

# Unyong Jeong

## List of Publications by Year in descending order

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Version: 2024-02-01

116  
papers

8,825  
citations

50276

46  
h-index

42399

92  
g-index

118  
all docs

118  
docs citations

118  
times ranked

12087  
citing authors

#	ARTICLE	IF	CITATIONS
1	New Approaches to Produce Large-Area Single Crystal Thin Films. <i>Advanced Materials</i> , 2023, 35, .	21.0	14
2	Omnidirectional Tactile Profiling Using a Deformable Pressure Sensor Array Based on Localized Piezoresistivity. <i>Advanced Materials Technologies</i> , 2022, 7, 2100688.	5.8	6
3	Precise Tuning of Multiple Perovskite Photoluminescence by Volume-Controlled Printing of Perovskite Precursor Solution on Cellulose Paper. <i>ACS Nano</i> , 2022, 16, 2521-2534.	14.6	14
4	Dynamic tactility by position-encoded spike spectrum. <i>Science Robotics</i> , 2022, 7, eabl5761.	17.6	25
5	Water-Saturated Ion Gel for Humidity-Independent High Precision Epidermal Ionic Temperature Sensor. <i>Advanced Science</i> , 2022, 9, e2200687.	11.2	16
6	Air-Permeable Waterproofing Electrocardiogram Patch to Monitor Full-Day Activities for Multiple Days. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102703.	7.6	12
7	Skin-inspired electrochemical tactility and luminescence. <i>Electrochimica Acta</i> , 2022, 415, 140259.	5.2	5
8	Small-Sized Deformable Shear Sensor Array for Direct Monitoring of Quantitative Shear Distribution. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	5
9	Printable inks and deformable electronic array devices. <i>Nanoscale Horizons</i> , 2022, 7, 663-681.	8.0	4
10	Triboelectric UV patterning for wearable one-terminal tactile sensor array to perceive dynamic contact motions. <i>Nano Energy</i> , 2022, 98, 107320.	16.0	15
11	A Scalable Laser-Centric Fabrication of an Epidermal Cardiopulmonary Patch. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	6
12	Hydrogen-doped viscoplastic liquid metal microparticles for stretchable printed metal lines. <i>Nature Materials</i> , 2021, 20, 533-540.	27.5	111
13	Interface Design for Stretchable Electronic Devices. <i>Advanced Science</i> , 2021, 8, 2004170.	11.2	44
14	Quadruple ultrasound, photoacoustic, optical coherence, and fluorescence fusion imaging with a transparent ultrasound transducer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	94
15	Printed Stretchable Single-Nanofiber Interconnections for Individually-Addressable Highly-Integrated Transparent Stretchable Field Effect Transistor Array. <i>Nano Letters</i> , 2021, 21, 5819-5827.	9.1	10
16	Electroactive 1T-MoS <sub>2</sub> Fluoroelastomer Ink for Intrinsically Stretchable Solid-State In-Plane Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 26870-26878.	8.0	17
17	Transparent Omni-Directional Stretchable Circuit Lines Made by a Junction-Free Grid of Expandable Au Lines. <i>Advanced Materials</i> , 2021, 33, e2100299.	21.0	12
18	Surface Diffusion and Epitaxial Self-Planarization for Wafer-Scale Single-Grain Metal Chalcogenide Thin Films. <i>Advanced Materials</i> , 2021, 33, e2102252.	21.0	13

