Peter BÃ¸ggild

List of Publications by Year
in descending order

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214 papers	9,325 citations	44069 48 h-index	45317 90 g-index
216 all docs	216 docs citations	216 times ranked	13123 citing authors

#	Article	IF	Citations
1	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. Nanoscale, 2015, 7, 4598-4810.	5.6	2,452
2	The hot pick-up technique for batch assembly of van der Waals heterostructures. Nature Communications, 2016, 7, 11894.	12.8	446
3	Production and processing of graphene and related materials. 2D Materials, 2020, 7, 022001.	4.4	333
4	Dielectrophoresis of carbon nanotubes using microelectrodes: a numerical study. Nanotechnology, 2004, 15, 1095-1102.	2.6	216
5	Graphene Conductance Uniformity Mapping. Nano Letters, 2012, 12, 5074-5081.	9.1	152
6	Pick-and-place nanomanipulation using microfabricated grippers. Nanotechnology, 2006, 17, 2434-2441.	2.6	127
7	Mapping the electrical properties of large-area graphene. 2D Materials, 2017, 4, 042003.	4.4	113
8	Actuation of microfabricated tools using multiple GPC-based counterpropagating-beam traps. Optics Express, 2005, 13, 6899.	3.4	112
9	Reversible hysteresis inversion in MoS2 field effect transistors. Npj 2D Materials and Applications, 2017, 1, .	7.9	112
10	Plasmonâ€“Phonon Coupling in Large-Area Graphene Dot and Antidot Arrays Fabricated by Nanosphere Lithography. Nano Letters, 2014, 14, 2907-2913.	9.1	111
11	Soldering of Nanotubes onto Microelectrodes. Nano Letters, 2003, 3, 47-49.	9.1	110
12	Simple Approach to Superamphiphobic Overhanging Silicon Nanostructures. Journal of Physical Chemistry C, 2010, 114, 2936-2940.	3.1	105
13	Fabrication and actuation of customized nanotweezers with a 25 nm gap. Nanotechnology, 2001, 12, 331-335.	2.6	103
14	A universal approach for the synthesis of two-dimensional binary compounds. Nature Communications, 2019, 10, 2957.	12.8	93
15	Large-area nanopatterned graphene for ultrasensitive gas sensing. Nano Research, 2014, 7, 743-754.	10.4	91
16	Graphene mobility mapping. Scientific Reports, 2015, 5, 12305.	3.3	89
17	Complete long-term corrosion protection with chemical vapor deposited graphene. Carbon, 2018, 132, 78-84.	10.3	89
18	Scanning microscopic four-point conductivity probes. Sensors and Actuators A: Physical, 2002, 96, 53-58.	4.1	87

#	ARTICLE	IF	CITATIONS
19	High resolution 100kV electron beam lithography in SU-8. Microelectronic Engineering, 2006, 83, 1609-1612.	2.4	83
20	Solid Gold Nanostructures Fabricated by Electron Beam Deposition. Nano Letters, 2003, 3, 1499-1503.	9.1	82
21	Lithographic band structure engineering of graphene. Nature Nanotechnology, 2019, 14, 340-346.	31.5	82
22	Structural Transformations in Two-Dimensional Transition-Metal Dichalcogenide MoS₂ under an Electron Beam: Insights from First-Principles Calculations. Journal of Physical Chemistry Letters, 2017, 8, 3061-3067.	4.6	81
23	ELECTRICAL CONDUCTION THROUGH SURFACE SUPERSTRUCTURES MEASURED BY MICROSCOPIC FOUR-POINT PROBES. Surface Review and Letters, 2003, 10, 963-980.	1.1	80
24	Single-Crystalline Gold Nanodisks on WS₂ Mono- and Multilayers for Strong Coupling at Room Temperature. ACS Photonics, 2019, 6, 994-1001.	6.6	80
25	Discrete Dynamics of Nanoparticle Channelling in Suspended Graphene. Nano Letters, 2011, 11, 2689-2692.	9.1	77
26	Constructing, connecting and soldering nanostructures by environmental electron beam deposition. Nanotechnology, 2004, 15, 1047-1053.	2.6	74
27	Electrically Continuous Graphene from Single Crystal Copper Verified by Terahertz Conductance Spectroscopy and Micro Four-Point Probe. Nano Letters, 2014, 14, 6348-6355.	9.1	74
28	Direct electrospinning of Ag/polyvinylpyrrolidone nanocables. Nanoscale, 2011, 3, 4966.	5.6	73
29	Graphene transport properties upon exposure to PMMA processing and heat treatments. 2D Materials, 2014, 1, 035005.	4.4	73
30	A two-dimensional Dirac fermion microscope. Nature Communications, 2017, 8, 15783.	12.8	72
31	Do-It-Yourself Transfer of Large-Area Graphene Using an Office Laminator and Water. Chemistry of Materials, 2019, 31, 2328-2336.	6.7	71
32	Multilayer graphene for long-term corrosion protection of stainless steel bipolar plates for polymer electrolyte membrane fuel cell. Journal of Power Sources, 2015, 293, 846-851.	7.8	70
33	Carbon nanotube based separation columns for high electrical field strengths in microchip electrochromatography. Lab on A Chip, 2011, 11, 2116.	6.0	68
34	Transmission Electron Microscopy Study of Individual Carbon Nanotube Breakdown Caused by Joule Heating in Air. Nano Letters, 2006, 6, 1663-1668.	9.1	66
35	Electron irradiation-induced destruction of carbon nanotubes in electron microscopes. Ultramicroscopy, 2007, 108, 52-57.	1.9	66
36	A carbon nanofibre scanning probe assembled using an electrothermal microgripper. Nanotechnology, 2007, 18, 345501.	2.6	62

