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 g-index
360 all docs	360 docs citations	360 times ranked	13936 citing authors

#	Article	IF	Citations
1	Cu2ZnSnS4 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
2	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
3	Silver-substituted (Ag1-xCux)2ZnSnS4 solar cells from aprotic molecular inks. Ceramics International, 2022, 48, 21483-21491.	2.3	2
4	Effective electrical resistivity in a square array of oriented square inclusions. Nanotechnology, 2021, 32, 185706.	1.3	3
5	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
6	On the Enhanced Phosphorus Doping of Nanotextured Black Silicon. IEEE Journal of Photovoltaics, 2021, 11, 298-305.	1.5	13
7	Semitransparent Selenium Solar Cells as a Top Cell for Tandem Photovoltaics. Solar Rrl, 2021, 5, 2100111.	3.1	20
8	Determination of the temperature coefficient of resistance from micro four-point probe measurements. Journal of Applied Physics, 2021, 129, .	1.1	5
9	Dynamic Interfacial Reaction Rates from Electrochemistryâ€“Mass Spectrometry. Analytical Chemistry, 2021, 93, 7022-7028.	3.2	5
10	Assessing the role of quantum effects in two-dimensional heterophase <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoTe</mml:mi><mml:mn>2</mml:mn></mml:msub></m field effect transistors. Physical Review B, 2021, 104, .	1.1	2
11	Silicon Nanotexture Surface Area Mapping Using Ultraviolet Reflectance. IEEE Journal of Photovoltaics, 2021, 11, 1291-1298.	1.5	3
12	Selenium Thin-Film Solar Cells with Cadmium Sulfide as a Heterojunction Partner. ACS Applied Energy Materials, 2021, 4, 10697-10702.	2.5	15
13	3Ï‰ correction method for eliminating resistance measurement error due to Joule heating. Review of Scientific Instruments, 2021, 92, 094711.	0.6	6
14	Bidirectional electrostatic MEMS tunable VCSELs. , 2021, , .		0
15	Electrical Contact Formation in Micro Fourâ€Point Probe Measurements. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900579.	0.8	1
16	TaS₂ Back Contact Improving Oxide-Converted Cu₂BaSnS₄ Solar Cells. ACS Applied Energy Materials, 2020, 3, 1190-1198.	2.5	13
17	Monolithic thin-film chalcogenideâ€“silicon tandem solar cells enabled by a diffusion barrier. Solar Energy Materials and Solar Cells, 2020, 207, 110334.	3.0	34
18	Wireless Photoelectrochemical Water Splitting Using Triple-Junction Solar Cell Protected by TiO2. Cell Reports Physical Science, 2020, 1, 100261.	2.8	11

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19	Spin-coated $$hbox {Cu}_2hbox {ZnSnS}_{4}$$ solar cells: A study on the transformation from ink to film. Scientific Reports, 2020, 10, 20749.	1.6	8
20	Thermal radiation dominated heat transfer in nanomechanical silicon nitride drum resonators. Applied Physics Letters, 2020, 117, .	1.5	17
21	Persistent Double-Layer Formation in Kesterite Solar Cells: A Critical Review. ACS Applied Materials & Interfaces, 2020, 12, 39405-39424.	4.0	35
22	Energy band alignment at the heterointerface between CdS and Ag-alloyed CZTS. Scientific Reports, 2020, 10, 18388.	1.6	37
23	Parallel Evaluation of the BiI₃, BiOI, and Ag₃BiI₆ Layered Photoabsorbers. Chemistry of Materials, 2020, 32, 3385-3395.	3.2	48
24	Oxide route for production of Cu2ZnSnS4 solar cells by pulsed laser deposition. Solar Energy Materials and Solar Cells, 2020, 215, 110605.	3.0	17
25	Electron inelastic mean free path in water. Nanoscale, 2020, 12, 20649-20657.	2.8	34
26	Deep reactive ion etching of â€˜grass-freeâ€™ widely-spaced periodic 2D arrays, using sacrificial structures. Microelectronic Engineering, 2020, 223, 111228.	1.1	9
27	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
28	Single-shot, omni-directional x-ray scattering imaging with a laboratory source and single-photon localization. Optics Letters, 2020, 45, 1021.	1.7	15
29	In situ TEM modification of individual silicon nanowires and their charge transport mechanisms. Nanotechnology, 2020, 31, 494002.	1.3	3
30	Delay Line Separation of CMUT Elements. , 2020, , .		3
31	Durability Testing of Photoelectrochemical Hydrogen Production under Day/Night Light Cycled Conditions. ChemElectroChem, 2019, 6, 106-109.	1.7	24
32	Tunable MEMS VCSEL on Silicon Substrate. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-7.	1.9	8
33	Towards diamond micro four-point probes. Micro and Nano Engineering, 2019, 5, 100037.	1.4	1
34	Wide Band Gap Cu₂SrSnS₄ Solar Cells from Oxide Precursors. ACS Applied Energy Materials, 2019, 2, 7340-7344.	2.5	23
35	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
36	Laser ablation of high-aspect-ratio hole arrays in tungsten for X-ray applications. Microelectronic Engineering, 2019, 209, 60-65.	1.1	4

