

Jenna L Rickus

List of Publications by Year in descending order

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54
papers

1,525
citations

331670

21
h-index

315739

38
g-index

55
all docs

55
docs citations

55
times ranked

2639
citing authors

#	ARTICLE	IF	CITATIONS
1	Islet β -Cell Endoplasmic Reticulum Stress Precedes the Onset of Type 1 Diabetes in the Nonobese Diabetic Mouse Model. <i>Diabetes</i> , 2012, 61, 818-827.	0.6	299
2	A novel and simple cell-based detection system with a collagen-encapsulated B-lymphocyte cell line as a biosensor for rapid detection of pathogens and toxins. <i>Laboratory Investigation</i> , 2008, 88, 196-206.	3.7	99
3	A self referencing platinum nanoparticle decorated enzyme-based microbiosensor for real time measurement of physiological glucose transport. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2237-2245.	10.1	79
4	Optical Nanosensor Architecture for Cell-Signaling Molecules Using DNA Aptamer-Coated Carbon Nanotubes. <i>ACS Nano</i> , 2011, 5, 4236-4244.	14.6	78
5	A comparative study of enzyme immobilization strategies for multi-walled carbon nanotube glucose biosensors. <i>Nanotechnology</i> , 2011, 22, 355502.	2.6	75
6	In Vitro Biocompatibility Studies of Antibacterial Quaternary Polymers. <i>Biomacromolecules</i> , 2009, 10, 2550-2555.	5.4	67
7	A self-referencing glutamate biosensor for measuring real time neuronal glutamate flux. <i>Journal of Neuroscience Methods</i> , 2010, 189, 14-22.	2.5	62
8	Electrochemical glutamate biosensing with nanocube and nanosphere augmented single-walled carbon nanotube networks: a comparative study. <i>Journal of Materials Chemistry</i> , 2011, 21, 11224.	6.7	58
9	Extracellular Matrix Properties Regulate the Migratory Response of Glioblastoma Stem Cells in Three-Dimensional Culture. <i>Tissue Engineering - Part A</i> , 2015, 21, 2572-2582.	3.1	58
10	Surface Analysis by X-ray Photoelectron Spectroscopy of Sol-gel Silica Modified with Covalently Bound Peptides. <i>Journal of Physical Chemistry B</i> , 2007, 111, 11850-11857.	2.6	56
11	Silver nanoparticle-specific mitotoxicity in <i>Daphnia magna</i> . <i>Nanotoxicology</i> , 2014, 8, 833-842.	3.0	51
12	Liposome-Doped Nanocomposites as Artificial-Cell-Based Biosensors: Detection of Listeriolysin O. <i>Biotechnology Progress</i> , 2006, 22, 32-37.	2.6	41
13	Thin-film silica sol-gel coatings for neural microelectrodes. <i>Journal of Neuroscience Methods</i> , 2009, 180, 106-110.	2.5	39
14	A multi-scale stochastic drug release model for polymer-coated targeted drug delivery systems. <i>Journal of Controlled Release</i> , 2006, 110, 314-322.	9.9	34
15	Sol-gel derived materials as substrates for neuronal differentiation: effects of surface features and protein conformation. <i>Journal of Materials Chemistry</i> , 2006, 16, 3221.	6.7	33
16	Resistive and reactive changes to the impedance of intracortical microelectrodes can be mitigated with polyethylene glycol under acute in vitro and in vivo settings. <i>Frontiers in Neuroengineering</i> , 2014, 7, 33.	4.8	33
17	Presence of stromal cells in a bioengineered tumor microenvironment alters glioblastoma migration and response to STAT3 inhibition. <i>PLoS ONE</i> , 2018, 13, e0194183.	2.5	31
18	Oscillatory glucose flux in INS 1 pancreatic β cells: A self-referencing microbiosensor study. <i>Analytical Biochemistry</i> , 2011, 411, 185-193.	2.4	29

