

Tae-Youl Ha

List of Publications by Citations

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103
papers

6,396
citations

45
h-index

79
g-index

105
ext. papers

7,686
ext. citations

10.8
avg, IF

5.9
L-index

#	Paper	IF	Citations
103	Soft, stretchable, fully implantable miniaturized optoelectronic systems for wireless optogenetics. <i>Nature Biotechnology</i> , 2015 , 33, 1280-1286	44.5	510
102	Highly Stretchable and Sensitive Strain Sensors Using Fragmentized Graphene Foam. <i>Advanced Functional Materials</i> , 2015 , 25, 4228-4236	15.6	442
101	Stretchable Array of Highly Sensitive Pressure Sensors Consisting of Polyaniline Nanofibers and Au-Coated Polydimethylsiloxane Micropillars. <i>ACS Nano</i> , 2015 , 9, 9974-85	16.7	272
100	Stretchable Active Matrix Temperature Sensor Array of Polyaniline Nanofibers for Electronic Skin. <i>Advanced Materials</i> , 2016 , 28, 930-5	24	264
99	Flexible Near-Field Wireless Optoelectronics as Subdermal Implants for Broad Applications in Optogenetics. <i>Neuron</i> , 2017 , 93, 509-521.e3	13.9	225
98	Fabrication of a stretchable solid-state micro-supercapacitor array. <i>ACS Nano</i> , 2013 , 7, 7975-82	16.7	220
97	Skin-Attachable, Stretchable Electrochemical Sweat Sensor for Glucose and pH Detection. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13729-13740	9.5	205
96	Curvilinear electronics formed using silicon membrane circuits and elastomeric transfer elements. <i>Small</i> , 2009 , 5, 2703-9	11	186
95	Metal Atom-Doped Co O Hierarchical Nanoplates for Electrocatalytic Oxygen Evolution. <i>Advanced Materials</i> , 2020 , 32, e2002235	24	151
94	Fully Biodegradable Microsupercapacitor for Power Storage in Transient Electronics. <i>Advanced Energy Materials</i> , 2017 , 7, 1700157	21.8	145
93	A skin-attachable, stretchable integrated system based on liquid GaInSn for wireless human motion monitoring with multi-site sensing capabilities. <i>NPG Asia Materials</i> , 2017 , 9, e443-e443	10.3	145
92	Microporous Polypyrrole-Coated Graphene Foam for High-Performance Multifunctional Sensors and Flexible Supercapacitors. <i>Advanced Functional Materials</i> , 2018 , 28, 1707013	15.6	141
91	Stretchable patterned graphene gas sensor driven by integrated micro-supercapacitor array. <i>Nano Energy</i> , 2016 , 19, 401-414	17.1	137
90	All-solid-state flexible micro-supercapacitor arrays with patterned graphene/MWNT electrodes. <i>Carbon</i> , 2014 , 79, 156-164	10.4	117
89	Fabrication of a stretchable and patchable array of high performance micro-supercapacitors using a non-aqueous solvent based gel electrolyte. <i>Energy and Environmental Science</i> , 2015 , 8, 1764-1774	35.4	115
88	Biaxially stretchable, integrated array of high performance microsupercapacitors. <i>ACS Nano</i> , 2014 , 8, 11639-50	16.7	114
87	A skin-integrated transparent and stretchable strain sensor with interactive color-changing electrochromic displays. <i>Nanoscale</i> , 2017 , 9, 7631-7640	7.7	113

