

Hoon Eui Jeong

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3072040/publications.pdf>

Version: 2024-02-01

90
papers

4,181
citations

109321

35
h-index

114465

63
g-index

90
all docs

90
docs citations

90
times ranked

4601
citing authors

#	ARTICLE	IF	CITATIONS
1	Magneto-responsive photothermal composite cilia for active anti-icing and de-icing. <i>Composites Science and Technology</i> , 2022, 217, 109086.	7.8	31
2	Colorimetric Sensor Based on Hydroxypropyl Cellulose for Wide Temperature Sensing Range. <i>Sensors</i> , 2022, 22, 886.	3.8	6
3	Dynamically actuating nanospike composites as a bioinspired antibiofilm material. <i>Composites Science and Technology</i> , 2022, 220, 109267.	7.8	9
4	Efficiency of air-dried and freeze-dried alginate/xanthan beads in batch, recirculating and column adsorption processes. <i>International Journal of Biological Macromolecules</i> , 2022, 204, 345-355.	7.5	6
5	Self-Assembled Artificial Nanocilia Actuators. <i>Advanced Materials</i> , 2022, 34, e2200185.	21.0	13
6	Self-adhesive polyurethane via selective photo-polymerization for biocompatible epidermal soft sensor and thermal heater. <i>Applied Materials Today</i> , 2022, 27, 101479.	4.3	2
7	Synergistic effects of gelatin and nanotopographical patterns on biomedical PCL patches for enhanced mechanical and adhesion properties. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 114, 104167.	3.1	15
8	Enhanced air stability of superhydrophobic surfaces with flexible overhangs of re-entrant structures. <i>Physics of Fluids</i> , 2021, 33, .	4.0	16
9	Applications of Bioinspired Reversible Dry and Wet Adhesives: A Review. <i>Frontiers in Mechanical Engineering</i> , 2021, 7, .	1.8	11
10	Porous spongy FeCo _{1-x} P nanostructure and MXene infused self-powered flexible textile based personal thermoregulatory device. <i>Nano Energy</i> , 2021, 86, 106042.	16.0	18
11	Enhanced Thermal Transport across Self-Interfacial van der Waals Contacts in Flexible Thermal Devices. <i>Advanced Functional Materials</i> , 2021, 31, 2107023.	14.9	23
12	Biofouling-resistant tubular fluidic devices with magneto-responsive dynamic walls. <i>Soft Matter</i> , 2021, 17, 1715-1723.	2.7	6
13	Enhanced Directional Adhesion Behavior of Mushroom-Shaped Microline Arrays. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2020, 7, 239-245.	4.9	8
14	A Tough Polysaccharide-Based Hydrogel with an On-Demand Dissolution Feature for Chronic Wound Care through Light-Induced Ultrafast Degradation. <i>ACS Applied Bio Materials</i> , 2020, 3, 8338-8343.	4.6	5
15	Multifunctional Smart Ball Sensor for Wireless Structural Health Monitoring in a Fire Situation. <i>Sensors</i> , 2020, 20, 4328.	3.8	0
16	A Pressure-Insensitive Self-Attachable Flexible Strain Sensor with Bioinspired Adhesive and Active CNT Layers. <i>Sensors</i> , 2020, 20, 6965.	3.8	14
17	Low-Resistant Electrical and Robust Mechanical Contacts of Self-Attachable Flexible Transparent Electrodes with Patternable Circuits. <i>Advanced Functional Materials</i> , 2020, 30, 2000458.	14.9	28
18	Bioinspired, High-Sensitivity Mechanical Sensors Realized with Hexagonal Microcolumnar Arrays Coated with Ultrasonic-Sprayed Single-Walled Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 18813-18822.	8.0	29