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37	Waferâ€Scale Synthesis of Graphene on Sapphire: Toward Fabâ€Compatible Graphene. Small, 2019, 15, e1904906.	10.0	61
38	Controllable chemical vapor deposition of large area uniform nanocrystalline graphene directly on silicon dioxide. Journal of Applied Physics, 2012, 111, .	2.5	59
39	Rapid prototyping of nanotube-based devices using topology-optimized microgrippers. Nanotechnology, 2008, 19, 495503.	2.6	58
40	Surface-State Bands on Silicon â€“Si(111)-$sqrt{3}imessqrt{3}$-Ag Surface Superstructureâ€“. Japanese Journal of Applied Physics, 2000, 39, 3815-3822.	1.5	55
41	Real-time oxide evolution of copper protected by graphene and boron nitride barriers. Scientific Reports, 2017, 7, 39770.	3.3	55
42	The war on fake graphene. Nature, 2018, 562, 502-503.	27.8	55
43	Scanning nanoscale multiprobes for conductivity measurements. Review of Scientific Instruments, 2000, 71, 2781-2783.	1.3	52
44	Towards Pick-and-Place Assembly of Nanostructures. Journal of Nanoscience and Nanotechnology, 2004, 4, 279-282.	0.9	52
45	Depth-detection methods for microgripper based CNT manipulation in a scanning electron microscope. Journal of Micro-Nano Mechatronics, 2008, 4, 27-36.	1.0	51
46	Controlled generation of luminescent centers in hexagonal boron nitride by irradiation engineering. Science Advances, 2021, 7, .	10.3	51
47	Terahertz wafer-scale mobility mapping of graphene on insulating substrates without a gate. Optics Express, 2015, 23, 30721.	3.4	50
48	Direct measurement of surface-state conductance by microscopic four-point probe method. Journal of Physics Condensed Matter, 2002, 14, 8379-8392.	1.8	49
49	Frequency dependence of the structure and electrical behaviour of carbon nanotube networks assembled by dielectrophoresis. Nanotechnology, 2005, 16, 759-763.	2.6	47
50	High Throughput Nanofabrication of Silicon Nanowire and Carbon Nanotube Tips on AFM Probes by Stencil-Deposited Catalysts. Nano Letters, 2011, 11, 1568-1574.	9.1	47
51	Copper Oxidation through Nucleation Sites of Chemical Vapor Deposited Graphene. Chemistry of Materials, 2016, 28, 3789-3795.	6.7	44
52	Multimodal Electrothermal Silicon Microgrippers for Nanotube Manipulation. IEEE Nanotechnology Magazine, 2009, 8, 76-85.	2.0	42
53	Unforeseen high temperature and humidity stability of FeCl3 intercalated few layer graphene. Scientific Reports, 2015, 5, 7609.	3.3	41
54	Non-destructive electrochemical graphene transfer from reusable thin-film catalysts. Carbon, 2015, 85, 397-405.	10.3	41

