JÃ¼rgen M Plitzko

List of Publications by Year
in descending order

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147	12,378	25014	30894
papers	citations	57 h-index	102 g-index

169	169	169	11776
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent Advances in Gas Injection System-Free Cryo-FIB Lift-Out Transfer for Cryo-Electron Tomography of Multicellular Organisms and Tissues. Microscopy Today, 2022, 30, 42-47.	0.2	15
2	In vivo Architecture of the Polar Organizing Protein Z (PopZ) Meshwork in the Alphaproteobacteria Magnetospirillum gryphiswaldense and Caulobacter crescentus. Journal of Molecular Biology, 2022, 434, 167423.	2.0	2
3	A transformation clustering algorithm and its application in polyribosomes structural profiling. Nucleic Acids Research, 2022, 50, 9001-9011.	6.5	7
4	Fluorescence-guided lamella fabrication with ENZEL, an integrated cryogenic CLEM solution for the cryo-electron tomography workflow. Microscopy and Microanalysis, 2021, 27, 3234-3235.	0.2	1
5	Precise 3D-correlative FIB-milling of biological samples using METEOR, an integrated cryo-CLEM imaging system. Microscopy and Microanalysis, 2021, 27, 3230-3232.	0.2	3
6	Highâ€¥ield Production, Characterization, and Functionalization of Recombinant Magnetosomes in the Synthetic Bacterium Rhodospirillum rubrum â€œmagneticumâ€. Advanced Biology, 2021, 5, e2101017.	1.4	12
7	Deposition-free Cryo-FIB Lift-out Transfer for Cryo-Electron Tomography Specimen Preparation. Microscopy and Microanalysis, 2021, 27, 3032-3034.	0.2	1
8	Molecular-scale visualization of sarcomere contraction within native cardiomyocytes. Nature Communications, 2021, 12, 4086.	5.8	33
9	ENZEL - A cryogenic, retrofittable, coincident fluorescence, electron, and ion beam solution for the cryo-electron tomography workflow.. Microscopy and Microanalysis, 2021, 27, 3228-3229.	0.2	2
10	STOPGAP_refine: Tilt series refinement for high-resolution subtomogram averaging. Microscopy and Microanalysis, 2021, 27, 3240-3240.	0.2	2
11	Structural basis for VIPP1 oligomerization and maintenance of thylakoid membrane integrity. Cell, 2021, 184, 3643-3659.e23.	13.5	76
12	Cryo-EM structure of the cetacean morbillivirus nucleoprotein-RNA complex. Journal of Structural Biology, 2021, 213, 107750.	1.3	12
13	A streamlined workflow for automated cryo focused ion beam milling. Journal of Structural Biology, 2021, 213, 107743.	1.3	60
14	In situ cryo-electron tomography reveals gradient organization of ribosome biogenesis in intact nucleoli. Nature Communications, 2021, 12, 5364.	5.8	46
15	Sample Preparation by 3D-Correlative Focused Ion Beam Milling for High-Resolution Cryo-Electron Tomography. Journal of Visualized Experiments, 2021, , .	0.2	9
16	Integrated Cryo-Correlative Microscopy for Targeted Structural Investigation In Situ. Microscopy Today, 2021, 29, 20-25.	0.2	27
17	A modular platform for automated cryo-FIB workflows. ELife, 2021, 10, .	2.8	65
18	Determinants shaping the nanoscale architecture of the mouse rod outer segment. ELife, 2021, 10, .	2.8	25

