

Martin H Magnusson

List of Publications by Year in descending order

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53
papers

4,430
citations

257450

24
h-index

214800

47
g-index

55
all docs

55
docs citations

55
times ranked

4285
citing authors

#	ARTICLE	IF	CITATIONS
1	InP Nanowire Array Solar Cells Achieving 13.8% Efficiency by Exceeding the Ray Optics Limit. <i>Science</i> , 2013, 339, 1057-1060.	12.6	1,093
2	One-dimensional Steeplechase for Electrons Realized. <i>Nano Letters</i> , 2002, 2, 87-89.	9.1	656
3	One-dimensional heterostructures in semiconductor nanowhiskers. <i>Applied Physics Letters</i> , 2002, 80, 1058-1060.	3.3	581
4	Gold Nanoparticles: Production, Reshaping, and Thermal Charging. <i>Journal of Nanoparticle Research</i> , 1999, 1, 243-251.	1.9	284
5	Size-, shape-, and position-controlled GaAs nano-whiskers. <i>Applied Physics Letters</i> , 2001, 79, 3335-3337.	3.3	249
6	Continuous gas-phase synthesis of nanowires with tunable properties. <i>Nature</i> , 2012, 492, 90-94.	27.8	156
7	Size-selected gold nanoparticles by aerosol technology. <i>Scripta Materialia</i> , 1999, 12, 45-48.	0.5	136
8	Growth and characterization of GaAs and InAs nano-whiskers and InAs/GaAs heterostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 13, 1126-1130.	2.7	123
9	Nanowires With Promise for Photovoltaics. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2011, 17, 1050-1061.	2.9	123
10	Axial InP Nanowire Tandem Junction Grown on a Silicon Substrate. <i>Nano Letters</i> , 2011, 11, 2028-2031.	9.1	114
11	Gold nanoparticle single-electron transistor with carbon nanotube leads. <i>Applied Physics Letters</i> , 2001, 79, 2106-2108.	3.3	87
12	Positioning of nanometer-sized particles on flat surfaces by direct deposition from the gas phase. <i>Applied Physics Letters</i> , 2001, 78, 3708-3710.	3.3	85
13	Microscopic aspects of the deposition of nanoparticles from the gas phase. <i>Journal of Aerosol Science</i> , 2002, 33, 1341-1359.	3.8	85
14	Reduction of the Schottky barrier height on silicon carbide using Au nano-particles. <i>Solid-State Electronics</i> , 2002, 46, 1433-1440.	1.4	69
15	Towards Nanowire Tandem Junction Solar Cells on Silicon. <i>IEEE Journal of Photovoltaics</i> , 2018, 8, 733-740.	2.5	53
16	Single-crystalline Tungsten Nanoparticles Produced by Thermal Decomposition of Tungsten Hexacarbonyl. <i>Journal of Materials Research</i> , 2000, 15, 1564-1569.	2.6	49
17	Fabrication of Si-based nanoimprint stamps with sub-20 nm features. <i>Microelectronic Engineering</i> , 2002, 61-62, 449-454.	2.4	49
18	Compaction of agglomerates of aerosol nanoparticles: A compilation of experimental data. <i>Journal of Nanoparticle Research</i> , 2005, 7, 43-49.	1.9	42