86	Fabrication of High-Sensitivity Skin-Attachable Temperature Sensors with Bioinspired Microstructured Adhesive. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 7263-7270	9.5	111
85	Body-Attachable and Stretchable Multisensors Integrated with Wirelessly Rechargeable Energy Storage Devices. <i>Advanced Materials</i> , 2016 , 28, 748-56	24	102
84	Stretchable array of high-performance micro-supercapacitors charged with solar cells for wireless powering of an integrated strain sensor. <i>Nano Energy</i> , 2018 , 49, 644-654	17.1	102
83	Encapsulated, High-Performance, Stretchable Array of Stacked Planar Micro-Supercapacitors as Waterproof Wearable Energy Storage Devices. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16016-25	9.5	87
82	A Patterned Graphene/ZnO UV Sensor Driven by Integrated Asymmetric Micro-Supercapacitors on a Liquid Metal Patterned Foldable Paper. <i>Advanced Functional Materials</i> , 2017 , 27, 1700135	15.6	85
81	Flexible/Stretchable Supercapacitors with Novel Functionality for Wearable Electronics. <i>Advanced Materials</i> , 2020 , 32, e2002180	24	85
80	Micromechanics and advanced designs for curved photodetector arrays in hemispherical electronic-eye cameras. <i>Small</i> , 2010 , 6, 851-6	11	84
79	Super-Absorbent Polymer Valves and Colorimetric Chemistries for Time-Sequenced Discrete Sampling and Chloride Analysis of Sweat via Skin-Mounted Soft Microfluidics. <i>Small</i> , 2018 , 14, e1703334	11	81
78	High-density, stretchable, all-solid-state microsupercapacitor arrays. <i>ACS Nano</i> , 2014 , 8, 8844-55	16.7	79
77	Fully implantable, battery-free wireless optoelectronic devices for spinal optogenetics. <i>Pain</i> , 2017 , 158, 2108-2116	8	76
76	Design and fabrication of novel stretchable device arrays on a deformable polymer substrate with embedded liquid-metal interconnections. <i>Advanced Materials</i> , 2014 , 26, 6580-6	24	75
75	Highly Conductive, Stretchable, and Transparent PEDOT:PSS Electrodes Fabricated with Triblock Copolymer Additives and Acid Treatment. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 28027-28035	9.5	72
74	Fabrication of high performance flexible micro-supercapacitor arrays with hybrid electrodes of MWNT/V2O5 nanowires integrated with a SnO2 nanowire UV sensor. <i>Nanoscale</i> , 2014 , 6, 12034-41	7.7	72
73	High-performance all-solid-state flexible micro-supercapacitor arrays with layer-by-layer assembled MWNT/MnO(x) nanocomposite electrodes. <i>Nanoscale</i> , 2014 , 6, 9655-64	7.7	70
72	Air-stable, high-performance, flexible microsupercapacitor with patterned ionogel electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 4608-15	9.5	69
71	Controlled Ordering of Block Copolymer Thin Films by the Addition of Hydrophilic Nanoparticles. <i>Macromolecules</i> , 2007 , 40, 8119-8124	5.5	68
70	Controllable Formation of Nanofilaments in Resistive Memories via Tip-Enhanced Electric Fields. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600233	6.4	68
69	Dynamically Stretchable Supercapacitor for Powering an Integrated Biosensor in an All-in-One Textile System. <i>ACS Nano</i> , 2019 , 13, 10469-10480	16.7	66