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19	Low-dose (S)TEM elemental analysis of water and oxygen uptake in beam sensitive materials. Ultramicroscopy, 2020, 208, 112855.	0.8	9
20	Direct visualization of degradation microcompartments at the ER membrane. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1069-1080.	3.3	68
21	Expamers: a new technology to control T cell activation. Scientific Reports, 2020, 10, 17832.	1.6	17
22	Preparing samples from whole cells using focused-ion-beam milling for cryo-electron tomography. Nature Protocols, 2020, 15, 2041-2070.	5.5	114
23	Tripartite phase separation of two signal effectors with vesicles priming B cell responsiveness. Nature Communications, 2020, 11, 848.	5.8	27
24	A bacterial cytolinker couples positioning of magnetic organelles to cell shape control. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32086-32097.	3.3	16
25	Charting the native architecture of Chlamydomonas thylakoid membranes with single-molecule precision. ELife, 2020, 9, .	2.8	80
26	Cryo-EM structure of the native rhodopsin dimer in nanodiscs. Journal of Biological Chemistry, 2019, 294, 14215-14230.	1.6	64
27	A gradientâ€forming MipZ protein mediating the control of cell division in the magnetotactic bacterium MagnetospirillumÂgryphiswaldense. Molecular Microbiology, 2019, 112, 1423-1439.	1.2	12
28	MamY is a membrane-bound protein that aligns magnetosomes and the motility axis of helical magnetotactic bacteria. Nature Microbiology, 2019, 4, 1978-1989.	5.9	58
29	A cryo-FIB lift-out technique enables molecular-resolution cryo-ET within native Caenorhabditis elegans tissue. Nature Methods, 2019, 16, 757-762.	9.0	165
30	Liquid-crystalline phase transitions in lipid droplets are related to cellular states and specific organelle association. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16866-16871.	3.3	64
31	The Polar Organizing Protein PopZ Is Fundamental for Proper Cell Division and Segregation of Cellular Content in Magnetospirillum gryphiswaldense. MBio, 2019, 10, .	1.8	16
32	Biogenic regions of cyanobacterial thylakoids form contact sites with the plasma membrane. Nature Plants, 2019, 5, 436-446.	4.7	114
33	Molecular architecture of the SYCP3 fibre and its interaction with DNA. Open Biology, 2019, 9, 190094.	1.5	12
34	In situ Microfluidic Cryofixation for Cryo Focused Ion Beam Milling and Cryo Electron Tomography. Scientific Reports, 2019, 9, 19133.	1.6	18
35	Cryo-Electron Tomography. Springer Handbooks, 2019, , 189-228.	0.3	7
36	Expanded Coverage of the 26S Proteasome Conformational Landscape Reveals Mechanisms of Peptidase Gating. FASEB Journal, 2019, 33, .	0.2	0

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37	Recent advances in cryo-electron tomography for in situ structural biology. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e81-e81.	0.0	0
38	Structural studies of Acidianus tailed spindle virus reveal a structural paradigm used in the assembly of spindle-shaped viruses. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2120-2125.	3.3	29
39	In Vivo Coating of Bacterial Magnetic Nanoparticles by Magnetosome Expression of Spider Silk-Inspired Peptides. Biomacromolecules, 2018, 19, 962-972.	2.6	26
40	The dual role of MamB in magnetosome membrane assembly and magnetite biomineralization. Molecular Microbiology, 2018, 107, 542-557.	1.2	35
41	Cryo-FIB Lamella Milling: A Comprehensive Technique to Prepare Samples of Both Plunge- and High-pressure Frozen-hydrated Specimens for in situ Studies.. Microscopy and Microanalysis, 2018, 24, 820-821.	0.2	5
42	Cryo-EM structure of the active, Gs-protein complexed, human CGRP receptor. Nature, 2018, 561, 492-497.	13.7	210
43	Structure of a hibernating 100S ribosome reveals an inactive conformation of the ribosomal protein S1. Nature Microbiology, 2018, 3, 1115-1121.	5.9	92
44	Bacterial encapsulins as orthogonal compartments for mammalian cell engineering. Nature Communications, 2018, 9, 1990.	5.8	88
45	Addressing cellular compartmentalization by in situ cryo-electron tomography. Current Opinion in Colloid and Interface Science, 2018, 34, 89-99.	3.4	9
46	Expanded Coverage of the 26S Proteasome Conformational Landscape Reveals Mechanisms of Peptidase Gating. Cell Reports, 2018, 24, 1301-1315.e5.	2.9	108
47	Connectivity of centermost chromatophores in Rhodobacter sphaeroides bacteria. Molecular Microbiology, 2018, 109, 812-825.	1.2	24
48	In situ architecture of the algal nuclear pore complex. Nature Communications, 2018, 9, 2361.	5.8	107
49	Structure of the adenosine-bound human adenosine A1 receptorâ€“Gi complex. Nature, 2018, 558, 559-563.	13.7	274
50	Structural insights into the functional cycle of the ATPase module of the 26S proteasome. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1305-1310.	3.3	151
51	Architecture of the RNA polymerase II-Paf1C-TFIIS transcription elongation complex. Nature Communications, 2017, 8, 15741.	5.8	80
52	Dissecting the molecular organization of the translocon-associated protein complex. Nature Communications, 2017, 8, 14516.	5.8	131
53	Structures of the cyanobacterial circadian oscillator frozen in a fully assembled state. Science, 2017, 355, 1181-1184.	6.0	106
54	The Eukaryotic CO2-Concentrating Organelle Is Liquid-like and Exhibits Dynamic Reorganization. Cell, 2017, 171, 148-162.e19.	13.5	298