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19	Stretchable anisotropic conductive film (S-ACF) for electrical interfacing in high-resolution stretchable circuits. <i>Science Advances</i> , 2021, 7, .	10.3	43
20	Large-Area Epitaxial Film Growth of van der Waals Ferromagnetic Ternary Chalcogenides. <i>Advanced Materials</i> , 2021, 33, e2103609.	21.0	12
21	Approaches to deformable physical sensors: Electronic versus iontronic. <i>Materials Science and Engineering Reports</i> , 2021, 146, 100640.	31.8	29
22	Pseudoequilibrium between Etching and Selective Grain Growth: Chemical Conversion of a Randomly Oriented Au Film into a (111)-Oriented Ultrathin Au Film. <i>Nano Letters</i> , 2021, 21, 9772-9779.	9.1	1
23	Microparticle-Based Soft Electronic Devices: Toward One-Particle/One-Pixel. <i>Advanced Functional Materials</i> , 2020, 30, 1901810.	14.9	8
24	Transparent Flexible Nanoline Field-Effect Transistor Array with High Integration in a Large Area. <i>ACS Nano</i> , 2020, 14, 907-918.	14.6	33
25	Folding and Bending Planar Coils for Highly Precise Soft Angle Sensing. <i>Advanced Materials Technologies</i> , 2020, 5, 2000659.	5.8	22
26	Artificial multimodal receptors based on ion relaxation dynamics. <i>Science</i> , 2020, 370, 961-965.	12.6	343
27	DC Voltage Modulation for Integrated Self-Charging Power Systems of Triboelectric Nanogenerators and Ion Gel/WO <sub>3</sub> Supercapacitors. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2550-2557.	4.3	11
28	Stand-Alone Intrinsically Stretchable Electronic Device Platform Powered by Stretchable Rechargeable Battery. <i>Advanced Functional Materials</i> , 2020, 30, 2003608.	14.9	36
29	Design of a Janus-Faced Electrode for Highly Stretchable Zinc-Silver Rechargeable Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2004137.	14.9	18
30	Highly Deformable Transparent Au Film Electrodes and Their Uses in Deformable Displays. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 41969-41980.	8.0	23
31	High-performance transparent conductive pyrolyzed carbon (Py-C) ultrathin film. <i>Journal of Materials Chemistry C</i> , 2020, 8, 9243-9251.	5.5	6
32	2D Colloidal Array of Glucose-Conjugative Conductive Microparticles for a Pressure-Mediated Chemiresistive Sensor Platform. <i>Advanced Functional Materials</i> , 2020, 30, 2000431.	14.9	9
33	2D Percolation Design with Conductive Microparticles for Low-Strain Detection in a Stretchable Sensor. <i>Advanced Functional Materials</i> , 2020, 30, 1908514.	14.9	25
34	Material aspects of triboelectric energy generation and sensors. <i>NPG Asia Materials</i> , 2020, 12, .	7.9	200
35	Electro-Photoluminescence Color Change for Deformable Visual Encryption. <i>Advanced Materials</i> , 2020, 32, e1907477.	21.0	34
36	Microwave-assisted evolution of WO <sub>3</sub> and WS <sub>2</sub> /WO <sub>3</sub> hierarchical nanotrees. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9654-9660.	10.3	18

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37	Au-Assisted catalytic growth of Si <sub>2</sub> Te <sub>3</sub> plates. Journal of Materials Chemistry C, 2019, 7, 10561-10566.	5.5	6
38	Liquid Metal Covered with Thermoplastic Conductive Composites for High Electrical Stability and Negligible Electromechanical Coupling at Large Strains. ACS Applied Materials & Interfaces, 2019, 11, 26204-26212.	8.0	15
39	User-Customized, Multicolor, Transparent Electrochemical Displays Based on Oxidatively Tuned Electrochromic Ion Gels. ACS Applied Materials & Interfaces, 2019, 11, 45959-45968.	8.0	51
40	Recent Progress in Stretchable Batteries for Wearable Electronics. Batteries and Supercaps, 2019, 2, 181-199.	4.7	98
41	Polymer-Assisted Deposition of Al-Doped HfO <sub>2</sub> Thin Film with Excellent Dielectric Properties. Advanced Materials Interfaces, 2019, 6, 1900588.	3.7	9
42	Fabrication of Foldable Metal Interconnections by Hybridizing with Amorphous Carbon Ultrathin Anisotropic Conductive Film. ACS Nano, 2019, 13, 7175-7184.	14.6	27
43	Ag nanowire-based transparent stretchable tactile sensor recognizing strain directions and pressure. Nanotechnology, 2019, 30, 315502.	2.6	20
44	Perovskite solar cells with an MoS <sub>2</sub> electron transport layer. Journal of Materials Chemistry A, 2019, 7, 7151-7158.	10.3	116
45	Synthesis, Transformation, and Utilization of Monodispersed Colloidal Spheres. Accounts of Chemical Research, 2019, 52, 3475-3487.	15.6	44
46	Block Copolymer Elastomers for Stretchable Electronics. Accounts of Chemical Research, 2019, 52, 63-72.	15.6	85
47	Stretchable triboelectric multimodal tactile interface simultaneously recognizing various dynamic body motions. Nano Energy, 2019, 56, 347-356.	16.0	32
48	Effect of ion migration in electro-generated chemiluminescence depending on the luminophore types and operating conditions. Chemical Science, 2018, 9, 2480-2488.	7.4	33
49	Viable stretchable plasmonics based on unidirectional nanoprisms. Nanoscale, 2018, 10, 4105-4112.	5.6	16
50	Enhanced Chemical Stability of Ag Nanowires by Slight Surface Modification with Pd. Advanced Materials Interfaces, 2018, 5, 1800250.	3.7	11
51	Synthesis of Atomically Thin Transition Metal Ditelluride Films by Rapid Chemical Transformation in Solution Phase. Chemistry of Materials, 2018, 30, 2463-2473.	6.7	25
52	Microwave-assisted synthesis of group 5 transition metal dichalcogenide thin films. Journal of Materials Chemistry C, 2018, 6, 11303-11311.	5.5	14
53	Lipids: Source of Static Electricity of Regenerative Natural Substances and Nondestructive Energy Harvesting. Advanced Materials, 2018, 30, e1804949.	21.0	48
54	Hygroscopic Auxetic On-Skin Sensors for Easy-to-Handle Repeated Daily Use. ACS Applied Materials & Interfaces, 2018, 10, 40141-40148.	8.0	69

