

# Hyung-Jun Koo

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

1,899  
citations

331538

21  
h-index

289141

40  
g-index

42  
all docs

42  
docs citations

42  
times ranked

3138  
citing authors

#	ARTICLE	IF	CITATIONS
1	Size-dependent scattering efficiency in dye-sensitized solar cell. <i>Inorganica Chimica Acta</i> , 2008, 361, 677-683.	1.2	250
2	Towards All-Soft Matter Circuits: Prototypes of Quasi-Liquid Devices with Memristor Characteristics. <i>Advanced Materials</i> , 2011, 23, 3559-3564.	11.1	189
3	Cytotoxicity of Gallium-Indium Liquid Metal in an Aqueous Environment. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 17448-17454.	4.0	174
4	Selective Wetting-Induced Micro-Electrode Patterning for Flexible Micro-Supercapacitors. <i>Advanced Materials</i> , 2014, 26, 5108-5112.	11.1	146
5	Highly Stretchable and Transparent Microfluidic Strain Sensors for Monitoring Human Body Motions. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 27562-27570.	4.0	139
6	Chemoresistance of Cancer Cells: Requirements of Tumor Microenvironment-mimicking <i>In Vitro</i> Models in Anti-Cancer Drug Development. <i>Theranostics</i> , 2018, 8, 5259-5275.	4.6	138
7	Ionic Current Rectification in Soft-Matter Diodes with Liquid-Metal Electrodes. <i>Advanced Functional Materials</i> , 2012, 22, 625-631.	7.8	113
8	Conductive biomaterials for tissue engineering applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 51, 12-26.	2.9	98
9	Oxygen-Carrying Micro/Nanobubbles: Composition, Synthesis Techniques and Potential Prospects in Photo-Triggered Theranostics. <i>Molecules</i> , 2018, 23, 2210.	1.7	58
10	On the $V$ measurement of dye-sensitized solar cell: Effect of cell geometry on photovoltaic parameters. <i>Solar Energy Materials and Solar Cells</i> , 2007, 91, 1749-1754.	3.0	51
11	Aqueous soft matter based photovoltaic devices. <i>Journal of Materials Chemistry</i> , 2011, 21, 72-79.	6.7	46
12	Exosome-mediated diagnosis of pancreatic cancer using lectin-conjugated nanoparticles bound to selective glycans. <i>Biosensors and Bioelectronics</i> , 2021, 177, 112980.	5.3	39
13	Ionic current devices—Recent progress in the merging of electronic, microfluidic, and biomimetic structures. <i>Biomicrofluidics</i> , 2013, 7, 31501.	1.2	35
14	Flexible and Wearable Fiber Microsupercapacitors Based on Carbon Nanotube-Agarose Gel Composite Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 19925-19933.	4.0	34
15	Ionic Current Diode with Aqueous Gel/SiO <sub>2</sub> Nanofilm Interfaces. <i>Small</i> , 2010, 6, 1393-1397.	5.2	32
16	Synthesis and Functionalization of $\beta$ -Glucan Particles for the Effective Delivery of Doxorubicin Molecules. <i>ACS Omega</i> , 2019, 4, 668-674.	1.6	32
17	Toward Eco-Friendly Dye-Sensitized Solar Cells (DSSCs): Natural Dyes and Aqueous Electrolytes. <i>Energies</i> , 2022, 15, 219.	1.6	31
18	Autonomic Molecular Transport by Polymer Films Containing Programmed Chemical Potential Gradients. <i>Journal of the American Chemical Society</i> , 2015, 137, 5066-5073.	6.6	30

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19	Fabrication of heterosensitizer-junction dye-sensitized solar cells. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	28
20	Regenerable Photovoltaic Devices with a Hydrogel-Embedded Microvascular Network. <i>Scientific Reports</i> , 2013, 3, 2357.	1.6	28
21	Biomimetic photocatalytic reactor with a hydrogel-embedded microfluidic network. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11106.	5.2	22
22	Stable anatase TiO <sub>2</sub> coating on quartz fibers by atomic layer deposition for photoactive light-scattering in dye-sensitized solar cells. <i>Nanoscale</i> , 2012, 4, 4731.	2.8	20
23	Design and characterization of hydrogel-based microfluidic devices with biomimetic solute transport networks. <i>Biomicrofluidics</i> , 2017, 11, 024104.	1.2	17
24	Alginate-chitosan Hydrogel Patch with Beta-glucan Nanoemulsion for Antibacterial Applications. <i>Biotechnology and Bioprocess Engineering</i> , 2021, 26, 71-77.	1.4	17
25	Impedance study on humidity dependent conductivity of polymer composites with conductive nanofillers. <i>Composites Part B: Engineering</i> , 2020, 202, 108412.	5.9	15
26	Facile fabrication of graphene composite microwires via drying-induced size reduction of hydrogel filaments. <i>RSC Advances</i> , 2014, 4, 20927-20931.	1.7	14
27	Polymer Brushes Patterned with Micrometer-Scale Chemical Gradients Using Laminar Co-Flow. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 14320-14326.	4.0	13
28	General Method for Forming Micrometer-Scale Lateral Chemical Gradients in Polymer Brushes. <i>Chemistry of Materials</i> , 2014, 26, 2678-2683.	3.2	13
29	A humidity-sensing composite microfiber based on moisture-induced swelling of an agarose polymer matrix. <i>Polymer Composites</i> , 2019, 40, 3582-3587.	2.3	13
30	A conducting composite microfiber containing graphene/silver nanowires in an agarose matrix with fast humidity sensing ability. <i>Polymer</i> , 2019, 164, 1-7.	1.8	13
31	Effect of Surrounding Solvents on Interfacial Behavior of Gallium-Based Liquid Metal Droplets. <i>Materials</i> , 2022, 15, 706.	1.3	9
32	A fully textile-based skin pH sensor. <i>Journal of Industrial Textiles</i> , 2022, 51, 441S-457S.	1.1	9
33	Eco-Friendly Dye-Sensitized Solar Cells Based on Water-Electrolytes and Chlorophyll. <i>Materials</i> , 2021, 14, 2150.	1.3	8
34	Study and Evaluation of the Potential of Lipid Nanocarriers for Transdermal Delivery of siRNA. <i>Biotechnology Journal</i> , 2020, 15, e2000079.	1.8	7
35	Quantification of Unknown Nanoscale Biomolecules Using the Average-Weight-Difference Method. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 130.	1.3	6
36	Facile fabrication of polyaniline films with hierarchical porous networks for enhanced electrochemical activity. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 86, 81-89.	2.9	4

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37	Dielectrophoretic Manipulation of Janus Particle in Conductive Media for Biomedical Applications. <i>Biotechnology Journal</i> , 2020, 15, e2000343.	1.8	3
38	Facile fabrication and photocatalytic activity of Ag/AgI/rGO films. <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 2104-2109.	1.2	2
39	Note: Qualitative degradation of the pesticide coumaphos in solution, controlled aerosol, and solid phases on quaternary ammonium fluoride polymer brushes. <i>Polymers for Advanced Technologies</i> , 2017, 28, 567-567.	1.6	1
40	Qualitative degradation of the pesticide coumaphos in solution, controlled aerosol, and solid phases on quaternary ammonium fluoride polymer brushes. <i>Polymers for Advanced Technologies</i> , 2017, 28, 73-79.	1.6	1
41	Improvement of Dye-Hydrogel Based Photovoltaics via Hydroquinone Electrolyte Mediators. <i>Transactions of the Korean Hydrogen and New Energy Society</i> , 2016, 27, 540-546.	0.1	0