Changhyun Pang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102 papers	5,537 citations	31 h-index	73 g-index
120 ext. papers	6,573 ext. citations	10.4 avg, IF	5.84 L-index

#	Paper	IF	Citations
102	Electrostatic-Mechanical Synergistic In Situ Multiscale Tissue Adhesion for Sustainable Residue-Free Bioelectronics Interfaces (Adv. Mater. 5/2022). *Advanced Materials*, **2022**, 34, 2270042	24	
101	Enhanced biocompatibility and multidirectional wet adhesion of insect-like synergistic wrinkled pillars with microcavities. *Chemical Engineering Journal*, **2022**, 429, 132467	14.7	1
100	Tough Carbon Nanotube-Implanted Bioinspired Three-Dimensional Electrical Adhesive for Isotropically Stretchable Water-Repellent Bioelectronics (Adv. Funct. Mater. 8/2022). *Advanced Functional Materials*, **2022**, 32, 2270053	15.6	
99	Conformably Skin-Adherent Piezoelectric Patch with Bioinspired Hierarchically Arrayed Microsuckers Enables Physical Energy Amplification. *ACS Energy Letters*, **2022**, 7, 1820-1827	20.1	1
98	Ultra-intimate hydrogel hybrid skin patch with asymmetric elastomeric spatula-like cylinders. *Chemical Engineering Journal*, **2022**, 444, 136581	14.7	2
97	Electrostatic-Mechanical Synergistic In Situ Multiscale Tissue Adhesion for Sustainable Residue-Free Bioelectronics Interfaces. *Advanced Materials*, **2021**, e2105338	24	1
96	Ulmusakidian, a new coumarin glycoside and antifungal phenolic compounds from the root bark of Ulmus davidiana var. japonica. *Bioorganic and Medicinal Chemistry Letters*, **2021**, 36, 127828	2.9	1
95	Printable wet-resistive textile strain sensors using bead-blended composite ink for robustly integrative wearable electronics. *Composites Part B: Engineering*, **2021**, 210, 108674	10	11
94	Diving beetle-like miniaturized plungers with reversible, rapid biofluid capturing for machine learning-based care of skin disease. *Science Advances*, **2021**, 7,	14.3	12
93	An artificial neural tactile sensing system. *Nature Electronics*, **2021**, 4, 429-438	28.4	34
92	Comparative Evaluation of Apoptosis Induction Using Needles, Bark, and Pollen Extracts and Essential Oils of Pinus eldarica in Lung Cancer Cells. *Applied Sciences (Switzerland)*, **2021**, 11, 5763	2.6	0
91	A Hierarchically Tailored Wrinkled Three-Dimensional Foam for Enhanced Elastic Supercapacitor Electrodes. *Nano Letters*, **2021**, 21, 7079-7085	11.5	4
90	Bioinspired Microsphere-Embedded Adhesive Architectures for an Electrothermally Actuating Transport Device of Dry/Wet Pliable Surfaces. *ACS Applied Materials & Interfaces*, **2021**, 13, 6930-6940	9.5	8
89	An Electronically Perceptive Bioinspired Soft Wet-Adhesion Actuator with Carbon Nanotube-Based Strain Sensors. *ACS Nano*, **2021**, 15, 14137-14148	16.7	12
88	Uniform pressure responses for nanomaterials-based biological on-skin flexible pressure sensor array. *Carbon*, **2021**, 181, 169-176	10.4	8
87	Delivery of a spheroids-incorporated human dermal fibroblast sheet increases angiogenesis and M2 polarization for wound healing. *Biomaterials*, **2021**, 275, 120954	15.6	4
86	Wet soft bio-adhesion of insect-inspired polymeric oil-loadable perforated microcylinders. *Chemical Engineering Journal*, **2021**, 423, 130194	14.7	4

85	Anti-Adipogenic Polyacetylene Glycosides from the Florets of Safflower (). *Biomedicines*, **2021**, 9,	4.8	2
84	Estrogenic Activity of Mycoestrogen (3,5,22)-Ergost-22-en-3-ol via Estrogen Receptor Dependent Signaling Pathways in MCF-7 Cells.. *Molecules*, **2021**, 27,	4.8	3