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55	Cryo-FIB Lift-out Sample Preparation Using a Novel Cryo-gripper Tool. Microscopy and Microanalysis, 2017, 23, 844-845.	0.2	2
56	Structure of a transcribing RNA polymerase IIâ€“DSIF complex reveals a multidentate DNAâ€“RNA clamp. Nature Structural and Molecular Biology, 2017, 24, 809-815.	3.6	130
57	Structural Biology outside the box â€” inside the cell. Current Opinion in Structural Biology, 2017, 46, 110-121.	2.6	72
58	Revisiting the Structure of Hemoglobin and Myoglobin with Cryo-Electron Microscopy. Journal of Molecular Biology, 2017, 429, 2611-2618.	2.0	22
59	Charting Molecular Landscapes Using Cryo-Electron Tomography. Microscopy Today, 2017, 25, 26-31.	0.2	0
60	Proteasomes tether to two distinct sites at the nuclear pore complex. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13726-13731.	3.3	123
61	In situ structural studies of tripeptidyl peptidase II (TPPII) reveal spatial association with proteasomes. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4412-4417.	3.3	27
62	Optimized cryo-focused ion beam sample preparation aimed at in situ structural studies of membrane proteins. Journal of Structural Biology, 2017, 197, 73-82.	1.3	216
63	Site Specific Cryo-FIB Preparations Aimed at in situ Cryo-Electron Tomography. Microscopy and Microanalysis, 2017, 23, 250-251.	0.2	0
64	3.9â€…Ã… phase plate cryo-EM reconstruction of the nucleosome core particle. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C1293-C1293.	0.0	0
65	The structure of the COPI coat determined within the cell. ELife, 2017, 6, .	2.8	152
66	Cryo-FIB Sample Preparation for Cryo-ET With the Volta Phase Plate. Microscopy and Microanalysis, 2016, 22, 72-73.	0.2	0
67	Genetic and Ultrastructural Analysis Reveals the Key Players and Initial Steps of Bacterial Magnetosome Membrane Biogenesis. PLoS Genetics, 2016, 12, e1006101.	1.5	51
68	High-resolution Imaging of Reconstituted Protein-DNA Complexes Using Phase Plate Electron Cryo Microscopy. Microscopy and Microanalysis, 2016, 22, 68-69.	0.2	0
69	Charting Cellular Landscapes in Molecular Detail by in Situ Cryo-Electron Tomography. Biophysical Journal, 2016, 110, 2a.	0.2	0
70	Transcription initiation complex structures elucidate DNA opening. Nature, 2016, 533, 353-358.	13.7	250
71	3.9 Ã… structure of the nucleosome core particle determined by phase-plate cryo-EM. Nucleic Acids Research, 2016, 44, 8013-8019.	6.5	78
72	Segregation of prokaryotic magnetosomes organelles is driven by treadmilling of a dynamic actin-like MamK filament. BMC Biology, 2016, 14, 88.	1.7	48