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37	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
38	Shining Light on Sulfide Perovskites: LaYS₃ Material Properties and Solar Cells. Chemistry of Materials, 2019, 31, 3359-3369.	3.2	32
39	Advanced Characterisation of Black Silicon Surface Topography with 3D PFIB-SEM. , 2019, , .		2
40	Black Silicon With Ultraâ€Low Surface Recombination Velocity Fabricated by Inductively Coupled Power Plasma. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800477.	1.2	11
41	Virtual subpixel approach for single-mask phase-contrast imaging using Timepix3. Journal of Instrumentation, 2019, 14, C01011-C01011.	0.5	10
42	Widthâ€Dependent Sheet Resistance of Nanometerâ€Wide Si Fins as Measured with Micro Fourâ€Point Probe. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700857.	0.8	7
43	Low temperature bonding of heterogeneous materials using Al2O3 as an intermediate layer. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2018, 36, 011202.	0.6	19
44	Enabling real-time detection of electrochemical desorption phenomena with sub-monolayer sensitivity. Electrochimica Acta, 2018, 268, 520-530.	2.6	53
45	Black Silicon realized by reactive ion etching (ICP) without platen power. , 2018, , .		0
46	Towards Carrier Profiling in Nanometer-wide Si Fins with Micro Four-Point Probe. , 2018, , .		0
47	Diffusion of phosphorous in black silicon. , 2018, , .		2
48	Impact of nanoparticle size and lattice oxygen on water oxidation on NiFeOxHy. Nature Catalysis, 2018, 1, 820-829.	16.1	344
49	Electrical characterization of single nanometer-wide Si fins in dense arrays. Beilstein Journal of Nanotechnology, 2018, 9, 1863-1867.	1.5	5
50	A variable probe pitch micro-Hall effect method. Beilstein Journal of Nanotechnology, 2018, 9, 2032-2039.	1.5	4
51	Towards solar cells with black silicon texturing passivated by a-Si:H. , 2018, , .		1
52	Photoluminescence Imaging Induced by Laser Line Scan: Study for Outdoor Field Inspections. , 2018, , .		11
53	Single and double side textured black silicon require different annealing conditions for optimal passivation with ALD Al<inf>2</inf>O<inf>3</inf>. , 2018, , .		0
54	Vibration tolerance of micro-electrodes. Journal of Micromechanics and Microengineering, 2018, 28, 095010.	1.5	2

