

Hyunjung Yi

List of Publications by Year in descending order

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41
papers

2,183
citations

430874

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docs citations

41
times ranked

3864
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabricating Genetically Engineered High-Power Lithium-Ion Batteries Using Multiple Virus Genes. <i>Science</i> , 2009, 324, 1051-1055.	12.6	688
2	Virus-templated self-assembled single-walled carbon nanotubes for highly efficient electron collection in photovoltaic devices. <i>Nature Nanotechnology</i> , 2011, 6, 377-384.	31.5	368
3	M13 Phage-Functionalized Single-Walled Carbon Nanotubes As Nanoprobes for Second Near-Infrared Window Fluorescence Imaging of Targeted Tumors. <i>Nano Letters</i> , 2012, 12, 1176-1183.	9.1	256
4	Micro- and nano-patterned conductive graphene-PEG hybrid scaffolds for cardiac tissue engineering. <i>Chemical Communications</i> , 2017, 53, 7412-7415.	4.1	90
5	Ultrasensitive and Highly Stable Resistive Pressure Sensors with Biomaterial-Incorporated Interfacial Layers for Wearable Health-Monitoring and Human-Machine Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1067-1076.	8.0	84
6	Electrical spin injection and detection in an InAs quantum well. <i>Applied Physics Letters</i> , 2007, 90, 022101.	3.3	82
7	Graphene Sheets Stabilized on Genetically Engineered M13 Viral Templates as Conducting Frameworks for Hybrid Energy Storage Materials. <i>Small</i> , 2012, 8, 1006-1011.	10.0	57
8	Hydrogel-Templated Transfer-Printing of Conductive Nanonetworks for Wearable Sensors on Topographic Flexible Substrates. <i>Nano Letters</i> , 2019, 19, 3684-3691.	9.1	54
9	Direct Electron Transfer of Enzymes in a Biologically Assembled Conductive Nanomesh Enzyme Platform. <i>Advanced Materials</i> , 2016, 28, 1577-1584.	21.0	43
10	Highly Sensitive On-Skin Temperature Sensors Based on Biocompatible Hydrogels with Thermoresponsive Transparency and Resistivity. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100469.	7.6	42
11	Single-carbon discrimination by selected peptides for individual detection of volatile organic compounds. <i>Scientific Reports</i> , 2015, 5, 9196.	3.3	36
12	Dendritic Network Implementable Organic Neurofiber Transistors with Enhanced Memory Cyclic Endurance for Spatiotemporal Iterative Learning. <i>Advanced Materials</i> , 2021, 33, e2100475.	21.0	35
13	Spirally Wrapped Carbon Nanotube Microelectrodes for Fiber Optoelectronic Devices beyond Geometrical Limitations toward Smart Wearable E-Textile Applications. <i>ACS Nano</i> , 2020, 14, 17213-17223.	14.6	32
14	Polarized Raman scattering of epitaxial Pb(Zr,Ti)O ₃ thin films in the tetragonal-phase field. <i>Applied Physics Letters</i> , 2002, 81, 2439-2441.	3.3	29
15	Wearable Piezoresistive Sensors with Ultrawide Pressure Range and Circuit Compatibility Based on Conductive-Island-Bridging Nanonetworks. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32291-32300.	8.0	29
16	All-Inkjet-Printed Flexible Nanobio-Devices with Efficient Electrochemical Coupling Using Amphiphilic Biomaterials. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24231-24241.	8.0	25
17	Hydrodynamic Assembly of Conductive Nanomesh of Single-Walled Carbon Nanotubes Using Biological Glue. <i>Advanced Materials</i> , 2015, 27, 922-928.	21.0	23
18	High-Performance Transparent Quantum Dot Light-Emitting Diode with Patchable Transparent Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26333-26338.	8.0	23