68	Stretchable field-effect-transistor array of suspended SnO ₂ nanowires. <i>Small</i> , 2011 , 7, 1181-5	11	64
67	Fabrication of flexible micro-supercapacitor array with patterned graphene foam/MWNT-COOH/MnO electrodes and its application. <i>Carbon</i> , 2015 , 81, 29-37	10.4	63
66	Polyurethane foam coated with a multi-walled carbon nanotube/polyaniline nanocomposite for a skin-like stretchable array of multi-functional sensors. <i>NPG Asia Materials</i> , 2017 , 9, e448-e448	10.3	62
65	Stretchable Loudspeaker using Liquid Metal Microchannel. <i>Scientific Reports</i> , 2015 , 5, 11695	4.9	59
64	Skin-Like, Dynamically Stretchable, Planar Supercapacitors with Buckled Carbon Nanotube/Mn-Mo Mixed Oxide Electrodes and Air-Stable Organic Electrolyte. <i>ACS Nano</i> , 2019 , 13, 855-866	16.7	55
63	Ice-templated Self-assembly of VOPO ₄ -Graphene Nanocomposites for Vertically Porous 3D Supercapacitor Electrodes. <i>Scientific Reports</i> , 2015 , 5, 13696	4.9	53
62	Stretchable, Skin-Attachable Electronics with Integrated Energy Storage Devices for Biosignal Monitoring. <i>Accounts of Chemical Research</i> , 2019 , 52, 91-99	24.3	53
61	Paper-Like, Thin, Foldable, and Self-Healable Electronics Based on PVA/CNC Nanocomposite Film. <i>Advanced Functional Materials</i> , 2019 , 29, 1905968	15.6	52
60	Paraboloid electronic eye cameras using deformable arrays of photodetectors in hexagonal mesh layouts. <i>Applied Physics Letters</i> , 2010 , 96, 021110	3.4	47
59	Facile fabrication of a fully biodegradable and stretchable serpentine-shaped wire supercapacitor. <i>Chemical Engineering Journal</i> , 2019 , 366, 62-71	14.7	45
58	Flexible, water-proof, wire-type supercapacitors integrated with wire-type UV/NO ₂ sensors on textiles. <i>Nano Energy</i> , 2017 , 35, 199-206	17.1	41
57	Photoconductance of aligned SnO ₂ nanowire field effect transistors. <i>Applied Physics Letters</i> , 2009 , 95, 043107	3.4	40
56	High performance wire-type supercapacitor with Ppy/CNT-ionic liquid/AuNP/carbon fiber electrode and ionic liquid based electrolyte. <i>Carbon</i> , 2019 , 144, 639-648	10.4	40
55	White-Light Emitting Diode Array of p+-Si/Aligned n-SnO ₂ Nanowires Heterojunctions. <i>Advanced Functional Materials</i> , 2011 , 21, 119-124	15.6	37
54	Hypocholesterolemic and antioxidant properties of 3-(4-hydroxyl)propanoic acid derivatives in high-cholesterol fed rats. <i>Chemico-Biological Interactions</i> , 2007 , 170, 9-19	5	37
53	High performance flexible double-sided micro-supercapacitors with an organic gel electrolyte containing a redox-active additive. <i>Nanoscale</i> , 2016 , 8, 15611-20	7.7	34
52	High performance stretchable UV sensor arrays of SnO ₂ nanowires. <i>Nanotechnology</i> , 2013 , 24, 315502	3.4	33
51	Time dependent evolution of vanadium pentoxide nanowires in sols. <i>Chemical Physics Letters</i> , 2004 , 390, 199-202	2.5	32

