

Ole Hansen

List of Publications by Year in descending order

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354
papers

11,949
citations

24978

57
h-index

35952

97
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360
all docs

360
docs citations

360
times ranked

13936
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioinspired molecular co-catalysts bonded to a silicon photocathode for solar hydrogen evolution. <i>Nature Materials</i> , 2011, 10, 434-438.	13.3	600
2	Strained silicon as a new electro-optic material. <i>Nature</i> , 2006, 441, 199-202.	13.7	599
3	Strategies for stable water splitting via protected photoelectrodes. <i>Chemical Society Reviews</i> , 2017, 46, 1933-1954.	18.7	427
4	Using TiO ₂ as a Conductive Protective Layer for Photocathodic H ₂ Evolution. <i>Journal of the American Chemical Society</i> , 2013, 135, 1057-1064.	6.6	426
5	Impact of nanoparticle size and lattice oxygen on water oxidation on NiFeOxHy. <i>Nature Catalysis</i> , 2018, 1, 820-829.	16.1	344
6	Hydrogen Production Using a Molybdenum Sulfide Catalyst on a Titanium-Protected Silicon Photocathode. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9128-9131.	7.2	289
7	Environmental sensors based on micromachined cantilevers with integrated read-out. <i>Ultramicroscopy</i> , 2000, 82, 11-16.	0.8	266
8	Enhanced Light-Matter Interactions in Graphene-Covered Gold Nanovoid Arrays. <i>Nano Letters</i> , 2013, 13, 4690-4696.	4.5	204
9	Mass and position determination of attached particles on cantilever based mass sensors. <i>Review of Scientific Instruments</i> , 2007, 78, 103303.	0.6	179
10	Undoped and <i>in-situ</i> B doped GeSn epitaxial growth on Ge by atmospheric pressure-chemical vapor deposition. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	168
11	Optimised cantilever biosensor with piezoresistive read-out. <i>Ultramicroscopy</i> , 2003, 97, 371-376.	0.8	167
12	Scalability and feasibility of photoelectrochemical H ₂ evolution: the ultimate limit of Pt nanoparticle as an HER catalyst. <i>Energy and Environmental Science</i> , 2015, 8, 2991-2999.	15.6	162
13	Graphene Conductance Uniformity Mapping. <i>Nano Letters</i> , 2012, 12, 5074-5081.	4.5	152
14	Atomic force microscopy probe with piezoresistive read-out and a highly symmetrical Wheatstone bridge arrangement. <i>Sensors and Actuators A: Physical</i> , 2000, 83, 47-53.	2.0	146
15	Optimization of sensitivity and noise in piezoresistive cantilevers. <i>Journal of Applied Physics</i> , 2002, 92, 6296-6301.	1.1	141
16	A microcantilever-based alcohol vapor sensor-application and response model. <i>Applied Physics Letters</i> , 2000, 76, 2615-2617.	1.5	140
17	Magnetic separation in microfluidic systems using microfabricated electromagnets' experiments and simulations. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 293, 597-604.	1.0	133
18	2-Photon tandem device for water splitting: comparing photocathode first <i>versus</i> photoanode first designs. <i>Energy and Environmental Science</i> , 2014, 7, 2397-2413.	15.6	130

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19	Selective filling of photonic crystal fibers using focused ion beam milled microchannels. Optics Express, 2011, 19, 17585.	1.7	124
20	What is the band alignment of Cu ₂ ZnSn(S,Se) 4 solar cells?. Solar Energy Materials and Solar Cells, 2017, 169, 177-194.	3.0	124
21	Electrostatic energy harvesting device with out-of-the-plane gap closing scheme. Sensors and Actuators A: Physical, 2014, 211, 131-137.	2.0	121
22	Fabrication and characterization of nanoresonating devices for mass detection. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2000, 18, 612.	1.6	116
23	Experimental observation of plasmons in a graphene monolayer resting on a two-dimensional subwavelength silicon grating. Applied Physics Letters, 2013, 102, .	1.5	109
24	Silicon protected with atomic layer deposited TiO ₂ : durability studies of photocathodic H ₂ evolution. RSC Advances, 2013, 3, 25902.	1.7	104
25	Bi-resonant structure with piezoelectric PVDF films for energy harvesting from random vibration sources at low frequency. Sensors and Actuators A: Physical, 2016, 247, 547-554.	2.0	104
26	Electro-thermally actuated microgrippers with integrated force-feedback. Journal of Micromechanics and Microengineering, 2005, 15, 1265-1270.	1.5	99
27	Protection of p ⁺ -n-Si Photoanodes by Sputter-Deposited Ir/IrO ₂ Thin Films. Journal of Physical Chemistry Letters, 2014, 5, 1948-1952.	2.1	97
28	Catalytic ammonia decomposition: miniaturized production of CO-free hydrogen for fuel cells. Catalysis Communications, 2005, 6, 229-232.	1.6	94
29	Iron-Treated NiO as a Highly Transparent p-Type Protection Layer for Efficient Si-Based Photoanodes. Journal of Physical Chemistry Letters, 2014, 5, 3456-3461.	2.1	93
30	Modeling and Optimization of an Electrostatic Energy Harvesting Device. Journal of Microelectromechanical Systems, 2014, 23, 1141-1155.	1.7	92
31	Sulfide perovskites for solar energy conversion applications: computational screening and synthesis of the selected compound LaYS ₃ . Energy and Environmental Science, 2017, 10, 2579-2593.	15.6	91
32	MoS ₂ as an integrated protective and active layer on n+p-Si for solar H ₂ evolution. Physical Chemistry Chemical Physics, 2013, 15, 20000.	1.3	89
33	Scanning microscopic four-point conductivity probes. Sensors and Actuators A: Physical, 2002, 96, 53-58.	2.0	87
34	Atomic Layer Deposition of Ruthenium with TiN Interface for Sub-10 nm Advanced Interconnects beyond Copper. ACS Applied Materials & Interfaces, 2016, 8, 26119-26125.	4.0	87
35	Surface-directed capillary system; theory, experiments and applications. Lab on A Chip, 2005, 5, 827.	3.1	85
36	Crystalline TiO ₂ : A Generic and Effective Electron-Conducting Protection Layer for Photoanodes and -cathodes. Journal of Physical Chemistry C, 2015, 119, 15019-15027.	1.5	85

