

Kristian Mlhave

List of Publications by Citations

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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.

108
papers

3,033
citations

31
h-index

51
g-index

111
ext. papers

3,399
ext. citations

5
avg, IF

5.03
L-index

#	Paper	IF	Citations
108	Formation of translationally cold MgH ⁺ and MgD ⁺ molecules in an ion trap. <i>Physical Review A</i> , 2000 , 62,	2.6	180
107	Detection and characterization of silver nanoparticles in chicken meat by asymmetric flow field flow fractionation with detection by conventional or single particle ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 8185-95	4.4	158
106	MWCNTs of different physicochemical properties cause similar inflammatory responses, but differences in transcriptional and histological markers of fibrosis in mouse lungs. <i>Toxicology and Applied Pharmacology</i> , 2015 , 284, 16-32	4.6	134
105	Characterization of nanomaterials in food by electron microscopy. <i>TrAC - Trends in Analytical Chemistry</i> , 2011 , 30, 28-43	14.6	108
104	Soldering of Nanotubes onto Microelectrodes. <i>Nano Letters</i> , 2003 , 3, 47-49	11.5	95
103	Temperature and pressure dependence of resonance in multi-layer microcantilevers. <i>Journal of Micromechanics and Microengineering</i> , 2005 , 15, 1454-1458	2	94
102	Pick-and-place nanomanipulation using microfabricated grippers. <i>Nanotechnology</i> , 2006 , 17, 2434-41	3.4	89
101	Electro-thermally actuated microgrippers with integrated force-feedback. <i>Journal of Micromechanics and Microengineering</i> , 2005 , 15, 1265-1270	2	84
100	Fibroblasts cultured on nanowires exhibit low motility, impaired cell division, and DNA damage. <i>Small</i> , 2013 , 9, 4006-16, 3905	11	83
99	Effect of gold coating on the Q-factor of a resonant cantilever. <i>Journal of Micromechanics and Microengineering</i> , 2005 , 15, 2249-2253	2	82
98	Solid Gold Nanostructures Fabricated by Electron Beam Deposition. <i>Nano Letters</i> , 2003 , 3, 1499-1503	11.5	78
97	Transcriptomic analysis reveals novel mechanistic insight into murine biological responses to multi-walled carbon nanotubes in lungs and cultured lung epithelial cells. <i>PLoS ONE</i> , 2013 , 8, e80452	3.7	71
96	Constructing, connecting and soldering nanostructures by environmental electron beam deposition. <i>Nanotechnology</i> , 2004 , 15, 1047-1053	3.4	70
95	Carbon nanotube based separation columns for high electrical field strengths in microchip electrochromatography. <i>Lab on A Chip</i> , 2011 , 11, 2116-8	7.2	63
94	Simultaneous modulation of surface composition, oxygen vacancies and assembly in hierarchical CoO mesoporous nanostructures for lithium storage and electrocatalytic oxygen evolution. <i>Nanoscale</i> , 2017 , 9, 14431-14441	7.7	62
93	Nanoparticle Decorated Ultrathin Porous Nanosheets as Hierarchical Co ₃ O ₄ Nanostructures for Lithium Ion Battery Anode Materials. <i>Scientific Reports</i> , 2016 , 6, 20592	4.9	60
92	Electron irradiation-induced destruction of carbon nanotubes in electron microscopes. <i>Ultramicroscopy</i> , 2007 , 108, 52-7	3.1	60