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55	Direct Measurement of Resistance of Multiwalled Carbon Nanotubes Using Micro Four-Point Probes. Sensor Letters, 2005, 3, 300-303.	0.4	41
56	Review of electrical characterization of ultra-shallow junctions with micro four-point probes. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, C1C27-C1C33.	1.2	40
57	Catalyst Interface Engineering for Improved 2D Film Lift-Off and Transfer. ACS Applied Materials & Interfaces, 2016, 8, 33072-33082.	8.0	40
58	Direct Measurement of the Microscale Conductivity of Conjugated Polymer Monolayers. Advanced Materials, 2000, 12, 947-950.	21.0	39
59	A graphite nanoeraser. Nanotechnology, 2011, 22, 265706.	2.6	38
60	Nonlinear current-voltage characteristics at quantum Hall resistance minima. Physical Review B, 1994, 50, 1957-1960.	3.2	37
61	Fast and direct measurements of the electrical properties of graphene using micro four-point probes. Nanotechnology, 2011, 22, 445702.	2.6	37
62	Electrothermal microgrippers for pick-and-place operations. Microelectronic Engineering, 2008, 85, 1128-1130.	2.4	36
63	Quality assessment of terahertz time-domain spectroscopy transmission and reflection modes for graphene conductivity mapping. Optics Express, 2018, 26, 9220.	3.4	36
64	MICRO-FOUR-POINT PROBES IN A UHV SCANNING ELECTRON MICROSCOPE FOR IN-SITU SURFACE-CONDUCTIVITY MEASUREMENTS. Surface Review and Letters, 2000, 07, 533-537.	1.1	34
65	An approach to a multi-walled carbon nanotube based mass sensor. Microelectronic Engineering, 2004, 73-74, 670-674.	2.4	34
66	Topology optimized electrothermal polysilicon microgrippers. Microelectronic Engineering, 2008, 85, 1096-1099.	2.4	34
67	In Situ TEM Creation and Electrical Characterization of Nanowire Devices. Nano Letters, 2012, 12, 2965-2970.	9.1	34
68	Raman spectral indicators of catalyst decoupling for transfer of CVD grown 2D materials. Carbon, 2017, 117, 75-81.	10.3	33
69	Challenges for continuous graphene as a corrosion barrier. 2D Materials, 2019, 6, 022002.	4.4	33
70	Comparison of high resolution negative electron beam resists. Journal of Vacuum Science & Technology B, 2006, 24, 1776.	1.3	32
71	The conductivity of Bi(111) investigated with nanoscale four point probes. Journal of Applied Physics, 2008, 104, 053717.	2.5	32
72	Transfer induced compressive strain in graphene: Evidence from Raman spectroscopic mapping. Microelectronic Engineering, 2014, 121, 113-117.	2.4	32