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55	Avoiding blistering in Al2O3 deposited on planar and black Si. Solar Energy Materials and Solar Cells, 2018, 187, 23-29.	3.0	4
56	All-black front surfaces for building-integrated photovoltaics. Japanese Journal of Applied Physics, 2018, 57, 08RH01.	0.8	1
57	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
58	Large process-dependent variations in band alignment and interface band gaps of Cu2ZnSnS4/CdS solar cells. Solar Energy Materials and Solar Cells, 2018, 187, 233-240.	3.0	27
59	Deposition of methylammonium iodideviaevaporation â€“ combined kinetic and mass spectrometric study. RSC Advances, 2018, 8, 29899-29908.	1.7	41
60	Low temperature bonding of heterogeneous materials using Al2O3 as an intermediate layer. , 2018, , .		1
61	Wavelength tunable MEMS VCSELs for OCT imaging. , 2018, , .		0
62	Optimized electrode configuration for current-in-plane characterization of magnetic tunnel junction stacks. Measurement Science and Technology, 2017, 28, 025012.	1.4	5
63	Field Effect in Graphene-Based van der Waals Heterostructures: Stacking Sequence Matters. Nano Letters, 2017, 17, 2660-2666.	4.5	21
64	Interface band gap narrowing behind open circuit voltage losses in Cu2ZnSnS4 solar cells. Applied Physics Letters, 2017, 110, .	1.5	35
65	Strategies for stable water splitting via protected photoelectrodes. Chemical Society Reviews, 2017, 46, 1933-1954.	18.7	427
66	Nanomechanical Infrared Spectroscopy with Vibrating Filters for Pharmaceutical Analysis. Angewandte Chemie, 2017, 129, 3959-3963.	1.6	3
67	Nanomechanical Infrared Spectroscopy with Vibrating Filters for Pharmaceutical Analysis. Angewandte Chemie - International Edition, 2017, 56, 3901-3905.	7.2	22
68	How the relative permittivity of solar cell materials influences solar cell performance. Solar Energy, 2017, 149, 145-150.	2.9	35
69	Breakthrough in Current in Plane Metrology for Monitoring Large Scale MRAM Production. , 2017, , .		1
70	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
71	Ultra-thin Cu2ZnSnS4 solar cell by pulsed laser deposition. Solar Energy Materials and Solar Cells, 2017, 166, 91-99.	3.0	83
72	Direct bonding of ALD Al 2 O 3 to silicon nitride thin films. Microelectronic Engineering, 2017, 176, 71-74.	1.1	8

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73	Investigation of Cu2ZnSnS4 nanoparticles for thin-film solar cellÂapplications. Thin Solid Films, 2017, 628, 163-169.	0.8	10
74	A Flexible Webâ€Based Approach to Modeling Tandem Photocatalytic Devices. Solar Rrl, 2017, 1, e201600013.	3.1	22
75	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
76	Low surface damage dry etched black silicon. Journal of Applied Physics, 2017, 122, .	1.1	27
77	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
78	Surface passivation and carrier selectivity of the thermal-atomic-layer-deposited TiO₂ on crystalline silicon. Japanese Journal of Applied Physics, 2017, 56, 08MA11.	0.8	19
79	Probing the Gas-Phase Dynamics of Graphene Chemical Vapour Deposition using in-situ UV Absorption Spectroscopy. Scientific Reports, 2017, 7, 6183.	1.6	6
80	Sulfide perovskites for solar energy conversion applications: computational screening and synthesis of the selected compound LaYS₃. Energy and Environmental Science, 2017, 10, 2579-2593.	15.6	91
81	Temperature dependent photoreflectance study of Cu2SnS3 thin films produced by pulsed laser deposition. Applied Physics Letters, 2017, 110, .	1.5	35
82	Carrier-selective p- and n-contacts for efficient and stable photocatalytic water reduction. Catalysis Today, 2017, 290, 59-64.	2.2	35
83	Indoor Measurement of Angle Resolved Light Absorption by Black Silicon. , 2017, , .		0
84	In-Situ TEM Investigation of Controlled VLS Silicon Nanowire Device Formation and Characterization. Microscopy and Microanalysis, 2016, 22, 60-61.	0.2	0
85	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
86	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
87	Lattice-matched Cu2ZnSnS4/CeO2 solar cell with open circuit voltage boost. Applied Physics Letters, 2016, 109, .	1.5	32
88	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
89	Black silicon solar cells with black bus-bar strings. , 2016, , .		1
90	Formation of copper tin sulfide films by pulsed laser deposition at 248 and 355Ânm. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	12

