reports</i> , 2016, 6, 31635.	1.6	34
49	Single grain analysis on a nanoscale in $\text{ZrO}_2:\text{Al}_2\text{O}_3$ nano-composites by means of high-resolution scanning transmission electron Microscopy. <i>Materials Research Express</i> , 2016, 3, 125009.	0.8	3
50	High-quality imaging in environmental scanning electron microscopy – optimizing the pressure limiting system and the secondary electron detection of a commercially available ESEM. <i>Journal of Microscopy</i> , 2016, 262, 85-91.	0.8	6
51	The impact of doping rates on the morphologies of silver and gold nanowires grown in helium nanodroplets. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1451-1459.	1.3	36
52	Long-term degradation of $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}$ IT-SOFC cathodes due to silicon poisoning. <i>Solid State Ionics</i> , 2016, 288, 22-27.	1.3	21
53	Focused electron beam induced deposition as a tool to create electron vortices. <i>Micron</i> , 2016, 80, 34-38.	1.1	23
54	Experimental evaluation of environmental scanning electron microscopes at high chamber pressure. <i>Journal of Microscopy</i> , 2015, 260, 133-139.	0.8	3

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55	Plasmon modes of a silver thin film taper probed with STEM-EELS. <i>Optics Letters</i> , 2015, 40, 5670.	1.7	5
56	Correlative characterization of primary Al ₃ (Sc,Zr) phase in an Al–Zn–Mg based alloy. <i>Materials Characterization</i> , 2015, 102, 62-70.	1.9	43
57	Thermal instabilities and Rayleigh breakup of ultrathin silver nanowires grown in helium nanodroplets. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 24570-24575.	1.3	54
58	Island-type growth of Au–Pt heterodimers: direct visualization of misfit dislocations and strain-relief mechanisms. <i>RSC Advances</i> , 2015, 5, 55262-55268.	1.7	10
59	Formation of bimetallic clusters in superfluid helium nanodroplets analysed by atomic resolution electron tomography. <i>Nature Communications</i> , 2015, 6, 8779.	5.8	90
60	Correlated 3D Nanoscale Mapping and Simulation of Coupled Plasmonic Nanoparticles. <i>Nano Letters</i> , 2015, 15, 7726-7730.	4.5	35
61	Solute adsorption and entrapment during eutectic Si growth in Al–Si-based alloys. <i>Acta Materialia</i> , 2015, 83, 187-202.	3.8	119
62	Investigation on the formation of copper zinc tin sulphide nanoparticles from metal salts and dodecanethiol. <i>Materials Chemistry and Physics</i> , 2015, 149-150, 94-98.	2.0	6
63	Formation of bimetallic core-shell nanowires along vortices in superfluid He nanodroplets. <i>Physical Review B</i> , 2014, 90, .	1.1	66
64	Quantitative Elemental Mapping at Atomic Resolution Using X-Ray Spectroscopy. <i>Physical Review Letters</i> , 2014, 112, .	2.9	102
65	Flexible polymer/copper indium sulfide hybrid solar cells and modules based on the metal xanthate route and low temperature annealing. <i>Solar Energy Materials and Solar Cells</i> , 2014, 124, 117-125.	3.0	35
66	Order vs. disorder—a huge increase in ionic conductivity of nanocrystalline LiAlO ₂ embedded in an amorphous-like matrix of lithium aluminate. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20295-20306.	5.2	79
67	Morphing a Plasmonic Nanodisk into a Nanotriangle. <i>Nano Letters</i> , 2014, 14, 4810-4815.	4.5	112
68	Nucleation kinetics of entrained eutectic Si in Al–5Si alloys. <i>Acta Materialia</i> , 2014, 72, 80-98.	3.8	90
69	Real time X-ray scattering study of the formation of ZnS nanoparticles using synchrotron radiation. <i>Materials Chemistry and Physics</i> , 2014, 144, 310-317.	2.0	6
