

Timothy E Mcknight

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/12055780/publications.pdf>

Version: 2024-02-01

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 | Characterization of a reversible thermally-actuated polymer-valve: A potential dynamic treatment for congenital diaphragmatic hernia. PLoS ONE, 2018, 13, e0209855. | 2.5 | 2 |
| 2 | Cellular Interfacing with Arrays of Vertically Aligned Carbon Nanofibers and Nanofiber-Templated Materials. , 2017, , 177-202. | | 0 |
| 3 | Carbon Nanofiber Arrays: A Novel Tool for Microdelivery of Biomolecules to Plants. PLoS ONE, 2016, 11, e0153621. | 2.5 | 7 |
| 4 | Transfer of Vertically Aligned Carbon Nanofibers to Polydimethylsiloxane (PDMS) While Maintaining their Alignment and Impalefection Functionality. ACS Applied Materials & Interfaces, 2013, 5, 878-882. | 8.0 | 10 |
| 5 | Vertically aligned carbon nanofiber as nano-neuron interface for monitoring neural function. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 419-423. | 3.3 | 22 |
| 6 | Role of Ion Flux on Alignment of Carbon Nanofibers Synthesized by DC Plasma on Transparent Insulating Substrates. ACS Applied Materials & Interfaces, 2011, 3, 3501-3507. | 8.0 | 5 |
| 7 | Challenges in process integration of catalytic DC plasma synthesis of vertically aligned carbon nanofibres. Journal Physics D: Applied Physics, 2011, 44, 174008. | 2.8 | 6 |
| 8 | Transparent microarrays of vertically aligned carbon nanofibers as a multimodal tissue interface. , 2010, , . | | 1 |
| 9 | Vertically aligned carbon nanofiber neural chip for interfacing with neurological system. , 2010, , . | | 0 |
| 10 | Controlled microfluidic production of alginate beads for in situ encapsulation of microbes. , 2009, , . | | 5 |
| 11 | Synthesis of vertically aligned carbon nanofibres for interfacing with live systems. Journal Physics D: Applied Physics, 2009, 42, 193001. | 2.8 | 30 |
| 12 | Effects of ultramicroelectrode dimensions on the electropolymerization of polypyrrole. Journal of Applied Physics, 2009, 105, 124312. | 2.5 | 8 |
| 13 | Immobilization and release strategies for DNA delivery using carbon nanofiber arrays and self-assembled monolayers. Nanotechnology, 2009, 20, 145304. | 2.6 | 36 |
| 14 | Active-Matrix Microelectrode Arrays Integrated With Vertically Aligned Carbon Nanofibers. IEEE Electron Device Letters, 2009, 30, 254-257. | 3.9 | 11 |
| 15 | Actuatable Membranes Based on Polypyrrole-Coated Vertically Aligned Carbon Nanofibers. ACS Nano, 2008, 2, 247-254. | 14.6 | 26 |
| 16 | Inducible RNA Interference-Mediated Gene Silencing Using Nanostructured Gene Delivery Arrays. ACS Nano, 2008, 2, 69-76. | 14.6 | 46 |
| 17 | End-specific strategies of attachment of long double stranded DNA onto gold-coated nanofiber arrays. Nanotechnology, 2008, 19, 435301. | 2.6 | 14 |
| 18 | Detection of Alcohol with Vertically Aligned Carbon Nanofiber (VACNF). , 2007, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Controlling the dimensions of carbon nanofiber structures through the electropolymerization of pyrrole. <i>Synthetic Metals</i> , 2007, 157, 282-289. | 3.9 | 18 |
| 20 | Vertically Aligned Carbon Nanofiber Arrays Record Electrophysiological Signals from Hippocampal Slices. <i>Nano Letters</i> , 2007, 7, 2188-2195. | 9.1 | 123 |
| 21 | 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 |
| 22 | Integration of Vertically Aligned Carbon Nano Fibers with CMOS Integrated Circuits for Sensor Applications. , 2006, , . | | 0 |
| 23 | 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 |
| 24 | Resident Neuroelectrochemical Interfacing Using Carbon Nanofiber Arrays. <i>Journal of Physical Chemistry B</i> , 2006, 110, 15317-15327. | 2.6 | 53 |
| 25 | 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 |
| 26 | Biochemical functionalization of vertically aligned carbon nanofibres. <i>Nanotechnology</i> , 2006, 17, 2032-2039. | 2.6 | 29 |
| 27 | 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 |
| 28 | Synthetic Nanoscale Elements for Delivery of Materials Into Viable Cells. , 2005, 303, 191-208. | | 3 |
| 29 | 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 |
| 30 | 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 |
| 31 | Tracking Gene Expression after DNA Delivery Using Spatially Indexed Nanofiber Arrays. <i>Nano Letters</i> , 2004, 4, 1213-1219. | 9.1 | 148 |
| 32 | Microarrays of Biomimetic Cells Formed by the Controlled Synthesis of Carbon Nanofiber Membranes. <i>Nano Letters</i> , 2004, 4, 1809-1814. | 9.1 | 45 |
| 33 | 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 |
| 34 | <title>Optically and electrically addressed carbon nanofiber electrode arrays for intracellular interfacing</title>. , 2004, , . | | 0 |
| 35 | 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 |
| 36 | Intracellular integration of synthetic nanostructures with viable cells for controlled biochemical manipulation. <i>Nanotechnology</i> , 2003, 14, 551-556. | 2.6 | 187 |