

Changhyun Pang

List of Publications by Citations

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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	A flexible and highly sensitive strain-gauge sensor using reversible interlocking of nanofibres. <i>Nature Materials</i> , 2012 , 11, 795-801	27	1227
101	Conductive fiber-based ultrasensitive textile pressure sensor for wearable electronics. <i>Advanced Materials</i> , 2015 , 27, 2433-9	24	746
100	Highly skin-conformal microhairy sensor for pulse signal amplification. <i>Advanced Materials</i> , 2015 , 27, 634-40	24	486
99	Recent advances in flexible sensors for wearable and implantable devices. <i>Journal of Applied Polymer Science</i> , 2013 , 130, 1429-1441	2.9	316
98	A wet-tolerant adhesive patch inspired by protuberances in suction cups of octopi. <i>Nature</i> , 2017 , 546, 396-400	50.4	232
97	Selective metal deposition at graphene line defects by atomic layer deposition. <i>Nature Communications</i> , 2014 , 5, 4781	17.4	196
96	Flow-enhanced solution printing of all-polymer solar cells. <i>Nature Communications</i> , 2015 , 6, 7955	17.4	191
95	Towards the Next Level of Bioinspired Dry Adhesives: New Designs and Applications. <i>Advanced Functional Materials</i> , 2011 , 21, 3606-3616	15.6	137
94	Bioinspired Adhesive Architectures: From Skin Patch to Integrated Bioelectronics. <i>Advanced Materials</i> , 2019 , 31, e1803309	24	126
93	Bioinspired reversible interlocker using regularly arrayed high aspect-ratio polymer fibers. <i>Advanced Materials</i> , 2012 , 24, 475-9	24	78
92	Microtopography-Guided Conductive Patterns of Liquid-Driven Graphene Nanoplatelet Networks for Stretchable and Skin-Conformal Sensor Array. <i>Advanced Materials</i> , 2017 , 29, 1606453	24	77
91	Highly Permeable Skin Patch with Conductive Hierarchical Architectures Inspired by Amphibians and Octopi for Omnidirectionally Enhanced Wet Adhesion. <i>Advanced Functional Materials</i> , 2019 , 29, 1807814	15.6	73
90	Self-Powered Pressure- and Vibration-Sensitive Tactile Sensors for Learning Technique-Based Neural Finger Skin. <i>Nano Letters</i> , 2019 , 19, 3305-3312	11.5	72
89	Shape-controllable microlens arrays via direct transfer of photocurable polymer droplets. <i>Advanced Materials</i> , 2012 , 24, 1709-15	24	70
88	Conductive and Stretchable Adhesive Electronics with Miniaturized Octopus-Like Suckers against Dry/Wet Skin for Biosignal Monitoring. <i>Advanced Functional Materials</i> , 2018 , 28, 1805224	15.6	69
87	Highly sensitive non-enzymatic glucose sensor based on over-oxidized polypyrrole nanowires modified with Ni(OH) ₂ nanoflakes. <i>Sensors and Actuators B: Chemical</i> , 2015 , 211, 93-101	8.5	68
86	Highly Adaptable and Biocompatible Octopus-Like Adhesive Patches with Meniscus-Controlled Unfoldable 3D Microtips for Underwater Surface and Hairy Skin. <i>Advanced Science</i> , 2018 , 5, 1800100	13.6	66

85	Highly Sensitive and Bendable Capacitive Pressure Sensor and Its Application to 1 V Operation Pressure-Sensitive Transistor. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600455	6.4	57
84	Copper-Assisted Direct Growth of Vertical Graphene Nanosheets on Glass Substrates by Low-Temperature Plasma-Enhanced Chemical Vapour Deposition Process. <i>Nanoscale Research Letters</i> , 2015 , 10, 1019	5	48
83	Bioactivity-guided isolation of ginsenosides from Korean Red Ginseng with cytotoxic activity against human lung adenocarcinoma cells. <i>Journal of Ginseng Research</i> , 2018 , 42, 562-570	5.8	47
