

Winnie Edith Svendsen

List of Publications by Year in descending order

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Version: 2024-02-01

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	Enhanced functionality of cantilever based mass sensors using higher modes. Applied Physics Letters, 2005, 86, 233501.	3.3	241
2	Mass and position determination of attached particles on cantilever based mass sensors. Review of Scientific Instruments, 2007, 78, 103303.	1.3	179
3	Manipulation of biological samples using micro and nano techniques. Integrative Biology (United Tj ETQq1 1 0.784314 rgBT /Overlo	1.3	132
4	Detection of cancer cells using a peptidenanotubeâ€“folic acid modified graphene electrode. Analyst, The, 2013, 138, 1026-1031.	3.5	130
5	Temperature and pressure dependence of resonance in multi-layer microcantilevers. Journal of Micromechanics and Microengineering, 2005, 15, 1454-1458.	2.6	107
6	Ultrasensitive mass sensor fully integrated with complementary metal-oxide-semiconductor circuitry. Applied Physics Letters, 2005, 87, 043507.	3.3	105
7	Sputtering of water ice. Nuclear Instruments & Methods in Physics Research B, 2003, 209, 294-303.	1.4	101
8	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
9	Effect of gold coating on the Q-factor of a resonant cantilever. Journal of Micromechanics and Microengineering, 2005, 15, 2249-2253.	2.6	90
10	Manipulation of selfâ€“assembly amyloid peptide nanotubes by dielectrophoresis. Electrophoresis, 2008, 29, 5026-5032.	2.4	90
11	A new application of plant virus nanoparticles as drug delivery in breast cancer. Tumor Biology, 2016, 37, 1229-1236.	1.8	76
12	Development of an Electrochemical Metal-Ion Biosensor Using Self-Assembled Peptide Nanofibrils. ACS Applied Materials & Interfaces, 2011, 3, 1594-1600.	8.0	73
13	Fast Selective Detection of Pyocyanin Using Cyclic Voltammetry. Sensors, 2016, 16, 408.	3.8	67
14	Doped overoxidized polypyrrole microelectrodes as sensors for the detection of dopamine released from cell populations. Analyst, The, 2013, 138, 3651.	3.5	64
15	Detection of Glyphosate in Drinking Water: A Fast and Direct Detection Method without Sample Pretreatment. Sensors, 2018, 18, 2961.	3.8	64
16	Bacteria Detection and Differentiation Using Impedance Flow Cytometry. Sensors, 2018, 18, 3496.	3.8	63
17	Advances in silica-based integrated optics. Optical Engineering, 2003, 42, 2821.	1.0	60
18	Stability of diphenylalaninepeptidenanotubes in solution. Nanoscale, 2011, 3, 994-998.	5.6	58

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19	Design, fabrication and testing of a novel MEMS resonator for mass sensing applications. <i>Microelectronic Engineering</i> , 2007, 84, 1601-1605.	2.4	54
20	Electrochemical Detection of Pyocyanin as a Biomarker for <i>Pseudomonas aeruginosa</i> : A Focused Review. <i>Sensors</i> , 2020, 20, 5218.	3.8	54
21	Electrochemical sensing of biomarker for diagnostics of bacteria-specific infections. <i>Nanomedicine</i> , 2016, 11, 2185-2195.	3.3	49
22	Non-covalent conjugates of single-walled carbon nanotubes and folic acid for interaction with cells over-expressing folate receptors. <i>Journal of Materials Chemistry B</i> , 2013, 1, 1475.	5.8	45
23	Paper-based sensors for rapid detection of virulence factor produced by <i>Pseudomonas aeruginosa</i> . <i>PLoS ONE</i> , 2018, 13, e0194157.	2.5	43
24	A hydrodynamic flow focusing microfluidic device for the continuous production of hexosomes based on docosahexaenoic acid monoglyceride. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 13005-13013.	2.8	38
25	Coplanar Electrode Layout Optimized for Increased Sensitivity for Electrical Impedance Spectroscopy. <i>Micromachines</i> , 2015, 6, 110-120.	2.9	37
26	Electrochemical determination of bentazone using simple screen-printed carbon electrodes. <i>Environment International</i> , 2019, 129, 400-407.	10.0	36
27	Label-free protein detection using a microfluidic Coulter-counter device. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 922-927.	7.8	32
28	Annealing and deposition effects of the chemical composition of silicon-rich nitride. <i>Applied Surface Science</i> , 2005, 243, 401-408.	6.1	31
29	Metaphase FISH on a Chip: Miniaturized Microfluidic Device for Fluorescence in situ Hybridization. <i>Sensors</i> , 2010, 10, 9831-9846.	3.8	30
30	Self-Assembled Diphenylalanine Nanowires for Cellular Studies and Sensor Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 3077-3083.	0.9	30
31	A Compact Microelectrode Array Chip with Multiple Measuring Sites for Electrochemical Applications. <i>Sensors</i> , 2014, 14, 9505-9521.	3.8	30
32	Qualitative Mapping of Structurally Different Dipeptide Nanotubes. <i>Nano Letters</i> , 2008, 8, 4066-4069.	9.1	29
33	A device for extraction, manipulation and stretching of DNA from single human chromosomes. <i>Lab on A Chip</i> , 2011, 11, 1431.	6.0	28
34	Combined Cell Culture-Biosensing Platform Using Vertically Aligned Patterned Peptide Nanofibers for Cellular Studies. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 3323-3328.	8.0	28
35	Investigating the Use of Impedance Flow Cytometry for Classifying the Viability State of <i>E. coli</i> . <i>Sensors</i> , 2020, 20, 6339.	3.8	26
36	Study of Paclitaxel-Treated HeLa Cells by Differential Electrical Impedance Flow Cytometry. <i>Biosensors</i> , 2014, 4, 257-272.	4.7	24