70	Universal dispersion of surface plasmons in flat nanostructures. <i>Nature Communications</i> , 2014, 5, 3604.	5.8	96
71	Quantitative EDX and EELS Elemental Mapping at Atomic Resolution. <i>Microscopy and Microanalysis</i> , 2014, 20, 570-571.	0.2	1
72	Universal Scaling of Surface Plasmon Modes. <i>Microscopy and Microanalysis</i> , 2014, 20, 624-625.	0.2	0

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73	Linking TEM Analytical Spectroscopies for an Assumptionless Compositional Analysis. <i>Microscopy and Microanalysis</i> , 2014, 20, 678-686.	0.2	18
74	Direct extreme UV-lithographic conversion of metal xanthates into nanostructured metal sulfide layers for hybrid photovoltaics. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11135.	5.2	24
75	Bismuth sulphide-polymer nanocomposites from a highly soluble bismuth xanthate precursor. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7825.	2.7	52
76	Influence of the bridging atom in fluorene analogue low-bandgap polymers on photophysical and morphological properties of copper indium sulfide/polymer nanocomposite solar cells. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 1400-1410.	2.4	12
77	Sulphur poisoning of the SOFC cathode material $\text{La}_{0.6}\text{Sr}_{0.4}\text{CoO}_3$. <i>Solid State Ionics</i> , 2013, 238, 15-23.	1.3	64
78	Solution-processed copper zinc tin sulfide thin films from metal xanthate precursors. <i>Monatshefte für Chemie</i> , 2013, 144, 273-283.	0.9	27
79	Post-test analysis of silicon poisoning and phase decomposition in the SOFC cathode material $\text{La}_{0.58}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_3$ by transmission electron microscopy. <i>Solid State Ionics</i> , 2013, 230, 7-11.	1.3	43
80	Solution-processed small molecule/copper indium sulfide hybrid solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2013, 114, 38-42.	3.0	26
81	Chemical tuning of PtC nanostructures fabricated via focused electron beam induced deposition. <i>Nanotechnology</i> , 2013, 24, 175305.	1.3	23
82	Influence of morphology and polymer:nanoparticle ratio on device performance of hybrid solar cells—an approach in experiment and simulation. <i>Nanotechnology</i> , 2013, 24, 484005.	1.3	27
83	Comparing photovoltaic parameters of conventional cathodes with a novel silver nanoparticle/aluminum cathode in polymer based solar cells. , 2013, , .		0
84	Volcano effect in open through silicon via (TSV) technology. , 2012, , .		1
85	Analysis of native structures of soft materials by cryo scanning probe tomography. <i>Soft Matter</i> , 2012, 8, 9756.	1.2	20
86	Comprehensive Investigation of Silver Nanoparticle/Aluminum Electrodes for Copper Indium Sulfide/Polymer Hybrid Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012, 116, 19191-19196.	1.5	17
87	Investigation of CuInS_2 Thin Film Formation by a Low-Temperature Chemical Deposition Method. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 382-390.	4.0	18
88	Copper zinc tin sulfide layers prepared from solution processable metal dithiocarbamate precursors. <i>Materials Chemistry and Physics</i> , 2012, 136, 582-588.	2.0	17
89	Mesoporous ZnS Thin Films Prepared by a Nanocasting Route. <i>Chemistry of Materials</i> , 2012, 24, 1837-1845.	3.2	43
90	Dark Plasmonic Breathing Modes in Silver Nanodisks. <i>Nano Letters</i> , 2012, 12, 5780-5783.	4.5	198

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91	Fundamental Proximity Effects in Focused Electron Beam Induced Deposition. ACS Nano, 2012, 6, 286-294.	7.3	51