82	Bio-inspired configurable multiscale extracellular matrix-like structures for functional alignment and guided orientation of cells. <i>Biomaterials</i> , 2015 , 69, 158-64	15.6	41
81	Nano meets beetles from wing to tiptoe: Versatile tools for smart and reversible adhesions. <i>Nano Today</i> , 2012 , 7, 496-513	17.9	41
80	Conductive Hierarchical Hairy Fibers for Highly Sensitive, Stretchable, and Water-Resistant Multimodal Gesture-Distinguishable Sensor, VR Applications. <i>Advanced Functional Materials</i> , 2019 , 29, 1905808	15.6	39
79	Water-Resistant and Skin-Adhesive Wearable Electronics Using Graphene Fabric Sensor with Octopus-Inspired Microsuckers. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 16951-16957	9.5	37
78	Shape-tunable polymer nanofibrillar structures by oblique electron beam irradiation. <i>Langmuir</i> , 2009 , 25, 8879-82	4	37
77	Crack-Enhanced Microfluidic Stretchable E-Skin Sensor. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 44678-44686	9.5	36
76	An artificial neural tactile sensing system. <i>Nature Electronics</i> , 2021 , 4, 429-438	28.4	34
75	Hybrid Architectures of Heterogeneous Carbon Nanotube Composite Microstructures Enable Multi-axial Strain Perception with High Sensitivity and Ultrabroad Sensing Range. <i>Small</i> , 2018 , 14, e1803411	11	34
74	Capillarity-Enhanced Organ-Attachable Adhesive with Highly Drainable Wrinkled Octopus-Inspired Architectures. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 25674-25681	9.5	32
73	Fabrication and analysis of enforced dry adhesives with core-shell micropillars. <i>Soft Matter</i> , 2013 , 9, 14223-1427	3.1	31
72	Anti-inflammatory activity of a new cyclic peptide, citrusin XI, isolated from the fruits of Citrus unshiu. <i>Journal of Ethnopharmacology</i> , 2015 , 163, 106-12	5	31
71	High-Output and Bending-Tolerant Triboelectric Nanogenerator Based on an Interlocked Array of Surface-Functionalized Indium Tin Oxide Nanohelices. <i>ACS Energy Letters</i> , 2019 , 4, 1748-1754	20.1	30
70	Single-Layer Graphene-Based Transparent and Flexible Multifunctional Electronics for Self-Charging Power and Touch-Sensing Systems. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 93019-9308	9.5	30
69	Fischer-Tropsch synthesis on Co/AlSBA-15: effects of hydrophilicity of supports on cobalt dispersion and product distributions. <i>Catalysis Science and Technology</i> , 2015 , 5, 3525-3535	5.5	29
68	Bioinspired Geometry-Switchable Janus Nanofibers for Eye-Readable H ₂ Sensors. <i>Advanced Functional Materials</i> , 2017 , 27, 1701618	15.6	28

67	Beetle-inspired bidirectional, asymmetric interlocking using geometry-tunable nanohairs. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 4225-30	9.5	28
66	Combined Steam and CO ₂ Reforming of CH ₄ on LaSrNiOx Mixed Oxides Supported on Al ₂ O ₃ -Modified SiC Support. <i>Energy & Fuels</i> , 2015 , 29, 1055-1065	4.1	27
65	High-Performance Hybrid Catalyst with Selectively Functionalized Carbon by Temperature-Directed Switchable Polymer. <i>Chemistry of Materials</i> , 2013 , 25, 1526-1532	9.6	27
64	Cytotoxic Constituents from the Sclerotia of against Human Lung Adenocarcinoma Cells by Inducing Mitochondrial Apoptosis. <i>Cells</i> , 2018 , 7,	7.9	26
63	Identification of cytotoxic and anti-inflammatory constituents from the bark of Toxicodendron vernicifluum (Stokes) F.A. Barkley. <i>Journal of Ethnopharmacology</i> , 2015 , 162, 231-7	5	25