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37	Ultra-thin Cu ₂ ZnSnS ₄ solar cell by pulsed laser deposition. Solar Energy Materials and Solar Cells, 2017, 166, 91-99.	3.0	83
38	AFM probes with directly fabricated tips. Journal of Micromechanics and Microengineering, 1996, 6, 58-62.	1.5	81
39	Thermal stability of vapor phase deposited self-assembled monolayers for MEMS anti-stiction. Journal of Micromechanics and Microengineering, 2006, 16, 2259-2264.	1.5	79
40	Vapor-Phase Self-Assembled Monolayers for Anti-Stiction Applications in MEMS. Journal of Microelectromechanical Systems, 2007, 16, 1451-1460.	1.7	77
41	Discrete Dynamics of Nanoparticle Channelling in Suspended Graphene. Nano Letters, 2011, 11, 2689-2692.	4.5	77
42	Screen printed PZT/PZT thick film bimorph MEMS cantilever device for vibration energy harvesting. Sensors and Actuators A: Physical, 2012, 188, 383-388.	2.0	77
43	Back-illuminated Si photocathode: a combined experimental and theoretical study for photocatalytic hydrogen evolution. Energy and Environmental Science, 2015, 8, 650-660.	15.6	76
44	Micro-four-point probe Hall effect measurement method. Journal of Applied Physics, 2008, 104, .	1.1	74
45	Electrically Continuous Graphene from Single Crystal Copper Verified by Terahertz Conductance Spectroscopy and Micro Four-Point Probe. Nano Letters, 2014, 14, 6348-6355.	4.5	74
46	Gas phase photocatalytic water splitting with Rh ₂ CrO ₃ /GaN:ZnO in 1/4-reactors. Energy and Environmental Science, 2011, 4, 2937.	15.6	71
47	An electret-based energy harvesting device with a wafer-level fabrication process. Journal of Micromechanics and Microengineering, 2013, 23, 114010.	1.5	70
48	AFM lithography of aluminum for fabrication of nanomechanical systems. Ultramicroscopy, 2003, 97, 467-472.	0.8	67
49	MEMS device for bending test: measurements of fatigue and creep of electroplated nickel. Sensors and Actuators A: Physical, 2003, 103, 156-164.	2.0	67
50	Electroplating and characterization of cobalt-nickel-iron and nickel-iron for magnetic microsystems applications. Sensors and Actuators A: Physical, 2001, 92, 242-248.	2.0	64
51	Flame spray deposition of porous catalysts on surfaces and in microsystems. Journal of Catalysis, 2004, 223, 271-277.	3.1	63
52	Dielectric function and double absorption onset of monoclinic Cu ₂ SnS ₃ : Origin of experimental features explained by first-principles calculations. Solar Energy Materials and Solar Cells, 2016, 154, 121-129.	3.0	62
53	Noise in piezoresistive atomic force microscopy. Nanotechnology, 1999, 10, 51-60.	1.3	61
54	Black silicon laser-doped selective emitter solar cell with 18.1% efficiency. Solar Energy Materials and Solar Cells, 2016, 144, 740-747.	3.0	61

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55	Comparison of the Performance of CoP-Coated and Pt-Coated Radial Junction n ⁺ p-Silicon Microwire-Array Photocathodes for the Sunlight-Driven Reduction of Water to H ₂ (g). Journal of Physical Chemistry Letters, 2015, 6, 1679-1683.	2.1	60
56	Microelectromagnet for magnetic manipulation in lab-on-a-chip systems. Journal of Magnetism and Magnetic Materials, 2006, 300, 418-426.	1.0	59
57	Highly sensitive micromachined capacitive pressure sensor with reduced hysteresis and low parasitic capacitance. Sensors and Actuators A: Physical, 2009, 154, 35-41.	2.0	58
58	Promoted Ru on high-surface area graphite for efficient miniaturized production of hydrogen from ammonia. Catalysis Letters, 2006, 112, 77-81.	1.4	57
59	Accurate microfour-point probe sheet resistance measurements on small samples. Review of Scientific Instruments, 2009, 80, 053902.	0.6	55
60	Piezoresistance of silicon and strained Si _{0.9} Ge _{0.1} . Sensors and Actuators A: Physical, 2005, 123-124, 388-396.	2.0	53
61	Enabling real-time detection of electrochemical desorption phenomena with sub-monolayer sensitivity. Electrochimica Acta, 2018, 268, 520-530.	2.6	53
62	Piezoresistance in p-type silicon revisited. Journal of Applied Physics, 2008, 104, .	1.1	52
63	Protection of Si photocathode using TiO ₂ deposited by high power impulse magnetron sputtering for H ₂ evolution in alkaline media. Solar Energy Materials and Solar Cells, 2016, 144, 758-765.	3.0	52
64	Silicon protected with atomic layer deposited TiO ₂ : conducting versus tunnelling through TiO ₂ . Journal of Materials Chemistry A, 2013, 1, 15089.	5.2	51
65	Autonomous multi-sensor micro-system for measurement of ocean water salinity. Sensors and Actuators A: Physical, 2008, 147, 474-484.	2.0	48
66	Parallel Evaluation of the Bi ₃ , BiOI, and Ag ₃ Bi ₆ Layered Photoabsorbers. Chemistry of Materials, 2020, 32, 3385-3395.	3.2	48
67	Investigations of the isotropic etch of an ICP source for silicon microlens mold fabrication. Journal of Micromechanics and Microengineering, 2005, 15, 873-882.	1.5	47
68	Highly sensitive silicon microreactor for catalyst testing. Review of Scientific Instruments, 2009, 80, 124101.	0.6	45
69	Suppression of the water splitting back reaction on GaN:ZnO photocatalysts loaded with core/shell cocatalysts, investigated using a 1/4-reactor. Journal of Catalysis, 2012, 292, 26-31.	3.1	45
70	Monolithic integration of mass sensing nano-cantilevers with CMOS circuitry. Sensors and Actuators A: Physical, 2003, 105, 311-319.	2.0	43
71	Analysis of small deflection touch mode behavior in capacitive pressure sensors. Sensors and Actuators A: Physical, 2010, 161, 114-119.	2.0	41
72	Photocatalytic methane decomposition over vertically aligned transparent TiO ₂ nanotube arrays. Chemical Communications, 2011, 47, 2613.	2.2	41

