Winnie Edith Svendsen

List of Publications by Year
in descending order

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110 papers	3,159 citations	159585 30 h-index	175258 52 g-index
110 all docs	110 docs citations	110 times ranked	4150 citing authors

#	Article	IF	Citations
1	BiowareCFP: An Application-Agnostic Modular Reconfigurable Cyber-Fluidic Platform. Micromachines, 2022, 13, 249.	2.9	1
2	Subâ€“100 nm Nanoparticle Upconcentration in Flow by Dielectrophoretic Forces. Micromachines, 2022, 13, 866.	2.9	4
3	Commercially available rapid diagnostic tests for the detection of high priority pathogens: status and challenges. Analyst, The, 2021, 146, 3750-3776.	3.5	10
4	Continuous Microfluidic Production of Citrem-Phosphatidylcholine Nano-Self-Assemblies for Thymoquinone Delivery. Nanomaterials, 2021, 11, 1510.	4.1	7
5	pyEIA: A Python-based framework for data analysis of electrochemical methods for immunoassays. SoftwareX, 2021, 15, 100720.	2.6	8
6	Diphenylalanine Peptide Nanowires as a Substrate for Neural Cultures. BioNanoScience, 2020, 10, 224-234.	3.5	3
7	Investigating the Use of Impedance Flow Cytometry for Classifying the Viability State of E. coli. Sensors, 2020, 20, 6339.	3.8	26
8	A Computer Vision Algorithm for the Digitalization of Colorimetric Lateral Flow Assay Readouts. , 2020, , .		0
9	Electrochemical Detection of Pyocyanin as a Biomarker for Pseudomonas aeruginosa: A Focused Review. Sensors, 2020, 20, 5218.	3.8	54
10	Nanograss sensor for selective detection of Pseudomonas aeruginosa by pyocyanin identification in airway samples. Analytical Biochemistry, 2020, 593, 113586.	2.4	22
11	Electrochemical determination of bentazone using simple screen-printed carbon electrodes. Environment International, 2019, 129, 400-407.	10.0	36
12	A hydrodynamic flow focusing microfluidic device for the continuous production of hexosomes based on docosahexaenoic acid monoglyceride. Physical Chemistry Chemical Physics, 2019, 21, 13005-13013.	2.8	38
13	Modelâ€based systems engineering for lifeâ€sciences instrumentation development. Systems Engineering, 2019, 22, 98-113.	2.7	5
14	Bacteria Detection and Differentiation Using Impedance Flow Cytometry. Sensors, 2018, 18, 3496.	3.8	63
15	Detection of Glyphosate in Drinking Water: A Fast and Direct Detection Method without Sample Pretreatment. Sensors, 2018, 18, 2961.	3.8	64
16	Direct Detection of Candida albicans with a Membrane Based Electrochemical Impedance Spectroscopy Sensor. Sensors, 2018, 18, 2214.	3.8	13
17	Paper-based sensors for rapid detection of virulence factor produced by Pseudomonas aeruginosa. PLoS ONE, 2018, 13, e0194157.	2.5	43
18	System-Level Sensitivity Analysis of SiNW-bioFET-Based Biosensing Using Lock-In Amplification. IEEE Sensors Journal, 2017, 17, 6295-6311.	4.7	4