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55	Comprehensive Analysis on Wrinkled Patterns Generated by Inflation and Contraction of Spherical Voids. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2018, 5, 651-658.	4.9	0
56	Output voltage modulation in triboelectric nanogenerator by printed ion gel capacitors. <i>Nano Energy</i> , 2018, 54, 367-374.	16.0	21
57	Bi <sub>2</sub> Se <sub>3</sub> nanoplates for contrast-enhanced photoacoustic imaging at 1064 nm. <i>Nanoscale</i> , 2018, 10, 20548-20558.	5.6	47
58	Cut-and-Paste Transferrable Pressure Sensing Cartridge Films. <i>Chemistry of Materials</i> , 2018, 30, 6410-6419.	6.7	13
59	Adding a stretchable deep-trap interlayer for high-performance stretchable triboelectric nanogenerators. <i>Nano Energy</i> , 2018, 50, 192-200.	16.0	100
60	Metal Deposition on a Self-Generated Microfibril Network to Fabricate Stretchable Tactile Sensors Providing Analog Position Information. <i>Advanced Materials</i> , 2018, 30, e1801408.	21.0	24
61	Balancing the Concentrations of Redox Species to Improve Electrochemiluminescence by Tailoring the Symmetry of the AC Voltage. <i>ChemElectroChem</i> , 2018, 5, 2836-2841.	3.4	17
62	Synthesis of 2D Metal Chalcogenide Thin Films through the Process Involving Solution-Phase Deposition. <i>Advanced Materials</i> , 2018, 30, e1707577.	21.0	43
63	Ê-Skin Tactile Sensor Matrix Pixelated by Position-Registered Conductive Microparticles Creating Pressure-Sensitive Selectors. <i>Advanced Functional Materials</i> , 2018, 28, 1801858.	14.9	86
64	One-Step Solution Phase Growth of Transition Metal Dichalcogenide Thin Films Directly on Solid Substrates. <i>Advanced Materials</i> , 2017, 29, 1700291.	21.0	39
65	Remarkable increase in triboelectrification by enhancing the conformable contact and adhesion energy with a film-covered pillar structure. <i>Nano Energy</i> , 2017, 34, 233-241.	16.0	33
66	Eventual Chemical Transformation of Metals and Chalcogens into Metal Chalcogenide Nanoplates through a Surface Nucleation-Detachment-Reorganization Mechanism. <i>Chemistry of Materials</i> , 2017, 29, 3219-3227.	6.7	10
67	Surface-Embedded Stretchable Electrodes by Direct Printing and their Uses to Fabricate Ultrathin Vibration Sensors and Circuits for 3D Structures. <i>Advanced Materials</i> , 2017, 29, 1702625.	21.0	63
68	Boosting up the electrical performance of low-grade PEDOT:PSS by optimizing non-ionic surfactants. <i>Nanoscale</i> , 2017, 9, 16079-16085.	5.6	13
69	Fully Elastic Conductive Films from Viscoelastic Composites. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 44096-44105.	8.0	20
70	Highly Scalable Synthesis of MoS <sub>2</sub> Thin Films with Precise Thickness Control via Polymer-Assisted Deposition. <i>Chemistry of Materials</i> , 2017, 29, 5772-5776.	6.7	96
71	Improved stability of transparent PEDOT:PSS/Ag nanowire hybrid electrodes by using non-ionic surfactants. <i>Chemical Communications</i> , 2017, 53, 8292-8295.	4.1	32
72	Deformable Electronics: Conducting Polymer Dough for Deformable Electronics ( <i>Adv. Mater.</i> 22/2016). <i>Advanced Materials</i> , 2016, 28, 4564-4564.	21.0	9

