

# M Nance Ericson

## List of Publications by Year in descending order

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57  
papers

842  
citations

687363

13  
h-index

501196

28  
g-index

63  
all docs

63  
docs citations

63  
times ranked

1072  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and Testing of a Prototype Eddy Current Actuated Valve for the ITER Shattered Pellet Injection System. IEEE Transactions on Plasma Science, 2022, 50, 4177-4181.	1.3	3
2	A 100-Mrad (Si) JFET-Based Sensing and Communications System for Extreme Nuclear Instrumentation Environments. Nuclear Technology, 2022, 208, 1497-1510.	1.2	1
3	Nucleobase-Functionalized Poly(alkylthiophene)s: One-Pot, Sequential Direct Arylation Polymerization and Deprotection, and Surface Modification for Oil/Water Separations. ACS Applied Polymer Materials, 2021, 3, 1012-1021.	4.4	5
4	Synthesis of a soluble adenine-functionalized polythiophene through direct arylation polymerization and its fluorescence responsive behavior. Polymer Chemistry, 2020, 11, 820-829.	3.9	17
5	Characterization of a reversible thermally-actuated polymer-valve: A potential dynamic treatment for congenital diaphragmatic hernia. PLoS ONE, 2018, 13, e0209855.	2.5	2
6	In vivo performance of a visible wavelength optical sensor for monitoring intestinal perfusion and oxygenation. Journal of Biomedical Optics, 2018, 23, 1.	2.6	0
7	Linking design and properties of purine-based donor-acceptor chromophores as optoelectronic materials. Journal of Materials Chemistry C, 2017, 5, 6891-6898.	5.5	15
8	In-silico and in-vitro investigation of a photonic monitor for intestinal perfusion and oxygenation. Biomedical Optics Express, 2017, 8, 3714.	2.9	1
9	Cellular Interfacing with Arrays of Vertically Aligned Carbon Nanofibers and Nanofiber-Templated Materials. , 2017, , 177-202.		0
10	Disruption Mitigation System Developments and Design for ITER. Fusion Science and Technology, 2015, 68, 211-215.	1.1	42
11	Wireless Monitoring of Liver Hemodynamics In Vivo. PLoS ONE, 2014, 9, e102396.	2.5	13
12	Quantifying tissue mechanical properties using photoplethysmography. Biomedical Optics Express, 2014, 5, 2362.	2.9	16
13	Photoplethysmography beyond perfusion and oxygenation monitoring: pulse wave analysis for hepatic graft monitoring. , 2014, , .		0
14	Datasheet Driven Silicon Carbide Power MOSFET Model. IEEE Transactions on Power Electronics, 2014, 29, 2220-2228.	7.9	124
15	Intestinal perfusion monitoring using photoplethysmography. Journal of Biomedical Optics, 2013, 18, 087005.	2.6	9
16	Optical modeling toward optimizing monitoring of intestinal perfusion in trauma patients. Proceedings of SPIE, 2013, , .	0.8	0
17	<i>In vitro</i> performance of a perfusion and oxygenation optical sensor using a unique liver phantom. , 2012, , .		3
18	Performance assessment of an opto-fluidic phantom mimicking porcine liver parenchyma. Journal of Biomedical Optics, 2012, 17, 0770081.	2.6	5

