Hyunjung Yi

List of Publications by Year in descending order

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41 papers	2,183 citations	430874 18 h-index	315739 38 g-index
41 all docs	41 docs citations	41 times ranked	3864 citing authors

#	Article	IF	Citations
1	An Artificial Tactile Neuron Enabling Spiking Representation of Stiffness and Disease Diagnosis. Advanced Materials, 2022, 34, e2201608.	21.0	20
2	Dendritic Network Implementable Organic Neurofiber Transistors with Enhanced Memory Cyclic Endurance for Spatiotemporal Iterative Learning. Advanced Materials, 2021, 33, e2100475.	21.0	35
3	Highly Sensitive Onâ€Skin Temperature Sensors Based on Biocompatible Hydrogels with Thermoresponsive Transparency and Resistivity. Advanced Healthcare Materials, 2021, 10, e2100469.	7.6	42
4	Neurofiber Transistors: Dendritic Network Implementable Organic Neurofiber Transistors with Enhanced Memory Cyclic Endurance for Spatiotemporal Iterative Learning (Adv. Mater. 26/2021). Advanced Materials, 2021, 33, 2170202.	21.0	5
5	Biotemplated Nanocomposites of Transition-Metal Oxides/Carbon Nanotubes with Highly Stable and Efficient Electrochemical Interfaces for High-Power Lithium-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 7804-7812.	5.1	11
6	Spirally Wrapped Carbon Nanotube Microelectrodes for Fiber Optoelectronic Devices beyond Geometrical Limitations toward Smart Wearable E-Textile Applications. ACS Nano, 2020, 14, 17213-17223.	14.6	32
7	All-Inkjet-Printed Flexible Nanobio-Devices with Efficient Electrochemical Coupling Using Amphiphilic Biomaterials. ACS Applied Materials & Interfaces, 2020, 12, 24231-24241.	8.0	25
8	Ethylcellulose/Ag nanowire composites as multifunctional patchable transparent electrodes. Surface and Coatings Technology, 2020, 394, 125898.	4.8	13
9	Wearable Piezoresistive Sensors with Ultrawide Pressure Range and Circuit Compatibility Based on Conductive-Island-Bridging Nanonetworks. ACS Applied Materials & Interfaces, 2019, 11, 32291-32300.	8.0	29
10	High-Performance Transparent Quantum Dot Light-Emitting Diode with Patchable Transparent Electrodes. ACS Applied Materials & Interfaces, 2019, 11, 26333-26338.	8.0	23
11	Hydrogel-Templated Transfer-Printing of Conductive Nanonetworks for Wearable Sensors on Topographic Flexible Substrates. Nano Letters, 2019, 19, 3684-3691.	9.1	54
12	Facile Nondestructive Assembly of Tyrosineâ€Rich Peptide Nanofibers as a Biological Glue for Multicomponentâ€Based Nanoelectrode Applications. Advanced Functional Materials, 2018, 28, 1705729.	14.9	18
13	Fibrous all-in-one monolith electrodes with a biological gluing layer and a membrane shell forÂweavable lithium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 6633-6641.	10.3	13
14	Ultrasensitive and Highly Stable Resistive Pressure Sensors with Biomaterial-Incorporated Interfacial Layers for Wearable Health-Monitoring and Humanâ€“Machine Interfaces. ACS Applied Materials & Interfaces, 2018, 10, 1067-1076.	8.0	84
15	Hydrodynamic Layer-by-Layer Assembly of Transferable Enzymatic Conductive Nanonetworks for Enzyme-Sticker-Based Contact Printing of Electrochemical Biosensors. ACS Applied Materials & Interfaces, 2018, 10, 36267-36274.	8.0	18
16	Bio-fabrication of nanomesh channels of single-walled carbon nanotubes for locally gated field-effect transistors. Nanotechnology, 2017, 28, 025304.	2.6	4
17	Micro- and nano-patterned conductive grapheneâ€“PEG hybrid scaffolds for cardiac tissue engineering. Chemical Communications, 2017, 53, 7412-7415.	4.1	90
18	Ultralow voltage operation of biologically assembled all carbon nanotube nanomesh transistors with ion-gel gate dielectrics. Scientific Reports, 2017, 7, 5981.	3.3	5