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37	Novel Membrane-Based Electrochemical Sensor for Real-Time Bio-Applications. <i>Sensors</i> , 2014, 14, 22128-22139.	3.8	24
38	Fast differential scanning calorimetry of liquid samples with chips. <i>Thermochimica Acta</i> , 2015, 603, 162-171.	2.7	24
39	Microfluidic bioreactors for culture of non-adherent cells. <i>Sensors and Actuators B: Chemical</i> , 2011, 156, 1002-1008.	7.8	22
40	Nanograss sensor for selective detection of <i>Pseudomonas aeruginosa</i> by pyocyanin identification in airway samples. <i>Analytical Biochemistry</i> , 2020, 593, 113586.	2.4	22
41	Angular distributions of emitted particles by laser ablation of silver at 355 nm. <i>Applied Physics A: Materials Science and Processing</i> , 1998, 66, 493-497.	2.3	21
42	CO2 laser based two-volume collective scattering instrument for spatially localized turbulence measurements. <i>Review of Scientific Instruments</i> , 2001, 72, 2579-2592.	1.3	21
43	Amorphous silicon rich silicon nitride optical waveguides for high density integrated optics. <i>Electronics Letters</i> , 2004, 40, 419.	1.0	21
44	Fabrication and Characterization of 3D Micro- and Nanoelectrodes for Neuron Recordings. <i>Sensors</i> , 2010, 10, 10339-10355.	3.8	20
45	High-yield production of hydrophobins RodA and RodB from <i>Aspergillus fumigatus</i> in <i>Pichia pastoris</i> . <i>Applied Microbiology and Biotechnology</i> , 2011, 90, 1923-1932.	3.6	20
46	Micro-â€œfactoryâ€œ for self-assembled peptide nanostructures. <i>Microelectronic Engineering</i> , 2011, 88, 1685-1688.	2.4	20
47	Fabrication of 3D nano/microelectrodes via two-photon-polymerization. <i>Microelectronic Engineering</i> , 2012, 98, 378-381.	2.4	19
48	Integrating electrochemical detection with centrifugal microfluidics for real-time and fully automated sample testing. <i>RSC Advances</i> , 2015, 5, 17187-17193.	3.6	19
49	Conducting Polymer 3D Microelectrodes. <i>Sensors</i> , 2010, 10, 10986-11000.	3.8	18
50	Monitoring the functionalization of single-walled carbon nanotubes with chitosan and folic acid by two-dimensional diffusion-ordered NMR spectroscopy. <i>Carbon</i> , 2012, 50, 2691-2697.	10.3	18
51	Fabrication of polyimide based microfluidic channels for biosensor devices. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 035022.	2.6	17
52	Self-Assembled Peptide Nanotubes as an Etching Material for the Rapid Fabrication of Silicon Wires. <i>BioNanoScience</i> , 2011, 1, 31-37.	3.5	16
53	Improved anti-stiction coating of SU-8 molds. <i>Sensors and Actuators B: Chemical</i> , 2010, 145, 698-701.	7.8	15
54	Electrostatic force microscopy of selfâ€œassembled peptide structures. <i>Scanning</i> , 2011, 33, 201-207.	1.5	15