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73	Deposition of methylammonium iodide via evaporation – combined kinetic and mass spectrometric study. RSC Advances, 2018, 8, 29899-29908.	1.7	41
74	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.	0.6	40
75	Fabrication and characterization of MEMS-based PZT/PZT bimorph thick film vibration energy harvesters. Journal of Micromechanics and Microengineering, 2012, 22, 094007.	1.5	38
76	Energy band alignment at the heterointerface between CdS and Ag-alloyed CZTS. Scientific Reports, 2020, 10, 18388.	1.6	37
77	Invisible Surface Charge Pattern on Inorganic Electrets. IEEE Electron Device Letters, 2013, 34, 1047-1049.	2.2	35
78	Interface band gap narrowing behind open circuit voltage losses in Cu ₂ ZnSnS ₄ solar cells. Applied Physics Letters, 2017, 110, .	1.5	35
79	How the relative permittivity of solar cell materials influences solar cell performance. Solar Energy, 2017, 149, 145-150.	2.9	35
80	Temperature dependent photoreflectance study of Cu ₂ SnS ₃ thin films produced by pulsed laser deposition. Applied Physics Letters, 2017, 110, .	1.5	35
81	Carrier-selective p- and n-contacts for efficient and stable photocatalytic water reduction. Catalysis Today, 2017, 290, 59-64.	2.2	35
82	Persistent Double-Layer Formation in Kesterite Solar Cells: A Critical Review. ACS Applied Materials & Interfaces, 2020, 12, 39405-39424.	4.0	35
83	Cantilever surface stress sensors with single-crystalline silicon piezoresistors. Applied Physics Letters, 2005, 86, 203502.	1.5	34
84	Gas-phase photocatalysis in 1/4-reactors. Chemical Engineering Journal, 2010, 160, 738-741.	6.6	34
85	In Situ TEM Creation and Electrical Characterization of Nanowire Devices. Nano Letters, 2012, 12, 2965-2970.	4.5	34
86	Monolithic thin-film chalcogenide-silicon tandem solar cells enabled by a diffusion barrier. Solar Energy Materials and Solar Cells, 2020, 207, 110334.	3.0	34
87	Electron inelastic mean free path in water. Nanoscale, 2020, 12, 20649-20657.	2.8	34
88	Fabrication of submicron suspended structures by laser and atomic force microscopy lithography on aluminum combined with reactive ion etching. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1998, 16, 2977.	1.6	33
89	Piezoresistive effect in top-down fabricated silicon nanowires. Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS), 2008, , .	0.0	33
90	Reactive ion etching of polymer materials for an energy harvesting device. Microelectronic Engineering, 2012, 97, 227-230.	1.1	33

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91	Photothermal Infrared Spectroscopy of Airborne Samples with Mechanical String Resonators. Analytical Chemistry, 2013, 85, 10531-10535.	3.2	33
92	Ultra Shallow Arsenic Junctions in Germanium Formed by Millisecond Laser Annealing. Electrochemical and Solid-State Letters, 2011, 14, H39.	2.2	32
93	A stretch-tunable plasmonic structure with a polarization-dependent response. Optics Express, 2012, 20, 5237.	1.7	32
94	Lattice-matched Cu ₂ ZnSnS ₄ /CeO ₂ solar cell with open circuit voltage boost. Applied Physics Letters, 2016, 109, .	1.5	32
95	Shining Light on Sulfide Perovskites: LaYS ₃ Material Properties and Solar Cells. Chemistry of Materials, 2019, 31, 3359-3369.	3.2	32
96	Field-Induced Deformation as a Mechanism for Scanning Tunneling Microscopy Based Nanofabrication. Physical Review Letters, 1998, 81, 5572-5575.	2.9	31
97	Microfabricated high-temperature reactor for catalytic partial oxidation of methane. Applied Catalysis A: General, 2005, 284, 5-10.	2.2	31
98	SU-8 etching in inductively coupled oxygen plasma. Microelectronic Engineering, 2013, 112, 35-40.	1.1	31
99	Cantilever based mass sensor with hard contact readout. Applied Physics Letters, 2006, 88, 264104.	1.5	30
100	Dielectrophoresis microsystem with integrated flow cytometers for on-line monitoring of sorting efficiency. Electrophoresis, 2006, 27, 5081-5092.	1.3	29
101	Resolution enhancement of scanning four-point-probe measurements on two-dimensional systems. Review of Scientific Instruments, 2003, 74, 3701-3708.	0.6	27
102	Micro-four-point-probe characterization of nanowires fabricated using the nanostencil technique. Nanotechnology, 2004, 15, 1363-1367.	1.3	27
103	Four point bending setup for characterization of semiconductor piezoresistance. Review of Scientific Instruments, 2008, 79, 044703.	0.6	27
104	Quantitative Measurements of Photocatalytic CO-Oxidation as a Function of Light Intensity and Wavelength over TiO ₂ Nanotube Thin Films in μ -Reactors. Journal of Physical Chemistry C, 2010, 114, 11162-11168.	1.5	27
105	Low surface damage dry etched black silicon. Journal of Applied Physics, 2017, 122, .	1.1	27
106	Large process-dependent variations in band alignment and interface band gaps of Cu ₂ ZnSnS ₄ /CdS solar cells. Solar Energy Materials and Solar Cells, 2018, 187, 233-240.	3.0	27
107	Design of a silicon microphone with differential read-out of a sealed double parallel-plate capacitor. Sensors and Actuators A: Physical, 1996, 53, 232-236.	2.0	25
108	Static contact micro four-point probes with \pm 11nm positioning repeatability. Microelectronic Engineering, 2008, 85, 1092-1095.	1.1	25

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109	On the analysis of the activation mechanisms of sub-melt laser anneals. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008, 154-155, 24-30.	1.7	25
110	Silicon as an anisotropic mechanical material: Deflection of thin crystalline plates. <i>Sensors and Actuators A: Physical</i> , 2014, 220, 347-364.	2.0	25
111	Mechanical Properties of Organic Nanofibers. <i>Small</i> , 2006, 2, 660-666.	5.2	24
112	Mo ₃ S ₄ Clusters as an Effective H ₂ Evolution Catalyst on Protected Si Photocathodes. <i>Journal of the Electrochemical Society</i> , 2014, 161, H722-H724.	1.3	24
113	Durability Testing of Photoelectrochemical Hydrogen Production under Day/Night Light Cycled Conditions. <i>ChemElectroChem</i> , 2019, 6, 106-109.	1.7	24
114	Cell volume increase in murine MC3T3-E1 pre-osteoblasts attaching onto biocompatible Tantalum observed by magnetic AC mode Atomic Force Microscopy. , 2005, 10, 61-69.		24
115	Microcantilever equipped with nanowire template electrodes for multiprobe measurement on fragile nanostructures. <i>Journal of Applied Physics</i> , 2004, 96, 2895-2900.	1.1	23
116	Characterization of the microloading effect in deep reactive ion etching of silicon. , 2004, , .		23
117	Study of the Roughness in a Photoresist Masked, Isotropic, SF ₆ -Based ICP Silicon Etch. <i>Journal of the Electrochemical Society</i> , 2006, 153, G1051.	1.3	23
118	Fast thermal nanoimprint lithography by a stamp with integrated heater. <i>Microelectronic Engineering</i> , 2008, 85, 1229-1232.	1.1	23
119	Analytical Model of a PZT Thick-Film Triaxial Accelerometer for Optimum Design. <i>IEEE Sensors Journal</i> , 2009, 9, 419-429.	2.4	23
120	A generic model for photocatalytic activity as a function of catalyst thickness. <i>Journal of Catalysis</i> , 2012, 289, 62-72.	3.1	23
121	Resonant MEMS Tunable VCSEL. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013, 19, 1702306-1702306.	1.9	23
122	Wide Band Gap Cu ₂ SrSnS ₄ Solar Cells from Oxide Precursors. <i>ACS Applied Energy Materials</i> , 2019, 2, 7340-7344.	2.5	23
123	Low-temperature anodic bonding to silicon nitride. <i>Sensors and Actuators A: Physical</i> , 2000, 82, 249-253.	2.0	22
124	Photoelectrocatalysis and electrocatalysis on silicon electrodes decorated with cubane-like clusters. <i>Journal of Photonics for Energy</i> , 2012, 2, 026001.	0.8	22
125	Thermodynamics of photon-enhanced thermionic emission solar cells. <i>Applied Physics Letters</i> , 2014, 104, 023902.	1.5	22
126	Fast and sensitive method for detecting volatile species in liquids. <i>Review of Scientific Instruments</i> , 2015, 86, 075006.	0.6	22