83	Phallac acids A and B, new sesquiterpenes from the fruiting bodies of Phallus luteus. *Journal of Antibiotics*, **2020**, 73, 729-732	3.7	3
82	A Hierarchical 3D Graphene Nanocomposite Foam for Extremely Tough, Non-Wettable, and Elastic Conductor. *Advanced Materials Interfaces*, **2020**, 7, 2000354	4.6	2
81	Intrinsically Strain-Insensitive, Hyperelastic Temperature-Sensing Fiber with Compressed Micro-Wrinkles for Integrated Textronics. *Advanced Materials Technologies*, **2020**, 5, 2000073	6.8	17
80	Highly Air/Water-Permeable Hierarchical Mesh Architectures for Stretchable Underwater Electronic Skin Patches. *ACS Applied Materials & Interfaces*, **2020**, 12, 14425-14432	9.5	11
79	Antifungal Phenols from Collected in Oman. *Journal of Natural Products*, **2020**, 83, 2261-2268	4.9	16
78	Ergostane-Type Steroids from Korean Wild Mushroom that Control Adipocyte and Osteoblast Differentiation. *Journal of Microbiology and Biotechnology*, **2020**, 30, 1769-1776	3.3	0
77	A Micropillar-Assisted Versatile Strategy for Highly Sensitive and Efficient Triboelectric Energy Generation under In-Plane Stimuli. *Advanced Materials*, **2020**, 32, e1905539	24	17
76	Hydrophobicity Evolution on Rough Surfaces. *Langmuir*, **2020**, 36, 689-696	4	12
75	Programmable Fabrication of Submicrometer Bent Pillar Structures Enabled by a Photoreconfigurable Azopolymer. *ACS Applied Materials & Interfaces*, **2020**, 12, 5058-5064	9.5	13
74	Hepatoprotective Potency of Chrysophanol 8--Glucoside from L. against Hepatic Fibrosis via Regulation of the STAT3 Signaling Pathway. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	4
73	Discovery of Dihydrophaseic Acid Glucosides from the Florets of. *Plants*, **2020**, 9,	4.5	2
72	Identification of Anti-Inflammatory Compounds from Hawaiian Noni (L.) Fruit Juice. *Molecules*, **2020**, 25,	4.8	10
71	Ginkgobilol, a new diarylpentanoid and an osteogenic diarylpentanoid analog from Ginkgo biloba leaves. *Bioorganic and Medicinal Chemistry Letters*, **2020**, 30, 127641	2.9	6
70	Beyond Human Hand: Shape-Adaptive and Reversible Magnetorheological Elastomer-Based Robot Gripper Skin. *ACS Applied Materials & Interfaces*, **2020**, 12, 44147-44155	9.5	7
69	Highly Permeable Skin Patch with Conductive Hierarchical Architectures Inspired by Amphibians and Octopi for Omnidirectionally Enhanced Wet Adhesion. *Advanced Functional Materials*, **2019**, 29, 1807614	15.6	73
68	Water-Resistant and Skin-Adhesive Wearable Electronics Using Graphene Fabric Sensor with Octopus-Inspired Microsuckers. *ACS Applied Materials & Interfaces*, **2019**, 11, 16951-16957	9.5	37

67	A transparent, glue-free, skin-attachable graphene pressure sensor with micropillars for skin-elasticity measurement. *Nanotechnology*, **2019**, 30, 335501	3.4	15
66	Self-Powered Pressure- and Vibration-Sensitive Tactile Sensors for Learning Technique-Based Neural Finger Skin. *Nano Letters*, **2019**, 19, 3305-3312	11.5	72
65	Bioinspired Hairy Skin Electronics for Detecting the Direction and Incident Angle of Airflow. *ACS Applied Materials & Interfaces*, **2019**, 11, 13608-13615	9.5	18
64	Carbon-Based, Ultraelastic, Hierarchically Coated Fiber Strain Sensors with Crack-Controllable Beads. *ACS Applied Materials & Interfaces*, **2019**, 11, 15079-15087	9.5	23
63	Bioinspired Adhesive Architectures: From Skin Patch to Integrated Bioelectronics. *Advanced Materials*, **2019**, 31, e1803309	24	126
