Hyoung Jin Cho

List of Publications by Year
in descending order

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43 papers	551 citations	759233 12 h-index	642732 23 g-index
43 all docs	43 docs citations	43 times ranked	907 citing authors

#	Article	IF	Citations
1	Self-Assembled 1-Octadecanethiol Membrane on Pd/ZnO for a Selective Room Temperature Flexible Hydrogen Sensor. Micromachines, 2022, 13, 26.	2.9	3
2	Effect of laser power on conductivity and morphology of silver nanoparticle thin films prepared by a laser assisted electrospray deposition method. Journal of Laser Applications, 2021, 33, 012034.	1.7	5
3	Laserjet Printed Micro/Nano Sensors and Microfluidic Systems: A Simple and Facile Digital Platform for Inexpensive, Flexible, and Lowâ€Volume Devices. Advanced Materials Technologies, 2021, 6, 2100401.	5.8	16
4	Development of a novel self-sanitizing mask prototype to combat the spread of infectious disease and reduce unnecessary waste. Scientific Reports, 2021, 11, 18213.	3.3	4
5	A novel print-and-release method to prepare microplastics using an office-grade laserjet printer; a low-cost solution for preliminary studies. Marine Pollution Bulletin, 2021, 170, 112601.	5.0	5
6	Flexible copper-biopolymer nanocomposite sensors for trace level lead detection in water. Sensors and Actuators B: Chemical, 2021, 344, 130263.	7.8	31
7	Passive mixing rate of trapped squeezed nanodropletsâ€”A time scale analysis. Experimental and Computational Multiphase Flow, 2020, 2, 135-141.	3.9	4
8	Fabrication of a Pseudo-reference Electrode on a Flexible Substrate and Its Application to Heavy Metal Ion Detection. , 2020, , .		1
9	Disposable Sensor Devices Fabricated by Paper Crafting Tools. , 2020, , .		4
10	A Carbon Nanotubeâ€“Metal Oxide Hybrid Material for Visible-Blind Flexible UV-Sensor. Micromachines, 2020, 11, 368.	2.9	16
11	A Novel Bismuth-Chitosan Nanocomposite Sensor for Simultaneous Detection of Pb(II), Cd(II) and Zn(II) in Wastewater. Micromachines, 2019, 10, 511.	2.9	32
12	Metal Oxide Semiconductor-Carbon Nanomaterial Network as a Flexible Chemical Sensor for Volatile Organic Compound Detection. , 2019, , .		0
13	Digital Microfabrication on Paper and Cloth for Heavy Metal Detection and Remediation. , 2019, , .		5
14	Enhanced Electrochemical Detection of Multiheavy Metal Ions Using a Biopolymer-Coated Planar Carbon Electrode. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2387-2393.	4.7	22
15	A Rapid In-Situ Electrochemical Surface Modification Process for Nanotextured Gold Electrodes. Journal of Nanoscience and Nanotechnology, 2019, 19, 2407-2410.	0.9	0
16	p-CuO nanowire/n-ZnO nanosheet heterojunction-based near-UV sensor fabricated by electroplating and thermal oxidation process. Materials Letters, 2018, 223, 170-173.	2.6	11
17	Morphologies and electrical properties of multiple CuO nanowire-based device controlled by electroplating and thermal oxidation process. Microsystem Technologies, 2018, 24, 2719-2726.	2.0	3
18	Microfluidic Devices Developed for and Inspired by Thermotaxis and Chemotaxis. Micromachines, 2018, 9, 149.	2.9	13

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19	Sensor response mechanism and characterization of co-based phosphate nanosensors. , 2018, , .		1
20	Enhanced electrochemical detection of multi-heavy metal ions using a biopolymer-coated planar carbon electrode. , 2018, , .		3
21	ZnO nanoflakes as a template for in-situ electrodeposition of nanostructured cobalt electrodes as amperometric phosphate sensors. Materials Letters, 2017, 192, 107-110.	2.6	19
22	Picomolar Detection of Hydrogen Peroxide using Enzyme-free Inorganic Nanoparticle-based Sensor. Scientific Reports, 2017, 7, 1324.	3.3	30
23	Nonplanar focal plane with silicon based photodetector. , 2017, , .		0
24	Thermocapillarity in Microfluidicsâ€"A Review. Micromachines, 2016, 7, 13.	2.9	128
25	In situ colorimetric detection and mixing of glucoseâ€"enzyme droplets in an open-surface platform via Marangoni effect. Microfluidics and Nanofluidics, 2016, 20, 1.	2.2	5
26	On-chip whole blood plasma separator based on microfiltration, sedimentation and wetting contrast. Microsystem Technologies, 2016, 22, 2077-2085.	2.0	8
27	Electrochemical study of nanoporous gold revealing anti-biofouling properties. RSC Advances, 2015, 5, 46501-46508.	3.6	27
28	A Flexible, metallic electrospray emitter with embedded flow homogenizer. , 2015, , .		2
29	Graphene-Based Heat Spreader for Flexible Electronic Devices. IEEE Transactions on Electron Devices, 2014, 61, 4171-4175.	3.0	35
30	Flow rate analysis of an EWOD-based device: how important are wetting-line pinning and velocity effects?. Microfluidics and Nanofluidics, 2013, 15, 587-597.	2.2	10
31	Active surface tension driven micropump using droplet/meniscus pressure gradient. Sensors and Actuators B: Chemical, 2013, 180, 114-121.	7.8	22
32	Droplets on liquid surfaces: Dual equilibrium states and their energy barrier. Applied Physics Letters, 2013, 102, .	3.3	14
33	Effect of Yttria content and alumina addition on the formation of a textured microstructure during the surface nitridation of Yttria-stabilized tetragonal zirconia polycrystals (Y-TZP). Journal of Materials Science, 2012, 47, 7124-7131.	3.7	0
34	Nanoporous Gold Electrode for Electrochemical Sensors in Biological Environment. Procedia Engineering, 2011, 25, 1457-1460.	1.2	9
35	ZnO Modified High Aspect Ratio Carbon Electrodes for Hydrogen Sensing Applications. Procedia Engineering, 2011, 25, 1669-1672.	1.2	4
36	Diffusive mixing through velocity profile variation in microchannels. Experiments in Fluids, 2011, 50, 535-545.	2.4	13

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37	Measurement of Surface Interfacial Tension as a Function of Temperature Using Pendant Drop Images. International Journal of Optomechatronics, 2011, 5, 393-403.	6.6	29
38	A Low-Energy Room-Temperature Hydrogen Nanosensor: Utilizing the Schottky Barriers at the Electrode/Sensing-Material Interfaces. IEEE Electron Device Letters, 2010, 31, 770-772.	3.9	10
39	An analytical model for the wettability switching characteristic of a nanostructured thermoresponsive surface. Applied Physics Letters, 2009, 94, 164104.	3.3	7
40	Development of SPR sensor array based on optoelectronic platform for high throughput system. , 2008, , .		0
41	Development of planar waveguide based integrated optic SPR (Surface Plasmon Resonance) sensor array. , 2007, , .		0
42	Fast Detection of Hydrogen at Room Temperature Using a Nanoparticle-integrated Microsensor. , 2006, , .		0
43	Integrated Optical Sensor Platform based on Evanescent Field Coupling for Biochemical Sensor Applications. , 2006, , .		0