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73	Volta phase plate cryo-EM of the small protein complex Prx3. Nature Communications, 2016, 7, 10534.	5.8	64
74	RNA polymerase Iâ€“Rrn3 complex at 4.8 Ã... resolution. Nature Communications, 2016, 7, 12129.	5.8	58
75	Structure of the human 26S proteasome at a resolution of 3.9 Ã.... Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7816-7821.	3.3	174
76	Structure of transcribing mammalian RNA polymerase II. Nature, 2016, 529, 551-554.	13.7	174
77	Site-Specific Cryo-focused Ion Beam Sample Preparation Guided by 3D Correlative Microscopy. Biophysical Journal, 2016, 110, 860-869.	0.2	172
78	Overproduction of Magnetosomes by Genomic Amplification of Biosynthesis-Related Gene Clusters in a Magnetotactic Bacterium. Applied and Environmental Microbiology, 2016, 82, 3032-3041.	1.4	53
79	Visualizing the molecular sociology at the HeLa cell nuclear periphery. Science, 2016, 351, 969-972.	6.0	493
80	In Situ Tomography of Membrane Proteins Enabled by Advanced Cryo-FIB Sample Preparation and Phase Plate Imaging. Microscopy and Microanalysis, 2015, 21, 1119-1120.	0.2	2
81	Native architecture of the Chlamydomonas chloroplast revealed by in situ cryo-electron tomography. ELife, 2015, 4, .	2.8	224
82	Structural Basis of Vesicle Formation at the Inner Nuclear Membrane. Cell, 2015, 163, 1692-1701.	13.5	180
83	Cryo-focused-ion-beam applications in structural biology. Archives of Biochemistry and Biophysics, 2015, 581, 122-130.	1.4	102
84	In situ structural analysis of Golgi intracisternal protein arrays. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11264-11269.	3.3	94
85	A focused ion beam milling and lift-out approach for site-specific preparation of frozen-hydrated lamellas from multicellular organisms. Journal of Structural Biology, 2015, 192, 262-269.	1.3	125
86	Cryo-focused Ion Beam Sample Preparation for Imaging Vitreous Cells by Cryo-electron Tomography. Bio-protocol, 2015, 5, .	0.2	105
87	Incomplete pneumolysin oligomers form membrane pores. Open Biology, 2014, 4, 140044.	1.5	81
88	Deep classification of a large cryo-EM dataset defines the conformational landscape of the 26S proteasome. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5544-5549.	3.3	177
89	Structural Cell Biology: Preparing Specimens for Cryo-Electron Tomography Using Focused-Ion-Beam Milling. Microscopy and Microanalysis, 2014, 20, 1222-1223.	0.2	0
90	Biosynthesis of magnetic nanostructures in a foreign organism by transfer of bacterial magnetosome gene clusters. Nature Nanotechnology, 2014, 9, 193-197.	15.6	198