91	Mapping the complex morphology of cell interactions with nanowire substrates using FIB-SEM. <i>PLoS ONE</i> , 2013 , 8, e53307	3.7	56
90	Transmission electron microscopy study of individual carbon nanotube breakdown caused by Joule heating in air. <i>Nano Letters</i> , 2006 , 6, 1663-8	11.5	56
89	In-house validation of a method for determination of silver nanoparticles in chicken meat based on asymmetric flow field-flow fractionation and inductively coupled plasma mass spectrometric detection. <i>Food Chemistry</i> , 2015 , 181, 78-84	8.5	54
88	A carbon nanofibre scanning probe assembled using an electrothermal microgripper. <i>Nanotechnology</i> , 2007 , 18, 345501	3.4	50
87	Uncertainties of size measurements in electron microscopy characterization of nanomaterials in foods. <i>Food Chemistry</i> , 2015 , 176, 472-9	8.5	44
86	Towards pick-and-place assembly of nanostructures. <i>Journal of Nanoscience and Nanotechnology</i> , 2004 , 4, 279-82	1.3	44
85	Controlling nanowire growth through electric field-induced deformation of the catalyst droplet. <i>Nature Communications</i> , 2016 , 7, 12271	17.4	41
84	Three-dimensional iron sulfide-carbon interlocked graphene composites for high-performance sodium-ion storage. <i>Nanoscale</i> , 2018 , 10, 7851-7859	7.7	39
83	Direct Measurement of Resistance of Multiwalled Carbon Nanotubes Using Micro Four-Point Probes. <i>Sensor Letters</i> , 2005 , 3, 300-303	0.9	38
82	Cell motility, morphology, viability and proliferation in response to nanotopography on silicon black. <i>Nanoscale</i> , 2012 , 4, 3739-45	7.7	36
81	. <i>IEEE Nanotechnology Magazine</i> , 2009 , 8, 76-85	2.6	36
80	Synthesis, Characterizations of Superparamagnetic Fe ₃ O ₄ -Ag Hybrid Nanoparticles and Their Application for Highly Effective Bacteria Inactivation. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 5902-12	1.3	33
79	In situ TEM creation and electrical characterization of nanowire devices. <i>Nano Letters</i> , 2012 , 12, 2965-70	11.5	32
78	Simple top-down preparation of magnetic Bi ₂ Te ₃ nanoparticles by ultrasonication of multiferroic bulk material. <i>Nanoscale</i> , 2014 , 6, 14336-42	7.7	31
77	Topology optimized electrothermal polysilicon microgrippers. <i>Microelectronic Engineering</i> , 2008 , 85, 1096-1099	2.5	31
76	Phosphate tuned copper electrodeposition and promoted formic acid selectivity for carbon dioxide reduction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 11905-11916	13	29
75	Feasibility of the development of reference materials for the detection of Ag nanoparticles in food: neat dispersions and spiked chicken meat. <i>Accreditation and Quality Assurance</i> , 2015 , 20, 3-16	0.7	29
74	Limitations in the Use of Unipolar Charging for Electrical Mobility Sizing Instruments: A Study of the Fast Mobility Particle Sizer. <i>Aerosol Science and Technology</i> , 2015 , 49, 556-565	3.4	29

73	TimeLapseAnalyzer: multi-target analysis for live-cell imaging and time-lapse microscopy. <i>Computer Methods and Programs in Biomedicine</i> , 2011 , 104, 227-34	6.9	29
72	Electrothermal microgrippers for pick-and-place operations. <i>Microelectronic Engineering</i> , 2008 , 85, 1128-1130	1.3	27
71	Dose and energy dependence of mechanical properties of focused electron-beam-induced pillar deposits from Cu(C ₅ H ₆ O ₂) ₂ . <i>Nanotechnology</i> , 2009 , 20, 385304	3.4	26
70	Epitaxial integration of nanowires in microsystems by local micrometer-scale vapor-phase epitaxy. <i>Small</i> , 2008 , 4, 1741-6	11	26
69	Tunable exchange bias effect in magnetic Bi _{0.9} Gd _{0.1} Fe _{0.9} Ti _{0.1} O ₃ nanoparticles at temperatures up to 250 K. <i>Journal of Applied Physics</i> , 2015 , 118, 023901	2.5	24
68	Enhanced high-frequency microwave absorption of Fe ₃ O ₄ architectures based on porous nanoflake. <i>Ceramics International</i> , 2017 , 43, 16013-16017	5.1	24
67	Time-dependent subcellular distribution and effects of carbon nanotubes in lungs of mice. <i>PLoS ONE</i> , 2015 , 10, e0116481	3.7	22
66	Measurement of local Si-nanowire growth kinetics using in situ transmission electron microscopy of heated cantilevers. <i>Small</i> , 2010 , 6, 2058-64	11	22
65	Differential proteome and cellular adhesion analyses of the probiotic bacterium <i>Lactobacillus acidophilus</i> NCFM grown on raffinose - an emerging prebiotic. <i>Proteomics</i> , 2016 , 16, 1361-75	4.8	22
64	Influence of relative humidity and physical load during storage on dustiness of inorganic nanomaterials: implications for testing and risk assessment. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	21
63	Monolithic chip system with a microfluidic channel for in situ electron microscopy of liquids. <i>Microscopy and Microanalysis</i> , 2014 , 20, 445-51	0.5	21
62	Multi-walled carbon nanotubes integrated in microcantilevers for application of tensile strain. <i>Ultramicroscopy</i> , 2005 , 105, 209-214	3.1	21
61	Stability of Coulomb crystals in a linear Paul trap with storage-ring-like confinement. <i>Physical Review E</i> , 2002 , 66, 015401	2.4	21
60	Unhindered Brownian Motion of Individual Nanoparticles in Liquid-Phase Scanning Transmission Electron Microscopy. <i>Nano Letters</i> , 2020 , 20, 7108-7115	11.5	21
59	FIB-SEM imaging of carbon nanotubes in mouse lung tissue. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 3863-73	4.4	20
58	Engineering the Surface/Interface Structures of Titanium Dioxide Micro and Nano Architectures towards Environmental and Electrochemical Applications. <i>Nanomaterials</i> , 2017 , 7,	5.4	19
57	Perpendicular magnetic anisotropy and the magnetization process in CoFeB/Pd multilayer films. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 445001	3	19
56	In-situ SEM microchip setup for electrochemical experiments with water based solutions. <i>Ultramicroscopy</i> , 2013 , 129, 63-9	3.1	18