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19	In-situ doped junctionless polysilicon nanowires field effect transistors for low-cost biosensors. Sensing and Bio-Sensing Research, 2017, 13, 88-95.	4.2	6
20	Evolvable Smartphone-Based Platforms for Point-of-Care In-Vitro Diagnostics Applications. Diagnostics, 2016, 6, 33.	2.6	11
21	Fast Selective Detection of Pyocyanin Using Cyclic Voltammetry. Sensors, 2016, 16, 408.	3.8	67
22	Smartphone-based biosensing platform evolution: Implementation of electrochemical analysis capabilities. , 2016, , .		2
23	Electrochemical sensing of biomarker for diagnostics of bacteria-specific infections. Nanomedicine, 2016, 11, 2185-2195.	3.3	49
24	Model-Based Evaluation of System Scalability: Bandwidth Analysis for Smartphone-Based Biosensing Applications. , 2016, , .		0
25	A new application of plant virus nanoparticles as drug delivery in breast cancer. Tumor Biology, 2016, 37, 1229-1236.	1.8	76
26	Self-Assembled Peptide Nanostructures for the Development of Electrochemical Biosensors. , 2016, , 1125-1142.		1
27	Coplanar Electrode Layout Optimized for Increased Sensitivity for Electrical Impedance Spectroscopy. Micromachines, 2015, 6, 110-120.	2.9	37
28	Novel culturing platform for brain slices and neuronal cells. , 2015, 2015, 346-9.		3
29	A Smart Mobile Lab-on-Chip-Based Medical Diagnostics System Architecture Designed for Evolvability. , 2015, , .		8
30	Fabrication and Characterisation of Membraneâ€Based Gold Electrodes. Electroanalysis, 2015, 27, 217-224.	2.9	5
31	Integrating electrochemical detection with centrifugal microfluidics for real-time and fully automated sample testing. RSC Advances, 2015, 5, 17187-17193.	3.6	19
32	Fabrication of polyimide based microfluidic channels for biosensor devices. Journal of Micromechanics and Microengineering, 2015, 25, 035022.	2.6	17
33	An easy-to-use microfluidic interconnection system to create quick and reversibly interfaced simple microfluidic devices. Journal of Micromechanics and Microengineering, 2015, 25, 115010.	2.6	14
34	Fluidic system for long-term in vitro culturing and monitoring of organotypic brain slices. Biomedical Microdevices, 2015, 17, 71.	2.8	10
35	Fast differential scanning calorimetry of liquid samples with chips. Thermochimica Acta, 2015, 603, 162-171.	2.7	24
36	Self-Assembled Peptide Nanostructures for the Development of Electrochemical Biosensors. , 2015, , 1-15.		3

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37	Study of Paclitaxel-Treated HeLa Cells by Differential Electrical Impedance Flow Cytometry. Biosensors, 2014, 4, 257-272.	4.7	24
38	A Semi-Closed Device for Chromosome Spreading for Cytogenetic Analysis. Micromachines, 2014, 5, 158-170.	2.9	4
39	A Compact Microelectrode Array Chip with Multiple Measuring Sites for Electrochemical Applications. Sensors, 2014, 14, 9505-9521.	3.8	30
40	Novel Membrane-Based Electrochemical Sensor for Real-Time Bio-Applications. Sensors, 2014, 14, 22128-22139.	3.8	24
41	Synthesis and characterization of covalent diphenylalanine nanotube-folic acid conjugates. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	14
42	Label-free protein detection using a microfluidic Coulter-counter device. Sensors and Actuators B: Chemical, 2014, 190, 922-927.	7.8	32
43	Combined Cell Culture-Biosensing Platform Using Vertically Aligned Patterned Peptide Nanofibers for Cellular Studies. ACS Applied Materials & Interfaces, 2013, 5, 3323-3328.	8.0	28
44	Doped overoxidized polypyrrole microelectrodes as sensors for the detection of dopamine released from cell populations. Analyst, The, 2013, 138, 3651.	3.5	64
45	Fabrication and characterization of PEDOT nanowires based on self-assembled peptide nanotube lithography. Organic Electronics, 2013, 14, 1370-1375.	2.6	12
46	Computational and experimental studies of the interaction between single-walled carbon nanotubes and folic acid. Chemical Physics Letters, 2013, 564, 60-64.	2.6	12
47	Non-covalent conjugates of single-walled carbon nanotubes and folic acid for interaction with cells over-expressing folate receptors. Journal of Materials Chemistry B, 2013, 1, 1475.	5.8	45
48	Detection of cancer cells using a peptidenanotubeâ€“folic acid modified graphene electrode. Analyst, The, 2013, 138, 1026-1031.	3.5	130
49	Dielectrophoretic manipulation and solubility of protein nanofibrils formed from crude crystallins. Electrophoresis, 2013, 34, 1105-1112.	2.4	12
50	Alignment and Use of Self-Assembled Peptide Nanotubes as Dry-Etching Mask. Japanese Journal of Applied Physics, 2012, 51, 06FF13.	1.5	6
51	Monitoring the functionalization of single-walled carbon nanotubes with chitosan and folic acid by two-dimensional diffusion-ordered NMR spectroscopy. Carbon, 2012, 50, 2691-2697.	10.3	18
52	Novel 3D microelectrodes and pipettes by wet and dry etching. Microelectronic Engineering, 2012, 100, 33-36.	2.4	3
53	Fabrication of 3D nano/microelectrodes via two-photon-polymerization. Microelectronic Engineering, 2012, 98, 378-381.	2.4	19
54	Centrifugally driven microfluidic disc for detection of chromosomal translocations. Lab on A Chip, 2012, 12, 4628.	6.0	9