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73	Conducting Polymer Dough for Deformable Electronics. <i>Advanced Materials</i> , 2016, 28, 4455-4461.	21.0	241
74	Stretchable E-skin Apexcardiogram Sensor. <i>Advanced Materials</i> , 2016, 28, 6359-6364.	21.0	182
75	Conductive magnetic-patchy colloidal microparticles for a high performance pressure sensor. <i>Chemical Communications</i> , 2016, 52, 12334-12337.	4.1	7
76	Large-Area Accurate Position Registry of Microparticles on Flexible, Stretchable Substrates Using Elastomer Templates. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 28149-28158.	8.0	25
77	Silver nanowire network embedded in polydimethylsiloxane as stretchable, transparent, and conductive substrates. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	34
78	A Strain-Regulated, Refillable Elastic Patch for Controlled Release. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500803.	3.7	26
79	Force-assembled triboelectric nanogenerator with high-humidity-resistant electricity generation using hierarchical surface morphology. <i>Nano Energy</i> , 2016, 20, 283-293.	16.0	105
80	Approaches to Stretchable Polymer Active Channels for Deformable Transistors. <i>Macromolecules</i> , 2016, 49, 433-444.	4.8	58
81	Polythiophene Nanofibril Bundles Surface-Embedded in Elastomer: A Route to a Highly Stretchable Active Channel Layer. <i>Advanced Materials</i> , 2015, 27, 1255-1261.	21.0	166
82	Material Approaches to Stretchable Strain Sensors. <i>ChemPhysChem</i> , 2015, 16, 1155-1163.	2.1	163
83	Synthesis of Multishell Nanoplates by Consecutive Epitaxial Growth of Bi <sub>2</sub> Se <sub>3</sub> and Bi <sub>2</sub> Te <sub>3</sub> Nanoplates and Enhanced Thermoelectric Properties. <i>ACS Nano</i> , 2015, 9, 6843-6853.	14.6	85
84	Structural Color Painting by Rubbing Particle Powder. <i>Scientific Reports</i> , 2015, 5, 8340.	3.3	41
85	Interfacing Liquid Metals with Stretchable Metal Conductors. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 7920-7926.	8.0	42
86	The effect of Se doping on the growth of Te nanorods. <i>CrystEngComm</i> , 2015, 17, 5734-5743.	2.6	8
87	Emerging Applications of Phase-Change Materials (PCMs): Teaching an Old Dog New Tricks. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3780-3795.	13.8	292
88	Effect of PEDOT Nanofibril Networks on the Conductivity, Flexibility, and Coatability of PEDOT:PSS Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 6954-6961.	8.0	140
89	Metabolizable Bi <sub>2</sub> Se <sub>3</sub> Nanoplates: Biodistribution, Toxicity, and Uses for Cancer Radiation Therapy and Imaging. <i>Advanced Functional Materials</i> , 2014, 24, 1718-1729.	14.9	226
90	Quick, Large-Area Assembly of a Single-Crystal Monolayer of Spherical Particles by Unidirectional Rubbing. <i>Advanced Materials</i> , 2014, 26, 4633-4638.	21.0	89