55	Demonstration of the continuous quantum Zeno effect in optical pumping. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000 , 268, 45-49	2.3	18
54	Mean Inner Potential of Liquid Water. <i>Physical Review Letters</i> , 2020 , 124, 065502	7.4	17
53	Creating New VLS Silicon Nanowire Contact Geometries by Controlling Catalyst Migration. <i>Nano Letters</i> , 2015 , 15, 6535-41	11.5	16
52	Graphene Oxide/Silver Nanohybrid as Multi-functional Material for Highly Efficient Bacterial Disinfection and Detection of Organic Dye. <i>Journal of Electronic Materials</i> , 2016 , 45, 5321-5333	1.9	14
51	A uniform measurement expression for cross method comparison of nanoparticle aggregate size distributions. <i>Analyst, The</i> , 2015 , 140, 5257-67	5	13
50	Introduction to the Proceedings of CISCEM 2018 - the 4th Conference on In-Situ and Correlative Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1-2	0.5	13
49	Influence of Cetyltrimethylammonium Bromide on Gold Nanocrystal Formation Studied by In Situ Liquid Cell Scanning Transmission Electron Microscopy. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 2350-2357	3.8	12
48	Integration, gap formation, and sharpening of III-V heterostructure nanowires by selective etching. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010 , 28, 21-26	1.3	12
47	On the suitability of carbon nanotube forests as non-stick surfaces for nanomanipulation. <i>Soft Matter</i> , 2008 , 4, 392-399	3.6	12
46	Microwave assisted crystalline and morphology evolution of flower-like Fe ₂ O ₃ @ iron doped K-birnessite composite and its application for lithium ion storage. <i>Applied Surface Science</i> , 2020 , 525, 146513	6.7	11
45	Electron inelastic mean free path in water. <i>Nanoscale</i> , 2020 , 12, 20649-20657	7.7	11
44	Customizable in situ TEM devices fabricated in freestanding membranes by focused ion beam milling. <i>Nanotechnology</i> , 2010 , 21, 405304	3.4	11
43	Non-stationary Coulomb crystals in linear Paul traps. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003 , 36, 525-532	1.3	11
42	Not all that glitters is gold-Electron microscopy study on uptake of gold nanoparticles in <i>Daphnia magna</i> and related artifacts. <i>Environmental Toxicology and Chemistry</i> , 2017 , 36, 1503-1509	3.8	10
41	3D mechanical measurements with an atomic force microscope on 1D structures. <i>Review of Scientific Instruments</i> , 2012 , 83, 023704	1.7	10
40	Recent Progress of Two-Dimensional Metal-Organic Frameworks and Their Derivatives for Oxygen Evolution Electrocatalysis. <i>ChemElectroChem</i> , 2020 , 7, 4695-4712	4.3	10
39	Improving the foundation for particulate matter risk assessment by individual nanoparticle statistics from electron microscopy analysis. <i>Scientific Reports</i> , 2019 , 9, 8093	4.9	9
38	Complex Aerosol Characterization by Scanning Electron Microscopy Coupled with Energy Dispersive X-ray Spectroscopy. <i>Scientific Reports</i> , 2020 , 10, 9150	4.9	9