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19	A Reconfigurable and Portable Highly Sensitive Biosensor Platform for ISFET and Enzyme-Based Sensors. IEEE Sensors Journal, 2016, 16, 4443-4451.	4.7	11
20	Biologically templated assembly of hybrid semiconducting nanomesh for high performance field effect transistors and sensors. Scientific Reports, 2016, 6, 35591.	3.3	7
21	Direct Electron Transfer of Enzymes in a Biologically Assembled Conductive Nanomesh Enzyme Platform. Advanced Materials, 2016, 28, 1577-1584.	21.0	43
22	Single-carbon discrimination by selected peptides for individual detection of volatile organic compounds. Scientific Reports, 2015, 5, 9196.	3.3	36
23	Hydrodynamic Assembly of Conductive Nanomesh of Singleâ€Walled Carbon Nanotubes Using Biological Glue. Advanced Materials, 2015, 27, 922-928.	21.0	23
24	Genetically Programming Interfaces between Active Materials, Conductive Pathway and Current Collector in Li-Ion Batteries. ECS Transactions, 2012, 41, 55-64.	0.5	1
25	M13 Phage-Functionalized Single-Walled Carbon Nanotubes As Nanoprobes for Second Near-Infrared Window Fluorescence Imaging of Targeted Tumors. Nano Letters, 2012, 12, 1176-1183.	9.1	256
26	Graphene Sheets Stabilized on Genetically Engineered M13 Viral Templates as Conducting Frameworks for Hybrid Energyâ€Storage Materials. Small, 2012, 8, 1006-1011.	10.0	57
27	Virus-templated self-assembled single-walled carbon nanotubes for highly efficient electron collection in photovoltaic devices. Nature Nanotechnology, 2011, 6, 377-384.	31.5	368
28	Fabricating Genetically Engineered High-Power Lithium-Ion Batteries Using Multiple Virus Genes. Science, 2009, 324, 1051-1055.	12.6	688
29	Bistable Voltage Transition Using Spin-Orbit Interaction in a Ferromagnet-Semiconductor Hybrid Structure. IEEE Transactions on Magnetics, 2008, 44, 419-422.	2.1	1
30	Characterization of Nanoscale Domain Structures in Epitaxial Ferroelectric PbTiO3 Capacitors by Reciprocal Space Mapping. AIP Conference Proceedings, 2007, , .	0.4	0
31	Electrical spin injection and detection in an InAs quantum well. Applied Physics Letters, 2007, 90, 022101.	3.3	82
32	Magnetization reversal of ferromagnetic nanoparticles under inhomogeneous magnetic field. Journal of Magnetism and Magnetic Materials, 2007, 309, 272-277.	2.3	16
33	Unbalanced spin accumulation induced by spin Hall effect. Journal of Magnetism and Magnetic Materials, 2007, 310, e705-e707.	2.3	1
34	Resistance modulation using amperian field in a two-dimensional electron gas system. Journal of Magnetism and Magnetic Materials, 2007, 310, 1952-1954.	2.3	0
35	Inverse giant magnetoresistance due to spinâ€dependent bulk scattering in Fe_{1â€“x}Cr_x/Cu/Co. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 3954-3957.	1.8	1
36	Proximity-effect correction in electron-beam lithography on metal multi-layers. Journal of Materials Science, 2007, 42, 5159-5164.	3.7	6

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37	Transport property of insulating barrier in a ferromagnet-semiconductor hybrid system. Solid-State Electronics, 2006, 50, 1682-1686.	1.4	0
38	Lateral size effects on domain structure in epitaxial PbTiO3 thin films. Journal of Applied Physics, 2006, 100, 051615.	2.5	18
39	Spin transport in an InAs based two-dimensional electron gas nanochannel. Journal of Applied Physics, 2005, 97, 10D502.	2.5	1
40	Polarized Raman scattering of highly [111]-oriented Pb(Zr,Ti)O3 thin films in the rhombohedral-phase field. Journal of Applied Physics, 2004, 96, 5110-5116.	2.5	17
41	Polarized Raman scattering of epitaxial Pb(Zr,Ti)O3 thin films in the tetragonal-phase field. Applied Physics Letters, 2002, 81, 2439-2441.	3.3	29