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91	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
92	Synthesis of ligand-free CZTS nanoparticles via a facile hot injection route. Nanotechnology, 2016, 27, 185603.	1.3	17
93	Backâ€Illuminated Siâ€Based Photoanode with Nickel Cobalt Oxide Catalytic Protection Layer. ChemElectroChem, 2016, 3, 1517-1517.	1.7	7
94	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
95	Protected, back-illuminated silicon photocathodes or photoanodes for water splitting tandem stacks (Conference Presentation). , 2016, , .		0
96	Semiconductor band alignment from first principles: A new nonequilibrium Green's function method applied to the CZTSe/CdS interface for photovoltaics. , 2016, , .		7
97	H₂/D₂ exchange reaction on mono-disperse Pt clusters: enhanced activity from minute O₂ concentrations. Catalysis Science and Technology, 2016, 6, 6893-6900.	2.1	9
98	Optically pumped 1550nm wavelength tunable MEMS VCSEL. Proceedings of SPIE, 2016, , .	0.8	2
99	Backâ€Illuminated Siâ€Based Photoanode with Nickel Cobalt Oxide Catalytic Protection Layer. ChemElectroChem, 2016, 3, 1546-1552.	1.7	22
100	Protection of Si photocathode using TiO2 deposited by high power impulse magnetron sputtering for H2 evolution in alkaline media. Solar Energy Materials and Solar Cells, 2016, 144, 758-765.	3.0	52
101	Two-phase model of hydrogen transport to optimize nanoparticle catalyst loading for hydrogen evolution reaction. International Journal of Hydrogen Energy, 2016, 41, 7568-7581.	3.8	5
102	Full-field hard x-ray microscopy with interdigitated silicon lenses. Optics Communications, 2016, 359, 460-464.	1.0	16
103	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
104	Novel micro-reactor flow cell for investigation ofÂmodel catalysts usingin situgrazing-incidence X-ray scattering. Journal of Synchrotron Radiation, 2016, 23, 455-463.	1.0	2
105	Characterization of magnetic tunnel junction test pads. Journal of Applied Physics, 2015, 118, 143901.	1.1	1
106	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
107	Fast and sensitive method for detecting volatile species in liquids. Review of Scientific Instruments, 2015, 86, 075006.	0.6	22
108	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

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109	Injection molded polymeric hard X-ray lenses. Optical Materials Express, 2015, 5, 2804.	1.6	3
110	Crystalline TiO₂: A Generic and Effective Electron-Conducting Protection Layer for Photoanodes and -cathodes. Journal of Physical Chemistry C, 2015, 119, 15019-15027.	1.5	85
111	ZnS top layer for enhancement of the crystallinity of CZTS absorber during the annealing. , 2015, , .		2
112	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
113	Three-dimensional nanometrology of microstructures by replica molding and large-range atomic force microscopy. Microelectronic Engineering, 2015, 141, 6-11.	1.1	9
114	Angle resolved characterization of nanostructured and conventionally textured silicon solar cells. Solar Energy Materials and Solar Cells, 2015, 140, 134-140.	3.0	20
115	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 H₂(g). Journal of Physical Chemistry Letters, 2015, 6, 1679-1683.	2.1	60
116	Nanoporous gyroid TiO2 and SnO2 by melt infiltration of block copolymer templates. Microporous and Mesoporous Materials, 2015, 210, 161-168.	2.2	6
117	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
118	Fast static field CIPT mapping of unpatterned MRAM film stacks. Measurement Science and Technology, 2015, 26, 045602.	1.4	4
119	Creating New VLS Silicon Nanowire Contact Geometries by Controlling Catalyst Migration. Nano Letters, 2015, 15, 6535-6541.	4.5	16
120	Scalability and feasibility of photoelectrochemical H₂evolution: the ultimate limit of Pt nanoparticle as an HER catalyst. Energy and Environmental Science, 2015, 8, 2991-2999.	15.6	162
121	Characterization of positional errors and their influence on micro four-point probe measurements on a 100â€‰nm Ru film. Measurement Science and Technology, 2015, 26, 095005.	1.4	2
122	Fast & scalable pattern transfer via block copolymer nanolithography. RSC Advances, 2015, 5, 102619-102624.	1.7	16
123	A quick look at how photoelectrodes work. Science, 2015, 350, 1030-1031.	6.0	8
124	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
125	Gold Nanoparticle-Based Sensors Activated by External Radio Frequency Fields. Small, 2015, 11, 248-256.	5.2	9
126	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

