Krister Svensson

List of Publications by Year
in descending order

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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	Nanopipettes for Metal Transport. Physical Review Letters, 2004, 93, 145901.	7.8	199
2	Microstructure, Solidification Texture, and Thermal Stability of 316 L Stainless Steel Manufactured by Laser Powder Bed Fusion. Metals, 2018, 8, 643.	2.3	117
3	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
4	Force interactions and adhesion of gold contacts using a combined atomic force microscope and transmission electron microscope. Applied Surface Science, 2002, 188, 460-466.	6.1	83
5	Cellulose-derived carbon nanofibers/graphene composite electrodes for powerful compact supercapacitors. RSC Advances, 2017, 7, 45968-45977.	3.6	76
6	Bistable nanoelectromechanical devices. Applied Physics Letters, 2004, 84, 4074-4076.	3.3	74
7	Two-Dimensional Quantum Rotation of AdsorbedH2. Physical Review Letters, 1999, 83, 124-127.	7.8	44
8	Tuning the Vertical Phase Separation in Polyfluorene:Fullerene Blend Films by Polymer Functionalization. Chemistry of Materials, 2011, 23, 2295-2302.	6.7	41
9	Scanning probe energy loss spectroscopy: Angular resolved measurements on silicon and graphite surfaces. Applied Physics Letters, 2000, 77, 4223-4225.	3.3	36
10	MEMS Sensor for In Situ TEM Atomic Force Microscopy. Journal of Microelectromechanical Systems, 2008, 17, 328-333.	2.5	34
11	H2adsorbed in a two-dimensional quantum rotor state on a stepped copper surface. Physical Review B, 2000, 61, 16921-16932.	3.2	33
12	Quantifying crystallinity in carbon nanotubes and its influence on mechanical behaviour. Materials Today Communications, 2019, 18, 39-45.	1.9	31
13	STM studies of passivated Au nanocrystals immobilised on a passivated Au(111) surface: ordered arrays and single electron tunnelling. Chemical Physics Letters, 2000, 330, 1-6.	2.6	29
14	Very high cycle fatigue of cold rolled stainless steels, crack initiation and formation of the fine granular area. International Journal of Fatigue, 2017, 100, 238-250.	5.7	28
15	Scanning probe energy loss spectroscopy. Surface Science, 2002, 502-503, 224-231.	1.9	26
16	Dipole Active Vibrational Motion in the Physisorption Well. Physical Review Letters, 1997, 78, 2016-2019.	7.8	22
17	Step site adsorption and ordering of CO on Ni(510) and Pd(510). Surface Science, 1996, 366, 140-148.	1.9	21
18	ECCI/EBSD and TEM analysis of plastic fatigue damage accumulation responsible for fatigue crack initiation and propagation in VHCF of duplex stainless steels. International Journal of Fatigue, 2017, 100, 251-262.	5.7	20