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55	Self-Assembled Diphenylalanine Nanowires for Cellular Studies and Sensor Applications. Journal of Nanoscience and Nanotechnology, 2012, 12, 3077-3083.	0.9	30
56	Advanced microtechnologies for detection of chromosome abnormalities by fluorescent in situ hybridization. Biomedical Microdevices, 2012, 14, 453-460.	2.8	13
57	Alignment and Use of Self-Assembled Peptide Nanotubes as Dry-Etching Mask. Japanese Journal of Applied Physics, 2012, 51, 06FF13.	1.5	4
58	A device for extraction, manipulation and stretching of DNA from single human chromosomes. Lab on A Chip, 2011, 11, 1431.	6.0	28
59	Stability of diphenylalaninepeptidenanotubes in solution. Nanoscale, 2011, 3, 994-998.	5.6	58
60	Silicon Nanowire as Virus Sensor in a Total Analysis System. Procedia Engineering, 2011, 25, 288-291.	1.2	10
61	FISHprep: A Novel Integrated Device for Metaphase FISH Sample Preparation. Micromachines, 2011, 2, 116-128.	2.9	13
62	Micro and nano-platforms for biological cell analysis. Sensors and Actuators A: Physical, 2011, 172, 54-60.	4.1	12
63	Development of an Electrochemical Metal-Ion Biosensor Using Self-Assembled Peptide Nanofibrils. ACS Applied Materials & Interfaces, 2011, 3, 1594-1600.	8.0	73
64	Microfluidic device to study cell transmigration under physiological shear stress conditions. Biomedical Microdevices, 2011, 13, 899-907.	2.8	12
65	High-yield production of hydrophobins RodA and RodB from Aspergillus fumigatus in Pichia pastoris. Applied Microbiology and Biotechnology, 2011, 90, 1923-1932.	3.6	20
66	Self-Assembled Peptide Nanotubes as an Etching Material for the Rapid Fabrication of Silicon Wires. BioNanoScience, 2011, 1, 31-37.	3.5	16
67	Dielectrophoretic manipulation of human chromosomes in microfluidic channels: extracting chromosome dielectric properties. Biochip Journal, 2011, 5, 56-62.	4.9	2
68	Electrostatic force microscopy of selfâ€assembled peptide structures. Scanning, 2011, 33, 201-207.	1.5	15
69	Micro-â€œfactoryâ€•for self-assembled peptide nanostructures. Microelectronic Engineering, 2011, 88, 1685-1688.	2.4	20
70	Microfluidic bioreactors for culture of non-adherent cells. Sensors and Actuators B: Chemical, 2011, 156, 1002-1008.	7.8	22
71	Dynamic in situ chromosome immobilisation and DNA extraction using localized poly(N-isopropylacrylamide) phase transition. Biomicrofluidics, 2011, 5, 031101.	2.4	4
72	Micro and nano-platforms for biological cell analysis. Procedia Engineering, 2010, 5, 33-36.	1.2	1

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73	Improved anti-stiction coating of SU-8 molds. Sensors and Actuators B: Chemical, 2010, 145, 698-701.	7.8	15
74	Superparamagnetic bead interactions with functionalized surfaces characterized by an immunomicroarray. Acta Biomaterialia, 2010, 6, 3936-3946.	8.3	7
75	Fabrication and Characterization of 3D Micro- and Nanoelectrodes for Neuron Recordings. Sensors, 2010, 10, 10339-10355.	3.8	20
76	Disposable micro-fluidic biosensor array for online parallelized cell adhesion kinetics analysis on quartz crystal resonators. Measurement Science and Technology, 2010, 21, 085801.	2.6	5
77	The influence of refractive index change and initial bending of cantilevers on the optical lever readout method. Review of Scientific Instruments, 2010, 81, 065104.	1.3	4
78	Metaphase FISH on a Chip: Miniaturized Microfluidic Device for Fluorescence in situ Hybridization. Sensors, 2010, 10, 9831-9846.	3.8	30
79	Conducting Polymer 3D Microelectrodes. Sensors, 2010, 10, 10986-11000.	3.8	18
80	Three dimensional electrochemical system for neurobiological studies. , 2009, 2009, 5870-4.		1
81	A generalized theoretical model for â€œcontinuous particle separation in a microchannel having asymmetrically arranged multiple branchesâ€• Lab on A Chip, 2009, 9, 1638.	6.0	13
82	Metallization of high aspect ratio, out of plane structures. , 2009, , .		0
83	Manipulation of biological samples using micro and nano techniques. Integrative Biology (United) Tj ETQq1 1 0.784314 rgBT /Overloc	1.3	132
84	Manipulation of selfâ€assembly amyloid peptide nanotubes by dielectrophoresis. Electrophoresis, 2008, 29, 5026-5032.	2.4	90
85	Qualitative Mapping of Structurally Different Dipeptide Nanotubes. Nano Letters, 2008, 8, 4066-4069.	9.1	29
86	Scanning conductance microscopy investigations on fixed human chromosomes. BioTechniques, 2008, 44, 225-228.	1.8	4
87	Mass and position determination of attached particles on cantilever based mass sensors. Review of Scientific Instruments, 2007, 78, 103303.	1.3	179
88	Temperature response of carbon nanotube networks. Journal of Physics: Conference Series, 2007, 61, 247-251.	0.4	9
89	Design, fabrication and testing of a novel MEMS resonator for mass sensing applications. Microelectronic Engineering, 2007, 84, 1601-1605.	2.4	54
90	Annealing and deposition effects of the chemical composition of silicon-rich nitride. Applied Surface Science, 2005, 243, 401-408.	6.1	31