#	ARTICLE	IF	CITATIONS
19	Anti-Icing Technology based on Drop Bouncing Dynamics for the Prevention of Freezing of Electric Power Equipment. <i>Journal of the Korean Society for Precision Engineering</i> , 2020, 37, 917-928.	0.2	0
20	Wearable Devices: Ultra-Adaptable and Wearable Photonic Skin Based on a Shape-Memory, Responsive Cellulose Derivative (<i>Adv. Funct. Mater.</i> 34/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970237.	14.9	0
21	Cellulose acetate nanoneedle array covered with phosphorylcholine moiety as a biocompatible and sustainable antifouling material. <i>Cellulose</i> , 2019, 26, 8775-8788.	4.9	15
22	Snake fang-inspired stamping patch for transdermal delivery of liquid formulations. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	95
23	Graphene-Layered Eggshell Membrane as a Flexible and Functional Scaffold for Enhanced Proliferation and Differentiation of Stem Cells. <i>ACS Applied Bio Materials</i> , 2019, 2, 4242-4248.	4.6	18
24	Hydrogel Nanospine Patch as a Flexible Anti-Pathogenic Scaffold for Regulating Stem Cell Behavior. <i>ACS Nano</i> , 2019, 13, 11181-11193.	14.6	56
25	Shear-pressure multimodal sensor based on flexible cylindrical pillar array and flat structured carbon nanocomposites with simple fabrication process. <i>Composites Science and Technology</i> , 2019, 184, 107841.	7.8	10
26	Ultra-Adaptable and Wearable Photonic Skin Based on a Shape-Memory, Responsive Cellulose Derivative. <i>Advanced Functional Materials</i> , 2019, 29, 1902720.	14.9	89
27	Highly flexible and self-adaptive dry adhesive end-effectors for precision robotics. <i>Soft Matter</i> , 2019, 15, 5827-5834.	2.7	9
28	Fabrication of the piezoresistive sensor using the continuous laser-induced nanostructure growth for structural health monitoring. <i>Carbon</i> , 2019, 152, 376-387.	10.3	16
29	Significant Adhesion Enhancement of Bioinspired Dry Adhesives by Simple Thermal Treatment. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2019, 6, 587-599.	4.9	6
30	Strong and Reversible Adhesion of Interlocked 3D-Microarchitectures. <i>Coatings</i> , 2019, 9, 48.	2.6	8
31	Undulatory topographical waves for flow-induced foulant sweeping. <i>Science Advances</i> , 2019, 5, eaax8935.	10.3	17
32	Lipid-Hydrogel-Nanostructure Hybrids as Robust Biofilm-Resistant Polymeric Materials. <i>ACS Macro Letters</i> , 2019, 8, 64-69.	4.8	39
33	Wet-Responsive, Reconfigurable, and Biocompatible Hydrogel Adhesive Films for Transfer Printing of Nanomembranes. <i>Advanced Functional Materials</i> , 2018, 28, 1706498.	14.9	84
34	Stimuli-Responsive Materials: Wet-Responsive, Reconfigurable, and Biocompatible Hydrogel Adhesive Films for Transfer Printing of Nanomembranes (<i>Adv. Funct. Mater.</i> 18/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870117.	14.9	1
35	Bioinspired reversible hydrogel adhesives for wet and underwater surfaces. <i>Journal of Materials Chemistry B</i> , 2018, 6, 8064-8070.	5.8	81
36	Hybrid Architectures of Heterogeneous Carbon Nanotube Composite Microstructures Enable Multiaxial Strain Perception with High Sensitivity and Ultrabroad Sensing Range. <i>Small</i> , 2018, 14, e1803411.	10.0	51