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127	Back-Illuminated Si-Based Photoanode with Nickel Cobalt Oxide Catalytic Protection Layer. ChemElectroChem, 2016, 3, 1546-1552.	1.7	22
128	Nanomechanical Infrared Spectroscopy with Vibrating Filters for Pharmaceutical Analysis. Angewandte Chemie - International Edition, 2017, 56, 3901-3905.	7.2	22
129	A Flexible Web-Based Approach to Modeling Tandem Photocatalytic Devices. Solar Rrl, 2017, 1, e201600013.	3.1	22
130	Combined laser and atomic force microscope lithography on aluminum: Mask fabrication for nanoelectromechanical systems. Applied Physics Letters, 1999, 74, 3206-3208.	1.5	21
131	A comparison of detailed level and superconfiguration models of neon. Journal of Quantitative Spectroscopy and Radiative Transfer, 2006, 99, 272-282.	1.1	21
132	Note: Anodic bonding with cooling of heat-sensitive areas. Review of Scientific Instruments, 2010, 81, 016111.	0.6	21
133	Field Effect in Graphene-Based van der Waals Heterostructures: Stacking Sequence Matters. Nano Letters, 2017, 17, 2660-2666.	4.5	21
134	Diffusion in a short base. Solid-State Electronics, 1994, 37, 1663-1669.	0.8	20
135	Micromachined AFM transducer with differential capacitive read-out. Journal of Micromechanics and Microengineering, 1995, 5, 161-165.	1.5	20
136	Micromachined double backplate differential capacitive microphone. Journal of Micromechanics and Microengineering, 1999, 9, 30-33.	1.5	20
137	Angle resolved characterization of nanostructured and conventionally textured silicon solar cells. Solar Energy Materials and Solar Cells, 2015, 140, 134-140.	3.0	20
138	On performance limitations and property correlations of Al-doped ZnO deposited by radio-frequency sputtering. Journal Physics D: Applied Physics, 2016, 49, 295101.	1.3	20
139	Generation of micro-droplet arrays by dip-coating of biphilic surfaces; the dependence of entrained droplet volume on withdrawal velocity. Scientific Reports, 2017, 7, 12794.	1.6	20
140	Semitransparent Selenium Solar Cells as a Top Cell for Tandem Photovoltaics. Solar Rrl, 2021, 5, 2100111.	3.1	20
141	New approaches to atomic force microscope lithography on silicon. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1997, 15, 2912.	1.6	19
142	Optical properties and surface characterization of pulsed laser-deposited Cu ₂ ZnSnS ₄ by spectroscopic ellipsometry. Thin Solid Films, 2015, 582, 203-207.	0.8	19
143	Surface passivation and carrier selectivity of the thermal-atomic-layer-deposited TiO ₂ on crystalline silicon. Japanese Journal of Applied Physics, 2017, 56, 08MA11.	0.8	19
144	Low temperature bonding of heterogeneous materials using Al ₂ O ₃ as an intermediate layer. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2018, 36, 011202.	0.6	19

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145	Nitride-Based Interfacial Layers for Monolithic Tandem Integration of New Solar Energy Materials on Si: The Case of CZTS. ACS Applied Energy Materials, 2020, 3, 4600-4609.	2.5	19
146	Impedance Based Characterization of a High-Coupled Screen Printed PZT Thick Film Unimorph Energy Harvester. Journal of Microelectromechanical Systems, 2014, 23, 842-854.	1.7	18
147	Balanced membrane micromachined loudspeaker for hearing instrument application. Journal of Micromechanics and Microengineering, 2001, 11, 334-338.	1.5	17
148	Microsystem with integrated capillary leak to mass spectrometer for high sensitivity temperature programmed desorption. Review of Scientific Instruments, 2004, 75, 3345-3347.	0.6	17
149	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.	0.6	17
150	Tracking neuronal marker expression inside living differentiating cells using molecular beacons. Frontiers in Cellular Neuroscience, 2013, 7, 266.	1.8	17
151	Synthesis of ligand-free CZTS nanoparticles via a facile hot injection route. Nanotechnology, 2016, 27, 185603.	1.3	17
152	Thermal radiation dominated heat transfer in nanomechanical silicon nitride drum resonators. Applied Physics Letters, 2020, 117, .	1.5	17
153	Oxide route for production of Cu ₂ ZnSnS ₄ solar cells by pulsed laser deposition. Solar Energy Materials and Solar Cells, 2020, 215, 110605.	3.0	17
154	Atomic force microscope characterization of a resonating nanocantilever. Ultramicroscopy, 2003, 97, 127-133.	0.8	16
155	MEMS Bragg grating force sensor. Optics Express, 2011, 19, 19190.	1.7	16
156	Creating New VLS Silicon Nanowire Contact Geometries by Controlling Catalyst Migration. Nano Letters, 2015, 15, 6535-6541.	4.5	16
157	Fast & scalable pattern transfer via block copolymer nanolithography. RSC Advances, 2015, 5, 102619-102624.	1.7	16
158	Full-field hard x-ray microscopy with interdigitated silicon lenses. Optics Communications, 2016, 359, 460-464.	1.0	16
159	Spatial and temporal changes in the morphology of preosteoblastic cells seeded on microstructured tantalum surfaces. Journal of Biomedical Materials Research - Part A, 2009, 89A, 885-894.	2.1	15
160	Systematic study of shallow junction formation on germanium substrates. Microelectronic Engineering, 2011, 88, 347-350.	1.1	15
161	Selenium Thin-Film Solar Cells with Cadmium Sulfide as a Heterojunction Partner. ACS Applied Energy Materials, 2021, 4, 10697-10702.	2.5	15
162	Single-shot, omni-directional x-ray scattering imaging with a laboratory source and single-photon localization. Optics Letters, 2020, 45, 1021.	1.7	15