37	Confined Growth of ZIF-8 Nanocrystals with Tunable Structural Colors. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701270	4.6	9
36	Advanced Materials for Energy-Water Systems: The Central Role of Water/Solid Interfaces in Adsorption, Reactivity, and Transport. <i>Chemical Reviews</i> , 2021 , 121, 9450-9501	68.1	9
35	Highly Ordered 3D Silicon Micro-Mesh Structures Integrated with Nanowire Arrays: A Multifunctional Platform for Photodegradation, Photocurrent Generation, and Materials Conversion. <i>ChemNanoMat</i> , 2019 , 5, 92-100	3.5	9
34	Encapsulated Liquid Cells for Transmission Electron Microscopy	35-55	8
33	Microwave synthesis of metal nanocatalysts for the electrochemical oxidation of small biomolecules. <i>Current Opinion in Electrochemistry</i> , 2017 , 4, 124-132	7.2	8
32	Versatile method for manipulating and contacting nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 1995-9	1.3	8
31	Ion Coulomb crystals and some applications. <i>AIP Conference Proceedings</i> , 2002 ,	0	8
30	Can We Trust Real Time Measurements of Lung Deposited Surface Area Concentrations in Dust from Powder Nanomaterials?. <i>Aerosol and Air Quality Research</i> , 2016 , 16, 1105-1117	4.6	8
29	Graphene Oxide-Directed Tunable Assembly of MoS ₂ Ultrathin Nanosheets for Electrocatalytic Hydrogen Evolution. <i>ChemistrySelect</i> , 2017 , 2, 4696-4704	1.8	5
28	Methods for Calibration of Specimen Temperature During Transmission Electron Microscopy Experiments. <i>Microscopy and Microanalysis</i> , 2020 , 26, 3-17	0.5	5
27	In Situ TEM Electrical Measurements	2016, 281-300	5
26	Design and construction of a linear Paul trap for the study of crystalline beams. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005 , 540, 209-214	1.2	5
25	A simple electron-beam lithography system. <i>Ultramicroscopy</i> , 2005 , 102, 215-9	3.1	5
24	Analysis of Electron Transparent Beam-Sensitive Samples Using Scanning Electron Microscopy Coupled With Energy-Dispersive X-ray Spectroscopy. <i>Microscopy and Microanalysis</i> , 2020 , 26, 373-386	0.5	4
23	Black silicon maskless templates for carbon nanotube forests. <i>Microelectronic Engineering</i> , 2013 , 104, 110-113	2.5	4
22	Selective etching of III-V nanowires for molecular junctions. <i>Microelectronic Engineering</i> , 2008 , 85, 1179-1181	1.5	4
21	Three-dimensional hollow nitrogen-doped carbon shells enclosed monodisperse CoP nanoparticles for long cycle-life sodium storage. <i>Electrochimica Acta</i> , 2021 , 395, 139112	6.7	4
20	Assessment of automated analyses of cell migration on flat and nanostructured surfaces. <i>Computational and Structural Biotechnology Journal</i> , 2012 , 1, e201207004	6.8	3

19			3
18	Effect of Synthesis Parameters on the Structure and Magnetic Properties of Magnetic Manganese Ferrite/Silver Composite Nanoparticles Synthesized by Wet Chemistry Method. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 7919-7928	1.3	3
17	Development of a sample preparation approach to measure the size of nanoparticle aggregates by electron microscopy. <i>Particuology</i> , 2019 , 45, 49-57	2.8	3
16	Competition between the thermal gradient and the bimorph effect in locally heated MEMS actuators. <i>Journal of Micromechanics and Microengineering</i> , 2009 , 19, 015008	2	2
15	Droplet Based Cavities and Lasers. <i>Integrated Analytical Systems</i> , 2009 , 471-486	0.4	2
14	IN-SITU TRANSMISSION ELECTRON MICROSCOPY ON OPERATING ELECTROCHEMICAL CELLS 2016 , 137-138		1
13	Semiconducting III-V nanowires with nanogaps for molecular junctions: DFT transport simulations. <i>Nanotechnology</i> , 2009 , 20, 465401	3.4	1
12	Micro-cantilevers for non-destructive characterization of nanoglass uniformity 2011 ,		1
11	MICROFABRICATED TOOLS FOR PICK-AND-PLACE OF NANOSCALE COMPONENTS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 120-126		1
10	Soldering of Carbon Nanotube Bridges using Electron Beam Deposited Gold. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 772, 481		1
9	Dynamically excited single-component ion Coulomb crystals in linear Paul traps. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004 , 532, 237-240	1.2	1
8	Initiation and Progression of Anisotropic Galvanic Replacement Reactions in a Single Ag Nanowire: Implications for Nanostructure Synthesis. <i>ACS Applied Nano Materials</i> , 2021 , 4, 12346-12355	5.6	1
7	Developing New Measurement Capabilities with Nanochannel Liquid Phase TEM. <i>Microscopy and Microanalysis</i> , 2018 , 24, 256-257	0.5	1
6	Electron Holography in Gaseous and Liquid Environment. <i>Microscopy and Microanalysis</i> , 2020 , 26, 2488-2489		0
5	In situ TEM modification of individual silicon nanowires and their charge transport mechanisms. <i>Nanotechnology</i> , 2020 , 31, 494002	3.4	0
4	Spatial Image Resolution Assessment by Fourier Analysis (SIRAF).. <i>Microscopy and Microanalysis</i> , 2022 , 1-9	0.5	0
3	Correction to "Multimodal Electrothermal Silicon Microgrippers for Nanotube Manipulation". <i>IEEE Nanotechnology Magazine</i> , 2009 , 8, 659-659	2.6	
2	Mixing and Flow Control of Liquids in Nanochannel Liquid Phase Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2021 , 27, 99-100	0.5	

- 1 Studying the Formation Dynamics of VLS Silicon Nanowire Devices using in situ TEM **2016**, 159-160