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55	Changes in density fluctuations associated with confinement transitions close to a rational edge rotational transform in the W7-AS stellarator. <i>Plasma Physics and Controlled Fusion</i> , 2002, 44, 1581-1607.	2.1	14
56	Synthesis and characterization of covalent diphenylalanine nanotube-folic acid conjugates. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	14
57	An easy-to-use microfluidic interconnection system to create quick and reversibly interfaced simple microfluidic devices. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 115010.	2.6	14
58	Sputtering of Thick Deuterium Films by KeV Electrons. <i>Physical Review Letters</i> , 1994, 73, 1444-1447.	7.8	13
59	A generalized theoretical model for continuous particle separation in a microchannel having asymmetrically arranged multiple branches. <i>Lab on A Chip</i> , 2009, 9, 1638.	6.0	13
60	FISHprep: A Novel Integrated Device for Metaphase FISH Sample Preparation. <i>Micromachines</i> , 2011, 2, 116-128.	2.9	13
61	Advanced microtechnologies for detection of chromosome abnormalities by fluorescent in situ hybridization. <i>Biomedical Microdevices</i> , 2012, 14, 453-460.	2.8	13
62	Direct Detection of <i>Candida albicans</i> with a Membrane Based Electrochemical Impedance Spectroscopy Sensor. <i>Sensors</i> , 2018, 18, 2214.	3.8	13
63	Characterization system for resonant micro- and nanocantilevers. <i>Review of Scientific Instruments</i> , 2005, 76, 125101.	1.3	12
64	Micro and nano-platforms for biological cell analysis. <i>Sensors and Actuators A: Physical</i> , 2011, 172, 54-60.	4.1	12
65	Microfluidic device to study cell transmigration under physiological shear stress conditions. <i>Biomedical Microdevices</i> , 2011, 13, 899-907.	2.8	12
66	Fabrication and characterization of PEDOT nanowires based on self-assembled peptide nanotube lithography. <i>Organic Electronics</i> , 2013, 14, 1370-1375.	2.6	12
67	Computational and experimental studies of the interaction between single-walled carbon nanotubes and folic acid. <i>Chemical Physics Letters</i> , 2013, 564, 60-64.	2.6	12
68	Dielectrophoretic manipulation and solubility of protein nanofibrils formed from crude crystallins. <i>Electrophoresis</i> , 2013, 34, 1105-1112.	2.4	12
69	Spin-exchange and spin-destruction rates for the $^3\text{He}^{2+}\text{N}$ system. <i>Physical Review A</i> , 2003, 67, .	2.5	11
70	Evolvable Smartphone-Based Platforms for Point-of-Care In-Vitro Diagnostics Applications. <i>Diagnostics</i> , 2016, 6, 33.	2.6	11
71	Silicon Nanowire as Virus Sensor in a Total Analysis System. <i>Procedia Engineering</i> , 2011, 25, 288-291.	1.2	10
72	Fluidic system for long-term in vitro culturing and monitoring of organotypic brain slices. <i>Biomedical Microdevices</i> , 2015, 17, 71.	2.8	10