62	Hexagonal deposits of colloidal particles. *Physical Review E*, **2019**, 100, 022602	2.4	6
61	Betulinic Acid Suppresses Ovarian Cancer Cell Proliferation through Induction of Apoptosis. *Biomolecules*, **2019**, 9,	5.9	15
60	Capillarity-Enhanced Organ-Attachable Adhesive with Highly Drainable Wrinkled Octopus-Inspired Architectures. *ACS Applied Materials & Interfaces*, **2019**, 11, 25674-25681	9.5	32
59	High-Output and Bending-Tolerant Triboelectric Nanogenerator Based on an Interlocked Array of Surface-Functionalized Indium Tin Oxide Nanohelixes. *ACS Energy Letters*, **2019**, 4, 1748-1754	20.1	30
58	Conductive Hierarchical Hairy Fibers for Highly Sensitive, Stretchable, and Water-Resistant Multimodal Gesture-Distinguishable Sensor, VR Applications. *Advanced Functional Materials*, **2019**, 29, 1905808	15.6	39
57	Snail-Inspired Dry Adhesive with Embedded Microstructures for Enhancement of Energy Dissipation. *Advanced Materials Technologies*, **2019**, 4, 1900316	6.8	12
56	Single-Layer Graphene-Based Transparent and Flexible Multifunctional Electronics for Self-Charging Power and Touch-Sensing Systems. *ACS Applied Materials & Interfaces*, **2019**, 11, 9301-9308	9.5	30
55	Suppression of 6-Hydroxydopamine-Induced Oxidative Stress by Hyperoside Via Activation of Nrf2/HO-1 Signaling in Dopaminergic Neurons. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	21
54	Spray Coating Technologies: Conductive Hierarchical Hairy Fibers for Highly Sensitive, Stretchable, and Water-Resistant Multimodal Gesture-Distinguishable Sensor, VR Applications (Adv. Funct. Mater. 50/2019). *Advanced Functional Materials*, **2019**, 29, 1970344	15.6	
53	7□15-Dihydroxydehydroabietic acid from Pinus koraiensis inhibits the promotion of angiogenesis through downregulation of VEGF, p-Akt and p-ERK in HUVECs. *Bioorganic and Medicinal Chemistry Letters*, **2018**, 28, 1084-1089	2.9	11
52	Bioactivity-guided isolation of ginsenosides from Korean Red Ginseng with cytotoxic activity against human lung adenocarcinoma cells. *Journal of Ginseng Research*, **2018**, 42, 562-570	5.8	47
51	Highly Adaptable and Biocompatible Octopus-Like Adhesive Patches with Meniscus-Controlled Unfoldable 3D Microtips for Underwater Surface and Hairy Skin. *Advanced Science*, **2018**, 5, 1800100	13.6	66
50	Magnetically-Programmable Cylindrical Microparticles by Facile Reaping Method. *Macromolecular Research*, **2018**, 26, 1108-1114	1.9	3

49	Biomimetics: Conductive and Stretchable Adhesive Electronics with Miniaturized Octopus-Like Suckers against Dry/Wet Skin for Biosignal Monitoring (Adv. Funct. Mater. 52/2018). *Advanced Functional Materials*, **2018**, 28, 1870372	15.6	2
48	Conductive and Stretchable Adhesive Electronics with Miniaturized Octopus-Like Suckers against Dry/Wet Skin for Biosignal Monitoring. *Advanced Functional Materials*, **2018**, 28, 1805224	15.6	69
47	Hybrid Architectures of Heterogeneous Carbon Nanotube Composite Microstructures Enable Multiaxial Strain Perception with High Sensitivity and Ultrabroad Sensing Range. *Small*, **2018**, 14, e1803411	11	34
46	Electronic Skins: Hybrid Architectures of Heterogeneous Carbon Nanotube Composite Microstructures Enable Multiaxial Strain Perception with High Sensitivity and Ultrabroad Sensing Range (Small 52/2018). *Small*, **2018**, 14, 1870253	11	
45	Cytotoxic Constituents from the Sclerotia of against Human Lung Adenocarcinoma Cells by Inducing Mitochondrial Apoptosis. *Cells*, **2018**, 7,	7.9	26
