

# Young-Geun Park

## List of Publications by Citations

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101  
papers

8,645  
citations

46  
h-index

92  
g-index

107  
ext. papers

9,954  
ext. citations

10.9  
avg, IF

6.13  
L-index

#	Paper	IF	Citations
101	High-resolution electrohydrodynamic jet printing. <i>Nature Materials</i> , <b>2007</b> , 6, 782-9	27	1011
100	Micro- and nanopatterning techniques for organic electronic and optoelectronic systems. <i>Chemical Reviews</i> , <b>2007</b> , 107, 1117-60	68.1	564
99	High-performance, transparent, and stretchable electrodes using graphene-metal nanowire hybrid structures. <i>Nano Letters</i> , <b>2013</b> , 13, 2814-21	11.5	552
98	Wearable smart sensor systems integrated on soft contact lenses for wireless ocular diagnostics. <i>Nature Communications</i> , <b>2017</b> , 8, 14997	17.4	455
97	Soft, smart contact lenses with integrations of wireless circuits, glucose sensors, and displays. <i>Science Advances</i> , <b>2018</b> , 4, eaap9841	14.3	321
96	Highly Stretchable 2D Fabrics for Wearable Triboelectric Nanogenerator under Harsh Environments. <i>ACS Nano</i> , <b>2015</b> , 9, 6394-400	16.7	262
95	Fabricating complex three-dimensional nanostructures with high-resolution conformable phase masks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 12428-33	11.5	247
94	Stretchable, Transparent Electrodes as Wearable Heaters Using Nanotrough Networks of Metallic Glasses with Superior Mechanical Properties and Thermal Stability. <i>Nano Letters</i> , <b>2016</b> , 16, 471-8	11.5	219
93	Synthesis of monolithic graphene-graphite integrated electronics. <i>Nature Materials</i> , <b>2011</b> , 11, 120-5	27	192
92	Transparent and flexible fingerprint sensor array with multiplexed detection of tactile pressure and skin temperature. <i>Nature Communications</i> , <b>2018</b> , 9, 2458	17.4	185
91	High-Resolution Printing of 3D Structures Using an Electrohydrodynamic Inkjet with Multiple Functional Inks. <i>Advanced Materials</i> , <b>2015</b> , 27, 4322-8	24	184
90	Stamp collapse in soft lithography. <i>Langmuir</i> , <b>2005</b> , 21, 8058-68	4	184
89	Nanoscale patterns of oligonucleotides formed by electrohydrodynamic jet printing with applications in biosensing and nanomaterials assembly. <i>Nano Letters</i> , <b>2008</b> , 8, 4210-6	11.5	165
88	Inorganic-organic hybrid materials for application in optical devices. <i>Thin Solid Films</i> , <b>2003</b> , 442, 194-200	2.2	158
87	Stretchable and transparent electrodes using hybrid structures of graphene-metal nanotrough networks with high performances and ultimate uniformity. <i>Nano Letters</i> , <b>2014</b> , 14, 6322-8	11.5	148
86	Highly transparent and stretchable field-effect transistor sensors using graphene-nanowire hybrid nanostructures. <i>Advanced Materials</i> , <b>2015</b> , 27, 3292-7	24	140
85	Wearable, wireless gas sensors using highly stretchable and transparent structures of nanowires and graphene. <i>Nanoscale</i> , <b>2016</b> , 8, 10591-7	7.7	135

