

Moon Kee Choi

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

3,587
citations

279798
23
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345221
36
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37
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37
docs citations

37
times ranked

5515
citing authors

#	ARTICLE	IF	CITATIONS
1	Wearable red-green-blue quantum dot light-emitting diode array using high-resolution inkjet transfer printing. <i>Nature Communications</i> , 2015, 6, 7149.	12.8	536
2	Human eye-inspired soft optoelectronic device using high-density MoS ₂ -graphene curved image sensor array. <i>Nature Communications</i> , 2017, 8, 1664.	12.8	381
3	Flexible quantum dot light-emitting diodes for next-generation displays. <i>Npj Flexible Electronics</i> , 2018, 2, .	10.7	261
4	n-Type Nanostructured Thermoelectric Materials Prepared from Chemically Synthesized Ultrathin Bi ₂ Te ₃ Nanoplates. <i>Nano Letters</i> , 2012, 12, 640-647.	9.1	239
5	Designed Assembly and Integration of Colloidal Nanocrystals for Device Applications. <i>Advanced Materials</i> , 2016, 28, 1176-1207.	21.0	211
6	Ultrathin Quantum Dot Display Integrated with Wearable Electronics. <i>Advanced Materials</i> , 2017, 29, 1700217.	21.0	187
7	Cephalopod-inspired Miniaturized Suction Cups for Smart Medical Skin. <i>Advanced Healthcare Materials</i> , 2016, 5, 80-87.	7.6	175
8	Extremely Vivid, Highly Transparent, and Ultrathin Quantum Dot Light-Emitting Diodes. <i>Advanced Materials</i> , 2018, 30, 1703279.	21.0	157
9	Thermally Controlled, Patterned Graphene Transfer Printing for Transparent and Wearable Electronic/Optoelectronic System. <i>Advanced Functional Materials</i> , 2015, 25, 7109-7118.	14.9	155
10	Colloidal Synthesis of Uniform-Sized Molybdenum Disulfide Nanosheets for Wafer-Scale Flexible Nonvolatile Memory. <i>Advanced Materials</i> , 2016, 28, 9326-9332.	21.0	151
11	Wearable Force Touch Sensor Array Using a Flexible and Transparent Electrode. <i>Advanced Functional Materials</i> , 2017, 27, 1605286.	14.9	151
12	Fully Stretchable Optoelectronic Sensors Based on Colloidal Quantum Dots for Sensing Photoplethysmographic Signals. <i>ACS Nano</i> , 2017, 11, 5992-6003.	14.6	115
13	Toward Full-Color Electroluminescent Quantum Dot Displays. <i>Nano Letters</i> , 2021, 21, 26-33.	9.1	103
14	An aquatic-vision-inspired camera based on a monocentric lens and a silicon nanorod photodiode array. <i>Nature Electronics</i> , 2020, 3, 546-553.	26.0	100
15	Dimension-Controlled Synthesis of CdS Nanocrystals: From 0D Quantum Dots to 2D Nanoplates. <i>Small</i> , 2012, 8, 2394-2402.	10.0	99
16	Route to the Smallest Doped Semiconductor: Mn ²⁺ -Doped (CdSe) ₁₃ Clusters. <i>Journal of the American Chemical Society</i> , 2015, 137, 12776-12779.	13.7	91
17	Multifunctional Cell-Culture Platform for Aligned Cell Sheet Monitoring, Transfer Printing, and Therapy. <i>ACS Nano</i> , 2015, 9, 2677-2688.	14.6	72
18	Nanomaterial-Based Soft Electronics for Healthcare Applications. <i>ChemNanoMat</i> , 2016, 2, 1006-1017.	2.8	65

#	ARTICLE	IF	CITATIONS
19	Simple Fabrication of Asymmetric High-Aspect-Ratio Polymer Nanopillars by Reusable AAO Templates. Langmuir, 2011, 27, 2132-2137.	3.5	57
20	Materials engineering, processing, and device application of hydrogel nanocomposites. Nanoscale, 2020, 12, 10456-10473.	5.6	52
21	MoS ₂ Liquid Cell Electron Microscopy Through Clean and Fast Polymer-Free MoS ₂ Transfer. Nano Letters, 2019, 19, 1788-1795.	9.1	45
22	Solution-Processed Stretchable Ag ₂ S Semiconductor Thin Films for Wearable Self-Powered Nonvolatile Memory. Advanced Materials, 2021, 33, e2100066.	21.0	30
23	Stretchable conductive nanocomposites and their applications in wearable devices. Applied Physics Reviews, 2022, 9, .	11.3	27
24	Face Selection in One-Step Bending of Janus Nanopillars. Langmuir, 2010, 26, 9198-9201.	3.5	23
25	Materials and design strategies for stretchable electroluminescent devices. Nanoscale Horizons, 2022, 7, 801-821.	8.0	22
26	Polymer-Assisted High-Resolution Printing Techniques for Colloidal Quantum Dots. Macromolecular Research, 2021, 29, 391-401.	2.4	17
27	Solution-Processed Hole-Doped SnSe Thermoelectric Thin-Film Devices for Low-Temperature Power Generation. ACS Energy Letters, 2022, 7, 2092-2101.	17.4	17
28	Fabrication of a hierarchical structure by oxygen plasma etching of a photocured microstructure containing a silicon moiety. Journal of Materials Chemistry, 2011, 21, 14936.	6.7	12
29	3D Antidrying Antifreezing Artificial Skin Device with Self-Healing and Touch Sensing Capability. Macromolecular Rapid Communications, 2021, 42, e2100011.	3.9	9
30	Self-modulating polymer resist patterns in pressure-assisted capillary force lithography. Journal of Colloid and Interface Science, 2010, 346, 476-482.	9.4	8
31	Material Design for 3D Multifunctional Hydrogel Structure Preparation. Macromolecular Materials and Engineering, 2021, 306, 2100007.	3.6	5
32	Efficiency Improvement of Organic Solar Cells by Tuning Hole Transport Layer with Germanium Oxide. Journal of Nanoscience and Nanotechnology, 2012, 12, 623-628.	0.9	4
33	Epidermal Electronics: Cephalopod-Inspired Miniaturized Suction Cups for Smart Medical Skin (Adv. Tj ETQq1 1 0.784314 rgBT /Over	7.6	4
34	Liquid Pockets Encapsulated in MoS ₂ Liquid Cells. Microscopy and Microanalysis, 2019, 25, 1406-1407.	0.4	3
35	Flexible Displays: Ultrathin Quantum Dot Display Integrated with Wearable Electronics (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Over	21.0	1
36	Memory Devices: Solution-Processed Stretchable Ag ₂ S Semiconductor Thin Films for Wearable Self-Powered Nonvolatile Memory (Adv. Mater. 23/2021). Advanced Materials, 2021, 33, 2170181.	21.0	0