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73	Robust mapping of electrical properties of graphene from terahertz time-domain spectroscopy with timing jitter correction. Optics Express, 2017, 25, 2725.	3.4	32
74	Quality assessment of graphene: Continuity, uniformity, and accuracy of mobility measurements. Nano Research, 2017, 10, 3596-3605.	10.4	31
75	Nanorobotic manipulation setup for pick-and-place handling and nondestructive characterization of carbon nanotubes. , 2007, , .		30
76	Suppression of intrinsic roughness in encapsulated graphene. Physical Review B, 2017, 96, .	3.2	30
77	Graphene Edges Dictate the Morphology of Nanoparticles during Catalytic Channeling. Journal of Physical Chemistry C, 2014, 118, 4296-4302.	3.1	29
78	Fabrication of CVD graphene-based devices via laser ablation for wafer-scale characterization. 2D Materials, 2015, 2, 045003.	4.4	29
79	Quantitative optical mapping of two-dimensional materials. Scientific Reports, 2018, 8, 6381.	3.3	29
80	Conductivity mapping of graphene on polymeric films by terahertz time-domain spectroscopy. Optics Express, 2018, 26, 17748.	3.4	29
81	Resolution enhancement of scanning four-point-probe measurements on two-dimensional systems. Review of Scientific Instruments, 2003, 74, 3701-3708.	1.3	27
82	Micro-four-point-probe characterization of nanowires fabricated using the nanostencil technique. Nanotechnology, 2004, 15, 1363-1367.	2.6	27
83	Epitaxial Integration of Nanowires in Microsystems by Local Micrometerâ€Scale Vaporâ€Phase Epitaxy. Small, 2008, 4, 1741-1746.	10.0	27
84	Nanobits: customizable scanning probe tips. Nanotechnology, 2009, 20, 395703.	2.6	27
85	Measurement of Local Siâ€Nanowire Growth Kinetics Using In situ Transmission Electron Microscopy of Heated Cantilevers. Small, 2010, 6, 2058-2064.	10.0	27
86	Static contact micro four-point probes with <11nm positioning repeatability. Microelectronic Engineering, 2008, 85, 1092-1095.	2.4	25
87	Carbon nanotubes integrated in electrically insulated channels for lab-on-a-chip applications. Nanotechnology, 2009, 20, 095503.	2.6	25
88	Self-assembly of ordered graphene nanodot arrays. Nature Communications, 2017, 8, 47.	12.8	25
89	Conductance quantization suppression in the quantum Hall regime. Nature Communications, 2018, 9, 659.	12.8	25
90	Periodic magnetoconductance fluctuations in triangular quantum dots in the absence of selective probing. Physical Review B, 1998, 57, 15408-15415.	3.2	24

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91	Mechanical Properties of Organic Nanofibers. Small, 2006, 2, 660-666.	10.0	24
92	Microcantilever equipped with nanowire template electrodes for multiprobe measurement on fragile nanostructures. Journal of Applied Physics, 2004, 96, 2895-2900.	2.5	23
93	Facile electrochemical transfer of large-area single crystal epitaxial graphene from Ir(1â€‰1â€‰1). Journal Physics D: Applied Physics, 2015, 48, 115306.	2.8	23
94	Fermi velocity renormalization in graphene probed by terahertz time-domain spectroscopy. 2D Materials, 2020, 7, 035009.	4.4	23
95	Multi-walled carbon nanotubes integrated in microcantilevers for application of tensile strain. Ultramicroscopy, 2005, 105, 209-214.	1.9	22
96	Electrical properties of a single p-hexaphenylene nanofiber. Thin Solid Films, 2006, 515, 827-830.	1.8	22
97	Manipulation andin situtransmission electron microscope characterization of sub-100 nm nanostructures using a microfabricated nanogripper. Journal of Micromechanics and Microengineering, 2010, 20, 035009.	2.6	22
98	Electronic and transport properties of kinked graphene. Beilstein Journal of Nanotechnology, 2013, 4, 103-110.	2.8	22
99	High quality sub-10 nm graphene nanoribbons by on-chip PS-b-PDMS block copolymer lithography. RSC Advances, 2015, 5, 66711-66717.	3.6	22
100	Batch fabrication of nanopatterned graphene devices via nanoimprint lithography. Applied Physics Letters, 2017, 111, .	3.3	22
101	A Graphene-Edge Ferroelectric Molecular Switch. Nano Letters, 2018, 18, 4675-4683.	9.1	21
102	Electrical Homogeneity Mapping of Epitaxial Graphene on Silicon Carbide. ACS Applied Materials & Interfaces, 2018, 10, 31641-31647.	8.0	20
103	Parametric Optimization of Inverse Trapezoid Oleophobic Surfaces. Langmuir, 2012, 28, 17545-17551.	3.5	19
104	Reference-free THz-TDS conductivity analysis of thin conducting films. Optics Express, 2020, 28, 28819.	3.4	19
105	A complementary metal-oxide-semiconductor compatible monocantilever 12-point probe for conductivity measurements on the nanoscale. Applied Physics Letters, 2008, 93, .	3.3	18
106	Sensitivity study of micro four-point probe measurements on small samples. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, C1C34-C1C40.	1.2	17
107	Ultra-high aspect ratio replaceable AFM tips using deformation-suppressed focused ion beam milling. Nanotechnology, 2013, 24, 465701.	2.6	17
108	Sputtering an exterior metal coating on copper enclosure for large-scale growth of single-crystalline graphene. 2D Materials, 2017, 4, 045017.	4.4	17