44	A wet-tolerant adhesive patch inspired by protuberances in suction cups of octopi. *Nature*, **2017**, 546, 396-400	50.4	232
43	Microtopography-Guided Conductive Patterns of Liquid-Driven Graphene Nanoplatelet Networks for Stretchable and Skin-Conformal Sensor Array. *Advanced Materials*, **2017**, 29, 1606453	24	77
42	Highly Sensitive and Bendable Capacitive Pressure Sensor and Its Application to 1 V Operation Pressure-Sensitive Transistor. *Advanced Electronic Materials*, **2017**, 3, 1600455	6.4	57
41	Vulpinic acid contributes to the cytotoxicity of Pulveroboletus ravenelii to human cancer cells by inducing apoptosis. *RSC Advances*, **2017**, 7, 35297-35304	3.7	18
40	Crack-Enhanced Microfluidic Stretchable E-Skin Sensor. *ACS Applied Materials & Interfaces*, **2017**, 9, 44678-44686	9.5	36
39	Bioinspired Geometry-Switchable Janus Nanofibers for Eye-Readable H2 Sensors. *Advanced Functional Materials*, **2017**, 27, 1701618	15.6	28
38	Methyl Acetate Synthesis by Esterification on the Modified Ferrierite: Correlation of Acid Sites Measured by Pyridine IR and NH3-TPD for Steady-State Activity. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 4626-30	1.3	9
37	Diketopiperazines from Costa Rican endolichenic fungus Colpoma sp. CR1465A. *Bioorganic and Medicinal Chemistry Letters*, **2016**, 26, 2438-2441	2.9	7
36	Fabrication of aligned nanofibers by electric-field-controlled electrospinning: insulating-block method. *Nanotechnology*, **2016**, 27, 435301	3.4	14
35	Conductive fiber-based ultrasensitive textile pressure sensor for wearable electronics. *Advanced Materials*, **2015**, 27, 2433-9	24	746
34	Copper-Assisted Direct Growth of Vertical Graphene Nanosheets on Glass Substrates by Low-Temperature Plasma-Enhanced Chemical Vapour Deposition Process. *Nanoscale Research Letters*, **2015**, 10, 1019	5	48
33	Fischer–Tropsch synthesis on Co/AlSBA-15: effects of hydrophilicity of supports on cobalt dispersion and product distributions. *Catalysis Science and Technology*, **2015**, 5, 3525-3535	5.5	29
32	Guided extracellular matrix formation from fibroblast cells cultured on bio-inspired configurable multiscale substrata. *Data in Brief*, **2015**, 5, 203-7	1.2	3

31	Flow-enhanced solution printing of all-polymer solar cells. *Nature Communications*, **2015**, 6, 7955	17.4	191
30	Dental Hetero-Graft Materials with Nano Hydroxyapatite Surface Treatment. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 7942-9	1.3	7
29	Bio-inspired configurable multiscale extracellular matrix-like structures for functional alignment and guided orientation of cells. *Biomaterials*, **2015**, 69, 158-64	15.6	41
28	Bio-inspired functionalization and redox charge transfer of graphene oxide sponges for pseudocapacitive electrodes. *Carbon*, **2015**, 83, 71-78	10.4	24
27	Microwave-reduced graphene oxide for efficient and stable hole extraction layers of polymer solar cells. *Current Applied Physics*, **2015**, 15, 953-957	2.6	15
26	Highly durable and unidirectionally stooped polymeric nanohairs for gecko-like dry adhesive. *Nanotechnology*, **2015**, 26, 415301	3.4	12
25	Theoretical analysis of flexible strain-gauge sensor with nanofibrillar mechanical interlocking. *Current Applied Physics*, **2015**, 15, 274-278	2.6	5
24	Robust microzip fastener: repeatable interlocking using polymeric rectangular parallelepiped arrays. *ACS Applied Materials & Interfaces*, **2015**, 7, 2561-8	9.5	12
