

Hyoung Jin Cho

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Thermocapillarity in Microfluidics—A Review. <i>Micromachines</i> , 2016, 7, 13.	2.9	128
2	Graphene-Based Heat Spreader for Flexible Electronic Devices. <i>IEEE Transactions on Electron Devices</i> , 2014, 61, 4171-4175.	3.0	35
3	A Novel Bismuth-Chitosan Nanocomposite Sensor for Simultaneous Detection of Pb(II), Cd(II) and Zn(II) in Wastewater. <i>Micromachines</i> , 2019, 10, 511.	2.9	32
4	Flexible copper-biopolymer nanocomposite sensors for trace level lead detection in water. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130263.	7.8	31
5	Picomolar Detection of Hydrogen Peroxide using Enzyme-free Inorganic Nanoparticle-based Sensor. <i>Scientific Reports</i> , 2017, 7, 1324.	3.3	30
6	Measurement of Surface Interfacial Tension as a Function of Temperature Using Pendant Drop Images. <i>International Journal of Optomechatronics</i> , 2011, 5, 393-403.	6.6	29
7	Electrochemical study of nanoporous gold revealing anti-biofouling properties. <i>RSC Advances</i> , 2015, 5, 46501-46508.	3.6	27
8	Active surface tension driven micropump using droplet/meniscus pressure gradient. <i>Sensors and Actuators B: Chemical</i> , 2013, 180, 114-121.	7.8	22
9	Enhanced Electrochemical Detection of Multiheavy Metal Ions Using a Biopolymer-Coated Planar Carbon Electrode. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019, 68, 2387-2393.	4.7	22
10	ZnO nanoflakes as a template for in-situ electrodeposition of nanostructured cobalt electrodes as amperometric phosphate sensors. <i>Materials Letters</i> , 2017, 192, 107-110.	2.6	19
11	A Carbon Nanotube—Metal Oxide Hybrid Material for Visible-Blind Flexible UV-Sensor. <i>Micromachines</i> , 2020, 11, 368.	2.9	16
12	Laserjet Printed Micro/Nano Sensors and Microfluidic Systems: A Simple and Facile Digital Platform for Inexpensive, Flexible, and Low-Volume Devices. <i>Advanced Materials Technologies</i> , 2021, 6, 2100401.	5.8	16
13	Droplets on liquid surfaces: Dual equilibrium states and their energy barrier. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	14
14	Diffusive mixing through velocity profile variation in microchannels. <i>Experiments in Fluids</i> , 2011, 50, 535-545.	2.4	13
15	Microfluidic Devices Developed for and Inspired by Thermotaxis and Chemotaxis. <i>Micromachines</i> , 2018, 9, 149.	2.9	13
16	p-CuO nanowire/n-ZnO nanosheet heterojunction-based near-UV sensor fabricated by electroplating and thermal oxidation process. <i>Materials Letters</i> , 2018, 223, 170-173.	2.6	11
17	A Low-Energy Room-Temperature Hydrogen Nanosensor: Utilizing the Schottky Barriers at the Electrode/Sensing-Material Interfaces. <i>IEEE Electron Device Letters</i> , 2010, 31, 770-772.	3.9	10
18	Flow rate analysis of an EWOD-based device: how important are wetting-line pinning and velocity effects?. <i>Microfluidics and Nanofluidics</i> , 2013, 15, 587-597.	2.2	10

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19	Nanoporous Gold Electrode for Electrochemical Sensors in Biological Environment. <i>Procedia Engineering</i> , 2011, 25, 1457-1460.	1.2	9
20	On-chip whole blood plasma separator based on microfiltration, sedimentation and wetting contrast. <i>Microsystem Technologies</i> , 2016, 22, 2077-2085.	2.0	8
21	An analytical model for the wettability switching characteristic of a nanostructured thermoresponsive surface. <i>Applied Physics Letters</i> , 2009, 94, 164104.	3.3	7
22	In situ colorimetric detection and mixing of glucose enzyme droplets in an open-surface platform via Marangoni effect. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	2.2	5
23	Digital Microfabrication on Paper and Cloth for Heavy Metal Detection and Remediation. , 2019, , .		5
24	Effect of laser power on conductivity and morphology of silver nanoparticle thin films prepared by a laser assisted electrospray deposition method. <i>Journal of Laser Applications</i> , 2021, 33, 012034.	1.7	5
25	A novel print-and-release method to prepare microplastics using an office-grade laserjet printer; a low-cost solution for preliminary studies. <i>Marine Pollution Bulletin</i> , 2021, 170, 112601.	5.0	5
26	ZnO Modified High Aspect Ratio Carbon Electrodes for Hydrogen Sensing Applications. <i>Procedia Engineering</i> , 2011, 25, 1669-1672.	1.2	4
27	Passive mixing rate of trapped squeezed nanodroplets A time scale analysis. <i>Experimental and Computational Multiphase Flow</i> , 2020, 2, 135-141.	3.9	4
28	Disposable Sensor Devices Fabricated by Paper Crafting Tools. , 2020, , .		4
29	Development of a novel self-sanitizing mask prototype to combat the spread of infectious disease and reduce unnecessary waste. <i>Scientific Reports</i> , 2021, 11, 18213.	3.3	4
30	Morphologies and electrical properties of multiple CuO nanowire-based device controlled by electroplating and thermal oxidation process. <i>Microsystem Technologies</i> , 2018, 24, 2719-2726.	2.0	3
31	Enhanced electrochemical detection of multi-heavy metal ions using a biopolymer-coated planar carbon electrode. , 2018, , .		3
32	Self-Assembled 1-Octadecanethiol Membrane on Pd/ZnO for a Selective Room Temperature Flexible Hydrogen Sensor. <i>Micromachines</i> , 2022, 13, 26.	2.9	3
33	A Flexible, metallic electrospray emitter with embedded flow homogenizer. , 2015, , .		2
34	Sensor response mechanism and characterization of co-based phosphate nanosensors. , 2018, , .		1
35	Fabrication of a Pseudo-reference Electrode on a Flexible Substrate and Its Application to Heavy Metal Ion Detection. , 2020, , .		1
36	Fast Detection of Hydrogen at Room Temperature Using a Nanoparticle-integrated Microsensor. , 2006, , .		0

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37	Integrated Optical Sensor Platform based on Evanescent Field Coupling for Biochemical Sensor Applications. , 2006, , .		0
38	Development of planar waveguide based integrated optic SPR (Surface Plasmon Resonance) sensor array. , 2007, , .		0
39	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
40	Nonplanar focal plane with silicon based photodetector. , 2017, , .		0
41	Metal Oxide Semiconductor-Carbon Nanomaterial Network as a Flexible Chemical Sensor for Volatile Organic Compound Detection. , 2019, , .		0
42	A Rapid <i>In-Situ</i> Electrochemical Surface Modification Process for Nanotextured Gold Electrodes. Journal of Nanoscience and Nanotechnology, 2019, 19, 2407-2410.	0.9	0
43	Development of SPR sensor array based on optoelectronic platform for high throughput system. , 2008, , .		0