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91	Characterization system for resonant micro- and nanocantilevers. Review of Scientific Instruments, 2005, 76, 125101.	1.3	12
92	Temperature and pressure dependence of resonance in multi-layer microcantilevers. Journal of Micromechanics and Microengineering, 2005, 15, 1454-1458.	2.6	107
93	Effect of gold coating on theQ-factor of a resonant cantilever. Journal of Micromechanics and Microengineering, 2005, 15, 2249-2253.	2.6	90
94	Ultrasensitive mass sensor fully integrated with complementary metal-oxide-semiconductor circuitry. Applied Physics Letters, 2005, 87, 043507.	3.3	105
95	Enhanced functionality of cantilever based mass sensors using higher modes. Applied Physics Letters, 2005, 86, 233501.	3.3	241
96	Amorphous silicon rich silicon nitride optical waveguides for high density integrated optics. Electronics Letters, 2004, 40, 419.	1.0	21
97	Sputtering of water ice. Nuclear Instruments & Methods in Physics Research B, 2003, 209, 294-303.	1.4	101
98	Advances in silica-based integrated optics. Optical Engineering, 2003, 42, 2821.	1.0	60
99	Spin-exchange and spin-destruction rates for the3Heâ^'Nasystem. Physical Review A, 2003, 67, .	2.5	11
100	Measurement of optical nonlinearity in silicon rich nitride waveguide ring resonators. Electronics Letters, 2003, 39, 1184.	1.0	1
101	Changes in density fluctuations associated with confinement transitions close to a rational edge rotational transform in the W7-AS stellarator. Plasma Physics and Controlled Fusion, 2002, 44, 1581-1607.	2.1	14
102	CO2 laser based two-volume collective scattering instrument for spatially localized turbulence measurements. Review of Scientific Instruments, 2001, 72, 2579-2592.	1.3	21
103	Sputtering of Surfaces of the Solid Hydrogens. Journal of Low Temperature Physics, 1998, 111, 569-576.	1.4	0
104	Angular distributions of emitted particles by laser ablation of silver at 355 nm. Applied Physics A: Materials Science and Processing, 1998, 66, 493-497.	2.3	21
105	Angular distributions and total yield of laser ablated silver. Nuclear Instruments & Methods in Physics Research B, 1997, 122, 356-358.	1.4	3
106	Ablation from metals induced by visible and UV laser irradiation. Applied Surface Science, 1996, 96-98, 518-521.	6.1	9
107	Laser ablation deposition measurements from silver and nickel. Applied Physics A: Materials Science and Processing, 1996, 63, 247-255.	2.3	0
108	Sputtering of thin and intermediately thick films of solid deuterium by keV electrons. Nuclear Instruments & Methods in Physics Research B, 1995, 101, 174-178.	1.4	5

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109	Sputtering of Thick Deuterium Films by KeV Electrons. Physical Review Letters, 1994, 73, 1444-1447.	7.8	13
110	Statistics and characteristics of xuv transition arrays from laser-produced plasmas of the elements tin through iodine. Physical Review A, 1994, 50, 3710-3718.	2.5	91