50	A Fractal-designed stretchable and transparent microsupercapacitor as a Skin-attachable energy storage device. <i>Chemical Engineering Journal</i> , 2020 , 387, 124076	14.7	32
49	Size-controlled synthesis of Pt nanoparticles and their electrochemical activities toward oxygen reduction. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 706-712	6.7	30
48	Sol-gel synthesis of sub-50 nm ZnO nanowires on pulse laser deposited ZnO thin films. <i>Applied Surface Science</i> , 2006 , 253, 1758-1761	6.7	30
47	Low power stretchable active-matrix red, green, blue (RGB) electrochromic device array of poly(3-methylthiophene)/Prussian blue. <i>Applied Surface Science</i> , 2019 , 471, 300-308	6.7	28
46	A Shape Memory High-Voltage Supercapacitor with Asymmetric Organic Electrolytes for Driving an Integrated NO ₂ Gas Sensor. <i>Advanced Functional Materials</i> , 2019 , 29, 1901996	15.6	27
45	Highly Durable and Flexible Transparent Electrode for Flexible Optoelectronic Applications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 30706-30715	9.5	27
44	High-Sensitivity, Skin-Attachable, and Stretchable Array of Thermo-Responsive Suspended Gate Field-Effect Transistors with Thermochromic Display. <i>Advanced Functional Materials</i> , 2019 , 29, 1807679	15.6	27
43	Wire-Shaped Supercapacitors with Organic Electrolytes Fabricated via Layer-by-Layer Assembly. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 26248-26257	9.5	25
42	A highly conductive and electromechanically self-healable gold nanosheet electrode for stretchable electronics. <i>Chemical Engineering Journal</i> , 2020 , 384, 123336	14.7	21
41	Effects of stabilizers on the synthesis of Pt ₃ Cox/C electrocatalysts for oxygen reduction. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 12088-12095	6.7	20
40	High-performance titanium dioxide photocatalyst on ordered mesoporous carbon support. <i>Chemical Physics Letters</i> , 2008 , 456, 198-201	2.5	20
39	A rationally designed flexible self-healing system with a high performance supercapacitor for powering an integrated multifunctional sensor. <i>Applied Surface Science</i> , 2020 , 515, 146018	6.7	17
38	Fabrication of nanowire channels with unidirectional alignment and controlled length by a simple, gas-blowing-assisted, selective-transfer-printing technique. <i>Small</i> , 2009 , 5, 727-34	11	16
37	Scanning tunneling microscopy investigation of the surface structures of natural MoS ₂ . <i>Surface Science</i> , 1994 , 315, 62-68	1.8	16
36	Replacement of adsorbed alkanethiolate on Au with carboxyl-terminated thiol in solution: effect of alkyl chain length. <i>Applied Surface Science</i> , 2005 , 249, 7-11	6.7	14
35	High performance flexible micro-supercapacitor for powering a vertically integrated skin-attachable strain sensor on a bio-inspired adhesive. <i>Nano Energy</i> , 2021 , 83, 105837	17.1	14
34	Facile Fabrication of SWCNT/SnO ₂ Nanowire Heterojunction Devices on Flexible Polyimide Substrate. <i>Advanced Functional Materials</i> , 2011 , 21, 4159-4165	15.6	13
33	Adsorption behavior of binary mixed alkanethiol molecules on Au: Scanning tunneling microscope and linear-scan voltammetry investigation. <i>Applied Surface Science</i> , 2006 , 252, 4951-4956	6.7	13

32	A Flexible Loudspeaker Using the Movement of Liquid Metal Induced by Electrochemically Controlled Interfacial Tension. <i>Small</i> , 2019 , 15, e1905263	11	12
31	High yield production of semiconducting p-type single-walled carbon nanotube thin-film transistors on a flexible polyimide substrate by tuning the density of ferritin catalyts. <i>Carbon</i> , 2011 , 49, 2492-2498	10.4	11
30	Effect of humidity and thermal curing of polymer gate dielectrics on the electrical hysteresis of SnO ₂ nanowire field effect transistors. <i>Applied Physics Letters</i> , 2011 , 98, 102906	3.4	11
29	Highly ordered nanoporous thin films by blending of PSt-b-PMMA block copolymers and PEO additives as structure directing agents. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 8041-8048	2.5	10
28	Fabrication of stretchable single-walled carbon nanotube logic devices. <i>Small</i> , 2014 , 10, 2910-7	11	9
27	Uniform Ag Thin Film Growth on an Sb-terminated Si(111) Surface. <i>ETRI Journal</i> , 1997 , 19, 71-81	1.4	9
26	Self-healing strain-responsive electrochromic display based on a multiple crosslinked network hydrogel. <i>Chemical Engineering Journal</i> , 2021 , 430, 132685	14.7	9
25	A Textile-Based Temperature-Tolerant Stretchable Supercapacitor for Wearable Electronics. <i>Advanced Functional Materials</i> , 2106491	15.6	9
24	Highly sensitive pressure and temperature sensors fabricated with poly(3-hexylthiophene-2,5-diyl)-coated elastic carbon foam for bio-signal monitoring. <i>Chemical Engineering Journal</i> , 2021 , 423, 130197	14.7	9
23	Catalyst-free growth of readily detachable nanographene on alumina. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 6438	7.1	8
22	Fabrication of patterned flexible graphene devices via facile direct transfer of as-grown bi-layer graphene. <i>Applied Surface Science</i> , 2015 , 328, 235-240	6.7	8
21	Effect of Sb doping on the opto-electronic properties of SnO ₂ nanowires. <i>Thin Solid Films</i> , 2012 , 520, 6471-6475	2.2	8
20	Experimental and modeling studies of imaging with curvilinear electronic eye cameras. <i>Optics Express</i> , 2010 , 18, 27346-58	3.3	8
19	Synthesis and characterization of visible-light absorbing ordered mesoporous titanosilicate incorporated with vanadium oxide. <i>Chemical Physics Letters</i> , 2007 , 444, 161-166	2.5	8
18	Adsorption behaviors of V ₂ O ₅ nanowires on binary mixed self-assembled monolayers. <i>Applied Surface Science</i> , 2006 , 253, 1528-1533	6.7	8
17	Percolation network of growing V ₂ O ₅ nanowires. <i>Applied Physics Letters</i> , 2004 , 84, 5392-5394	3.4	8
16	Array of Single-Walled Carbon Nanotube Intrajunction Devices Fabricated via Type Conversion by Partial Coating with Nicotinamide Adenine Dinucleotide. <i>Advanced Functional Materials</i> , 2011 , 21, 2515-2521	15.6	7
15	Effect of gate dielectrics on the device performance of SnO ₂ nanowire field effect transistors. <i>Applied Physics Letters</i> , 2010 , 96, 102908	3.4	7