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19	An Artificial Tactile Neuron Enabling Spiking Representation of Stiffness and Disease Diagnosis. <i>Advanced Materials</i> , 2022, 34, e2201608.	21.0	20
20	Lateral size effects on domain structure in epitaxial PbTiO ₃ thin films. <i>Journal of Applied Physics</i> , 2006, 100, 051615.	2.5	18
21	Facile Nondestructive Assembly of Tyrosine-Rich Peptide Nanofibers as a Biological Glue for Multicomponent-Based Nanoelectrode Applications. <i>Advanced Functional Materials</i> , 2018, 28, 1705729.	14.9	18
22	Hydrodynamic Layer-by-Layer Assembly of Transferable Enzymatic Conductive Nanonetworks for Enzyme-Sticker-Based Contact Printing of Electrochemical Biosensors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36267-36274.	8.0	18
23	Polarized Raman scattering of highly [111]-oriented Pb(Zr,Ti)O ₃ thin films in the rhombohedral-phase field. <i>Journal of Applied Physics</i> , 2004, 96, 5110-5116.	2.5	17
24	Magnetization reversal of ferromagnetic nanoparticles under inhomogeneous magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 309, 272-277.	2.3	16
25	Fibrous all-in-one monolith electrodes with a biological gluing layer and a membrane shell for weavable lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6633-6641.	10.3	13
26	Ethylcellulose/Ag nanowire composites as multifunctional patchable transparent electrodes. <i>Surface and Coatings Technology</i> , 2020, 394, 125898.	4.8	13
27	A Reconfigurable and Portable Highly Sensitive Biosensor Platform for ISFET and Enzyme-Based Sensors. <i>IEEE Sensors Journal</i> , 2016, 16, 4443-4451.	4.7	11
28	Biotemplated Nanocomposites of Transition-Metal Oxides/Carbon Nanotubes with Highly Stable and Efficient Electrochemical Interfaces for High-Power Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 7804-7812.	5.1	11
29	Biologically templated assembly of hybrid semiconducting nanomesh for high performance field effect transistors and sensors. <i>Scientific Reports</i> , 2016, 6, 35591.	3.3	7
30	Proximity-effect correction in electron-beam lithography on metal multi-layers. <i>Journal of Materials Science</i> , 2007, 42, 5159-5164.	3.7	6
31	Ultralow voltage operation of biologically assembled all carbon nanotube nanomesh transistors with ion-gel gate dielectrics. <i>Scientific Reports</i> , 2017, 7, 5981.	3.3	5
32	Neurofiber Transistors: Dendritic Network Implementable Organic Neurofiber Transistors with Enhanced Memory Cyclic Endurance for Spatiotemporal Iterative Learning (<i>Adv. Mater.</i> 26/2021). <i>Advanced Materials</i> , 2021, 33, 2170202.	21.0	5
33	Bio-fabrication of nanomesh channels of single-walled carbon nanotubes for locally gated field-effect transistors. <i>Nanotechnology</i> , 2017, 28, 025304.	2.6	4
34	Spin transport in an InAs based two-dimensional electron gas nanochannel. <i>Journal of Applied Physics</i> , 2005, 97, 10D502.	2.5	1
35	Unbalanced spin accumulation induced by spin Hall effect. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, e705-e707.	2.3	1
36	Inverse giant magnetoresistance due to spin-dependent bulk scattering in Fe _x Cr _x /Cu/Co. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 3954-3957.	1.8	1

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37	Bistable Voltage Transition Using Spin-Orbit Interaction in a Ferromagnet-Semiconductor Hybrid Structure. IEEE Transactions on Magnetics, 2008, 44, 419-422.	2.1	1
38	Genetically Programming Interfaces between Active Materials, Conductive Pathway and Current Collector in Li-Ion Batteries. ECS Transactions, 2012, 41, 55-64.	0.5	1
39	Transport property of insulating barrier in a ferromagnet-semiconductor hybrid system. Solid-State Electronics, 2006, 50, 1682-1686.	1.4	0
40	Characterization of Nanoscale Domain Structures in Epitaxial Ferroelectric PbTiO ₃ Capacitors by Reciprocal Space Mapping. AIP Conference Proceedings, 2007, , .	0.4	0
41	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