M Nance Ericson

List of Publications by Year
in descending order

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57	842	687363 13	501196 28
papers	citations	h-index	g-index

63	63	63	1072
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	DNA Biochip Using a Phototransistor Integrated Circuit. Analytical Chemistry, 1999, 71, 358-363.	6.5	147
2	Datasheet Driven Silicon Carbide Power MOSFET Model. IEEE Transactions on Power Electronics, 2014, 29, 2220-2228.	7.9	124
3	Vertically Aligned Carbon Nanofiber Arrays Record Electrophysiological Signals from Hippocampal Slices. Nano Letters, 2007, 7, 2188-2195.	9.1	123
4	Resident Neuroelectrochemical Interfacing Using Carbon Nanofiber Arrays. Journal of Physical Chemistry B, 2006, 110, 15317-15327.	2.6	53
5	PVT Compensation for Wilkinson Single-Slope Measurement Systems. IEEE Transactions on Nuclear Science, 2012, 59, 2444-2450.	2.0	52
6	Disruption Mitigation System Developments and Design for ITER. Fusion Science and Technology, 2015, 68, 211-215.	1.1	42
7	Processing of Pulse Oximeter Data Using Discrete Wavelet Analysis. IEEE Transactions on Biomedical Engineering, 2005, 52, 1350-1352.	4.2	25
8	Optofluidic phantom mimicking optical properties of porcine livers. Biomedical Optics Express, 2011, 2, 1877.	2.9	25
9	Vertically aligned carbon nanofiber as nano-neuron interface for monitoring neural function. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 419-423.	3.3	22
10	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
11	Quantifying tissue mechanical properties using photoplethysmography. Biomedical Optics Express, 2014, 5, 2362.	2.9	16
12	Linking design and properties of purine-based donorâ€“acceptor chromophores as optoelectronic materials. Journal of Materials Chemistry C, 2017, 5, 6891-6898.	5.5	15
13	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
14	Optimizing probe design for an implantable perfusion and oxygenation sensor. Biomedical Optics Express, 2011, 2, 2096.	2.9	13
15	Wireless Monitoring of Liver Hemodynamics In Vivo. PLoS ONE, 2014, 9, e102396.	2.5	13
16	Si pillar structured thermal neutron detectors: fabrication challenges and performance expectations. Proceedings of SPIE, 2011, , .	0.8	10
17	Development of an implantable oximetry-based organ perfusion sensor. , 2004, 2004, 2235-8.		9
18	A SiGe BiCMOS instrumentation channel for extreme environment applications. , 2008, , .		9

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19	Intestinal perfusion monitoring using photoplethysmography. Journal of Biomedical Optics, 2013, 18, 087005.	2.6	9
20	A photospectrometer realized in a standard integrated circuit process. Review of Scientific Instruments, 1998, 69, 377-383.	1.3	8
21	Nine element Si-based pillar structured thermal neutron detector. , 2010, , .		8
22	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
23	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
24	SiGe BiCMOS 12-bit 8-channel low power Wilkinson ADC. , 2008, , .		6
25	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
26	Controlled microfluidic production of alginate beads for in situ encapsulation of microbes. , 2009, , .		5
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	Performance assessment of an opto-fluidic phantom mimicking porcine liver parenchyma. Journal of Biomedical Optics, 2012, 17, 0770081.	2.6	5
30	Nucleobase-Functionalized Poly(alkylthiophene)s: One-Pot, Sequential Direct Arylation Polymerization and Deprotection, and Surface Modification for Oilâ€“Water Separations. ACS Applied Polymer Materials, 2021, 3, 1012-1021.	4.4	5
31	Optimizing probe design for an implantable perfusion and oxygenation sensor. Biomedical Optics Express, 2011, 2, 2096-109.	2.9	5
32	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
33	In vitro performance of a perfusion and oxygenation optical sensor using a unique liver phantom. , 2012, , .		3
34	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
35	Telesensor Integrated Circuits. World Journal of Surgery, 2001, 25, 1412-1418.	1.6	2
36	A high voltage CCD Sensor Control Chip for the Large Synoptic Survey Telescope (LSST). , 2008, , .		2

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37	A novel current-mode multi-channel integrating ADC. Analog Integrated Circuits and Signal Processing, 2010, 63, 283-291.	1.4	2
38	Characterization of a reversible thermally-actuated polymer-valve: A potential dynamic treatment for congenital diaphragmatic hernia. PLoS ONE, 2018, 13, e0209855.	2.5	2
39	Monte Carlo modeling for perfusion monitoring. , 2003, , .		2
40	Modeling of a three-source perfusion and blood oxygenation sensor for transplant monitoring using multilayer Monte Carlo code. , 2004, , .		1
41	Digitally addressable vertically aligned carbon nanofibers for implementation of massively parallel maskless lithography. , 2007, , .		1
42	A high voltage CCD sensor control chip for the large synoptic survey telescope (LSST). , 2008, , .		1
43	Transparent microarrays of vertically aligned carbon nanofibers as a multimodal tissue interface. , 2010, , .		1
44	Isolated Photosystem I Reaction Centers on a Functionalized Gated High Electron Mobility Transistor. IEEE Transactions on Nanobioscience, 2011, 10, 201-208.	3.3	1
45	Investigation of source-detector separation optimization for an implantable perfusion and oxygenation sensor for liver blood vessels. , 2011, , .		1
46	In-silico and in-vitro investigation of a photonic monitor for intestinal perfusion and oxygenation. Biomedical Optics Express, 2017, 8, 3714.	2.9	1
47	A 100-Mrad (Si) JFET-Based Sensing and Communications System for Extreme Nuclear Instrumentation Environments. Nuclear Technology, 2022, 208, 1497-1510.	1.2	1
48	Operation of the Digital Electrostatic e-beam Array Lithography (DEAL) prototype with dose control. , 2007, , .		0
49	PATARA II: A 64-channel solid-state Neutron Detector readout system with integrated analog and digital processing for the SNS. , 2009, , .		0
50	Development of a multispectral tissue characterization system for optimization of an implantable perfusion status monitor for transplanted liver. , 2009, 2009, 6565-8.		0
51	Vertically aligned carbon nanofiber neural chip for interfacing with neurological system. , 2010, , .		0
52	VACNF arrays for recording dopamine concentrations in the brain. , 2010, , .		0
53	Optical modeling toward optimizing monitoring of intestinal perfusion in trauma patients. Proceedings of SPIE, 2013, , .	0.8	0
54	Photoplethysmography beyond perfusion and oxygenation monitoring: pulse wave analysis for hepatic graft monitoring. , 2014, , .		0

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55	Cellular Interfacing with Arrays of Vertically Aligned Carbon Nanofibers and Nanofiber-Templated Materials. , 2007, , .		0
56	Cellular Interfacing with Arrays of Vertically Aligned Carbon Nanofibers and Nanofiber-Templated Materials. , 2017, , 177-202.		0
57	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