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109	Electrical conductivity of organic single-nanofiber devices with different contact materials. Organic Electronics, 2007, 8, 540-544.	2.6	16
110	Graphene Oxide as a Monoatomic Blocking Layer. ACS Nano, 2012, 6, 8022-8029.	14.6	16
111	Super-Resolution Nanolithography of Two-Dimensional Materials by Anisotropic Etching. ACS Applied Materials & Interfaces, 2021, 13, 41886-41894.	8.0	16
112	Bottomâ€Upâ€Etchingâ€Mediated Synthesis of Largeâ€Scale Pure Monolayer Graphene on Cyclicâ€Polishingâ€Annealed Cu(111). Advanced Materials, 2022, 34, e2108608.	21.0	16
113	Effects of small-angle scattering on Weiss oscillations in a GaAs lateral superlattice. Physical Review B, 1995, 51, 7333-7336.	3.2	15
114	Electrostatics of metalâ€“graphene interfaces: sharp pâ€“n junctions for electron-optical applications. Nanoscale, 2019, 11, 10273-10281.	5.6	15
115	Carbon nanotube forests: a non-stick workbench for nanomanipulation. Nanotechnology, 2006, 17, 4917-4922.	2.6	14
116	On the suitability of carbon nanotube forests as non-stick surfaces for nanomanipulation. Soft Matter, 2008, 4, 392.	2.7	14
117	Fundamental size limitations of micro four-point probes. Microelectronic Engineering, 2009, 86, 987-990.	2.4	14
118	Topology optimization of robust superhydrophobic surfaces. Soft Matter, 2013, 9, 2234.	2.7	14
119	Directed self-assembled crystalline oligomer domains on graphene and graphite. Nanotechnology, 2014, 25, 035602.	2.6	14
120	Failure of multi-layer graphene coatings in acidic media. RSC Advances, 2016, 6, 21497-21502.	3.6	14
121	Low-temperature synthesis of a graphene-based, corrosion-inhibiting coating on an industrial grade alloy. Corrosion Science, 2019, 152, 1-9.	6.6	14
122	Nanoscale silicon structures by using carbon nanotubes as reactive ion etch masks. Nanotechnology, 2005, 16, 750-753.	2.6	13
123	Revealing origin of quasi-one dimensional current transport in defect rich two dimensional materials. Applied Physics Letters, 2014, 105, .	3.3	13
124	Contactless graphene conductance measurements: the effect of device fabrication on terahertz time-domain spectroscopy. International Journal of Nanotechnology, 2016, 13, 591.	0.2	13
125	Graphene antidot lattice transport measurements. International Journal of Nanotechnology, 2017, 14, 226.	0.2	13
126	Large-scale tight-binding simulations of quantum transport in ballistic graphene. Journal of Physics Condensed Matter, 2018, 30, 364001.	1.8	13

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127	Graphene-Subgrain-Defined Oxidation of Copper. ACS Applied Materials & Interfaces, 2019, 11, 48518-48524.	8.0	13
128	Microgrippers: a case study for batch-compatible integration of MEMS with nanostructures. Nanotechnology, 2007, 18, 375501.	2.6	12
129	Integration, gap formation, and sharpening of III-V heterostructure nanowires by selective etching. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, 21-26.	1.2	12
130	Customizablein situTEM devices fabricated in freestanding membranes by focused ion beam milling. Nanotechnology, 2010, 21, 405304.	2.6	12
131	Vertically aligned CNT growth on a microfabricated silicon heater with integrated temperature controlâ€"determination of the activation energy from a continuous thermal gradient. Journal of Micromechanics and Microengineering, 2011, 21, 015004.	2.6	12
132	Stepwise Reduction of Immobilized Monolayer Graphene Oxides. Chemistry of Materials, 2013, 25, 4839-4848.	6.7	12
133	Defect/oxygen assisted direct write technique for nanopatterning graphene. Nanoscale, 2015, 7, 6271-6277.	5.6	11
134	Case studies of electrical characterisation of graphene by terahertz time-domain spectroscopy. 2D Materials, 0, , .	4.4	11
135	3D mechanical measurements with an atomic force microscope on 1D structures. Review of Scientific Instruments, 2012, 83, 023704.	1.3	10
136	All-graphene edge contacts: Electrical resistance of graphene T-junctions. Carbon, 2016, 101, 101-106.	10.3	10
137	Oxidation of Suspended Graphene: Etch Dynamics and Stability Beyond 1000 Â°C. ACS Nano, 2019, 13, 2281-2288.	14.6	10
138	A simple electron-beam lithography system. Ultramicroscopy, 2005, 102, 215-219.	1.9	9
139	Temperature response of carbon nanotube networks. Journal of Physics: Conference Series, 2007, 61, 247-251.	0.4	9
140	Investigation of Parameters Controlling the Dielectrophoretic Assembly of Carbon Nanotubes on Microelectrodes. Journal of Nanoscience and Nanotechnology, 2008, 8, 1973-1978.	0.9	9
141	Sensitivity analysis explains quasi-one-dimensional current transport in two-dimensional materials. Physical Review B, 2014, 90, .	3.2	9
142	Unraveling the electronic properties of graphene with substitutional oxygen. 2D Materials, 2021, 8, 045035.	4.4	9
143	Waferscale assembly of Field-Aligned nanotube Networks (FANs). Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 1088-1093.	1.8	8
144	Micromanipulation of organic nanofibers for blue light emitting microstructures. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 1459-1463.	1.8	8