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91	The FtsZ-Like Protein FtsZm of Magnetospirillum gryphiswaldense Likely Interacts with Its Generic Homolog and Is Required for Biomineralization under Nitrate Deprivation. Journal of Bacteriology, 2014, 196, 650-659.	1.0	32
92	Volta potential phase plate for in-focus phase contrast transmission electron microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15635-15640.	3.3	448
93	A Tailored galK Counterselection System for Efficient Markerless Gene Deletion and Chromosomal Tagging in Magnetospirillum gryphiswaldense. Applied and Environmental Microbiology, 2014, 80, 4323-4330.	1.4	38
94	Opening Windows into the Cell: Focused-Ion-Beam Milling for Cryo-Electron Tomography. Biophysical Journal, 2014, 106, 600a.	0.2	3
95	Automated Cryo-tomography and Single Particle Analysis with a New Type of Phase Plate. Microscopy and Microanalysis, 2014, 20, 206-207.	0.2	5
96	Phase Contrast Cryo-Electron Tomography and Single Particle Analysis with a New Phase Plate. Microscopy and Microanalysis, 2014, 20, 232-233.	0.2	1
97	The magnetosome proteins <scp>MamX</scp>, <scp>MamZ</scp> and <scp>MamH</scp> are involved in redox control of magnetite biomineralization in <scp>M</scp>agnetospirillum gryphiswaldense. Molecular Microbiology, 2013, 89, 872-886.	1.2	79
98	Opening Windows into the Cell: Focused Ion Beam Micromachining of Eukaryotic Cells for Cryo-Electron Tomography. Biophysical Journal, 2013, 104, 353a-354a.	0.2	1
99	Analysis of Magnetosome Chains in Magnetotactic Bacteria by Magnetic Measurements and Automated Image Analysis of Electron Micrographs. Applied and Environmental Microbiology, 2013, 79, 7755-7762.	1.4	34
100	Opening windows into the cell: focused-ion-beam milling for cryo-electron tomography. Current Opinion in Structural Biology, 2013, 23, 771-777.	2.6	179
101	Three-dimensional architecture of actin filaments in Listeria monocytogenes comet tails. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20521-20526.	3.3	81
102	Focused ion beam micromachining of eukaryotic cells for cryoelectron tomography. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4449-4454.	3.3	356
103	Near-atomic resolution structural model of the yeast 26S proteasome. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14870-14875.	3.3	242
104	Unraveling the structure of membrane proteins in situ by transfer function corrected cryo-electron tomography. Journal of Structural Biology, 2012, 180, 488-496.	1.3	53
105	Electron Microscopy of Biological Materials at the Nanometer Scale. Annual Review of Materials Research, 2012, 42, 33-58.	4.3	108
106	Integrative Approaches for Cellular Cryo-electron Tomography. Methods in Cell Biology, 2012, 111, 259-281.	0.5	59
107	Structures of Lysenin Reveal a Shared Evolutionary Origin for Pore-Forming Proteins And Its Mode of Sphingomyelin Recognition. Structure, 2012, 20, 1498-1507.	1.6	90
108	Automated screening of 2D crystallization trials using transmission electron microscopy: A high-throughput tool-chain for sample preparation and microscopic analysis. Journal of Structural Biology, 2011, 173, 365-374.	1.3	38

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109	Computer controlled cryo-electron microscopy â€“ TOM2 a software package for high-throughput applications. Journal of Structural Biology, 2011, 175, 394-405.	1.3	49
110	The cation diffusion facilitator proteins MamB and MamM of Magnetospirillum gryphiswaldense have distinct and complex functions, and are involved in magnetite biomineralization and magnetosome membrane assembly. Molecular Microbiology, 2011, 82, 818-835.	1.2	125
111	Magnetosome chains are recruited to cellular division sites and split by asymmetric septation. Molecular Microbiology, 2011, 82, 1316-1329.	1.2	80
112	Loss of the actinâ€like protein MamK has pleiotropic effects on magnetosome formation and chain assembly in Magnetospirillum gryphiswaldense. Molecular Microbiology, 2010, 77, 208-224.	1.2	143
113	Graphene oxide: A substrate for optimizing preparations of frozen-hydrated samples. Journal of Structural Biology, 2010, 170, 152-156.	1.3	155
114	Micromachining tools and correlative approaches for cellular cryo-electron tomography. Journal of Structural Biology, 2010, 172, 169-179.	1.3	230
115	Focal issue on hybrid imaging. Journal of Structural Biology, 2010, 172, 159.	1.3	3
116	Correlated Light and Electron Cryo-Microscopy. Methods in Enzymology, 2010, 481, 317-341.	0.4	72
117	Insights into the molecular architecture of the 26S proteasome. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11943-11947.	3.3	116
118	Aberrationâ€corrected microscopy for structural biology applications. Journal of Microscopy, 2009, 233, 170-177.	0.8	3
119	Correlative cryo-light microscopy and cryo-electron tomography: from cellular territories to molecular landscapes. Current Opinion in Biotechnology, 2009, 20, 83-89.	3.3	100
120	Electron tomography of structures in the wall of hazel pollen grains. Journal of Structural Biology, 2009, 166, 263-271.	1.3	15
121	Accessing Subcellular Structural Information with Advanced Targeting and Sectioning Techniques. Microscopy and Microanalysis, 2009, 15, 570-571.	0.2	0
122	Disclosure of the mycobacterial outer membrane: Cryo-electron tomography and vitreous sections reveal the lipid bilayer structure. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3963-3967.	3.3	511
123	Correlative microscopy: Bridging the gap between fluorescence light microscopy and cryo-electron tomography. Journal of Structural Biology, 2007, 160, 135-145.	1.3	356
124	Automated cryoelectron microscopy of â€œsingle particlesâ€•applied to the 26S proteasome. FEBS Letters, 2007, 581, 2751-2756.	1.3	33
125	Cryoelectron Tomography (CET). , 2007, , 535-604.		10
126	Structural Basis for Subunit Assembly in UDP-glucose Pyrophosphorylase from Saccharomyces cerevisiae. Journal of Molecular Biology, 2006, 364, 551-560.	2.0	49