#	ARTICLE	IF	CITATIONS
37	Continuous Tip Widening Technique for Roll-to-Roll Fabrication of Dry Adhesives. <i>Coatings</i> , 2018, 8, 349.	2.6	10
38	Electronic Skins: Hybrid Architectures of Heterogeneous Carbon Nanotube Composite Microstructures Enable Multiaxial Strain Perception with High Sensitivity and Ultrabroad Sensing Range (<i>Small</i> 52/2018). <i>Small</i> , 2018, 14, 1870253.	10.0	0
39	Woven Kevlar Fiber/Polydimethylsiloxane/Reduced Graphene Oxide Composite-Based Personal Thermal Management with Freestanding Cu@Ni Core@Shell Nanowires. <i>Nano Letters</i> , 2018, 18, 6731-6739.	9.1	104
40	Tunable Multimodal Drop Bouncing Dynamics and Anti-Icing Performance of a Magnetically Responsive Hair Array. <i>ACS Nano</i> , 2018, 12, 10693-10702.	14.6	86
41	Multifunctional Smart Skin Adhesive Patches for Advanced Health Care. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800275.	7.6	139
42	Lithographic Fabrication of Polymer Structures for MEMS Tribology. , 2018, , 529-544.		0
43	Adhesion of bioinspired nanocomposite microstructure at high temperatures. <i>Applied Surface Science</i> , 2017, 413, 275-283.	6.1	20
44	Partially Cured Photopolymer with Gradient Bingham Plastic Behaviors as a Versatile Deformable Material. <i>ACS Macro Letters</i> , 2017, 6, 561-565.	4.8	10
45	Scalable fabrication of flexible transparent heaters comprising continuously created metallic micromesh patterns incorporated with biomimetic anti-reflection layers. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2017, 4, 177-181.	4.9	20
46	A miniaturized wall-climbing segment robot inspired by caterpillar locomotion. <i>Bioinspiration and Biomimetics</i> , 2017, 12, 046003.	2.9	26
47	Artificial Slanted Nanocilia Array as a Mechanotransducer for Controlling Cell Polarity. <i>ACS Nano</i> , 2017, 11, 730-741.	14.6	22
48	A micropatterned elastomeric surface with enhanced frictional properties under wet conditions and its application. <i>Soft Matter</i> , 2017, 13, 8419-8425.	2.7	16
49	Fabrication of bioinspired dry adhesives by CNC machining and replica molding. <i>International Journal of Precision Engineering and Manufacturing</i> , 2017, 18, 1239-1244.	2.2	11
50	Wall and ceiling climbing quadruped robot with superior water repellency manufactured using 3D printing (UNiClimb). <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2017, 4, 273-280.	4.9	50
51	Flexible and Shape-Reconfigurable Hydrogel Interlocking Adhesives for High Adhesion in Wet Environments Based on Anisotropic Swelling of Hydrogel Microstructures. <i>ACS Macro Letters</i> , 2017, 6, 1325-1330.	4.8	37
52	Simple and Reliable Fabrication of Bioinspired Mushroom-Shaped Micropillars with Precisely Controlled Tip Geometries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 22671-22678.	8.0	44
53	Remote Manipulation of Droplets on a Flexible Magnetically Responsive Film. <i>Scientific Reports</i> , 2015, 5, 17843.	3.3	75
54	Extreme hydrophobicity and omniphilicity of high-aspect-ratio silicon structures. <i>Modern Physics Letters B</i> , 2015, 29, 1540009.	1.9	2

#	ARTICLE	IF	CITATIONS
55	Highly durable and unidirectionally stooped polymeric nanohairs for gecko-like dry adhesive. <i>Nanotechnology</i> , 2015, 26, 415301.	2.6	13
56	Guided extracellular matrix formation from fibroblast cells cultured on bio-inspired configurable multiscale substrata. <i>Data in Brief</i> , 2015, 5, 203-207.	1.0	4
57	Bio-inspired configurable multiscale extracellular matrix-like structures for functional alignment and guided orientation of cells. <i>Biomaterials</i> , 2015, 69, 158-164.	11.4	47
58	Bio-inspired adhesive systems for next-generation green manufacturing. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2014, 1, 347-351.	4.9	34
59	25th Anniversary Article: Scalable Multiscale Patterned Structures Inspired by Nature: the Role of Hierarchy. <i>Advanced Materials</i> , 2014, 26, 675-700.	21.0	212
60	Continuous and Scalable Fabrication of Bioinspired Dry Adhesives via a Roll-to-Roll Process with Modulated Ultraviolet-Curable Resin. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 14590-14599.	8.0	51
61	Multiscale patterned transplantable stem cell patches for bone tissue regeneration. <i>Biomaterials</i> , 2014, 35, 9058-9067.	11.4	77
62	Fabrication and analysis of enforced dry adhesives with core-shell micropillars. <i>Soft Matter</i> , 2013, 9, 1422-1427.	2.7	37
63	Bacterial Recognition of Silicon Nanowire Arrays. <i>Nano Letters</i> , 2013, 13, 2864-2869.	9.1	92
64	Nano meets beetles from wing to tiptoe: Versatile tools for smart and reversible adhesions. <i>Nano Today</i> , 2012, 7, 496-513.	11.9	51
65	Precise tip shape transformation of nanopillars for enhanced dry adhesion strength. <i>Soft Matter</i> , 2012, 8, 5375.	2.7	27
66	Anisotropic Adhesion Properties of Triangular-Tip-Shaped Micropillars. <i>Small</i> , 2011, 7, 2296-2300.	10.0	71
67	Adhesive Microstructures: Anisotropic Adhesion Properties of Triangular-Tip-Shaped Micropillars (Small 16/2011). <i>Small</i> , 2011, 7, 2266-2266.	10.0	5
68	Effect of leaning angle of gecko-inspired slanted polymer nanohairs on dry adhesion. <i>Applied Physics Letters</i> , 2010, 96, 043704.	3.3	50
69	Stretchable, Adhesion-Tunable Dry Adhesive by Surface Wrinkling. <i>Langmuir</i> , 2010, 26, 2223-2226.	3.5	138
70	A nontransferring dry adhesive with hierarchical polymer nanohairs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5639-5644.	7.1	479
71	Stooped Nanohairs: Geometry-Controllable, Unidirectional, Reversible, and Robust Gecko-like Dry Adhesive. <i>Advanced Materials</i> , 2009, 21, 2276-2281.	21.0	159
72	Nanohairs and nanotubes: Efficient structural elements for gecko-inspired artificial dry adhesives. <i>Nano Today</i> , 2009, 4, 335-346.	11.9	175

