

Rynno Lohmus

List of Publications by Year in descending order

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66
papers

1,035
citations

394286

19
h-index

477173

29
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67
all docs

67
docs citations

67
times ranked

1402
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous determination of fluoroquinolones, sulfonamides and tetracyclines in sewage sludge by pressurized liquid extraction and liquid chromatography electrospray ionization-mass spectrometry. <i>Journal of Chromatography A</i> , 2009, 1216, 5949-5954.	1.8	113
2	Force interactions and adhesion of gold contacts using a combined atomic force microscope and transmission electron microscope. <i>Applied Surface Science</i> , 2002, 188, 460-466.	3.1	83
3	Elasticity and yield strength of pentagonal silver nanowires: In situ bending tests. <i>Materials Chemistry and Physics</i> , 2014, 143, 1026-1031.	2.0	50
4	Instrumentation of STM and AFM combined with transmission electron microscope. <i>Applied Physics A: Materials Science and Processing</i> , 2001, 72, S71-S74.	1.1	43
5	Paper spray ionization mass spectrometry: Study of a method for fast-screening analysis of pesticides in fruits and vegetables. <i>Journal of Food Composition and Analysis</i> , 2015, 41, 221-225.	1.9	43
6	Real-time manipulation of ZnO nanowires on a flat surface employed for tribological measurements: Experimental methods and modeling. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 305-317.	0.7	26
7	Shape Restoration Effect in Ag@SiO ₂ Core-Shell Nanowires. <i>Nano Letters</i> , 2014, 14, 5201-5205.	4.5	26
8	Mechanical and structural characterizations of gamma- and alpha-alumina nanofibers. <i>Materials Characterization</i> , 2015, 107, 119-124.	1.9	25
9	Mechanical characterization of TiO ₂ nanofibers produced by different electrospinning techniques. <i>Materials Characterization</i> , 2015, 100, 98-103.	1.9	25
10	Crystal mismatched layers in pentagonal nanorods and nanoparticles. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 288-298.	0.7	24
11	Magnetic and structural studies of LaMnO ₃ thin films prepared by atomic layer deposition. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 175003.	1.3	24
12	Manipulation of nanoparticles of different shapes inside a scanning electron microscope. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 133-140.	1.5	24
13	Combined sol-gel and carbothermal synthesis of Zr@TiC powders for composites. <i>Materials Chemistry and Physics</i> , 2015, 153, 301-306.	2.0	24
14	The effect of substrate roughness on the static friction of CuO nanowires. <i>Surface Science</i> , 2012, 606, 1393-1399.	0.8	23
15	Real-time measurements of sliding friction and elastic properties of ZnO nanowires inside a scanning electron microscope. <i>Solid State Communications</i> , 2011, 151, 1244-1247.	0.9	22
16	Modeling of kinetic and static friction between an elastically bent nanowire and a flat surface. <i>Journal of Materials Research</i> , 2012, 27, 580-585.	1.2	22
17	In situ measurement of the kinetic friction of ZnO nanowires inside a scanning electron microscope. <i>Applied Surface Science</i> , 2012, 258, 3227-3231.	3.1	21
18	Preparation of smooth siloxane surfaces for AFM visualization of immobilized biomolecules. <i>Surface Science</i> , 2003, 532-535, 1085-1091.	0.8	20

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19	Increased conductivity of polymerized ionic liquids through the use of a nonpolymerizable ionic liquid additive. <i>Journal of Materials Research</i> , 2013, 28, 3086-3093.	1.2	20
20	Growth of poly(3,4-ethylenedioxythiophene) films prepared by base-inhibited vapor phase polymerization. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 561-571.	2.4	20
21	Sponge Spray- Reaching New Dimensions of Direct Sampling and Analysis by MS. <i>Analytical Chemistry</i> , 2017, 89, 11592-11597.	3.2	20
22	In situ measurements of ultimate bending strength of CuO and ZnO nanowires. <i>European Physical Journal B</i> , 2012, 85, 1.	0.6	19
23	Complex tribomechanical characterization of ZnO nanowires: nanomanipulations supported by FEM simulations. <i>Nanotechnology</i> , 2016, 27, 335701.	1.3	19
24	Determination of neonicotinoids in Estonian honey by liquid chromatography-electrospray mass spectrometry. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2016, 51, 455-464.	0.7	18
25	Real-time manipulation of gold nanoparticles inside a scanning electron microscope. <i>Solid State Communications</i> , 2011, 151, 688-692.	0.9	17
26	Ab-initio calculation of Raman spectra of single-walled BN nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 2339-2342.	1.3	15
27	New Method for Synthesis of Methacrylate-Type Polymerizable Ionic Liquids. <i>Synthetic Communications</i> , 2013, 43, 2846-2852.	1.1	15
28	Analysis of static friction and elastic forces in a nanowire bent on a flat surface: A comparative study. <i>Tribology International</i> , 2014, 72, 31-34.	3.0	15
29	Enhanced flexibility and electron-beam-controlled shape recovery in alumina-coated Au and Ag core-shell nanowires. <i>Nanotechnology</i> , 2017, 28, 505707.	1.3	15
30	Tuning adhesion forces between functionalized gold colloidal nanoparticles and silicon AFM tips: role of ligands and capillary forces. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 660-670.	1.5	14
31	TiO ₂ nanowire dispersions in viscous polymer matrix: electrophoretic alignment and optical properties. <i>Nanotechnology</i> , 2014, 25, 415703.	1.3	13
32	Switchable optical transmittance of TiO ₂ submicron-diameter wire suspension-based "smart window" device. <i>Optical Materials</i> , 2015, 46, 418-422.	1.7	12
33	Transparent and conductive Sb-doped tin oxide SPM tips prepared by sol-gel method. <i>Materials Science and Engineering C</i> , 2002, 19, 101-104.	3.8	11
34	Simultaneous measurement of static and kinetic friction of ZnO nanowires in situ with a scanning electron microscope. <i>Micron</i> , 2012, 43, 1140-1146.	1.1	11
35	Some aspects of formation and tribological properties of silver nanodumbbells. <i>Nanoscale Research Letters</i> , 2014, 9, 186.	3.1	11
36	Electron beam induced growth of silver nanowiskers. <i>Journal of Crystal Growth</i> , 2015, 410, 63-68.	0.7	11