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19	PVT Compensation for Wilkinson Single-Slope Measurement Systems. IEEE Transactions on Nuclear Science, 2012, 59, 2444-2450.	2.0	52
20	Vertically aligned carbon nanofiber as nano-neuron interface for monitoring neural function. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 419-423.	3.3	22
21	Optofluidic phantom mimicking optical properties of porcine livers. Biomedical Optics Express, 2011, 2, 1877.	2.9	25
22	Optimizing probe design for an implantable perfusion and oxygenation sensor. Biomedical Optics Express, 2011, 2, 2096.	2.9	13
23	Isolated Photosystem I Reaction Centers on a Functionalized Gated High Electron Mobility Transistor. IEEE Transactions on Nanobioscience, 2011, 10, 201-208.	3.3	1
24	Investigation of source-detector separation optimization for an implantable perfusion and oxygenation sensor for liver blood vessels. , 2011, , .		1
25	Si pillar structured thermal neutron detectors: fabrication challenges and performance expectations. Proceedings of SPIE, 2011, , .	0.8	10
26	A Precision Dose Control Circuit for Maskless E-Beam Lithography With Massively Parallel Vertically Aligned Carbon Nanofibers. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 1132-1140.	4.7	3
27	Optimizing source detector separation for an implantable perfusion and oxygenation sensor. , 2011, , .		5
28	A mobile motion analysis system using inertial sensors for analysis of lower limb prosthetics. , 2011, , .		5
29	Optimizing probe design for an implantable perfusion and oxygenation sensor. Biomedical Optics Express, 2011, 2, 2096-109.	2.9	5
30	Nine element Si-based pillar structured thermal neutron detector. , 2010, , .		8
31	A novel current-mode multi-channel integrating ADC. Analog Integrated Circuits and Signal Processing, 2010, 63, 283-291.	1.4	2
32	Transparent microarrays of vertically aligned carbon nanofibers as a multimodal tissue interface. , 2010, , .		1
33	Vertically aligned carbon nanofiber neural chip for interfacing with neurological system. , 2010, , .		0
34	VACNF arrays for recording dopamine concentrations in the brain. , 2010, , .		0
35	Controlled microfluidic production of alginate beads for in situ encapsulation of microbes. , 2009, , .		5
36	PATARA II: A 64-channel solid-state Neutron Detector readout system with integrated analog and digital processing for the SNS. , 2009, , .		0

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37	Development of a multispectral tissue characterization system for optimization of an implantable perfusion status monitor for transplanted liver. , 2009, 2009, 6565-8.		0
38	A high voltage CCD Sensor Control Chip for the Large Synoptic Survey Telescope (LSST). , 2008, , .		2
39	SiGe BiCMOS 12-bit 8-channel low power Wilkinson ADC. , 2008, , .		6
40	A high voltage CCD sensor control chip for the large synoptic survey telescope (LSST). , 2008, , .		1
41	A SiGe BiCMOS instrumentation channel for extreme environment applications. , 2008, , .		9
42	Integration of a dose control circuit with a vertically aligned nanofiber field emission device. Journal of Vacuum Science & Technology B, 2007, 25, 655.	1.3	7
43	Operation of the Digital Electrostatic e-beam Array Lithography (DEAL) prototype with dose control. , 2007, , .		0
44	Vertically Aligned Carbon Nanofiber Arrays: An Electrical and Genetic Substrate for Tissue Scaffolding. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5381-3.	0.5	5
45	Vertically Aligned Carbon Nanofiber Arrays Record Electrophysiological Signals from Hippocampal Slices. Nano Letters, 2007, 7, 2188-2195.	9.1	123
46	Digitally addressable vertically aligned carbon nanofibers for implementation of massively parallel maskless lithography. , 2007, , .		1
47	Cellular Interfacing with Arrays of Vertically Aligned Carbon Nanofibers and Nanofiber-Templated Materials. , 2007, , .		0
48	Resident Neuroelectrochemical Interfacing Using Carbon Nanofiber Arrays. Journal of Physical Chemistry B, 2006, 110, 15317-15327.	2.6	53
49	Processing of Pulse Oximeter Data Using Discrete Wavelet Analysis. IEEE Transactions on Biomedical Engineering, 2005, 52, 1350-1352.	4.2	25
50	An Autocorrelation-Based Time Domain Analysis Technique for Monitoring Perfusion and Oxygenation in Transplanted Organs. IEEE Transactions on Biomedical Engineering, 2005, 52, 1355-1358.	4.2	7
51	Real-Time Separation of Perfusion and Oxygenation Signals for an Implantable Sensor Using Adaptive Filtering. IEEE Transactions on Biomedical Engineering, 2005, 52, 2016-2023.	4.2	14
52	Development of an implantable oximetry-based organ perfusion sensor. , 2004, 2004, 2235-8.		9
53	Modeling of a three-source perfusion and blood oxygenation sensor for transplant monitoring using multilayer Monte Carlo code. , 2004, , .		1
54	Monte Carlo modeling for perfusion monitoring. , 2003, , .		2

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55	Telesensor Integrated Circuits. World Journal of Surgery, 2001, 25, 1412-1418.	1.6	2
56	DNA Biochip Using a Phototransistor Integrated Circuit. Analytical Chemistry, 1999, 71, 358-363.	6.5	147
57	A photospectrometer realized in a standard integrated circuit process. Review of Scientific Instruments, 1998, 69, 377-383.	1.3	8