

# Joon-Hyung Jin

## List of Publications by Year in descending order

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52  
papers

1,254  
citations

566801

15  
h-index

360668

35  
g-index

52  
all docs

52  
docs citations

52  
times ranked

2175  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Comprehensive Review of Glucose Biosensors Based on Nanostructured Metal-Oxides. <i>Sensors</i> , 2010, 10, 4855-4886.	2.1	718
2	Comparison of Effective Working Electrode Areas on Planar and Porous Silicon Substrates for Cholesterol Biosensor. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 7197-7202.	0.8	34
3	Electrochemical characterization of a glassy carbon electrode modified with microbial succinoglycan monomers and multi-wall carbon nanotubes for the detection of quercetin in an aqueous electrolyte. <i>Journal of Electroanalytical Chemistry</i> , 2008, 623, 142-146.	1.9	30
4	A Fully Integrated Paper-Microfluidic Electrochemical Device for Simultaneous Analysis of Physiologic Blood Ions. <i>Sensors</i> , 2018, 18, 104.	2.1	23
5	Electrochemical serotonin monitoring of poly(ethylenedioxythiophene):poly(sodium) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 587 4-pyridylporphyrin. <i>Biosensors and Bioelectronics</i> , 2014, 52, 411-416.	5.3	21
6	Real-time selective monitoring of allergenic <i>Aspergillus</i> molds using pentameric antibody-immobilized single-walled carbon nanotube-field effect transistors. <i>RSC Advances</i> , 2015, 5, 15728-15735.	1.7	21
7	Highly selective ppb-level detection of NH <sub>3</sub> and NO <sub>2</sub> gas using patterned porous channels of ITO nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2015, 216, 482-487.	4.0	20
8	Effect of gel electrolytes on the performance of a minimized flexible micro-supercapacitor based on graphene/PEDOT composite using pen lithography. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 71, 184-190.	2.9	20
9	Fabrication and electroanalytical characterization of label-free DNA sensor based on direct electropolymerization of pyrrole on p-type porous silicon substrates. <i>Journal of Porous Materials</i> , 2010, 17, 169-176.	1.3	19
10	Enhanced electrocatalytic activity of plasma functionalized multi-walled carbon nanotube-entrapped poly(3,4-ethylenedioxythiophene):poly(styrene sulfonate) photocathode. <i>Electrochimica Acta</i> , 2014, 146, 68-72.	2.6	19
11	Long-term stability of superhydrophilic oxygen plasma-modified single-walled carbon nanotube network surfaces and the influence on ammonia gas detection. <i>Applied Surface Science</i> , 2017, 410, 105-110.	3.1	19
12	Covalent Attachment of Biomacromolecules to Plasma-Patterned and Functionalized Carbon Nanotube-Based Devices for Electrochemical Biosensing. <i>Bioconjugate Chemistry</i> , 2012, 23, 2078-2086.	1.8	18
13	Fully Automated Field-Deployable Bioaerosol Monitoring System Using Carbon Nanotube-Based Biosensors. <i>Environmental Science &amp; Technology</i> , 2016, 50, 5163-5171.	4.6	18
14	Buckling Structured Stretchable Pseudocapacitor Yarn. <i>Scientific Reports</i> , 2017, 7, 12005.	1.6	18
15	A stretchable vertically stacked microsupercapacitor with kirigami-bridged island structure: MnO <sub>2</sub> /graphene/Poly(3,4-ethylenedioxythiophene) nanocomposite electrode through pen lithography. <i>Journal of Power Sources</i> , 2020, 453, 227898.	4.0	18
16	Label-Free DNA Sensor on Nanoporous Silicon-Polypyrrole Chip for Monitoring <i>Salmonella</i> Species. <i>IEEE Sensors Journal</i> , 2008, 8, 891-895.	2.4	16
17	Electrochemical selectivity enhancement by using monosuccinyl $\beta$ -cyclodextrin as a dopant for multi-wall carbon nanotube-modified glassy carbon electrode in simultaneous determination of quercetin and rutin. <i>Biotechnology Letters</i> , 2009, 31, 1739-1744.	1.1	16
18	Poly(3-methylthiophene)-based porous silicon substrates as a urea-sensitive electrode. <i>Applied Surface Science</i> , 2006, 252, 7397-7406.	3.1	15