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91	Nonstoichiometric Nucleation and Growth of Multicomponent Nanocrystals in Solution. <i>Accounts of Chemical Research</i> , 2014, 47, 2887-2893.	15.6	38
92	Design of conductive composite elastomers for stretchable electronics. <i>Nano Today</i> , 2014, 9, 244-260.	11.9	246
93	Solution-based synthesis of anisotropic metal chalcogenide nanocrystals and their applications. <i>Journal of Materials Chemistry C</i> , 2014, 2, 6222-6248.	5.5	66
94	Highly Stretchable Polymer Transistors Consisting Entirely of Stretchable Device Components. <i>Advanced Materials</i> , 2014, 26, 3706-3711.	21.0	157
95	Highly Stretchable Patterned Gold Electrodes Made of Au Nanosheets. <i>Advanced Materials</i> , 2013, 25, 2707-2712.	21.0	159
96	Microscale Polymer Bottles Corked with a Phase-Change Material for Temperature-Controlled Release. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10468-10471.	13.8	89
97	Ultrasonic Breaking of Fibers and Microparticles into Mesoporous Particles with High Loading of Magnetic Nanoparticles. <i>Macromolecular Materials and Engineering</i> , 2013, 298, 575-582.	3.6	4
98	Micropatterned Stretchable Circuit and Strain Sensor Fabricated by Lithography on an Electrospun Nanofiber Mat. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 8766-8771.	8.0	43
99	Highly stretchable electric circuits from a composite material of silver nanoparticles and elastomeric fibres. <i>Nature Nanotechnology</i> , 2012, 7, 803-809.	31.5	782
100	Self-Seeded Growth of Poly(3-hexylthiophene) (P3HT) Nanofibrils by a Cycle of Cooling and Heating in Solutions. <i>Macromolecules</i> , 2012, 45, 7504-7513.	4.8	115
101	Quick, Controlled Synthesis of Ultrathin Bi <sub>2</sub> Se <sub>3</sub> Nanodiscs and Nanosheets. <i>Journal of the American Chemical Society</i> , 2012, 134, 2872-2875.	13.7	154
102	Assembled Monolayers of Hydrophilic Particles on Water Surfaces. <i>ACS Nano</i> , 2011, 5, 8600-8612.	14.6	166
103	A New Theranostic System Based on Gold Nanocages and Phase-Change Materials with Unique Features for Photoacoustic Imaging and Controlled Release. <i>Journal of the American Chemical Society</i> , 2011, 133, 4762-4765.	13.7	382
104	Microfluidic channels fabricated on mesoporous electrospun fiber mats: A facile route to microfluidic chips. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 89-95.	2.1	18
105	Ordered Zigzag Stripes of Polymer Gel/Metal Nanoparticle Composites for Highly Stretchable Conductive Electrodes. <i>Advanced Materials</i> , 2011, 23, 2946-2950.	21.0	156
106	Patterning Materials through Viscoelastic Flow and Phase Separation. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10977-10980.	13.8	9
107	Chemical transformations of nanostructured materials. <i>Nano Today</i> , 2011, 6, 186-203.	11.9	230
108	Chemical Transformations in Ultrathin Chalcogenide Nanowires. <i>ACS Nano</i> , 2010, 4, 2307-2319.	14.6	208

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109	Cation Exchange: A Simple and Versatile Route to Inorganic Colloidal Spheres with the Same Size but Different Compositions and Properties. <i>Langmuir</i> , 2007, 23, 2985-2992.	3.5	146
110	Microscale Fish Bowls: A New Class of Latex Particles with Hollow Interiors and Engineered Porous Structures in Their Surfaces. <i>Langmuir</i> , 2007, 23, 10968-10975.	3.5	81
111	Chemical transformation: a powerful route to metal chalcogenide nanowires. <i>Journal of Materials Chemistry</i> , 2006, 16, 3893.	6.7	107
112	Large-scale synthesis of single-crystal CdSe nanowires through a cation-exchange route. <i>Chemical Physics Letters</i> , 2005, 416, 246-250.	2.6	69
113	Polymer hollow particles with controllable holes in their surfaces. <i>Nature Materials</i> , 2005, 4, 671-675.	27.5	524
114	Photonic Crystals with Thermally Switchable Stop Bands Fabricated from Se@Ag <sub>2</sub> Se Spherical Colloids. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 3099-3103.	13.8	110
115	Monodispersed Spherical Colloids of Se@CdSe: Synthesis and Use as Building Blocks in Fabricating Photonic Crystals. <i>Nano Letters</i> , 2005, 5, 937-942.	9.1	87
116	Amorphous Se: A New Platform for Synthesizing Superparamagnetic Colloids with Controllable Surfaces. <i>Journal of the American Chemical Society</i> , 2005, 127, 1098-1099.	13.7	47