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163	Temperature effects in Au piezoresistors integrated in SU-8 cantilever chips. Journal of Micromechanics and Microengineering, 2006, 16, 2564-2569.	1.5	14
164	Fundamental size limitations of micro four-point probes. Microelectronic Engineering, 2009, 86, 987-990.	1.1	14
165	A MEMS Energy Harvesting Device for Vibration with Low Acceleration. Procedia Engineering, 2012, 47, 770-773.	1.2	14
166	Sensitivity of resistive and Hall measurements to local inhomogeneities: Finite-field, intensity, and area corrections. Journal of Applied Physics, 2014, 116, 133706.	1.1	14
167	Removal of low concentration contaminant species using photocatalysis: Elimination of ethene to sub-ppm levels with and without water vapor present. Chemical Engineering Journal, 2015, 262, 648-657.	6.6	14
168	Indirect tip fabrication for Scanning Probe Microscopy. Microelectronic Engineering, 1996, 30, 579-582.	1.1	13
169	FISH & CHIPS: Four Electrode Conductivity / Salinity Sensor on a Silicon Multi-Sensor Chip for Fisheries Research. , 0, .		13
170	Rate enhancement in microfabricated chemical reactors under fast forced temperature oscillations. Catalysis Communications, 2006, 7, 272-275.	1.6	13
171	Broadband light-extraction enhanced by arrays of whispering gallery resonators. Applied Physics Letters, 2012, 101, .	1.5	13
172	Self-sustained carbon monoxide oxidation oscillations on size-selected platinum nanoparticles at atmospheric pressure. Physical Chemistry Chemical Physics, 2013, 15, 2698.	1.3	13
173	Revealing origin of quasi-one dimensional current transport in defect rich two dimensional materials. Applied Physics Letters, 2014, 105, .	1.5	13
174	CMUT Electrode Resistance Design: Modeling and Experimental Verification by a Row-Column Array. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 1110-1118.	1.7	13
175	Ta ₂ Back Contact Improving Oxide-Converted Cu ₂ BaSnS ₄ Solar Cells. ACS Applied Energy Materials, 2020, 3, 1190-1198.	2.5	13
176	On the Enhanced Phosphorus Doping of Nanotextured Black Silicon. IEEE Journal of Photovoltaics, 2021, 11, 298-305.	1.5	13
177	Ultralarge area MOS tunnel devices for electron emission. Physical Review B, 2007, 76, .	1.1	12
178	Microgrippers: a case study for batch-compatible integration of MEMS with nanostructures. Nanotechnology, 2007, 18, 375501.	1.3	12
179	Correlation of Effective Dispersive and Polar Surface Energies in Heterogeneous Self-Assembled Monolayer Coatings. Langmuir, 2009, 25, 5437-5441.	1.6	12
180	High quantum efficiency annular backside silicon photodiodes for reflectance pulse oximetry in wearable wireless body sensors. Journal of Micromechanics and Microengineering, 2010, 20, 075020.	1.5	12

#	ARTICLE	IF	CITATIONS
181	Sensitivity of resistive and Hall measurements to local inhomogeneities. Journal of Applied Physics, 2013, 114, .	1.1	12
182	Formation of copper tin sulfide films by pulsed laser deposition at 248 and 355Ånm. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	12
183	Thermal stability of highly Sb-doped molecular beam epitaxy silicon grown at low temperatures: Structural and electrical characterization. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1994, 12, 3016.	1.6	11
184	Cold-walled UHV/CVD batch reactor for the growth of Si ¹¹⁶ xGex layers. Thin Solid Films, 1997, 294, 72-75.	0.8	11
185	Noise and sensitivity in polysilicon piezoresistive cantilevers. Chinese Physics B, 2001, 10, 918-923.	1.3	11
186	Magnetic flux generator for balanced membrane loudspeaker. Sensors and Actuators A: Physical, 2002, 97-98, 61-67.	2.0	11
187	Fabrication and modeling of narrow capillaries for vacuum system gas inlets. Journal of Applied Physics, 2005, 97, 044906.	1.1	11
188	Forced thermal cycling of catalytic reactions: Experiments and modelling. Catalysis Communications, 2007, 8, 1985-1990.	1.6	11
189	High precision micro-scale Hall effect characterization method using in-line micro four-point probes. , 2008, , .		11
190	Fusion bonding of silicon nitride surfaces. Journal of Micromechanics and Microengineering, 2011, 21, 125015.	1.5	11
191	On the pathway of photoexcited electrons: probing photon-to-electron and photon-to-phonon conversions in silicon by ATR-IR. Physical Chemistry Chemical Physics, 2012, 14, 10882.	1.3	11
192	Sacrificial structures for deep reactive ion etching of high-aspect ratio kinoform silicon x-ray lenses. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2015, 33, 062001.	0.6	11
193	Photoluminescence Imaging Induced by Laser Line Scan: Study for Outdoor Field Inspections. , 2018, , .		11
194	Black Silicon With Ultra-Low Surface Recombination Velocity Fabricated by Inductively Coupled Power Plasma. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800477.	1.2	11
195	Wireless Photoelectrochemical Water Splitting Using Triple-Junction Solar Cell Protected by TiO ₂ . Cell Reports Physical Science, 2020, 1, 100261.	2.8	11
196	Terahertz radiation from delta-doped GaAs. Applied Physics Letters, 1994, 65, 79-81.	1.5	10
197	A compact system for large-area thermal nanoimprint lithography using smart stamps. Journal of Micromechanics and Microengineering, 2008, 18, 055018.	1.5	10
198	Investigation of Cu ₂ ZnSnS ₄ nanoparticles for thin-film solar cell applications. Thin Solid Films, 2017, 628, 163-169.	0.8	10