#	ARTICLE	IF	CITATIONS
19	Nanostructured Deposition of Nanoparticles from the Gas Phase. Particle and Particle Systems Characterization, 2002, 19, 321-326.	2.3	41
20	Approaches to increasing yield in evaporation/condensation nanoparticle generation. Journal of Aerosol Science, 2002, 33, 1309-1325.	3.8	37
21	GaAsP Nanowires Grown by Aerotaxy. Nano Letters, 2016, 16, 5701-5707.	9.1	36
22	Single-electron devices via controlled assembly of designed nanoparticles. Microelectronic Engineering, 1999, 47, 179-183.	2.4	30
23	Degenerate p-doping of InP nanowires for large area tunnel diodes. Applied Physics Letters, 2011, 99, .	3.3	28
24	Zn-doping of GaAs nanowires grown by Aerotaxy. Journal of Crystal Growth, 2015, 414, 181-186.	1.5	28
25	Size-selected nanocrystals of III-V semiconductor materials by the aerotaxy method. Journal of Aerosol Science, 1998, 29, 737-748.	3.8	19
26	Semiconductor nanostructures enabled by aerosol technology. Frontiers of Physics, 2014, 9, 398-418.	5.0	19
27	Recombination dynamics in aerotaxy-grown Zn-doped GaAs nanowires. Nanotechnology, 2016, 27, 455704.	2.6	16
28	<i>n</i> -type doping and morphology of GaAs nanowires in Aerotaxy. Nanotechnology, 2018, 29, 285601.	2.6	15
29	From diffusion limited to incorporation limited growth of nanowires. Journal of Crystal Growth, 2019, 525, 125192.	1.5	15
30	Size- and Composition-Controlled Au-Ga Aerosol Nanoparticles. Aerosol Science and Technology, 2004, 38, 948-954.	3.1	14
31	Predicting the deposition spot radius and the nanoparticle concentration distribution in an electrostatic precipitator. Aerosol Science and Technology, 2020, 54, 718-728.	3.1	14
32	Aerotaxy: gas-phase epitaxy of quasi 1D nanostructures. Nanotechnology, 2021, 32, 025605.	2.6	11
33	In situ observation of synthesized nanoparticles in ultra-dilute aerosols via X-ray scattering. Nano Research, 2019, 12, 25-31.	10.4	9
34	Surface smoothing and native oxide suppression on Zn doped aerotaxy GaAs nanowires. Journal of Applied Physics, 2019, 125, 025303.	2.5	9
35	Optical far-field extinction of a single GaAs nanowire towards in situ size control of aerotaxy nanowire growth. Nanotechnology, 2020, 31, 134001.	2.6	8
36	Feasibility study of nanoparticle synthesis from powders of compounds with incongruent sublimation behavior by the evaporation/ condensation method. Scripta Materialia, 1998, 10, 565-573.	0.5	7

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37	Aerosol Fabrication of Nanocrystals of InP. Japanese Journal of Applied Physics, 1999, 38, 1056-1059.	1.5	6
38	Electron Tomography Reveals the Droplet Covered Surface Structure of Nanowires Grown by Aerotaxy. Small, 2018, 14, e1801285.	10.0	5
39	Ångström-level, real-time control of the formation of quantum devices. Semiconductor Science and Technology, 1998, 13, A119-A123.	2.0	4
40	Nanoscale tungsten aerosol particles embedded in GaAs. Applied Physics Letters, 2002, 80, 2976-2978.	3.3	4
41	Title is missing!. Journal of Nanoparticle Research, 2002, 4, 351-356.	1.9	4
42	Airborne Gold Nanoparticle Detection Using Photoluminescence Excited with a Continuous Wave Laser. Applied Spectroscopy, 2021, 75, 1402-1409.	2.2	4
43	Assembly and analysis of quantum devices using SPM based methods. Microelectronics Reliability, 1998, 38, 943-950.	1.7	3
44	Enhanced Optical Biosensing by Aerotaxy Ga(As)P Nanowire Platforms Suitable for Scalable Production. ACS Applied Nano Materials, 0, , .	5.0	3
45	Calculation of Hole Concentrations in Zn Doped GaAs Nanowires. Nanomaterials, 2020, 10, 2524.	4.1	2
46	Quantitative laser diagnostics on trimethylindium pyrolysis and photolysis for functional nanoparticle growth. Measurement Science and Technology, 2022, 33, 055201.	2.6	2
47	Agglomeration of nanoparticles on substrate surfaces due to particle interactions during deposition. Journal of Aerosol Science, 1998, 29, S1281-S1282.	3.8	1
48	InP nanocrystals via aerosol route. , 0, , .		0
49	Aerosol fabrication of nanocrystals of InP and related materials. , 0, , .		0
50	Characterization of III-V semiconductor nanoparticles using TEM techniques. European Physical Journal D, 1999, 9, 547-550.	1.3	0
51	Dual topography of laminin corona on gallium arsenide nanowires. Biointerphases, 2020, 15, 051007.	1.6	0
52	The compositional homogeneity of the metal particle during vapor-liquid-solid growth of nanowires. Scientific Reports, 2020, 10, 11041.	3.3	0
53	Stability of supported aerosol-generated nanoparticles in liquid media. Scientific Reports, 2021, 11, 9276.	3.3	0