

Krister Svensson

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,313
citations

394421

19
h-index

345221

36
g-index

51
all docs

51
docs citations

51
times ranked

1657
citing authors

#	ARTICLE	IF	CITATIONS
1	Accurate determination of electrical conductance in carbon nanostructures. <i>Materials Research Express</i> , 2022, 9, 035010.	1.6	0
2	Influence of crystallinity on the electrical conductivity of individual carbon nanotubes. <i>Carbon Trends</i> , 2021, 5, 100125.	3.0	9
3	Effects of high temperature treatment of carbon nanotube arrays on graphite: increased crystallinity, anchoring and inter-tube bonding. <i>Nanotechnology</i> , 2020, 31, 455708.	2.6	15
4	Individual arc-discharge synthesized multiwalled carbon nanotubes probed with multiple measurement techniques. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2020, 38, .	1.2	3
5	Quantifying crystallinity in carbon nanotubes and its influence on mechanical behaviour. <i>Materials Today Communications</i> , 2019, 18, 39-45.	1.9	31
6	Microstructure, Solidification Texture, and Thermal Stability of 316 L Stainless Steel Manufactured by Laser Powder Bed Fusion. <i>Metals</i> , 2018, 8, 643.	2.3	117
7	ECCI/EBSD and TEM analysis of plastic fatigue damage accumulation responsible for fatigue crack initiation and propagation in VHCF of duplex stainless steels. <i>International Journal of Fatigue</i> , 2017, 100, 251-262.	5.7	20
8	Very high cycle fatigue of cold rolled stainless steels, crack initiation and formation of the fine granular area. <i>International Journal of Fatigue</i> , 2017, 100, 238-250.	5.7	28
9	Cellulose-derived carbon nanofibers/graphene composite electrodes for powerful compact supercapacitors. <i>RSC Advances</i> , 2017, 7, 45968-45977.	3.6	76
10	Excitation and desorption of physisorbed H ₂ via the π^* electron scattering resonance. <i>Journal of Chemical Physics</i> , 2017, 147, 114703.	3.0	0
11	Photodegradation of the electronic structure of PCBM and C60 films in air. <i>Chemical Physics Letters</i> , 2016, 652, 220-224.	2.6	14
12	Hierarchical cellulose-derived CNF/CNT composites for electrostatic energy storage. <i>Journal of Micromechanics and Microengineering</i> , 2016, 26, 124001.	2.6	11
13	Mechanical behavior of carbon nanotubes in the rippled and buckled phase. <i>Journal of Applied Physics</i> , 2015, 117, 084318.	2.5	15
14	Monitoring the osmotic response of single yeast cells through force measurement in the environmental scanning electron microscope. <i>Measurement Science and Technology</i> , 2014, 25, 025901.	2.6	0
15	Large variations in the onset of rippling in concentric nanotubes. <i>Applied Physics Letters</i> , 2014, 104, 021910.	3.3	9
16	Hydrogen-Induced Reconstruction of Cu(100): Two-Dimensional and One-Dimensional Structures of Surface Hydride. <i>Journal of Physical Chemistry C</i> , 2014, 118, 15773-15778.	3.1	13
17	Image formation mechanisms in scanning electron microscopy of carbon nanotubes, and retrieval of their intrinsic dimensions. <i>Ultramicroscopy</i> , 2013, 124, 35-39.	1.9	4
18	Molecular orientation and composition at the surface of spin-coated polyfluorene:Fullerene blend films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 176-182.	2.1	11