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19	Compartmentalized Nanocomposite for Dynamic Nitric Oxide Release. <i>Journal of Physical Chemistry B</i> , 2008, 112, 15086-15093.	2.6	25
20	The role of multiscale computational approaches for rational design of conventional and nanoparticle oral drug delivery systems. <i>International Journal of Nanomedicine</i> , 2007, 2, 315-31.	6.7	25
21	Photochemical Coenzyme Regeneration in an Enzymatically Active Optical Material. <i>Journal of Physical Chemistry B</i> , 2004, 108, 9325-9332.	2.6	21
22	Peptide ormosils as cellular substrates. <i>Journal of Materials Chemistry</i> , 2007, 17, 5058.	6.7	21
23	An autonomous lab on a chip for space flight calibration of gravity-induced transcellular calcium polarization in single-cell fern spores. <i>Lab on A Chip</i> , 2017, 17, 1095-1103.	6.0	21
24	Hybridoma Ped-2E9 cells cultured under modified conditions can sensitively detect <i>Listeria monocytogenes</i> and <i>Bacillus cereus</i> . <i>Applied Microbiology and Biotechnology</i> , 2007, 73, 1423-1434.	3.6	19
25	Cell-mediated deposition of porous silica on bacterial biofilms. <i>Biotechnology and Bioengineering</i> , 2011, 108, 2249-2260.	3.3	18
26	Magnetic insertion system for flexible electrode implantation. <i>Journal of Neuroscience Methods</i> , 2009, 183, 213-222.	2.5	17
27	Optically Based Sol-Gel Biosensor Materials. , 2002, , 427-456.		16
28	Effects of adsorbed proteins, an antifouling agent and long-duration DC voltage pulses on the impedance of silicon-based neural microelectrodes. , 2009, 2009, 7139-42.		14
29	Glial cells, but not neurons, exhibit a controllable response to a localized inflammatory microenvironment in vitro. <i>Frontiers in Neuroengineering</i> , 2014, 7, 41.	4.8	13
30	Mouse and human islets survive and function after coating by biosilicification. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013, 305, E1230-E1240.	3.5	11
31	Robust Functionalization of Large Microelectrode Arrays by Using Pulsed Potentiostatic Deposition. <i>Sensors</i> , 2017, 17, 22.	3.8	11
32	Controllable Surface Expression of Bioactive Peptides Incorporated into a Silica Thin Film Matrix. <i>Journal of Physical Chemistry C</i> , 2010, 114, 342-344.	3.1	10
33	Impact of coenzyme regeneration on the performance of an enzyme-based optical biosensor: A computational study. <i>Biosensors and Bioelectronics</i> , 2005, 21, 965-972.	10.1	8
34	Noninvasive approaches to measuring respiratory patterns using a PtTFPP based phase-lifetime self-referencing oxygen optrode. , 2006, , .		8
35	On-chip microelectrode array and in situ transient calibration for measurement of transient concentration gradients near surfaces of 2D cell cultures. <i>Sensors and Actuators B: Chemical</i> , 2018, 260, 519-528.	7.8	8
36	Integration of a Genetically Encoded Calcium Molecular Sensor into Photopolymerizable Hydrogels for Micro-Optrode-Based Sensing. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 31557-31567.	8.0	7

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37	CALIBRATION OF NEUROTRANSMITTER RELEASE FROM NEURAL CELLS FOR THERAPEUTIC IMPLANTS. International Journal of Neural Systems, 2009, 19, 197-212.	5.2	6
38	Robust Covalent Coupling Scheme for the Development of FRET Aptasensor based on Amino-Silane-Modified Graphene Oxide. Langmuir, 2018, 34, 14586-14596.	3.5	4
39	Real-time characterization of uptake kinetics of glioblastoma vs. astrocytes in 2D cell culture using microelectrode array. Analyst, The, 2018, 143, 4954-4966.	3.5	4
40	The next wave: We will all be data scientists. Statistical Analysis and Data Mining, 2020, 13, 544-547.	2.8	4
41	Photochemical Enzyme Co-Factor Regeneration: Towards Continuous Glutamate Monitoring with a Sol-Gel Optical Biosensor. Materials Research Society Symposia Proceedings, 2002, 723, 621.	0.1	3
42	Sol-Gel Optical Sensors for Glutamate. Materials Research Society Symposia Proceedings, 2000, 662, 1.	0.1	2
43	Light-directed functionalization methods for high-resolution optical fiber based biosensors. Proceedings of SPIE, 2015, , .	0.8	2
44	Interactions Between Chemical Functionality and Nanoscale Surface Topography Impact Fibronectin Conformation and Neuronal Differentiation on Model Sol-gel Silica Substrates. Materials Research Society Symposia Proceedings, 2006, 950, 1.	0.1	1
45	Preparation of biomolecule gel matrices for electron microscopy. Ultramicroscopy, 2008, 108, 309-313.	1.9	1
46	Organic Hydrogel Templates for Tunable Mesoporous Silica Hybrid Materials. Materials Research Society Symposia Proceedings, 2015, 1721, 1.	0.1	1
47	Collagen-fibril matrix properties modulate the kinetics of silica polycondensation to template and direct biomineralization. Journal of Materials Research, 2016, 31, 311-320.	2.6	1
48	Integration of a Glutamate Sensitive Genetically Encoded Sensor Protein into Photocrosslinkable Hydrogel Optrodes. MRS Advances, 2016, 1, 539-546.	0.9	1
49	Enzyme-Doped Thin Films and Optical Fiber Sensors for Glutamate. , 2002, , .		0
50	A portable cell-based optical detection device for rapid detection of Listeria and Bacillus toxins. , 2005, , .		0
51	Biosensors: Biological Agents. , 2010, , 178-182.		0
52	Directed enzyme deposition via electroactive polymer-based nanomaterials for multi-analyte amperometric biosensors. , 2012, , .		0
53	Electrochemical micro-electrode arrays for measurement of transient concentration gradients of hydrogen peroxide. , 2016, , .		0
54	Abstract B23: Characterization of canine glioma cancer stem cells for human glioblastoma models. , 2015, , .		0