92	Electron microscopy of nanoemulsions: An essential tool for characterisation and stability assessment. Micron, 2012, 43, 85-103.	1.1	246
93	The evidence on the degradation processes in the midgut epithelial cells of the larval antlion <i>Euroleon nostras</i> (Geoffroy in Fourcroy, 1785) (Myrmeleontidae, Neuroptera). Micron, 2012, 43, 651-665.	1.1	10
94	Synthesis and characterization of copper zinc tin chalcogenide nanoparticles: Influence of reactants on the chemical composition. Solar Energy Materials and Solar Cells, 2012, 101, 87-94.	3.0	61
95	Application of analytical electron microscopic methods to investigate the function of spherites in the midgut of the larval antlion <i>Euroleon nostras</i> (Neuroptera: Myrmeleontidae). Microscopy Research and Technique, 2012, 75, 397-407.	1.2	19
96	The stoichiometry of single nanoparticles of copper zinc tin selenide. Chemical Communications, 2011, 47, 2050-2052.	2.2	44
97	Investigation of the Formation of CuInS_2 Nanoparticles by the Oleylamine Route: Comparison of Microwave-Assisted and Conventional Syntheses. Inorganic Chemistry, 2011, 50, 193-200.	1.9	84
98	Silicon: The key element in early stages of biocalcification. Journal of Structural Biology, 2011, 174, 180-186.	1.3	38
99	Structural and optical properties of nanoparticulate $\text{Y}_2\text{O}_3:\text{Eu}_2\text{O}_3$ made by microwave plasma synthesis. Applied Physics A: Materials Science and Processing, 2011, 105, 709-712.	1.1	6
100	A Direct Route Towards Polymer/Copper Indium Sulfide Nanocomposite Solar Cells. Advanced Energy Materials, 2011, 1, 1046-1050.	10.2	102
101	Activation and Deactivation of a Chemical Transformation by an Electromagnetic Field: Evidence for Specific Microwave Effects in the Formation of Grignard Reagents. Angewandte Chemie - International Edition, 2011, 50, 7636-7640.	7.2	95
102	CuInS_2 -Poly(3-(ethyl-4-butanoate)thiophene) nanocomposite solar cells: Preparation by an in situ formation route, performance and stability issues. Solar Energy Materials and Solar Cells, 2011, 95, 1354-1361.	3.0	45
103	Metal sulfide-polymer nanocomposite thin films prepared by a direct formation route for photovoltaic applications. Thin Solid Films, 2011, 519, 4201-4206.	0.8	24
104	Optimization of postgrowth electron-beam curing for focused electron-beam-induced Pt deposits. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2011, 29, .	0.6	54
105	Manufacturing of Precision Forgings by Radial Forging. , 2011, , .		0
106	Self-Sensing and Actuating Probes for Tapping Mode AFM Measurements of Soft Polymers at a Wide Range of Temperatures. Journal of Modern Physics, 2011, 02, 72-78.	0.3	6
107	Comparison of EFTEM and STEM EELS plasmon imaging of gold nanoparticles in a monochromated TEM. Ultramicroscopy, 2010, 110, 1087-1093.	0.8	53
108	Solar Cells based on $\text{Cu}_2\text{ZnSnS}_4$ Thin Films Prepared from Metal Salts and Thioacetamide. Materials Research Society Symposia Proceedings, 2010, 1247, 1.	0.1	0

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109	Polymer - CuInS ₂ /ZnSnS ₄ hybrid solar cells obtained by an in-situ formation route. , 2010, , .		2
110	Investigation of Cu ₂ ZnSnS ₄ Formation from Metal Salts and Thioacetamide. Chemistry of Materials, 2010, 22, 3399-3406.	3.2	109
111	Different staining substances were used in decorative and therapeutic tattoos in a 1000-year-old Peruvian mummy. Journal of Archaeological Science, 2010, 37, 3256-3262.	1.2	20
