

Timothy E Mcknight

List of Publications by Year in descending order

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36
papers

1,014
citations

471509

17
h-index

477307

29
g-index

37
all docs

37
docs citations

37
times ranked

1040
citing authors

#	ARTICLE	IF	CITATIONS
1	Intracellular integration of synthetic nanostructures with viable cells for controlled biochemical manipulation. <i>Nanotechnology</i> , 2003, 14, 551-556.	2.6	187
2	Tracking Gene Expression after DNA Delivery Using Spatially Indexed Nanofiber Arrays. <i>Nano Letters</i> , 2004, 4, 1213-1219.	9.1	148
3	Vertically Aligned Carbon Nanofiber Arrays Record Electrophysiological Signals from Hippocampal Slices. <i>Nano Letters</i> , 2007, 7, 2188-2195.	9.1	123
4	Resident Neuroelectrochemical Interfacing Using Carbon Nanofiber Arrays. <i>Journal of Physical Chemistry B</i> , 2006, 110, 15317-15327.	2.6	53
5	Microarrays of Vertically-Aligned Carbon Nanofiber Electrodes in an Open Fluidic Channel. <i>Journal of Physical Chemistry B</i> , 2004, 108, 7115-7125.	2.6	47
6	Inducible RNA Interference-Mediated Gene Silencing Using Nanostructured Gene Delivery Arrays. <i>ACS Nano</i> , 2008, 2, 69-76.	14.6	46
7	Microarrays of Biomimetic Cells Formed by the Controlled Synthesis of Carbon Nanofiber Membranes. <i>Nano Letters</i> , 2004, 4, 1809-1814.	9.1	45
8	Immobilization and release strategies for DNA delivery using carbon nanofiber arrays and self-assembled monolayers. <i>Nanotechnology</i> , 2009, 20, 145304.	2.6	36
9	Site-Specific Biochemical Functionalization along the Height of Vertically Aligned Carbon Nanofiber Arrays. <i>Chemistry of Materials</i> , 2006, 18, 3203-3211.	6.7	33
10	Synthesis of vertically aligned carbon nanofibres for interfacing with live systems. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 193001.	2.8	30
11	Effects of Microfabrication Processing on the Electrochemistry of Carbon Nanofiber Electrodes. <i>Journal of Physical Chemistry B</i> , 2003, 107, 10722-10728.	2.6	29
12	Biochemical functionalization of vertically aligned carbon nanofibres. <i>Nanotechnology</i> , 2006, 17, 2032-2039.	2.6	29
13	Actuatable Membranes Based on Polypyrrole-Coated Vertically Aligned Carbon Nanofibers. <i>ACS Nano</i> , 2008, 2, 247-254.	14.6	26
14	Vertically aligned carbon nanofiber as nano-neuron interface for monitoring neural function. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012, 8, 419-423.	3.3	22
15	Electrical and microstructural characterization of molybdenum tungsten electrodes using a combinatorial thin film sputtering technique. <i>Journal of Applied Physics</i> , 2005, 97, 054906.	2.5	21
16	Low-temperature solid-phase crystallization of amorphous silicon thin films deposited by rf magnetron sputtering with substrate bias. <i>Applied Physics Letters</i> , 2006, 89, 022104.	3.3	20
17	Controlling the dimensions of carbon nanofiber structures through the electropolymerization of pyrrole. <i>Synthetic Metals</i> , 2007, 157, 282-289.	3.9	18
18	Quantitative analysis of EDC-condensed DNA on vertically aligned carbon nanofiber gene delivery arrays. <i>Biotechnology and Bioengineering</i> , 2007, 97, 680-688.	3.3	15

#	ARTICLE	IF	CITATIONS
19	End-specific strategies of attachment of long double stranded DNA onto gold-coated nanofiber arrays. <i>Nanotechnology</i> , 2008, 19, 435301.	2.6	14
20	Direct-current substrate bias effects on amorphous silicon sputter-deposited films for thin film transistor fabrication. <i>Applied Physics Letters</i> , 2005, 87, 132108.	3.3	11
21	Active-Matrix Microelectrode Arrays Integrated With Vertically Aligned Carbon Nanofibers. <i>IEEE Electron Device Letters</i> , 2009, 30, 254-257.	3.9	11
22	Transfer of Vertically Aligned Carbon Nanofibers to Polydimethylsiloxane (PDMS) While Maintaining their Alignment and Impalefection Functionality. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 878-882.	8.0	10
23	Effects of ultramicroelectrode dimensions on the electropolymerization of polypyrrole. <i>Journal of Applied Physics</i> , 2009, 105, 124312.	2.5	8
24	Carbon Nanofiber Arrays: A Novel Tool for Microdelivery of Biomolecules to Plants. <i>PLoS ONE</i> , 2016, 11, e0153621.	2.5	7
25	Challenges in process integration of catalytic DC plasma synthesis of vertically aligned carbon nanofibres. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 174008.	2.8	6
26	Controlled microfluidic production of alginate beads for in situ encapsulation of microbes. , 2009, , .		5
27	Role of Ion Flux on Alignment of Carbon Nanofibers Synthesized by DC Plasma on Transparent Insulating Substrates. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 3501-3507.	8.0	5
28	Synthetic Nanoscale Elements for Delivery of Materials Into Viable Cells. , 2005, 303, 191-208.		3
29	Characterization of a reversible thermally-actuated polymer-valve: A potential dynamic treatment for congenital diaphragmatic hernia. <i>PLoS ONE</i> , 2018, 13, e0209855.	2.5	2
30	Fabrication and Characterization of an Active Matrix Thin Film Transistor Array for Intracellular Probing. <i>Materials Research Society Symposia Proceedings</i> , 2005, 873, 1.	0.1	1
31	Detection of Alcohol with Vertically Aligned Carbon Nanofiber (VACNF). , 2007, , .		1
32	Transparent microarrays of vertically aligned carbon nanofibers as a multimodal tissue interface. , 2010, , .		1
33	<title>Optically and electrically addressed carbon nanofiber electrode arrays for intracellular interfacing</title>. , 2004, , .		0
34	Integration of Vertically Aligned Carbon Nano Fibers with CMOS Integrated Circuits for Sensor Applications. , 2006, , .		0
35	Vertically aligned carbon nanofiber neural chip for interfacing with neurological system. , 2010, , .		0
36	Cellular Interfacing with Arrays of Vertically Aligned Carbon Nanofibers and Nanofiber-Templated Materials. , 2017, , 177-202.		0