#	Article	IF	Citations
19	Rotational spectra of physisorbed hydrogen. Surface Science, 1997, 392, L40-L44.	1.9	19
20	Direct Infrared Photodesorption of PhysisorbedH2. Physical Review Letters, 1998, 80, 2481-2484.	7.8	19
21	Near-edge X-ray absorption fine structure study of the C60-derivative PCBM. Chemical Physics Letters, 2013, 568-569, 130-134.	2.6	18
22	Imaging surfaces with reflected electrons from a field emission scanning tunnelling microscope: image contrast mechanisms. Journal Physics D: Applied Physics, 2001, 34, 1849-1852.	2.8	15
23	Photoemission study of chemisorption ofC60on InP(100). Physical Review B, 2001, 64, .	3.2	15
24	Measurements of the critical strain for rippling in carbon nanotubes. Applied Physics Letters, 2011, 98, .	3.3	15
25	Mechanical behavior of carbon nanotubes in the rippled and buckled phase. Journal of Applied Physics, 2015, 117, 084318.	2.5	15
26	Effects of high temperature treatment of carbon nanotube arrays on graphite: increased crystallinity, anchoring and inter-tube bonding. Nanotechnology, 2020, 31, 455708.	2.6	15
27	Adsorption of hydrogen on stepped Ni and Pd surfaces - observation of chemisorbed hydrogen molecules. Journal of Electron Spectroscopy and Related Phenomena, 1993, 64-65, 51-58.	1.7	14
28	Photodegradation of the electronic structure of PCBM and C60 films in air. Chemical Physics Letters, 2016, 652, 220-224.	2.6	14
29	Hydrogen-Induced Reconstruction of Cu(100): Two-Dimensional and One-Dimensional Structures of Surface Hydride. Journal of Physical Chemistry C, 2014, 118, 15773-15778.	3.1	13
30	Dissociation and desorption of ferrocene on graphite by low energy electron impact. Surface Science, 2000, 451, 250-254.	1.9	11
31	Dipole active rotations of physisorbedH2andD2. Physical Review B, 2005, 71, .	3.2	11
32	Molecular orientation and composition at the surface of spinâ€coated polyfluorene:Fullerene blend films. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 176-182.	2.1	11
33	Hierarchical cellulose-derived CNF/CNT composites for electrostatic energy storage. Journal of Micromechanics and Microengineering, 2016, 26, 124001.	2.6	11
34	Calibration methods of force sensors in the micro-Newton range. Journal of Micromechanics and Microengineering, 2007, 17, 2102-2107.	2.6	10
35	Novel Method for Controlled Wetting of Materials in the Environmental Scanning Electron Microscope. Microscopy and Microanalysis, 2013, 19, 30-37.	0.4	9
36	Large variations in the onset of rippling in concentric nanotubes. Applied Physics Letters, 2014, 104, 021910.	3.3	9

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37	Influence of crystallinity on the electrical conductivity of individual carbon nanotubes. Carbon Trends, 2021, 5, 100125.	3.0	9
38	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
39	A compact inertial slider STM. Measurement Science and Technology, 1997, 8, 1360-1362.	2.6	5
40	Image formation mechanisms in scanning electron microscopy of carbon nanotubes, and retrieval of their intrinsic dimensions. Ultramicroscopy, 2013, 124, 35-39.	1.9	4
41	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
42	Dissociation of Physisorbed<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="bold">H</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>through Low-Energy Electron Scattering Resonances. Physical Review Letters, 2010, 104, 216101.	7.8	3
43	Combining Scanning Probe Microscopy and Transmission Electron Microscopy. Nanoscience and Technology, 2011, , 59-99.	1.5	3
44	Individual arc-discharge synthesized multiwalled carbon nanotubes probed with multiple measurement techniques. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2020, 38, .	1.2	3
45	[illegible]<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="bold">H</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>, HD, and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="bold">D</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>through Temporary Negative Ion Formation. Physical Review Letters, 2012, 109, 196102.	7.8	2
46	Extraction and Local Probing of Individual Carbon Nanotubes. AIP Conference Proceedings, 2005, , .	0.4	1
47	Construction of a new type of low-energy scanning electron microscope with atomic resolution. Proceedings of SPIE, 2009, , .	0.8	1
48	In-Situ TEM Characterization of the Effect of Interfaces on Charge Transport in Cu(In,Ga)Se2 Thin Film Solar Cells. Microscopy and Microanalysis, 2009, 15, 712-713.	0.4	0
49	Monitoring the osmotic response of single yeast cells through force measurement in the environmental scanning electron microscope. Measurement Science and Technology, 2014, 25, 025901.	2.6	0
50	Excitation and desorption of physisorbed H2 via theÎ£u2 electron scattering resonance. Journal of Chemical Physics, 2017, 147, 114703.	3.0	0
51	Accurate determination of electrical conductance in carbon nanostructures. Materials Research Express, 2022, 9, 035010.	1.6	0