#	ARTICLE	IF	CITATIONS
73	Adhesion hysteresis of Janus nanopillars fabricated by nanomolding and oblique metal deposition. <i>Nano Today</i> , 2009, 4, 385-392.	11.9	80
74	Wettability of nanoengineered dual-roughness surfaces fabricated by UV-assisted capillary force lithography. <i>Journal of Colloid and Interface Science</i> , 2009, 339, 202-207.	9.4	105
75	UV-assisted capillary force lithography for engineering biomimetic multiscale hierarchical structures: From lotus leaf to gecko foot hairs. <i>Nanoscale</i> , 2009, 1, 331.	5.6	74
76	Generation and Self-Replication of Monolithic, Dual-Scale Polymer Structures by Two-Step Capillary-Force Lithography. <i>Small</i> , 2008, 4, 1913-1918.	10.0	71
77	High aspect-ratio polymer nanostructures by tailored capillarity and adhesive force. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 313-314, 359-364.	4.7	43
78	On the role of oxygen in fabricating microfluidic channels with ultraviolet curable materials. <i>Lab on A Chip</i> , 2008, 8, 1787.	6.0	34
79	Enhanced tribological properties of lotus leaf-like surfaces fabricated by capillary force lithography. <i>Surface Engineering</i> , 2007, 23, 161-164.	2.2	29
80	Replication of surfaces of natural leaves for enhanced micro-scale tribological property. <i>Materials Science and Engineering C</i> , 2007, 27, 875-879.	7.3	68
81	Capillary Kinetics of Water in Homogeneous, Hydrophilic Polymeric Micro- to Nanochannels. <i>Small</i> , 2007, 3, 778-782.	10.0	29
82	A biomimetic approach for effective reduction in micro-scale friction by direct replication of topography of natural water-repellent surfaces. <i>Journal of Mechanical Science and Technology</i> , 2007, 21, 624-629.	1.5	10
83	Supported lipid bilayers microarrays onto a surface and inside microfluidic channels. , 2006, , .		0
84	Fabrication of non-biofouling polyethylene glycol micro- and nanochannels by ultraviolet-assisted irreversible sealing. <i>Lab on A Chip</i> , 2006, 6, 1432.	6.0	103
85	Stretched Polymer Nanohairs by Nanodrawing. <i>Nano Letters</i> , 2006, 6, 1508-1513.	9.1	122
86	Nanoengineered Multiscale Hierarchical Structures with Tailored Wetting Properties. <i>Langmuir</i> , 2006, 22, 1640-1645.	3.5	160
87	Fabrication of high aspect ratio nanostructures using capillary force lithography. <i>Korean Journal of Chemical Engineering</i> , 2006, 23, 678-682.	2.7	13
88	Measurement of Viscosity of Confined Polymer Melt Using Capillary Kinetics. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2006, 10, 263-274.	2.6	4
89	Stretched Polymer Nanohairs by Tailored Capillarity and Adhesive Force. <i>Materials Research Society Symposia Proceedings</i> , 2006, 948, 1.	0.1	0
90	On the thickness uniformity of micropatterns of hyaluronic acid in a soft lithographic molding method. <i>Journal of Applied Physics</i> , 2005, 97, 114701.	2.5	7