62	Bio-inspired functionalization and redox charge transfer of graphene oxide sponges for pseudocapacitive electrodes. <i>Carbon</i> , 2015 , 83, 71-78	10.4	24
61	Carbon-Based, Ultraelastic, Hierarchically Coated Fiber Strain Sensors with Crack-Controllable Beads. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15079-15087	9.5	23
60	Analysis of preload-dependent reversible mechanical interlocking using beetle-inspired wing locking device. <i>Langmuir</i> , 2012 , 28, 2181-6	4	21
59	Suppression of 6-Hydroxydopamine-Induced Oxidative Stress by Hyperoside Via Activation of Nrf2/HO-1 Signaling in Dopaminergic Neurons. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	21
58	Bioinspired Hairy Skin Electronics for Detecting the Direction and Incident Angle of Airflow. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13608-13615	9.5	18
57	Vulpinic acid contributes to the cytotoxicity of <i>Pulveroboletus ravenelii</i> to human cancer cells by inducing apoptosis. <i>RSC Advances</i> , 2017 , 7, 35297-35304	3.7	18
56	Intrinsically Strain-Insensitive, Hyperelastic Temperature-Sensing Fiber with Compressed Micro-Wrinkles for Integrated Textronics. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000073	6.8	17
55	A Micropillar-Assisted Versatile Strategy for Highly Sensitive and Efficient Triboelectric Energy Generation under In-Plane Stimuli. <i>Advanced Materials</i> , 2020 , 32, e1905539	24	17
54	Antifungal Phenols from Collected in Oman. <i>Journal of Natural Products</i> , 2020 , 83, 2261-2268	4.9	16
53	A transparent, glue-free, skin-attachable graphene pressure sensor with micropillars for skin-elasticity measurement. <i>Nanotechnology</i> , 2019 , 30, 335501	3.4	15
52	Betulinic Acid Suppresses Ovarian Cancer Cell Proliferation through Induction of Apoptosis. <i>Biomolecules</i> , 2019 , 9,	5.9	15
51	Microwave-reduced graphene oxide for efficient and stable hole extraction layers of polymer solar cells. <i>Current Applied Physics</i> , 2015 , 15, 953-957	2.6	15
50	Fabrication of aligned nanofibers by electric-field-controlled electrospinning: insulating-block method. <i>Nanotechnology</i> , 2016 , 27, 435301	3.4	14

49	Programmable Fabrication of Submicrometer Bent Pillar Structures Enabled by a Photoreconfigurable Azopolymer. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 5058-5064	9.5	13
48	Snail-Inspired Dry Adhesive with Embedded Microstructures for Enhancement of Energy Dissipation. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900316	6.8	12
47	Highly durable and unidirectionally stooped polymeric nanohairs for gecko-like dry adhesive. <i>Nanotechnology</i> , 2015 , 26, 415301	3.4	12
46	Robust microzip fastener: repeatable interlocking using polymeric rectangular parallelepiped arrays. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 2561-8	9.5	12
45	Hydrophobicity Evolution on Rough Surfaces. <i>Langmuir</i> , 2020 , 36, 689-696	4	12
44	Diving beetle-like miniaturized plungers with reversible, rapid biofluid capturing for machine learning-based care of skin disease. <i>Science Advances</i> , 2021 , 7,	14.3	12
43	An Electronically Perceptive Bioinspired Soft Wet-Adhesion Actuator with Carbon Nanotube-Based Strain Sensors. <i>ACS Nano</i> , 2021 , 15, 14137-14148	16.7	12
42	Highly Air/Water-Permeable Hierarchical Mesh Architectures for Stretchable Underwater Electronic Skin Patches. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 14425-14432	9.5	11