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37	Enhanced Nebulization Efficiency of Electrospray Mass Spectrometry: Improved Sensitivity and Detection Limit. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 2051-2054.	1.2	10
38	Pentagonal Nanorods and Nanoparticles with Mismatched Shell Layers. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 6136-6143.	0.9	9
39	Mechanical properties of sol-gel derived SiO ₂ nanotubes. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1808-1814.	1.5	9
40	Phase and structural transformations in annealed copper coatings in relation to oxide whisker growth. <i>Applied Surface Science</i> , 2015, 346, 423-427.	3.1	9
41	Optical properties of high-performance liquid crystal-xerogel microcomposite electro-optical film. <i>Journal of Materials Research</i> , 2012, 27, 1257-1264.	1.2	8
42	Effect of cobalt doping on the mechanical properties of ZnO nanowires. <i>Materials Characterization</i> , 2016, 121, 40-47.	1.9	8
43	Sol-gel matrix dispersed liquid crystal composite: Influence of methyltriethoxysilane precursor and solvent concentration. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 172, 1-5.	1.7	7
44	Tribological properties of protic ionic liquid and functionalized copper oxide nanoparticles as additives to base oil. <i>Mechanika</i> , 2015, 21, .	0.3	7
45	Controlling shape and spatial organization of silver crystals by site-selective chemical growth method for improving surface enhanced Raman scattering activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 484, 508-517.	2.3	6
46	Extremely high-frequency piezoelectroacoustic transducer based on BN-tube/SiC-whiskers rope. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 37, 283-286.	1.3	5
47	Integrated carbon nanotube fibre-quartz tuning fork biosensor. <i>Proceedings of the Estonian Academy of Sciences</i> , 2012, 61, 48.	0.9	4
48	Counterintuitive increase in optical scattering efficiency during nongentropic orientational transition in dilute ZnO nanowire suspensions. <i>RSC Advances</i> , 2015, 5, 104149-104154.	1.7	4
49	Metal nanodumbbells for nanomanipulations and tribological experiments. <i>Physica Scripta</i> , 2015, 90, 094007.	1.2	4
50	Structural factor in bending testing of fivefold twinned nanowires revealed by finite element analysis. <i>Physica Scripta</i> , 2016, 91, 115701.	1.2	4
51	Crack Formation During Post-Treatment of Nano- and Microfibres Prepared by Sol-Gel Technique. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 6009-6016.	0.9	3
52	Formation and characterization of microcantilevers produced from ionic liquid by electron beam irradiation. <i>Journal of Molecular Liquids</i> , 2017, 229, 45-50.	2.3	3
53	The Effect of Prestressing and Temperature on Tensile Strength of Basalt Fiber-Reinforced Plywood. <i>Materials</i> , 2021, 14, 4701.	1.3	3
54	An immersion cryostat for mounting a high-pressure optical cell surrounded by nonboiling liquid nitrogen. <i>European Physical Journal D</i> , 1996, 46, 2775-2776.	0.4	2

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55	Piezoresonance driver for positioning scanning probe microscopes in a wide temperature range. <i>Ferroelectrics</i> , 2001, 258, 47-52.	0.3	2
56	Formation of thick dielectrophoretic carbon nanotube fibers. <i>Nanotechnology</i> , 2011, 22, 305711.	1.3	2
57	IPhO 2012: how magnets curve the water. <i>European Journal of Physics</i> , 2013, 34, S35-S48.	0.3	2
58	Electro-optics of electrospun TiO ₂ anatase submicron wire based dipole particle suspension device. <i>Optical Materials</i> , 2014, 37, 740-744.	1.7	2
59	Gilded nanoparticles for plasmonically enhanced fluorescence in TiO ₂ :Sm ³⁺ sol-gel films. <i>Nanoscale Research Letters</i> , 2014, 9, 143.	3.1	2
60	Non-magnetic heating for temperature control in scanning SQUID microscope. <i>Physica B: Condensed Matter</i> , 2000, 284-288, 2113-2114.	1.3	1
61	Phase transformations in icosahedral small copper particles during their annealing in different gas media. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2015, 79, 1098-1100.	0.1	1
62	Low-friction nanojoint prototype. <i>Nanotechnology</i> , 2018, 29, 195707.	1.3	1
63	Application of Tuning Fork Sensors for In-situ Studies of Dynamic Force Interactions Inside Scanning and Transmission Electron Microscopes. <i>Medziagotyra</i> , 2012, 18, .	0.1	1
64	Quiet cryoliquids achieved by diffusion through porous material. <i>European Physical Journal D</i> , 1996, 46, 2777-2778.	0.4	0
65	Devices based on semiconductor nanowires. , 2009, , .		0
66	Dynamic Force Sensor for <i>In Situ</i> Studies of Nanometer Size Contacts with Controllable Gap Potential. <i>Advanced Materials Research</i> , 2011, 222, 166-169.	0.3	0