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145	Versatile Method for Manipulating and Contacting Nanowires. Journal of Nanoscience and Nanotechnology, 2006, 6, 1995-1999.	0.9	8
146	High-quality graphene flakes exfoliated on a flat hydrophobic polymer. Applied Physics Letters, 2018, 112, .	3.3	8
147	Non-contact mobility measurements of graphene on silicon carbide. Microelectronic Engineering, 2019, 212, 9-12.	2.4	8
148	Micro-Four-Point Probes in a UHV Scanning Electron Microscope for In-Situ Surface-Conductivity Measurements. Surface Review and Letters, 2000, 7, 533-537.	1.1	8
149	Graphene electrodes for n-type organic field-effect transistors. Microelectronic Engineering, 2010, 87, 1120-1122.	2.4	7
150	Selective Electroless Silver Deposition on Graphene Edges. Journal of the Electrochemical Society, 2015, 162, D213-D217.	2.9	7
151	Wafer-scale graphene quality assessment using micro four-point probe mapping. Nanotechnology, 2020, 31, 225709.	2.6	7
152	Customizable nanotweezers for manipulation of free-standing nanostructures. , 0, , .		6
153	Electrical characterization of InGaAs ultra-shallow junctions. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, C1C41-C1C47.	1.2	6
154	Probing the Gas-Phase Dynamics of Graphene Chemical Vapour Deposition using in-situ UV Absorption Spectroscopy. Scientific Reports, 2017, 7, 6183.	3.3	6
155	Grapheneâ€“Si CMOS oscillators. Nanoscale, 2019, 11, 3619-3625.	5.6	6
156	Magnetic focusing in triangular electron billiards. Physical Review B, 1999, 59, 13067-13072.	3.2	5
157	Nanoscale soldering of positioned carbon nanotubes using highly conductive electron beam induced gold deposition. , 0, , .		5
158	Integrating nanotubes into microsystems with electron beam lithography and in situ catalytically activated growth. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 1094-1099.	1.8	5
159	Selective etching of IIIâ€“V nanowires for molecular junctions. Microelectronic Engineering, 2008, 85, 1179-1181.	2.4	5
160	Selective area oxidation of copper derived from chemical vapor deposited graphene microstructure. Nanotechnology, 2020, 31, 485603.	2.6	5
161	Chemical Vapor-Deposited Graphene on Ultraflat Copper Foils for van der Waals Hetero-Assembly. ACS Omega, 2022, 7, 22626-22632.	3.5	5
162	Integration of carbon nanotubes with controllable inclination angle into microsystems. Carbon, 2006, 44, 3030-3036.	10.3	4