112	Structure of the Malpighian tubule cells and annual changes in the structure and chemical composition of their spherites in the cave cricket <i>Troglophilus neglectus</i> Krauss, 1878 (Rhaphidophoridae, Saltatoria). Arthropod Structure and Development, 2009, 38, 315-327.	0.8	23
113	Monochromated, spatially resolved electron energy-loss spectroscopic measurements of gold nanoparticles in the plasmon range. Micron, 2009, 40, 269-273.	1.1	27
114	High-resolution surface plasmon imaging of gold nanoparticles by energy-filtered transmission electron microscopy. Physical Review B, 2009, 79, .	1.1	154
115	The tattoos of the Tyrolean Iceman: a light microscopical, ultrastructural and element analytical study. Journal of Archaeological Science, 2009, 36, 2335-2341.	1.2	38
116	Fourier-ratio deconvolution and its Bayesian equivalent. Micron, 2008, 39, 642-647.	1.1	19
117	An Introduction to High-resolution EELS in Transmission Electron Microscopy. Topics in Catalysis, 2008, 50, 200-207.	1.3	20
118	Application of high-resolution EFTEM SI in an AEM. Analytical and Bioanalytical Chemistry, 2008, 390, 1439-1445.	1.9	5
119	Crystal structure of La _{0.4} Sr _{0.6} CoO _{2.71} investigated by TEM and XRD. Journal of Solid State Chemistry, 2008, 181, 2976-2982.	1.4	9
120	Application of elemental microanalysis to elucidate the role of spherites in the digestive gland of the helioid snail <i>Chilostoma lefeburi</i> . Journal of Microscopy, 2008, 231, 38-46.	0.8	9
121	The influence of beam defocus on volume growth rates for electron beam induced platinum deposition. Nanotechnology, 2008, 19, 485302.	1.3	50
122	Hyperspectral Imaging in TEM: New Ways of Information Extraction and Display. Microscopy and Microanalysis, 2008, 14, 70-71.	0.2	4
123	Development of an Al _{1/4} MnBeCu alloy with improved quasicrystalline forming ability. Zeitschrift für Kristallographie, 2008, 223, 735-738.	1.1	15
124	Nano/macro-hardness and fracture resistance of Si ₃ N ₄ /SiC composites with up to 13wt.% of SiC nano-particles. Journal of the European Ceramic Society, 2007, 27, 2145-2152.	2.8	27
125	Inter-Wire Antiferromagnetic Exchange Interaction in Ni/Si-Ferromagnetic/Semiconductor Nanocomposites. AIP Conference Proceedings, 2007, , .	0.3	0
126	Electron Energy-Loss Spectroscopy with a Monochromated TEM. Microscopy and Microanalysis, 2006, 12, 1146-1147.	0.2	0

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127	The Effect of Ion / Electron Irradiation on Polymer Based Organic Optoelectronic Devices. <i>Microscopy and Microanalysis</i> , 2006, 12, 1300-1301.	0.2	0
128	Electron-irradiation damage in chromium nitrides and chromium oxynitride thin films. <i>Micron</i> , 2006, 37, 385-388.	1.1	5
129	Electrically conductive SiCâ€“(Nb,Ti)ssâ€“(Nb,Ti)C _{ss} cermet. <i>Journal of the European Ceramic Society</i> , 2006, 26, 1259-1266.	2.8	19
130	Monitoring dynamics of electrode reactions in Li-ion batteries by in situ ESEM. <i>Ionics</i> , 2006, 12, 253-255.	1.2	62
131	EELS Spectrum Imaging: The Next Steps. <i>Microscopy and Microanalysis</i> , 2005, 11, .	0.2	2
132	New Developments in Energy-filtering Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2005, 11, .	0.2	1
133	Preparation of Pd-coated polymer electrolyte membranes and their application in direct methanol fuel cells. <i>Journal of Power Sources</i> , 2005, 140, 21-27.	4.0	39
134	Advantages of a monochromator for bandgap measurements using electron energy-loss spectroscopy. <i>Micron</i> , 2005, 36, 185-189.	1.1	77
135	Energy-filtering transmission electron microscopy on the nanometer length scale. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 143, 139-147.	0.8	25