41	7β 5-Dihydroxydehydroabiatic acid from <i>Pinus koraiensis</i> inhibits the promotion of angiogenesis through downregulation of VEGF, p-Akt and p-ERK in HUVECs. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018 , 28, 1084-1089	2.9	11
40	Printable wet-resistive textile strain sensors using bead-blended composite ink for robustly integrative wearable electronics. <i>Composites Part B: Engineering</i> , 2021 , 210, 108674	10	11
39	Color temperature control of quantum dot white light emitting diodes by grafting organic fluorescent molecules. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 9800-9804	7.1	10
38	Identification of Anti-Inflammatory Compounds from Hawaiian Noni (<i>L.</i>) Fruit Juice. <i>Molecules</i> , 2020 , 25,	4.8	10
37	Methyl Acetate Synthesis by Esterification on the Modified Ferrierite: Correlation of Acid Sites Measured by Pyridine IR and NH ₃ -TPD for Steady-State Activity. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 4626-30	1.3	9
36	Bioinspired Microsphere-Embedded Adhesive Architectures for an Electrothermally Actuating Transport Device of Dry/Wet Pliable Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 6930-6940	10.5	8
35	Uniform pressure responses for nanomaterials-based biological on-skin flexible pressure sensor array. <i>Carbon</i> , 2021 , 181, 169-176	10.4	8
34	Dental Hetero-Graft Materials with Nano Hydroxyapatite Surface Treatment. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 7942-9	1.3	7
33	Beyond Human Hand: Shape-Adaptive and Reversible Magnetorheological Elastomer-Based Robot Gripper Skin. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 44147-44155	9.5	7
32	Diketopiperazines From Costa Rican endolichenic fungus <i>Colpoma</i> sp. CR1465A. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016 , 26, 2438-2441	2.9	7

31	Hexagonal deposits of colloidal particles. <i>Physical Review E</i> , 2019 , 100, 022602	2.4	6
30	Tough Carbon Nanotube-Implanted Bioinspired Three-Dimensional Electrical Adhesive for Isotropically Stretchable Water-Repellent Bioelectronics. <i>Advanced Functional Materials</i> , 2021 , 31, 2107285	15.6	6
29	Ginkgobilol, a new diarylpentanoid and an osteogenic diarylpentanoid analog from Ginkgo biloba leaves. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020 , 30, 127641	2.9	6
28	Theoretical analysis of flexible strain-gauge sensor with nanofibrillar mechanical interlocking. <i>Current Applied Physics</i> , 2015 , 15, 274-278	2.6	5
27	Hepatoprotective Potency of Chrysophanol 8--Glucoside from L. against Hepatic Fibrosis via Regulation of the STAT3 Signaling Pathway. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	4
26	A Hierarchically Tailored Wrinkled Three-Dimensional Foam for Enhanced Elastic Supercapacitor Electrodes. <i>Nano Letters</i> , 2021 , 21, 7079-7085	11.5	4
25	Delivery of a spheroids-incorporated human dermal fibroblast sheet increases angiogenesis and M2 polarization for wound healing. <i>Biomaterials</i> , 2021 , 275, 120954	15.6	4
24	Wet soft bio-adhesion of insect-inspired polymeric oil-loadable perforated microcylinders. <i>Chemical Engineering Journal</i> , 2021 , 423, 130194	14.7	4
23	Guided extracellular matrix formation from fibroblast cells cultured on bio-inspired configurable multiscale substrata. <i>Data in Brief</i> , 2015 , 5, 203-7	1.2	3
22	Phallac acids A and B, new sesquiterpenes from the fruiting bodies of <i>Phallus luteus</i> . <i>Journal of Antibiotics</i> , 2020 , 73, 729-732	3.7	3
21	Efficiency enhancement of polymer solar cells by patterning nanoscale indium tin oxide layer. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 5279-83	1.3	3