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127	An acidic protein aligns magnetosomes along a filamentous structure in magnetotactic bacteria. Nature, 2006, 440, 110-114.	13.7	486
128	Correlation Microscopy: Bridging the Gap between Light- and Cryo-Electron Microscopy. Microscopy and Microanalysis, 2005, 11, .	0.2	9
129	TOM software toolbox: acquisition and analysis for electron tomography. Journal of Structural Biology, 2005, 149, 227-234.	1.3	424
130	Copper Segregation to the Â5 (310)/[001] Symmetric Tilt Grain Boundary in Aluminum. Journal of Materials Science, 2004, 12, 165-174.	1.2	19
131	Microstructural dependence of giant-magnetoresistance in electrodeposited Cu-Co alloys. Journal of Materials Science, 2004, 39, 5701-5709.	1.7	10
132	Contrast and scattering efficiency of scattering-type near-field optical probes. Applied Physics Letters, 2004, 85, 4466.	1.5	18
133	Nuclear Pore Complex Structure and Dynamics Revealed by Cryoelectron Tomography. Science, 2004, 306, 1387-1390.	6.0	451
134	Exploring the Inner Space of Cells by Cryoelectron-Tomography. Microscopy and Microanalysis, 2004, 10, 152-153.	0.2	1
135	Grain Boundary Structure and Its Effect on Plasticity. Microscopy and Microanalysis, 2004, 10, 12-13.	0.2	0
136	Evidence for cubic phase in deposited germanium nanocrystals. Journal of Physics Condensed Matter, 2003, 15, 1017-1028.	0.7	22
137	Investigating the reaction path and growth kinetics in CuOx/Al multilayer foils. Journal of Applied Physics, 2003, 94, 2923-2929.	1.1	104
138	The State of the Art in Cryo-Electron Tomography. Microscopy and Microanalysis, 2003, 9, 174-175.	0.2	0
139	Initiation identification in fused-silica 35-nm optics. , 2002, 4679, 17.		1
140	In vivo veritas: electron cryotomography of cells. Trends in Biotechnology, 2002, 20, S40-S44.	4.9	35
141	Diffusion of oxygen in CdSe-photosensor arrays. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2002, 94, 123-130.	1.7	2
142	Experimental Assessment of Strain Gradient Plasticity. Materials Research Society Symposia Proceedings, 2000, 653, .	0.1	1
143	Experimental Assessment of Strain Gradient Plasticity. Materials Research Society Symposia Proceedings, 2000, 653, 1.	0.1	0
144	Quantitative thin film analysis by energy filtering transmission electron microscopy. Ultramicroscopy, 1999, 78, 207-219.	0.8	43

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145	Quantitative electron spectroscopic imaging studies of microelectronic metallization layers. Journal of Microscopy, 1999, 194, 71-78.	0.8	29
146	Investigation of Copper Segregation to the Î£5(310)/[001] Symmetric Tilt Grain Boundary in Aluminum. Materials Research Society Symposia Proceedings, 1999, 589, 301.	0.1	1
147	Quantitative analysis of electron spectroscopic imaging series. Micron, 1997, 28, 361-370.	1.1	55