Yi Cheng

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2287251/publications.pdf

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28	1,914	236925	526287
papers	citations	25	27
		h-index	g-index

28	28	28	2639
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Chitosan to Connect Biology to Electronics: Fabricating the Bio-Device Interface and Communicating Across This Interface. Polymers, 2015, 7, 1-46.	4.5	87
2	Simple SERS substrates: powerful, portable, and full of potential. Physical Chemistry Chemical Physics, 2014, 16, 2224-2239.	2.8	197
3	Electronic modulation of biochemical signal generation. Nature Nanotechnology, 2014, 9, 605-610.	31.5	52
4	Biofabricating the Bio-Device Interface Using Biological Materials and Mechanisms. , 2013, , 239-257.		1
5	Electrodeposition of a weak polyelectrolyte hydrogel: remarkable effects of salt on kinetics, structure and properties. Soft Matter, 2013, 9, 2703.	2.7	59
6	Accessing biology's toolbox for the mesoscale biofabrication of soft matter. Soft Matter, 2013, 9, 6019.	2.7	30
7	Optically clear alginate hydrogels for spatially controlled cell entrapment and culture at microfluidic electrode surfaces. Lab on A Chip, 2013, 13, 1854.	6.0	39
8	Autonomous bacterial localization and gene expression based on nearby cell receptor density. Molecular Systems Biology, 2013, 9, 636.	7.2	65
9	Bridging the Bio-Electronic Interface with Biofabrication. Journal of Visualized Experiments, 2012, , e4231.	0.3	1
10	Electrodeposition of a Biopolymeric Hydrogel: Potential for One-Step Protein Electroaddressing. Biomacromolecules, 2012, 13, 1181-1189.	5.4	82
11	Characterization of the cathodic electrodeposition of semicrystalline chitosan hydrogel. Materials Letters, 2012, 87, 97-100.	2.6	41
12	Characterizing individual SnO2 nanobelt field-effect transistors and their intrinsic responses to hydrogen and ambient gases. Materials Chemistry and Physics, 2012, 137, 372-380.	4.0	42
13	Biofabrication: programmable assembly of polysaccharide hydrogels in microfluidics as biocompatible scaffolds. Journal of Materials Chemistry, 2012, 22, 7659.	6.7	75
14	Direct SERS detection of contaminants in a complex mixture: rapid, single step screening for melamine in liquid infant formula. Analyst, The, 2012, 137, 826.	3.5	68
15	Biofabricating Multifunctional Soft Matter with Enzymes and Stimuliâ€Responsive Materials. Advanced Functional Materials, 2012, 22, 3004-3012.	14.9	54
16	Integrated biofabrication for electroâ€addressed inâ€film bioprocessing. Biotechnology Journal, 2012, 7, 428-439.	3.5	13
17	Biofabrication of stratified biofilm mimics for observation and control of bacterial signaling. Biomaterials, 2012, 33, 5136-5143.	11.4	46
18	Electroaddressing Functionalized Polysaccharides as Model Biofilms for Interrogating Cell Signaling. Advanced Functional Materials, 2012, 22, 519-528.	14.9	61

#	Article	IF	Citations
19	Electroaddressing Agarose Using Fmoc-Phenylalanine as a Temporary Scaffold. Langmuir, 2011, 27, 7380-7384.	3.5	28
20	Mechanism of anodic electrodeposition of calcium alginate. Soft Matter, 2011, 7, 5677.	2.7	103
21	Biocompatible multi-address 3D cell assembly in microfluidic devices using spatially programmable gel formation. Lab on A Chip, 2011, 11, 2316.	6.0	68
22	Functionalized SnO2 nanobelt field-effect transistor sensors for label-free detection of cardiac troponin. Biosensors and Bioelectronics, 2011, 26, 4538-4544.	10.1	74
23	Coupling Electrodeposition with Layerâ€byâ€Layer Assembly to Address Proteins within Microfluidic Channels. Advanced Materials, 2011, 23, 5817-5821.	21.0	83
24	In situ quantitative visualization and characterization of chitosan electrodeposition with paired sidewall electrodes. Soft Matter, 2010, 6, 3177.	2.7	150
25	Mechanism and Optimization of pH Sensing Using SnO₂ Nanobelt Field Effect Transistors. Nano Letters, 2008, 8, 4179-4184.	9.1	119
26	Modeling and simulation of single nanobelt SnO2 gas sensors with FET structure. Sensors and Actuators B: Chemical, 2007, 128, 226-234.	7.8	57
27	Intrinsic characteristics of semiconducting oxide nanobelt field-effect transistors. Applied Physics Letters, 2006, 89, 093114.	3.3	79
28	Room-temperature low-power hydrogen sensor based on a single tin dioxide nanobelt. Applied Physics Letters, 2006, 88, 263102.	3.3	140