#	ARTICLE	IF	CITATIONS
199	Breakthrough in current-in-plane tunneling measurement precision by application of multi-variable fitting algorithm. Review of Scientific Instruments, 2017, 88, 095005.	0.6	10
200	Evaluation of the capacitive behavior of 3D carbon electrodes for sub-retinal photovoltaic prosthesis. Micro and Nano Engineering, 2019, 2, 110-116.	1.4	10
201	Virtual subpixel approach for single-mask phase-contrast imaging using Timepix3. Journal of Instrumentation, 2019, 14, C01011-C01011.	0.5	10
202	Anomalous activation of shallow B+ implants in Ge. Materials Letters, 2011, 65, 3540-3543.	1.3	9
203	Evaporation of Water Droplets on "Lock-and-Key" Structures with Nanoscale Features. Langmuir, 2012, 28, 9201-9205.	1.6	9
204	Sensitivity analysis explains quasi-one-dimensional current transport in two-dimensional materials. Physical Review B, 2014, 90, .	1.1	9
205	Three-dimensional nanometrology of microstructures by replica molding and large-range atomic force microscopy. Microelectronic Engineering, 2015, 141, 6-11.	1.1	9
206	Fabrication of Ni stamp with high aspect ratio, two-leveled, cylindrical microstructures using dry etching and electroplating. Journal of Micromechanics and Microengineering, 2015, 25, 055021.	1.5	9
207	Gold Nanoparticle-Based Sensors Activated by External Radio Frequency Fields. Small, 2015, 11, 248-256.	5.2	9
208	Mesoscopic current transport in two-dimensional materials with grain boundaries: Four-point probe resistance and Hall effect. Journal of Applied Physics, 2016, 120, .	1.1	9
209	H_{2}/D_{2} exchange reaction on mono-disperse Pt clusters: enhanced activity from minute O_{2} concentrations. Catalysis Science and Technology, 2016, 6, 6893-6900.	2.1	9
210	Deep reactive ion etching of "grass-free"™ widely-spaced periodic 2D arrays, using sacrificial structures. Microelectronic Engineering, 2020, 223, 111228.	1.1	9
211	Devices for fatigue testing of electroplated nickel (MEMS). , 0, , .		8
212	Fish & chips: single chip silicon mems ctdl salinity, temperature, pressure and light sensor for use in fisheries research. , 0, , .		8
213	Fast micro Hall effect measurements on small pads. Journal of Applied Physics, 2011, 110, 033707.	1.1	8
214	Void-free direct bonding of CMUT arrays with single crystalline plates and pull-in insulation. , 2013, , .		8
215	Optimizing shape uniformity and increasing structure heights of deep reactive ion etched silicon x-ray lenses. Journal of Micromechanics and Microengineering, 2015, 25, 125013.	1.5	8
216	A quick look at how photoelectrodes work. Science, 2015, 350, 1030-1031.	6.0	8

#	ARTICLE	IF	CITATIONS
217	Direct bonding of ALD Al ₂ O ₃ to silicon nitride thin films. <i>Microelectronic Engineering</i> , 2017, 176, 71-74.	1.1	8
218	Tunable MEMS VCSEL on Silicon Substrate. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019, 25, 1-7.	1.9	8
219	Spin-coated $\text{Cu}_2\text{ZnSnS}_4$ solar cells: A study on the transformation from ink to film. <i>Scientific Reports</i> , 2020, 10, 20749.	1.6	8
220	Spatial variation of the etch rate for deep etching of silicon by reactive ion etching. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1997, 15, 993.	1.6	7
221	Uniformity-improving dummy structures for deep reactive ion etching (DRIE) processes. , 2005, 5715, 39.		7
222	Electron emission from ultralarge area metal-oxide-semiconductor electron emitters. <i>Journal of Vacuum Science & Technology B</i> , 2009, 27, 562.	1.3	7
223	Junction leakage measurements with micro four-point probes. <i>AIP Conference Proceedings</i> , 2012, , .	0.3	7
224	A transparent Pyrex 1/4-reactor for combined in situ optical characterization and photocatalytic reactivity measurements. <i>Review of Scientific Instruments</i> , 2013, 84, 103910.	0.6	7
225	Back-illuminated Si-Based Photoanode with Nickel Cobalt Oxide Catalytic Protection Layer. <i>ChemElectroChem</i> , 2016, 3, 1517-1517.	1.7	7
226	Semiconductor band alignment from first principles: A new nonequilibrium Green's function method applied to the CZTSe/CdS interface for photovoltaics. , 2016, , .		7
227	Width-Dependent Sheet Resistance of Nanometer-Wide Si Fins as Measured with Micro Four-Point Probe. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700857.	0.8	7
228	Fabrication of an all-metal atomic force microscope probe. , 0, , .		6
229	Oxidation of methane over a Rh/Al ₂ O ₃ catalyst using microfabricated reactors with integrated heating. <i>Journal of Catalysis</i> , 2006, 241, 74-82.	3.1	6
230	Electrical characterization of InGaAs ultra-shallow junctions. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010, 28, C1C41-C1C47.	0.6	6
231	Electroless porous silicon formation applied to fabrication of boron-silica-glass cantilevers. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 015034.	1.5	6
232	Modeling and measurements of CMUTs with square anisotropic plates. , 2013, , .		6
233	Modal radiation patterns of baffled circular plates and membranes. <i>Journal of the Acoustical Society of America</i> , 2014, 135, 2523-2533.	0.5	6
234	Precision of single-engage micro Hall effect measurements. , 2014, , .		6

#	ARTICLE	IF	CITATIONS
235	Nanoporous gyroid TiO ₂ and SnO ₂ by melt infiltration of block copolymer templates. <i>Microporous and Mesoporous Materials</i> , 2015, 210, 161-168.	2.2	6
236	Probing the Gas-Phase Dynamics of Graphene Chemical Vapour Deposition using in-situ UV Absorption Spectroscopy. <i>Scientific Reports</i> , 2017, 7, 6183.	1.6	6
237	3 σ correction method for eliminating resistance measurement error due to Joule heating. <i>Review of Scientific Instruments</i> , 2021, 92, 094711.	0.6	6
238	Nanocantilever based mass sensor integrated with CMOS circuitry. , 0, , .		5
239	Mechanical Characterization and Design of Flexible Silicon Microstructures. <i>Journal of Microelectromechanical Systems</i> , 2004, 13, 452-464.	1.7	5
240	Piezoresistance in Strained Silicon and Strained Silicon Germanium. <i>Materials Research Society Symposia Proceedings</i> , 2006, 958, 1.	0.1	5
241	Impact of multiple sub-melt laser scans on the activation and diffusion of shallow Boron junctions. , 2008, , .		5
242	Surface enhanced Raman spectroscopy on chip. <i>Proceedings of SPIE</i> , 2008, , .	0.8	5
243	Subsurface excitations in a metal. <i>Physical Review B</i> , 2009, 80, .	1.1	5
244	Three-way flexible cantilever probes for static contact. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 085003.	1.5	5
245	High mass resolution time of flight mass spectrometer for measuring products in heterogeneous catalysis in highly sensitive microreactors. <i>Review of Scientific Instruments</i> , 2012, 83, 075105.	0.6	5
246	Electrostatic energy harvesting device with out-of-the-plane gap closing scheme. , 2013, , .		5
247	Two-phase model of hydrogen transport to optimize nanoparticle catalyst loading for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 7568-7581.	3.8	5
248	Optimized electrode configuration for current-in-plane characterization of magnetic tunnel junction stacks. <i>Measurement Science and Technology</i> , 2017, 28, 025012.	1.4	5
249	Electrical characterization of single nanometer-wide Si fins in dense arrays. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 1863-1867.	1.5	5
250	Determination of the temperature coefficient of resistance from micro four-point probe measurements. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	5
251	Dynamic Interfacial Reaction Rates from Electrochemistryâ€“Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 7022-7028.	3.2	5
252	High Mass and Spatial Resolution Mass Sensor based on Resonating Nano-Cantilevers Integrated with CMOS. , 2001, , 72-75.		5