136	Morphology determination of functional poly[2-methoxy-5-(3,7-dimethyloctyloxy)-1,4-phenylenevinylene]/poly[oxa-1,4-phenylene-1,2-(1-cyanovinylene)-2-methoxy,5-(3,7-dimethoxy)-2,5-dimethyl] blends as used for all-polymer solar cells. <i>Journal of Applied Polymer Science</i> , 2005, 97, 1001-1007.	0.8	25
137	Advances in the segmentation of multi-component microanalytical images. <i>Ultramicroscopy</i> , 2005, 103, 141-152.	0.8	11
138	Elemental Mapping Using Energy Filtered Imaging. , 2005, , 159-222.		11
139	Silver Nanowires as Surface Plasmon Resonators. <i>Physical Review Letters</i> , 2005, 95, 257403.	2.9	950
140	Electron energy loss-near edge structure as a fingerprint for identifying chromium nitrides. <i>Solid State Communications</i> , 2004, 130, 209-213.	0.9	33
141	Influence of the reductive preparation conditions on the morphology and on the electrochemical performance of Sn/SnSb. <i>Solid State Ionics</i> , 2004, 168, 51-59.	1.3	69
142	Niobium nitride films formed by rapid thermal processing (RTP): a study of depth profiles and interface reactions by complementary analytical techniques. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 379, 554-67.	1.9	17
143	Cross-section analysis of organic light-emitting diodes. <i>Ultramicroscopy</i> , 2004, 101, 123-128.	0.8	15
144	Microstructural characterization of Tiâ€“TiN/CN _x gradient-multilayered coatings. <i>Surface and Coatings Technology</i> , 2004, 180-181, 526-532.	2.2	11

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145	On the occurrence of Z-phase in a creep-tested 10% Cr steel. <i>International Journal of Materials Research</i> , 2004, 95, 18-21.	0.8	14
146	Silica-Titania Mesostructured Films. <i>Journal of Sol-Gel Science and Technology</i> , 2003, 26, 615-619.	1.1	14
147	Electron energy-loss near-edge structures of 3d transition metal oxides recorded at high-energy resolution. <i>Ultramicroscopy</i> , 2003, 96, 469-480.	0.8	161
148	Energy-filtering TEM at high magnification: spatial resolution and detection limits. <i>Ultramicroscopy</i> , 2003, 96, 481-489.	0.8	38
149	Elemental occurrence maps: a starting point for quantitative EELS spectrum image processing. <i>Ultramicroscopy</i> , 2003, 96, 491-508.	0.8	20
150	A study on electrolyte interactions with graphite anodes exhibiting structures with various amounts of rhombohedral phase. <i>Journal of Power Sources</i> , 2003, 119-121, 528-537.	4.0	69
151	High resolution EELS using monochromator and high performance spectrometer: comparison of V2O5 ELNES with NEXAFS and band structure calculations. <i>Micron</i> , 2003, 34, 235-238.	1.1	41
152	EELS performance measurements on a new high energy resolution imaging filter. <i>Micron</i> , 2003, 34, 211-218.	1.1	19
153	Vanadium Nitride Films Formed by Rapid Thermal Processing (RTP): Depth Profiles and Interface Reactions Studied by Complementary Analytical Techniques. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2003, 629, 1769-1777.	0.6	14
154	Width determination of SiO ₂ -films in Si-based devices using low-loss EFTEM: image contrast as a function of sample thickness. <i>Micron</i> , 2003, 34, 1-7.	1.1	7
155	Experiences and Possibilities with a 200 kV Monochromated (S)TEM. <i>Microscopy and Microanalysis</i> , 2003, 9, 846-847.	0.2	5
156	Microstructural Aspects of the Ionic Transport Properties of Strontium-Substituted Lanthanum Cobaltites. <i>Materials Research Society Symposia Proceedings</i> , 2002, 756, 1.	0.1	0
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