

Yi Cheng

List of Publications by Year in descending order

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28
papers

1,914
citations

236925

25
h-index

526287

27
g-index

28
all docs

28
docs citations

28
times ranked

2639
citing authors

#	ARTICLE	IF	CITATIONS
1	Simple SERS substrates: powerful, portable, and full of potential. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 2224-2239.	2.8	197
2	In situ quantitative visualization and characterization of chitosan electrodeposition with paired sidewall electrodes. <i>Soft Matter</i> , 2010, 6, 3177.	2.7	150
3	Room-temperature low-power hydrogen sensor based on a single tin dioxide nanobelt. <i>Applied Physics Letters</i> , 2006, 88, 263102.	3.3	140
4	Mechanism and Optimization of pH Sensing Using SnO ₂ Nanobelt Field Effect Transistors. <i>Nano Letters</i> , 2008, 8, 4179-4184.	9.1	119
5	Mechanism of anodic electrodeposition of calcium alginate. <i>Soft Matter</i> , 2011, 7, 5677.	2.7	103
6	Chitosan to Connect Biology to Electronics: Fabricating the Bio-Device Interface and Communicating Across This Interface. <i>Polymers</i> , 2015, 7, 1-46.	4.5	87
7	Coupling Electrodeposition with Layer-by-Layer Assembly to Address Proteins within Microfluidic Channels. <i>Advanced Materials</i> , 2011, 23, 5817-5821.	21.0	83
8	Electrodeposition of a Biopolymeric Hydrogel: Potential for One-Step Protein Electroaddressing. <i>Biomacromolecules</i> , 2012, 13, 1181-1189.	5.4	82
9	Intrinsic characteristics of semiconducting oxide nanobelt field-effect transistors. <i>Applied Physics Letters</i> , 2006, 89, 093114.	3.3	79
10	Biofabrication: programmable assembly of polysaccharide hydrogels in microfluidics as biocompatible scaffolds. <i>Journal of Materials Chemistry</i> , 2012, 22, 7659.	6.7	75
11	Functionalized SnO ₂ nanobelt field-effect transistor sensors for label-free detection of cardiac troponin. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4538-4544.	10.1	74
12	Biocompatible multi-address 3D cell assembly in microfluidic devices using spatially programmable gel formation. <i>Lab on A Chip</i> , 2011, 11, 2316.	6.0	68
13	Direct SERS detection of contaminants in a complex mixture: rapid, single step screening for melamine in liquid infant formula. <i>Analyst</i> , 2012, 137, 826.	3.5	68
14	Autonomous bacterial localization and gene expression based on nearby cell receptor density. <i>Molecular Systems Biology</i> , 2013, 9, 636.	7.2	65
15	Electroaddressing Functionalized Polysaccharides as Model Biofilms for Interrogating Cell Signaling. <i>Advanced Functional Materials</i> , 2012, 22, 519-528.	14.9	61
16	Electrodeposition of a weak polyelectrolyte hydrogel: remarkable effects of salt on kinetics, structure and properties. <i>Soft Matter</i> , 2013, 9, 2703.	2.7	59
17	Modeling and simulation of single nanobelt SnO ₂ gas sensors with FET structure. <i>Sensors and Actuators B: Chemical</i> , 2007, 128, 226-234.	7.8	57
18	Biofabricating Multifunctional Soft Matter with Enzymes and Stimuli-Responsive Materials. <i>Advanced Functional Materials</i> , 2012, 22, 3004-3012.	14.9	54

#	ARTICLE	IF	CITATIONS
19	Electronic modulation of biochemical signal generation. Nature Nanotechnology, 2014, 9, 605-610.	31.5	52
20	Biofabrication of stratified biofilm mimics for observation and control of bacterial signaling. Biomaterials, 2012, 33, 5136-5143.	11.4	46
21	Characterizing individual SnO ₂ nanobelt field-effect transistors and their intrinsic responses to hydrogen and ambient gases. Materials Chemistry and Physics, 2012, 137, 372-380.	4.0	42
22	Characterization of the cathodic electrodeposition of semicrystalline chitosan hydrogel. Materials Letters, 2012, 87, 97-100.	2.6	41
23	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
24	Accessing biology's toolbox for the mesoscale biofabrication of soft matter. Soft Matter, 2013, 9, 6019.	2.7	30
25	Electroaddressing Agarose Using Fmoc-Phenylalanine as a Temporary Scaffold. Langmuir, 2011, 27, 7380-7384.	3.5	28
26	Integrated biofabrication for electroaddressed in-film bioprocessing. Biotechnology Journal, 2012, 7, 428-439.	3.5	13
27	Bridging the Bio-Electronic Interface with Biofabrication. Journal of Visualized Experiments, 2012, , e4231.	0.3	1
28	Biofabricating the Bio-Device Interface Using Biological Materials and Mechanisms. , 2013, , 239-257.		1