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73	Commercially available rapid diagnostic tests for the detection of high priority pathogens: status and challenges. <i>Analyst, The</i> , 2021, 146, 3750-3776.	3.5	10
74	Ablation from metals induced by visible and UV laser irradiation. <i>Applied Surface Science</i> , 1996, 96-98, 518-521.	6.1	9
75	Temperature response of carbon nanotube networks. <i>Journal of Physics: Conference Series</i> , 2007, 61, 247-251.	0.4	9
76	Centrifugally driven microfluidic disc for detection of chromosomal translocations. <i>Lab on A Chip</i> , 2012, 12, 4628.	6.0	9
77	A Smart Mobile Lab-on-Chip-Based Medical Diagnostics System Architecture Designed for Evolvability. , 2015, , .		8
78	pyEIA: A Python-based framework for data analysis of electrochemical methods for immunoassays. <i>SoftwareX</i> , 2021, 15, 100720.	2.6	8
79	Superparamagnetic bead interactions with functionalized surfaces characterized by an immunomicroarray. <i>Acta Biomaterialia</i> , 2010, 6, 3936-3946.	8.3	7
80	Continuous Microfluidic Production of Citrem-Phosphatidylcholine Nano-Self-Assemblies for Thymoquinone Delivery. <i>Nanomaterials</i> , 2021, 11, 1510.	4.1	7
81	Alignment and Use of Self-Assembled Peptide Nanotubes as Dry-Etching Mask. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 06FF13.	1.5	6
82	In-situ doped junctionless polysilicon nanowires field effect transistors for low-cost biosensors. <i>Sensing and Bio-Sensing Research</i> , 2017, 13, 88-95.	4.2	6
83	Sputtering of thin and intermediately thick films of solid deuterium by keV electrons. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1995, 101, 174-178.	1.4	5
84	Disposable micro-fluidic biosensor array for online parallelized cell adhesion kinetics analysis on quartz crystal resonators. <i>Measurement Science and Technology</i> , 2010, 21, 085801.	2.6	5
85	Fabrication and Characterisation of Membrane-Based Gold Electrodes. <i>Electroanalysis</i> , 2015, 27, 217-224.	2.9	5
86	Model-based systems engineering for life sciences instrumentation development. <i>Systems Engineering</i> , 2019, 22, 98-113.	2.7	5
87	Scanning conductance microscopy investigations on fixed human chromosomes. <i>BioTechniques</i> , 2008, 44, 225-228.	1.8	4
88	The influence of refractive index change and initial bending of cantilevers on the optical lever readout method. <i>Review of Scientific Instruments</i> , 2010, 81, 065104.	1.3	4
89	Dynamic in situ chromosome immobilisation and DNA extraction using localized poly(N-isopropylacrylamide) phase transition. <i>Biomicrofluidics</i> , 2011, 5, 031101.	2.4	4
90	A Semi-Closed Device for Chromosome Spreading for Cytogenetic Analysis. <i>Micromachines</i> , 2014, 5, 158-170.	2.9	4

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91	System-Level Sensitivity Analysis of SiNW-bioFET-Based Biosensing Using Lock-In Amplification. IEEE Sensors Journal, 2017, 17, 6295-6311.	4.7	4
92	Alignment and Use of Self-Assembled Peptide Nanotubes as Dry-Etching Mask. Japanese Journal of Applied Physics, 2012, 51, 06FF13.	1.5	4
93	Sub-100 nm Nanoparticle Upconcentration in Flow by Dielectrophoretic Forces. Micromachines, 2022, 13, 866.	2.9	4
94	Angular distributions and total yield of laser ablated silver. Nuclear Instruments & Methods in Physics Research B, 1997, 122, 356-358.	1.4	3
95	Novel 3D microelectrodes and pipettes by wet and dry etching. Microelectronic Engineering, 2012, 100, 33-36.	2.4	3
96	Novel culturing platform for brain slices and neuronal cells. , 2015, 2015, 346-9.		3
97	Diphenylalanine Peptide Nanowires as a Substrate for Neural Cultures. BioNanoScience, 2020, 10, 224-234.	3.5	3
98	Self-Assembled Peptide Nanostructures for the Development of Electrochemical Biosensors. , 2015, , 1-15.		3
99	Dielectrophoretic manipulation of human chromosomes in microfluidic channels: extracting chromosome dielectric properties. Biochip Journal, 2011, 5, 56-62.	4.9	2
100	Smartphone-based biosensing platform evolution: Implementation of electrochemical analysis capabilities. , 2016, , .		2
101	Measurement of optical nonlinearity in silicon rich nitride waveguide ring resonators. Electronics Letters, 2003, 39, 1184.	1.0	1
102	Three dimensional electrochemical system for neurobiological studies. , 2009, 2009, 5870-4.		1
103	Micro and nano-platforms for biological cell analysis. Procedia Engineering, 2010, 5, 33-36.	1.2	1
104	Self-Assembled Peptide Nanostructures for the Development of Electrochemical Biosensors. , 2016, , 1125-1142.		1
105	BiowareCFP: An Application-Agnostic Modular Reconfigurable Cyber-Fluidic Platform. Micromachines, 2022, 13, 249.	2.9	1
106	Sputtering of Surfaces of the Solid Hydrogens. Journal of Low Temperature Physics, 1998, 111, 569-576.	1.4	0
107	Metallization of high aspect ratio, out of plane structures. , 2009, , .		0
108	Model-Based Evaluation of System Scalability: Bandwidth Analysis for Smartphone-Based Biosensing Applications. , 2016, , .		0

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109	A Computer Vision Algorithm for the Digitalization of Colorimetric Lateral Flow Assay Readouts. , 2020, , .		0
110	Laser ablation deposition measurements from silver and nickel. Applied Physics A: Materials Science and Processing, 1996, 63, 247-255.	2.3	0