14	Stretchable, self-healable, and photodegradable supercapacitor based on a polyelectrolyte crosslinked via dynamic host-guest interaction. <i>Chemical Engineering Journal</i> , 2021 , 422, 130121	14.7	7
13	Stretchable array of CdSe/ZnS quantum-dot light emitting diodes for visual display of bio-signals. <i>Chemical Engineering Journal</i> , 2022 , 427, 130858	14.7	6
12	Electronic properties of light-emitting p-n hetero-junction array consisting of p+-Si and aligned n-ZnO nanowires. <i>Journal of Applied Physics</i> , 2013 , 113, 084310	2.5	5
11	Lateral force microscope and linear-scan voltammetry studies on the replacement of adsorbed thiolates on Au with thiols in solution. <i>Thin Solid Films</i> , 2005 , 479, 277-281	2.2	5
10	Nanometer scale selective etching of Si(111) surface using silicon nitride islands. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1998 , 16, 2806		5
9	Current generation of vertically aligned ZnO nanowires by photo-induced deformation of a matrix polymer. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 7191	7.1	4
8	A stretchable array of high-performance electrochromic devices for displaying skin-attached multi-sensor signals. <i>Chemical Engineering Journal</i> , 2022 , 429, 132289	14.7	4
7	Thickness and density controllable pattern transfer of DODAB/V2O5nanowire hybrid film. <i>Nanotechnology</i> , 2007 , 18, 405301	3.4	3
6	Green-Function Calculations of Coherent Electron Transport in a Gated Si Nanowire. <i>ETRI Journal</i> , 2000 , 22, 19-26	1.4	2
5	A 7.5-GHz uniplanar 180° hybrid coupler on flexible polyimide substrate. <i>Journal of Electromagnetic Waves and Applications</i> , 2017 , 31, 38-46	1.3	1
4	STM investigation of nano-structures fabricated on passivated Si surfaces. <i>Korean Journal of Chemical Engineering</i> , 2003 , 20, 169-173	2.8	1
3	The effects of ambient He pressure on the oxygen density of Er-doped SiOx thin films grown by laser ablation of a Si:Er2O3 target. <i>Applied Surface Science</i> , 2003 , 218, 311-317	6.7	1
2	All vanadium-based Li-ion hybrid supercapacitor with enhanced electrochemical performance via prelithiation. <i>Journal of Alloys and Compounds</i> , 2022 , 914, 165288	5.7	0
1	Initial Stage of Oxidation on Si(111)-7×7 Surface Investigated by Scanning Tunneling Microscope. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 404, 205		