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127	Automated Micro Hall Effect measurements. , 2014, , .		1
128	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
129	Sensitivity analysis explains quasi-one-dimensional current transport in two-dimensional materials. Physical Review B, 2014, 90, .	1.1	9
130	Mo₃S₄Clusters as an Effective H₂Evolution Catalyst on Protected Si Photocathodes. Journal of the Electrochemical Society, 2014, 161, H722-H724.	1.3	24
131	Revealing origin of quasi-one dimensional current transport in defect rich two dimensional materials. Applied Physics Letters, 2014, 105, .	1.5	13
132	Modal radiation patterns of baffled circular plates and membranes. Journal of the Acoustical Society of America, 2014, 135, 2523-2533.	0.5	6
133	Thermal Oxidation of Structured Silicon Dioxide. ECS Journal of Solid State Science and Technology, 2014, 3, N63-N68.	0.9	4
134	Silicon as an anisotropic mechanical material: Deflection of thin crystalline plates. Sensors and Actuators A: Physical, 2014, 220, 347-364.	2.0	25
135	Nanoimprinted DWDM laser arrays on indium phosphide substrates. Microelectronic Engineering, 2014, 123, 149-153.	1.1	3
136	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
137	Precision of single-engage micro Hall effect measurements. , 2014, , .		6
138	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
139	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
140	Thermodynamics of photon-enhanced thermionic emission solar cells. Applied Physics Letters, 2014, 104, 023902.	1.5	22
141	Modeling and Optimization of an Electrostatic Energy Harvesting Device. Journal of Microelectromechanical Systems, 2014, 23, 1141-1155.	1.7	92
142	Protection of p⁺-n-Si Photoanodes by Sputter-Deposited Ir/IrO_x Thin Films. Journal of Physical Chemistry Letters, 2014, 5, 1948-1952.	2.1	97
143	2-Photon tandem device for water splitting: comparing photocathode first versus photoanode first designs. Energy and Environmental Science, 2014, 7, 2397-2413.	15.6	130
144	Electrostatic energy harvesting device with out-of-the-plane gap closing scheme. Sensors and Actuators A: Physical, 2014, 211, 131-137.	2.0	121

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145	Improvement of Infrared Detectors for Tissue Oximetry using Black Silicon Nanostructures. Procedia Engineering, 2014, 87, 652-655.	1.2	0
146	Experimental observation of plasmons in a graphene monolayer resting on a two-dimensional subwavelength silicon grating. Applied Physics Letters, 2013, 102, .	1.5	109
147	SU-8 etching in inductively coupled oxygen plasma. Microelectronic Engineering, 2013, 112, 35-40.	1.1	31
148	Electrostatic energy harvesting device with out-of-the-plane gap closing scheme. , 2013, , .		5
149	MoS2â€"an integrated protective and active layer on n+p-Si for solar H2 evolution. Physical Chemistry Chemical Physics, 2013, 15, 20000.	1.3	89
150	Photothermal Infrared Spectroscopy of Airborne Samples with Mechanical String Resonators. Analytical Chemistry, 2013, 85, 10531-10535.	3.2	33
151	Propagation and excitation of graphene plasmon polaritons. , 2013, , .		0
152	Silicon protected with atomic layer deposited TiO2: conducting versus tunnelling through TiO2. Journal of Materials Chemistry A, 2013, 1, 15089.	5.2	51
153	Enhanced Lightâ€"Matter Interactions in Graphene-Covered Gold Nanovoid Arrays. Nano Letters, 2013, 13, 4690-4696.	4.5	204
154	Self-sustained carbon monoxide oxidation oscillations on size-selected platinum nanoparticles at atmospheric pressure. Physical Chemistry Chemical Physics, 2013, 15, 2698.	1.3	13
155	Silicon protected with atomic layer deposited TiO2: durability studies of photocathodic H2 evolution. RSC Advances, 2013, 3, 25902.	1.7	104
156	Invisible Surface Charge Pattern on Inorganic Electrets. IEEE Electron Device Letters, 2013, 34, 1047-1049.	2.2	35
157	Using TiO₂ as a Conductive Protective Layer for Photocathodic H₂ Evolution. Journal of the American Chemical Society, 2013, 135, 1057-1064.	6.6	426
158	Inorganic electret with enhanced charge stability for energy harvesting. , 2013, , .		3
159	An electret-based energy harvesting device with a wafer-level fabrication process. Journal of Micromechanics and Microengineering, 2013, 23, 114010.	1.5	70
160	Excitation of plasmon modes in a graphene monolayer supported on a 2D subwavelength silicon grating. , 2013, , .		0
161	Resonant MEMS Tunable VCSEL. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1702306-1702306.	1.9	23
162	Crystallographic dependence of the lateral undercut wet etch rate of Al0.5In0.5P in diluted HCl for IIIâ€"V sacrificial release. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2013, 31, .	0.6	4