#	ARTICLE	IF	CITATIONS
253	Current regulators for I/sup 2/L circuits to be operated from low-voltage power supplies. IEEE Journal of Solid-State Circuits, 1980, 15, 796-799.	3.5	4
254	Fabrication and characterization of flexible silicon substrates with electroplated gold leads. , 0, , .		4
255	Fabrication of high aspect ratio through-wafer vias in CMOS wafers for 3-D packaging applications. , 0, , .		4
256	Deep Reactive Ion Etching for High Aspect Ratio Microelectromechanical Components. Physica Scripta, 2004, T114, 188-192.	1.2	4
257	Self-Positioning of Polymer Membranes Driven by Thermomechanically Induced Plastic Deformation. Advanced Materials, 2006, 18, 238-241.	11.1	4
258	Parametric investigation of rate enhancement during fast temperature cycling of CO oxidation in microreactors. Chemical Engineering Journal, 2008, 135, S237-S241.	6.6	4
259	Determination of stress build-up during nanoimprint process in triangular polymer structures. Microelectronic Engineering, 2008, 85, 838-841.	1.1	4
260	Measurement of the resonant frequency of nano-scale cantilevers by hard contact readout. Microelectronic Engineering, 2008, 85, 1390-1394.	1.1	4
261	Giant geometrically amplified piezoresistance in metal-semiconductor hybrid resistors. Journal of Applied Physics, 2008, 104, 114510.	1.1	4
262	Electron emission from MOS electron emitters with clean and cesium covered gold surface. Applied Surface Science, 2009, 255, 7657-7662.	3.1	4
263	Solving the Helmholtz equation in conformal mapped ARROW structures using homotopy perturbation method. Optics Express, 2011, 19, 1808.	1.7	4
264	Crystallographic dependence of the lateral undercut wet etch rate of Al _{0.5} In _{0.5} P in diluted HCl for III-V sacrificial release. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2013, 31, .	0.6	4
265	Thermal Oxidation of Structured Silicon Dioxide. ECS Journal of Solid State Science and Technology, 2014, 3, N63-N68.	0.9	4
266	Fast static field CIPT mapping of unpatterned MRAM film stacks. Measurement Science and Technology, 2015, 26, 045602.	1.4	4
267	A variable probe pitch micro-Hall effect method. Beilstein Journal of Nanotechnology, 2018, 9, 2032-2039.	1.5	4
268	Avoiding blistering in Al ₂ O ₃ deposited on planar and black Si. Solar Energy Materials and Solar Cells, 2018, 187, 23-29.	3.0	4
269	Laser ablation of high-aspect-ratio hole arrays in tungsten for X-ray applications. Microelectronic Engineering, 2019, 209, 60-65.	1.1	4
270	Batch processing of CMOS compatible feedthroughs. Microelectronic Engineering, 2003, 67-68, 487-494.	1.1	3

#	ARTICLE	IF	CITATIONS
271	Low voltage, high-Q SOI MEMS varactors for RF applications. , 0, , .		3
272	Batch fabrication of through-wafer vias in CMOS wafers for 3-D packaging applications. , 0, , .		3
273	Synthesis of crystalline Ge nanoclusters in PE-CVD-deposited SiO ₂ films. Applied Physics A: Materials Science and Processing, 2005, 81, 1591-1593.	1.1	3
274	PtRu Colloid Nanoparticles for CO Oxidation in Microfabricated Reactors. Catalysis Letters, 2006, 109, 7-12.	1.4	3
275	Activation of ion implanted Si for backside processing by ultra-fast laser thermal annealing: Energy homogeneity and micro-scale sheet resistance. , 2009, , .		3
276	Towards hot electron mediated charge exchange in hyperthermal energy ionâ€“surface interactions. Journal of Physics Condensed Matter, 2010, 22, 084010.	0.7	3
277	Screen printed PZT/PZT thick film bimorph MEMS cantilever device for vibration energy harvesting. , 2011, , .		3
278	Microcutting and Forming of Thin Aluminium Foils for MEMS. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2011, 133, .	1.3	3
279	All-Optical Frequency Modulated High Pressure MEMS Sensor for Remote and Distributed Sensing. Sensors, 2011, 11, 10615-10623.	2.1	3
280	Activation and thermal stability of ultra-shallow B ⁺ -implants in Ge. Journal of Applied Physics, 2012, 112, 123525.	1.1	3
281	Preliminary Performance Evaluation of MEMS-based Piezoelectric Energy Harvesters in Extended Temperature Range. Procedia Engineering, 2012, 47, 1434-1437.	1.2	3
282	Inorganic electret with enhanced charge stability for energy harvesting. , 2013, , .		3
283	Nanoimprinted DWDM laser arrays on indium phosphide substrates. Microelectronic Engineering, 2014, 123, 149-153.	1.1	3
284	Injection molded polymeric hard X-ray lenses. Optical Materials Express, 2015, 5, 2804.	1.6	3
285	Nanomechanical Infrared Spectroscopy with Vibrating Filters for Pharmaceutical Analysis. Angewandte Chemie, 2017, 129, 3959-3963.	1.6	3
286	Effective electrical resistivity in a square array of oriented square inclusions. Nanotechnology, 2021, 32, 185706.	1.3	3
287	Silicon Nanotexture Surface Area Mapping Using Ultraviolet Reflectance. IEEE Journal of Photovoltaics, 2021, 11, 1291-1298.	1.5	3
288	In situ TEM modification of individual silicon nanowires and their charge transport mechanisms. Nanotechnology, 2020, 31, 494002.	1.3	3