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19	Near-edge X-ray absorption fine structure study of the C60-derivative PCBM. Chemical Physics Letters, 2013, 568-569, 130-134.	2.6	18
20	Direct measurement of bending stiffness and estimation of Young's modulus of vertically aligned carbon nanofibers. Journal of Applied Physics, 2013, 113, 194308.	2.5	4
21	Novel Method for Controlled Wetting of Materials in the Environmental Scanning Electron Microscope. Microscopy and Microanalysis, 2013, 19, 30-37.	0.4	9
22	Desorption of H_2 , HD, and D_2 through Temporary Negative Ion Formation. Physical Review Letters, 2012, 109, 196102.	7.8	2
23	Tuning the Vertical Phase Separation in Polyfluorene:Fullerene Blend Films by Polymer Functionalization. Chemistry of Materials, 2011, 23, 2295-2302.	6.7	41
24	Combining Scanning Probe Microscopy and Transmission Electron Microscopy. Nanoscience and Technology, 2011, , 59-99.	1.5	3
25	Controlling the initial phase of PECVD growth of vertically aligned carbon nanofibers on TiN. Sensors and Actuators A: Physical, 2011, 172, 347-358.	4.1	7
26	Measurements of the critical strain for rippling in carbon nanotubes. Applied Physics Letters, 2011, 98, .	3.3	15
27	Dissociation of Physisorbed H_2 through Low-Energy Electron Scattering Resonances. Physical Review Letters, 2010, 104, 216101.	7.8	3
28	Construction of a new type of low-energy scanning electron microscope with atomic resolution. Proceedings of SPIE, 2009, , .	0.8	1
29	In-Situ TEM Characterization of the Effect of Interfaces on Charge Transport in Cu(In,Ga)Se ₂ Thin Film Solar Cells. Microscopy and Microanalysis, 2009, 15, 712-713.	0.4	0
30	MEMS Sensor for <i>In Situ</i> TEM Atomic Force Microscopy. Journal of Microelectromechanical Systems, 2008, 17, 328-333.	2.5	34
31	Calibration methods of force sensors in the micro-Newton range. Journal of Micromechanics and Microengineering, 2007, 17, 2102-2107.	2.6	10
32	Extraction and Local Probing of Individual Carbon Nanotubes. AIP Conference Proceedings, 2005, , .	0.4	1
33	Dipole active rotations of physisorbed H ₂ and D ₂ . Physical Review B, 2005, 71, .	3.2	11
34	Bistable nanoelectromechanical devices. Applied Physics Letters, 2004, 84, 4074-4076.	3.3	74
35	Nanopipettes for Metal Transport. Physical Review Letters, 2004, 93, 145901.	7.8	199
36	Compact design of a transmission electron microscope-scanning tunneling microscope holder with three-dimensional coarse motion. Review of Scientific Instruments, 2003, 74, 4945-4947.	1.3	113

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37	Scanning probe energy loss spectroscopy. <i>Surface Science</i> , 2002, 502-503, 224-231.	1.9	26
38	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.	6.1	83
39	Imaging surfaces with reflected electrons from a field emission scanning tunnelling microscope: image contrast mechanisms. <i>Journal Physics D: Applied Physics</i> , 2001, 34, 1849-1852.	2.8	15
40	Photoemission study of chemisorption of C ₆₀ on InP(100). <i>Physical Review B</i> , 2001, 64, .	3.2	15
41	STM studies of passivated Au nanocrystals immobilised on a passivated Au(111) surface: ordered arrays and single electron tunnelling. <i>Chemical Physics Letters</i> , 2000, 330, 1-6.	2.6	29
42	H ₂ adsorbed in a two-dimensional quantum rotor state on a stepped copper surface. <i>Physical Review B</i> , 2000, 61, 16921-16932.	3.2	33
43	Dissociation and desorption of ferrocene on graphite by low energy electron impact. <i>Surface Science</i> , 2000, 451, 250-254.	1.9	11
44	Scanning probe energy loss spectroscopy: Angular resolved measurements on silicon and graphite surfaces. <i>Applied Physics Letters</i> , 2000, 77, 4223-4225.	3.3	36
45	Two-Dimensional Quantum Rotation of Adsorbed H ₂ . <i>Physical Review Letters</i> , 1999, 83, 124-127.	7.8	44
46	Direct Infrared Photodesorption of Physisorbed H ₂ . <i>Physical Review Letters</i> , 1998, 80, 2481-2484.	7.8	19
47	A compact inertial slider STM. <i>Measurement Science and Technology</i> , 1997, 8, 1360-1362.	2.6	5
48	Dipole Active Vibrational Motion in the Physisorption Well. <i>Physical Review Letters</i> , 1997, 78, 2016-2019.	7.8	22
49	Rotational spectra of physisorbed hydrogen. <i>Surface Science</i> , 1997, 392, L40-L44.	1.9	19
50	Step site adsorption and ordering of CO on Ni(510) and Pd(510). <i>Surface Science</i> , 1996, 366, 140-148.	1.9	21
51	Adsorption of hydrogen on stepped Ni and Pd surfaces - observation of chemisorbed hydrogen molecules. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1993, 64-65, 51-58.	1.7	14