23	Combined Steam and CO2 Reforming of CH4 on LaSrNiOx Mixed Oxides Supported on Al2O3-Modified SiC Support. *Energy & Fuels*, **2015**, 29, 1055-1065	4.1	27
22	Highly sensitive non-enzymatic glucose sensor based on over-oxidized polypyrrole nanowires modified with Ni(OH)2 nanoflakes. *Sensors and Actuators B: Chemical*, **2015**, 211, 93-101	8.5	68
21	Anti-inflammatory activity of a new cyclic peptide, citrusin XI, isolated from the fruits of Citrus unshiu. *Journal of Ethnopharmacology*, **2015**, 163, 106-12	5	31
20	Identification of cytotoxic and anti-inflammatory constituents from the bark of Toxicodendron vernicifluum (Stokes) F.A. Barkley. *Journal of Ethnopharmacology*, **2015**, 162, 231-7	5	25
19	Highly skin-conformal microhairy sensor for pulse signal amplification. *Advanced Materials*, **2015**, 27, 634-40	24	486
18	Selective metal deposition at graphene line defects by atomic layer deposition. *Nature Communications*, **2014**, 5, 4781	17.4	196
17	Color temperature control of quantum dot white light emitting diodes by grafting organic fluorescent molecules. *Journal of Materials Chemistry C*, **2014**, 2, 9800-9804	7.1	10
16	Fabrication and analysis of enforced dry adhesives with core–shell micropillars. *Soft Matter*, **2013**, 9, 1422–1427	3.4	31
15	High-Performance Hybrid Catalyst with Selectively Functionalized Carbon by Temperature-Directed Switchable Polymer. *Chemistry of Materials*, **2013**, 25, 1526-1532	9.6	27
14	Wearable skin sensor using programmable interlocking of nanofibers **2013**,		2

13	Recent advances in flexible sensors for wearable and implantable devices. *Journal of Applied Polymer Science*, **2013**, 130, 1429-1441	2.9	316
12	Bioinspired reversible interlocker using regularly arrayed high aspect-ratio polymer fibers. *Advanced Materials*, **2012**, 24, 475-9	24	78
11	Shape-controllable microlens arrays via direct transfer of photocurable polymer droplets. *Advanced Materials*, **2012**, 24, 1709-15	24	70
10	Nano meets beetles from wing to tiptoe: Versatile tools for smart and reversible adhesions. *Nano Today*, **2012**, 7, 496-513	17.9	41
9	Beetle-inspired bidirectional, asymmetric interlocking using geometry-tunable nanohairs. *ACS Applied Materials & Interfaces*, **2012**, 4, 4225-30	9.5	28
8	Analysis of preload-dependent reversible mechanical interlocking using beetle-inspired wing locking device. *Langmuir*, **2012**, 28, 2181-6	4	21
7	A flexible and highly sensitive strain-gauge sensor using reversible interlocking of nanofibres. *Nature Materials*, **2012**, 11, 795-801	27	1227
6	Towards the Next Level of Bioinspired Dry Adhesives: New Designs and Applications. *Advanced Functional Materials*, **2011**, 21, 3606-3616	15.6	137
5	Kinetic Modeling of Temperature Dependence of TiCl4 and NH3 Surface Reaction in Trap Systems for CVD Reactors. *Industrial & Engineering Chemistry Research*, **2009**, 48, 1353-1356	3.9	
4	Shape-tunable polymer nanofibrillar structures by oblique electron beam irradiation. *Langmuir*, **2009**, 25, 8879-82	4	37
3	Efficiency enhancement of polymer solar cells by patterning nanoscale indium tin oxide layer. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 5279-83	1.3	3
2	Wearable skin sensors for in vitro diagnostics. *SPIE Newsroom*,		2
1	Tough Carbon Nanotube-Implanted Bioinspired Three-Dimensional Electrical Adhesive for Isotropically Stretchable Water-Repellent Bioelectronics. *Advanced Functional Materials*,2107285	15.6	6