#	ARTICLE	IF	CITATIONS
289	Delay Line Separation of CMUT Elements. , 2020, , .		3
290	Cu ₂ ZnSnS ₄ from oxide precursors grown by pulsed laser deposition for monolithic CZTS/Si tandem solar cells. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	1.1	3
291	Gettering in PolySi/SiO _x Passivating Contacts Enables Si-Based Tandem Solar Cells with High Thermal and Contamination Resilience. ACS Applied Materials & Interfaces, 2022, 14, 14342-14358.	4.0	3
292	High aspect ratio MEMS capacitor for high frequency impedance matching applications. , 0, , .		2
293	SOI silicon on glass for optical MEMS. , 0, , .		2
294	Passivation of Ge Nanocrystals in SiO ₂ . Solid State Phenomena, 2005, 108-109, 33-38.	0.3	2
295	Realtime 3D Stress Measurement in Curing Epoxy Packaging. , 2007, , .		2
296	Engineering piezoresistivity using biaxially strained silicon. Applied Physics Letters, 2008, 93, 263501.	1.5	2
297	Accurate micro Hall Effect measurements on scribe line pads. , 2009, , .		2
298	Monitoring of local and global temperature non-uniformities by means of Thermo-Probe and Micro Four-Point Probe metrology. , 2009, , .		2
299	Growth and properties of self-assembled monolayers on metals. Journal of Physics: Conference Series, 2009, 152, 012029.	0.3	2
300	Study of submelt laser induced junction nonuniformities using Thermo-Probe. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2010, 28, C1C21-C1C26.	0.6	2
301	Intrinsic low hysteresis touch mode capacitive pressure sensor. , 2010, , .		2
302	Micro-cantilevers for non-destructive characterization of nanograin uniformity. , 2011, , .		2
303	ZnS top layer for enhancement of the crystallinity of CZTS absorber during the annealing. , 2015, , .		2
304	Characterization of positional errors and their influence on micro four-point probe measurements on a 100-nm Ru film. Measurement Science and Technology, 2015, 26, 095005.	1.4	2
305	Optically pumped 1550nm wavelength tunable MEMS VCSEL. Proceedings of SPIE, 2016, , .	0.8	2
306	Diffusion of phosphorous in black silicon. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
307	Vibration tolerance of micro-electrodes. Journal of Micromechanics and Microengineering, 2018, 28, 095010.	1.5	2
308	Hall effect measurement for precise sheet resistance and thickness evaluation of Ruthenium thin films using non-equidistant four-point probes. AIP Advances, 2018, 8, .	0.6	2
309	Advanced Characterisation of Black Silicon Surface Topography with 3D PFIB-SEM. , 2019, , .		2
310	Assessing the role of quantum effects in two-dimensional heterophase MoTe_2 field effect transistors. Physical Review B, 2021, 104, .		
311	Novel micro-reactor flow cell for investigation of Au model catalysts using <i>in situ</i> grazing-incidence X-ray scattering. Journal of Synchrotron Radiation, 2016, 23, 455-463.	1.0	2
312	Silver-substituted $(\text{Ag}_{1-x}\text{Cu}_x)_2\text{ZnSnS}_4$ solar cells from aprotic molecular inks. Ceramics International, 2022, 48, 21483-21491.	2.3	2
313	Flexible stamp for nanoimprint lithography. , 0, , .		1
314	High-temperature compatible nickel silicide thermometer and heater for catalytic chemical microreactors. , 0, , .		1
315	Flexible SiO_2 cantilevers for torsional self-aligning micro scale four-point probes. Journal of Micromechanics and Microengineering, 2007, 17, 1910-1915.	1.5	1
316	Determination of packaging induced 3D stress utilizing a piezocoefficient mapping device. , 2007, , .		1
317	Design and modeling of an all-optical frequency modulated MEMS strain sensor using nanoscale Bragg gratings. , 2009, , .		1
318	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.	0.6	1
319	Hollow core MOEMS Bragg grating microphone for distributed and remote sensing. , 2011, , .		1
320	Bio-inspired co-catalysts bonded to a silicon photocathode for solar hydrogen evolution. , 2011, , .		1
321	Quantitative mapping of large area graphene conductance. , 2012, , .		1
322	Microprobe metrology for direct sheet resistance and mobility characterization. , 2012, , .		1
323	Automated Micro Hall Effect measurements. , 2014, , .		1
324	Characterization of magnetic tunnel junction test pads. Journal of Applied Physics, 2015, 118, 143901.	1.1	1

#	ARTICLE	IF	CITATIONS
325	Black silicon solar cells with black bus-bar strings. , 2016, , .		1
326	Breakthrough in Current in Plane Metrology for Monitoring Large Scale MRAM Production. , 2017, , .		1
327	Towards solar cells with black silicon texturing passivated by a-Si:H. , 2018, , .		1
328	All-black front surfaces for building-integrated photovoltaics. Japanese Journal of Applied Physics, 2018, 57, 08RH01.	0.8	1
329	Towards diamond micro four-point probes. Micro and Nano Engineering, 2019, 5, 100037.	1.4	1
330	Electrical Contact Formation in Micro Four-Point Probe Measurements. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900579.	0.8	1
331	Apparent size effects on dopant activation in nanometer-wide Si fins. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2021, 39, 023202.	0.6	1
332	First Experimental Results on CMOS Integrated Nickel Electroplated Resonators. Physica Scripta, 2004, T114, 184-187.	1.2	1
333	Low temperature bonding of heterogeneous materials using Al ₂ O ₃ as an intermediate layer. , 2018, , .		1
334	Fabrication of integrated metallic MEMS devices. Electronics Letters, 2002, 38, 1526.	0.5	0
335	Studying different effects on the collection efficiency of a dielectrophoresis based selective filter in a microchip with integrated flow cytometers. , 0, , .		0
336	Route to batch-compatible fabrication of nanotweezers by guided self-assembly. , 2007, , .		0
337	A finite element mesh tailored to full NIL process modelling: hot embossing, cool-down and stamp release. , 2007, , .		0
338	Batch chemical microreactors: Reversible, in situ UHV sealing of a microcavity. Microelectronic Engineering, 2009, 86, 1389-1392.	1.1	0
339	Accuracy of micro four-point probe measurements on inhomogeneous samples: A probe spacing dependence study. , 2009, , .		0
340	Advanced characterization of carrier profiles in germanium using micro-machined contact probes. AIP Conference Proceedings, 2012, , .	0.3	0
341	Propagation and excitation of graphene plasmon polaritons. , 2013, , .		0
342	Excitation of plasmon modes in a graphene monolayer supported on a 2D subwavelength silicon grating. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
343	Effect of B+ Flux on the Electrical Activation of Ultra-Shallow B+ Implants in Ge. ECS Transactions, 2013, 50, 543-549.	0.3	0
344	Improvement of Infrared Detectors for Tissue Oximetry using Black Silicon Nanostructures. Procedia Engineering, 2014, 87, 652-655.	1.2	0
345	In-Situ TEM Investigation of Controlled VLS Silicon Nanowire Device Formation and Characterization. Microscopy and Microanalysis, 2016, 22, 60-61.	0.2	0
346	Protected, back-illuminated silicon photocathodes or photoanodes for water splitting tandem stacks (Conference Presentation). , 2016, , .		0
347	Indoor Measurement of Angle Resolved Light Absorption by Black Silicon. , 2017, , .		0
348	Black Silicon realized by reactive ion etching (ICP) without platen power. , 2018, , .		0
349	Towards Carrier Profiling in Nanometer-wide Si Fins with Micro Four-Point Probe. , 2018, , .		0
350	Single and double side textured black silicon require different annealing conditions for optimal passivation with ALD Al$_2$O$_3$. , 2018, , .		0
351	Methods for Fabrication of Released Nickel Comb-Drive Devices on CMOS. , 2001, , 600-603.		0
352	Micro Probe Carrier Profiling of Ultra-shallow Structures in Germanium. , 2009, , .		0
353	Wavelength tunable MEMS VCSELs for OCT imaging. , 2018, , .		0
354	Bidirectional electrostatic MEMS tunable VCSELs. , 2021, , .		0