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19	Performance enhancement of polyaniline-based polymeric wire biosensor. <i>Biosensors and Bioelectronics</i> , 2009, 24, 1348-1352.	5.3	15
20	Innovative evolution of buckling structures for flexible electronics. <i>Composite Structures</i> , 2018, 204, 487-499.	3.1	15
21	Integrated urea sensor module based on poly(3-methylthiophene)-modified p-type porous silicon substrate. <i>Journal of Porous Materials</i> , 2009, 16, 379-386.	1.3	14
22	Fabricating a modified biochar-based all-solid-state flexible microsupercapacitor using pen lithography. <i>Journal of Cleaner Production</i> , 2021, 284, 125449.	4.6	14
23	Voltammetric characterization of a fully integrated, patterned single walled carbon nanotube three-electrode system on a glass substrate. <i>Analyst</i> , 2011, 136, 1910.	1.7	10
24	Electrochemical properties of enzyme electrode covalently immobilized on a graphite oxide/cobalt hydroxide/chitosan composite mediator for biofuel cells. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 3251-3258.	3.8	10
25	A fully microfabricated carbon nanotube three-electrode system on glass substrate for miniaturized electrochemical biosensors. <i>Biomedical Microdevices</i> , 2012, 14, 613-624.	1.4	9
26	Real-time detection of chlorine gas using Ni/Si shell/core nanowires. <i>Nanoscale Research Letters</i> , 2015, 10, 18.	3.1	9
27	Surface activation of plasma-patterned carbon nanotube based DNA sensing electrodes. <i>Mikrochimica Acta</i> , 2011, 174, 231-238.	2.5	7
28	Evaluation of Surface Cleaning Procedures in Terms of Gas Sensing Properties of Spray-Deposited CNT Film: Thermal- and O <sub>2</sub> Plasma Treatments. <i>Sensors</i> , 2017, 17, 73.	2.1	7
29	Thermolytic dehydrogenation of cotton-structured SiO <sub>2</sub> -Ammonia borane nanocomposite. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 88, 278-284.	2.9	7
30	Protoporphyrin-modified gold surfaces for the selective monitoring of catecholamines. <i>Electrochimica Acta</i> , 2007, 52, 3863-3869.	2.6	6
31	Electrochemical selective detection of dopamine on microbial carbohydrate-doped multiwall carbon nanotube-modified electrodes. <i>Biotechnology Letters</i> , 2010, 32, 413-419.	1.1	6
32	Electrochemical properties of a fully integrated, singlewalled carbon nanotube coplanar three-electrode system on glass substrate. <i>Talanta</i> , 2011, 83, 1476-1481.	2.9	6
33	Photovoltaic performance of multi-wall carbon nanotube/PEDOT:PSS composite on the counter electrode of a dye-sensitized solar cell. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 08NJ02.	0.8	6
34	Label-free Electrochemical Detection of the Human Adenovirus 40/41 Fiber Gene. <i>Analytical Sciences</i> , 2015, 31, 159-163.	0.8	6
35	Solid-Phase Hydrogen Storage Based on NH <sub>3</sub> BH <sub>3</sub> -SiO <sub>2</sub> Nanocomposite for Thermolysis. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-7.	1.5	6
36	A Micromachined Metal Oxide Composite Dual Gas Sensor System for Principal Component Analysis-Based Multi-Monitoring of Noxious Gas Mixtures. <i>Micromachines</i> , 2020, 11, 24.	1.4	6

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37	Selective Monitoring of Rutin and Quercetin based on a Novel Multi-wall Carbon Nanotube-coated Glassy Carbon Electrode Modified with Microbial Carbohydrates $\beta$ -Cyclodextrin and Succinoglycan Monomer M3. Bulletin of the Korean Chemical Society, 2010, 31, 1897-1901.	1.0	5
38	Plasma-activated carbon nanotube-based high sensitivity immunosensors for monitoring <i>Legionella pneumophila</i> by direct detection of maltose binding protein peptidoglycan-associated lipoprotein (MBP-PAL). Biotechnology and Bioengineering, 2012, 109, 1471-1478.	1.7	5
39	Enhancing the Efficiency of Electron Conduction in Spray-Coated Anode of Photoelectrochemical Cell Using Oxygenated Multi-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2015, 119, 9085-9091.	1.5	5
40	Sugar Acid-Assisted Thermolysis of All-Solid-State Ammonia Borane Hydrogen Fuel. Energy Technology, 2020, 8, 1901195.	1.8	5
41	Fibrillar superstructure formation of hemoglobin A and its conductive, photodynamic and photovoltaic effects. Acta Biomaterialia, 2010, 6, 4689-4697.	4.1	4
42	A dynamic surface prepared by electrochemical triggering of substituted methoxyphenol-terminated self-assembled monolayers for multi-functional purposes. Electrochemistry Communications, 2009, 11, 2145-2149.	2.3	2
43	Heat-Induced Dry Hydrolysis of Sodium Borohydride/Oxalic Acid Dihydrate Composite for Hydrogen Production. ACS Omega, 2022, 7, 979-986.	1.6	2
44	Plasma-Enhanced Surface Modification of Sprayed Carbon Nanotube Electrodes for Lithographically Integrated Biosensing System. Japanese Journal of Applied Physics, 2012, 51, 01AJ08.	0.8	1
45	Experimental investigation for reverse heat transfer in structural fire-protective clothing. Textile Research Journal, 2018, 88, 577-585.	1.1	1
46	Enhanced Stability and Amplified Signal Output of Single-Wall Carbon Nanotube-Based NH <sub>3</sub> -Sensitive Electrode after Dual Plasma Treatment. Nanomaterials, 2020, 10, 1026.	1.9	1
47	Pen-drawn air cathode featuring graphite felt substrate modified with MnO <sub>2</sub> -decorated graphene flakes and PEDOT network for rechargeable zinc-air battery. Journal of Industrial and Engineering Chemistry, 2022, 108, 411-417.	2.9	1
48	Electroactivity of chemical and plasma modified single-walled carbon nanotubes to application of glucose detection. , 2011, , .		0
49	Plasma functionalized and patterned single-walled carbon nanotube for covalent attachment based microdevices. , 2012, , .		0
50	Immobilization of biorecognition molecules on O <sub>2</sub> plasma-functionalized SWCNT electrodes for biosensors. Journal of the Korean Physical Society, 2012, 61, 1646-1650.	0.3	0
51	Biointerfacial Property of Plasma-Treated Single-Walled Carbon Nanotube Film Electrodes for Electrochemical Biosensors. Japanese Journal of Applied Physics, 2013, 52, 01AE02.	0.8	0
52	Synergistic effect of photoanode and photocathode modified with oxygenated multi-walled carbon nanotubes in dye-sensitized solar cells. Korean Journal of Chemical Engineering, 2021, 38, 2129-2133.	1.2	0