20	Magnetically-Programmable Cylindrical Microparticles by Facile Reaping Method. <i>Macromolecular Research</i> , 2018 , 26, 1108-1114	1.9	3
19	Estrogenic Activity of Mycoestrogen (3,5,22)-Ergost-22-en-3-ol via Estrogen Receptor β -Dependent Signaling Pathways in MCF-7 Cells. <i>Molecules</i> , 2021 , 27,	4.8	3
18	A Hierarchical 3D Graphene Nanocomposite Foam for Extremely Tough, Non-Wettable, and Elastic Conductor. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000354	4.6	2
17	Wearable skin sensor using programmable interlocking of nanofibers 2013 ,		2
16	Wearable skin sensors for in vitro diagnostics. <i>SPIE Newsroom</i> ,		2
15	Discovery of Dihydrophaseic Acid Glucosides from the Florets of. <i>Plants</i> , 2020 , 9,	4.5	2
14	Biomimetics: Conductive and Stretchable Adhesive Electronics with Miniaturized Octopus-Like Suckers against Dry/Wet Skin for Biosignal Monitoring (Adv. Funct. Mater. 52/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870372	15.6	2

13	Anti-Adipogenic Polyacetylene Glycosides from the Florets of Safflower (). <i>Biomedicines</i> , 2021 , 9,	4.8	2
12	Ultra-intimate hydrogel hybrid skin patch with asymmetric elastomeric spatula-like cylinders. <i>Chemical Engineering Journal</i> , 2022 , 444, 136581	14.7	2
11	Electrostatic-Mechanical Synergistic In Situ Multiscale Tissue Adhesion for Sustainable Residue-Free Bioelectronics Interfaces. <i>Advanced Materials</i> , 2021 , e2105338	24	1
10	Ulmusakidian, a new coumarin glycoside and antifungal phenolic compounds from the root bark of <i>Ulmus davidiana</i> var. <i>japonica</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021 , 36, 127828	2.9	1
9	Enhanced biocompatibility and multidirectional wet adhesion of insect-like synergistic wrinkled pillars with microcavities. <i>Chemical Engineering Journal</i> , 2022 , 429, 132467	14.7	1
8	Conformably Skin-Adherent Piezoelectric Patch with Bioinspired Hierarchically Arrayed Microsuckers Enables Physical Energy Amplification. <i>ACS Energy Letters</i> , 2022 , 7, 1820-1827	20.1	1
7	Ergostane-Type Steroids from Korean Wild Mushroom that Control Adipocyte and Osteoblast Differentiation. <i>Journal of Microbiology and Biotechnology</i> , 2020 , 30, 1769-1776	3.3	0
6	Comparative Evaluation of Apoptosis Induction Using Needles, Bark, and Pollen Extracts and Essential Oils of <i>Pinus eldarica</i> in Lung Cancer Cells. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 5763	2.6	0
5	Kinetic Modeling of Temperature Dependence of TiCl ₄ and NH ₃ Surface Reaction in Trap Systems for CVD Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 1353-1356	3.9	
4	Electrostatic-Mechanical Synergistic In Situ Multiscale Tissue Adhesion for Sustainable Residue-Free Bioelectronics Interfaces (Adv. Mater. 5/2022). <i>Advanced Materials</i> , 2022 , 34, 2270042	24	
3	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). <i>Advanced Functional Materials</i> , 2019 , 29, 1970344	15.6	
2	Electronic Skins: Hybrid Architectures of Heterogeneous Carbon Nanotube Composite Microstructures Enable Multiaxial Strain Perception with High Sensitivity and Ultrabroad Sensing Range (Small 52/2018). <i>Small</i> , 2018 , 14, 1870253	11	
1	Tough Carbon Nanotube-Implanted Bioinspired Three-Dimensional Electrical Adhesive for Isotropically Stretchable Water-Repellent Bioelectronics (Adv. Funct. Mater. 8/2022). <i>Advanced Functional Materials</i> , 2022 , 32, 2270053	15.6	