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163	Effect of B+ Flux on the Electrical Activation of Ultra-Shallow B+ Implants in Ge. ECS Transactions, 2013, 50, 543-549.	0.3	0
164	Modeling and measurements of CMUTs with square anisotropic plates. , 2013, , .		6
165	Void-free direct bonding of CMUT arrays with single crystalline plates and pull-in insulation. , 2013, , .		8
166	A transparent Pyrex Î¼-reactor for combined in situ optical characterization and photocatalytic reactivity measurements. Review of Scientific Instruments, 2013, 84, 103910.	0.6	7
167	Sensitivity of resistive and Hall measurements to local inhomogeneities. Journal of Applied Physics, 2013, 114, .	1.1	12
168	Tracking neuronal marker expression inside living differentiating cells using molecular beacons. Frontiers in Cellular Neuroscience, 2013, 7, 266.	1.8	17
169	Junction leakage measurements with micro four-point probes. AIP Conference Proceedings, 2012, , .	0.3	7
170	Activation and thermal stability of ultra-shallow B+-implants in Ge. Journal of Applied Physics, 2012, 112, 123525.	1.1	3
171	A MEMS Energy Harvesting Device for Vibration with Low Acceleration. Procedia Engineering, 2012, 47, 770-773.	1.2	14
172	Reactive ion etching of polymer materials for an energy harvesting device. Microelectronic Engineering, 2012, 97, 227-230.	1.1	33
173	Quantitative mapping of large area graphene conductance. , 2012, , .		1
174	Microprobe metrology for direct sheet resistance and mobility characterization. , 2012, , .		1
175	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
176	Evaporation of Water Droplets on â€œLock-and-Keyâ€•Structures with Nanoscale Features. Langmuir, 2012, 28, 9201-9205.	1.6	9
177	A stretch-tunable plasmonic structure with a polarization-dependent response. Optics Express, 2012, 20, 5237.	1.7	32
178	High mass resolution time of flight mass spectrometer for measuring products in heterogeneous catalysis in highly sensitive microreactors. Review of Scientific Instruments, 2012, 83, 075105.	0.6	5
179	Graphene Conductance Uniformity Mapping. Nano Letters, 2012, 12, 5074-5081.	4.5	152
180	Suppression of the water splitting back reaction on GaN:ZnO photocatalysts loaded with core/shell cocatalysts, investigated using a Î¼-reactor. Journal of Catalysis, 2012, 292, 26-31.	3.1	45

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181	Hydrogen Production Using a Molybdenum Sulfide Catalyst on a Titaniumâ€Protected n⁺pâ€Silicon Photocathode. Angewandte Chemie - International Edition, 2012, 51, 9128-9131.	7.2	289
182	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
183	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
184	Broadband light-extraction enhanced by arrays of whispering gallery resonators. Applied Physics Letters, 2012, 101, .	1.5	13
185	Preliminary Performance Evaluation of MEMS-based Piezoelectric Energy Harvesters in Extended Temperature Range. Procedia Engineering, 2012, 47, 1434-1437.	1.2	3
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