

Kyungsuk Yum

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,656
citations

430874

18
h-index

610901

24
g-index

24
all docs

24
docs citations

24
times ranked

2884
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular recognition using corona phase complexes made of synthetic polymers adsorbed on carbon nanotubes. <i>Nature Nanotechnology</i> , 2013, 8, 959-968.	31.5	282
2	Voltage Generation from Individual BaTiO ₃ Nanowires under Periodic Tensile Mechanical Load. <i>Nano Letters</i> , 2007, 7, 2966-2969.	9.1	160
3	Bioinspired 3D structures with programmable morphologies and motions. <i>Nature Communications</i> , 2018, 9, 3705.	12.8	151
4	Mechanochemical Delivery and Dynamic Tracking of Fluorescent Quantum Dots in the Cytoplasm and Nucleus of Living Cells. <i>Nano Letters</i> , 2009, 9, 2193-2198.	9.1	119
5	Physiologically relevant organs on chips. <i>Biotechnology Journal</i> , 2014, 9, 16-27.	3.5	109
6	Experimental measurement and model analysis of damping effect in nanoscale mechanical beam resonators in air. <i>Journal of Applied Physics</i> , 2004, 96, 3933-3938.	2.5	85
7	Measurement of Wetting Properties of Individual Boron Nitride Nanotubes with the Wilhelmy Method Using a Nanotube-Based Force Sensor. <i>Nano Letters</i> , 2006, 6, 329-333.	9.1	85
8	3D Printing of Anisotropic Hydrogels with Bioinspired Motion. <i>Advanced Science</i> , 2019, 6, 1800703.	11.2	85
9	Single-walled carbon nanotubes as near-infrared optical biosensors for life sciences and biomedicine. <i>Biotechnology Journal</i> , 2015, 10, 447-459.	3.5	79
10	Nanoneedle: A multifunctional tool for biological studies in living cells. <i>Nanoscale</i> , 2010, 2, 363-372.	5.6	72
11	Boronic Acid Library for Selective, Reversible Near-Infrared Fluorescence Quenching of Surfactant Suspended Single-Walled Carbon Nanotubes in Response to Glucose. <i>ACS Nano</i> , 2012, 6, 819-830.	14.6	71
12	A Structure-Function Relationship for the Optical Modulation of Phenyl Boronic Acid-Grafted, Polyethylene Glycol-Wrapped Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2012, 134, 17620-17627.	13.7	50
13	Individual Nanotube-Based Needle Nanoprobes for Electrochemical Studies in Picoliter Microenvironments. <i>ACS Nano</i> , 2007, 1, 440-448.	14.6	47
14	Periplasmic Binding Proteins as Optical Modulators of Single-Walled Carbon Nanotube Fluorescence: Amplifying a Nanoscale Actuator. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1828-1831.	13.8	46
15	2D material programming for 3D shaping. <i>Nature Communications</i> , 2021, 12, 603.	12.8	43
16	Single-Walled Carbon Nanotube-Based Near-Infrared Optical Glucose Sensors toward <i>In Vivo</i> Continuous Glucose Monitoring. <i>Journal of Diabetes Science and Technology</i> , 2013, 7, 72-87.	2.2	38
17	Catalytic hydrogen atom transfer from hydrosilanes to vinylarenes for hydrosilylation and polymerization. <i>Nature Catalysis</i> , 2019, 2, 164-173.	34.4	33
18	Injectable Click Chemistry-based Bioadhesives for Accelerated Wound Closure. <i>Acta Biomaterialia</i> , 2020, 110, 95-104.	8.3	25

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19	Electrochemically Controlled Deconjugation and Delivery of Single Quantum Dots into the Nucleus of Living Cells. <i>Small</i> , 2010, 6, 2109-2113.	10.0	17
20	Near-Infrared Fluorescence Modulation of Refolded DNA Aptamer-Functionalized Single-Walled Carbon Nanotubes for Optical Sensing. <i>ACS Applied Nano Materials</i> , 2018, 1, 5327-5336.	5.0	16
21	Umpolung $\hat{\pm}$ -Silylation of Cyclopropyl Acetates via Low-Temperature Catalytic C $\hat{\pm}$ C Activation. <i>ACS Catalysis</i> , 2019, 9, 402-408.	11.2	16
22	Diffusion limited current in very high aspect ratio Pt needle electrodes. <i>Applied Physics Letters</i> , 2011, 99, 053113.	3.3	6
23	High $\hat{\pm}$ Yield Fabrication, Activation, and Characterization of Carbon Nanotube Ion Channels by Repeated Voltage $\hat{\pm}$ Ramping of Membrane $\hat{\pm}$ Capillary Assembly. <i>Advanced Functional Materials</i> , 2019, 29, 1900421.	14.9	5