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163	Optimization of FIB milling for rapid NEMS prototyping. Microelectronic Engineering, 2011, 88, 2671-2674.	2.4	4
164	Design of a micro-cartridge system for the robotic assembly of exchangeable AFM-probe tips. , 2013, , .		4
165	Black silicon maskless templates for carbon nanotube forests. Microelectronic Engineering, 2013, 104, 110-113.	2.4	4
166	Pattern recognition approach to quantify the atomic structure of graphene. Carbon, 2014, 74, 363-366.	10.3	4
167	Atomic Layer Deposition Aluminaâ€Mediated Graphene Transfer for Reduced Process Contamination. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900424.	2.4	4
168	Gate electrostatics and quantum capacitance in ballistic graphene devices. Physical Review B, 2019, 99, .	3.2	4
169	Polymer Cantilever Platform for Dielectrophoretic Assembly of Carbon Nanotubes. Sensor Letters, 2004, 2, 117-120.	0.4	4
170	Charge Injection and Transport in Organic Nanofibers. Journal of Physics: Conference Series, 2007, 61, 565-569.	0.4	3
171	Novel four-point-probe design and nanorobotic dual endeffector strategy for electrical characterization of as-grown SWCNT bundles. , 2010, , .		3
172	Out-of-plane bending based on SiN-ion-irradiation and bilayer structures for easy access for micromanipulation. Microelectronic Engineering, 2013, 110, 398-402.	2.4	3
173	Electronic Shells in Large Quantum Dots. , 1996, , 89-110.		3
174	Long-term stability and tree-ring oxidation of WSe₂ using phase-contrast AFM. Nanoscale, 2021, 13, 19238-19246.	5.6	3
175	Optical detection of ion diffusion in electrochromic poly(3,4-ethylenedioxy)thiophene film using microcantilever electrodes. Thin Solid Films, 2005, 484, 334-340.	1.8	2
176	MICROFABRICATED TOOLS FOR PICK-AND-PLACE OF NANOSCALE COMPONENTS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 120-126.	0.4	2
177	NanoHand: micro/nano system for automatic handling of nano-objects. Proceedings of SPIE, 2007, , .	0.8	2
178	Nanomanipulation of 2â€‰inch wafer fabrication of vertically aligned carbon nanotube arrays by nanoimprint lithography. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 2352-2356.	1.8	2
179	Micro-cantilevers for non-destructive characterization of nanograss uniformity. , 2011, , .		2
180	Carbon mediated reduction of silicon dioxide and growth of copper silicide particles in uniform width channels. Journal of Applied Physics, 2013, 114, 114303.	2.5	2

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181	Transfer of Direct and MoirÃ© Patterns by Reactive Ion Etching Through Ex Situ Fabricated Nanoporous Polymer Masks. Langmuir, 2015, 31, 6245-6252.	3.5	2
182	Universal Non-Volatile Resistive Switching Behavior in 2D Metal Dichalcogenides Featuring Unique Conductive-Point Random Access Memory Effect. , 2021, , .		2
183	Atomic Force Microscopy for Liquid Applications. , 2011, , 29-56.		2
184	Nonlinear current-voltage relationship in the quantum hall effect. Physica Scripta, 1997, T69, 124-127.	2.5	1
185	Soldering of Carbon Nanotube Bridges using Electron Beam Deposited Gold. Materials Research Society Symposia Proceedings, 2003, 772, 481.	0.1	1
186	Flexible SiO₂ cantilevers for torsional self-aligning micro scale four-point probes. Journal of Micromechanics and Microengineering, 2007, 17, 1910-1915.	2.6	1
187	Batch fabrication of nanotubes suspended between microelectrodes. Microelectronic Engineering, 2007, 84, 1431-1435.	2.4	1
188	Focused Ion Beam (FIB) Modification of Topology Optimized Polysilicon Microgrippers. , 2008, , .		1
189	Semiconducting IIIâ€“V nanowires with nanogaps for molecular junctions: DFT transport simulations. Nanotechnology, 2009, 20, 465401.	2.6	1
190	Microfabricated systems for electron microscopy of nanoscale processes: In-situ TEM creation of Si nanowire devices and in-situ SEM electrochemistry. Microscopy and Microanalysis, 2010, 16, 322-323.	0.4	1
191	Submicron organic nanofiber devices with different anode-cathode materials: A simple approach. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, 617-622.	1.2	1
192	In Situ Tuning of Focused-Ion-Beam Defined Nanomechanical Resonators Using Joule Heating. Journal of Microelectromechanical Systems, 2011, 20, 1074-1080.	2.5	1
193	Quantitative mapping of large area graphene conductance. , 2012, , .		1
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