84	Integrated arrays of air-dielectric graphene transistors as transparent active-matrix pressure sensors for wide pressure ranges. <i>Nature Communications</i> , <b>2017</b> , 8, 14950	17.4	129
83	High-resolution, reconfigurable printing of liquid metals with three-dimensional structures. <i>Science Advances</i> , <b>2019</b> , 5, eaaw2844	14.3	126
82	Rapid production of large-area, transparent and stretchable electrodes using metal nanofibers as wirelessly operated wearable heaters. <i>NPG Asia Materials</i> , <b>2017</b> , 9, e432-e432	10.3	123
81	Smart Sensor Systems for Wearable Electronic Devices. <i>Polymers</i> , <b>2017</b> , 9,	4.5	123
80	Air-stable, surface-oxide free Cu nanoparticles for highly conductive Cu ink and their application to printed graphene transistors. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 2704	7.1	117
79	Nanoscale, electrified liquid jets for high-resolution printing of charge. <i>Nano Letters</i> , <b>2010</b> , 10, 584-91	11.5	106
78	High-resolution electrohydrodynamic jet printing of small-molecule organic light-emitting diodes. <i>Nanoscale</i> , <b>2015</b> , 7, 13410-5	7.7	101
77	Scaling laws for jet pulsations associated with high-resolution electrohydrodynamic printing. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 123109	3.4	99
76	Collapse of stamps for soft lithography due to interfacial adhesion. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 154106	3.4	89
75	High Dielectric Performances of Flexible and Transparent Cellulose Hybrid Films Controlled by Multidimensional Metal Nanostructures. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700538	24	86
74	Direct printing of reduced graphene oxide on planar or highly curved surfaces with high resolutions using electrohydrodynamics. <i>Small</i> , <b>2015</b> , 11, 2263-8	11	76
73	Photo-patternable and transparent films using cellulose nanofibers for stretchable origami electronics. <i>NPG Asia Materials</i> , <b>2016</b> , 8, e299-e299	10.3	76
72	Stretchable and transparent electrodes based on in-plane structures. <i>Nanoscale</i> , <b>2015</b> , 7, 14577-94	7.7	75
71	In-situ synthesis of carbon nanotube-graphite electronic devices and their integrations onto surfaces of live plants and insects. <i>Nano Letters</i> , <b>2014</b> , 14, 2647-54	11.5	74
70	High-resolution electrohydrodynamic inkjet printing of stretchable metal oxide semiconductor transistors with high performance. <i>Nanoscale</i> , <b>2016</b> , 8, 17113-17121	7.7	73
69	In situ deposition and patterning of single-walled carbon nanotubes by laminar flow and controlled flocculation in microfluidic channels. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 581-5	16.4	73
68	Three-Dimensional, High-Resolution Printing of Carbon Nanotube/Liquid Metal Composites with Mechanical and Electrical Reinforcement. <i>Nano Letters</i> , <b>2019</b> , 19, 4866-4872	11.5	69
67	Recent Advances in Transparent Electronics with Stretchable Forms. <i>Advanced Materials</i> , <b>2019</b> , 31, e1804690	11.5	68

66	Metal salt-derived InGaZnO semiconductors incorporating formamide as a novel co-solvent for producing solution-processed, electrohydrodynamic-jet printed, high performance oxide transistors. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 4236	7.1	67
65	Printing of wirelessly rechargeable solid-state supercapacitors for soft, smart contact lenses with continuous operations. <i>Science Advances</i> , <b>2019</b> , 5, eaay0764	14.3	67
64	Smart, soft contact lens for wireless immunosensing of cortisol. <i>Science Advances</i> , <b>2020</b> , 6, eabb2891	14.3	65
63	A high-performance, flexible and robust metal nanotrough-embedded transparent conducting film for wearable touch screen panels. <i>Nanoscale</i> , <b>2016</b> , 8, 3916-22	7.7	65
62	An Annulative Synthetic Strategy for Building Triphenylene Frameworks by Multiple C-H Bond Activations. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 5007-5011	16.4	54
61	Fully-integrated, bezel-less transistor arrays using reversibly foldable interconnects and stretchable origami substrates. <i>Nanoscale</i> , <b>2016</b> , 8, 9504-10	7.7	53
60	Biomimetic Chitin/Silk Hybrids: An Optically Transparent Structural Platform for Wearable Devices and Advanced Electronics. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705480	15.6	53
59	3D-printable, highly conductive hybrid composites employing chemically-reinforced, complex dimensional fillers and thermoplastic triblock copolymers. <i>Nanoscale</i> , <b>2017</b> , 9, 5072-5084	7.7	50
58	Recent Progress in Wireless Sensors for Wearable Electronics. <i>Sensors</i> , <b>2019</b> , 19,	3.8	49
57	Flexible Transparent Conductive Films with High Performance and Reliability Using Hybrid Structures of Continuous Metal Nanofiber Networks for Flexible Optoelectronics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 20299-20305	9.5	44
56	Newly Designed Cu/Cu <sub>10</sub> Sn <sub>3</sub> Core/Shell Nanoparticles for Liquid Phase-Photonic Sintered Copper Electrodes: Large-Area, Low-Cost Transparent Flexible Electronics. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 4714-4723	8.6	43
55	Mechanoluminescent, Air-Dielectric MoS Transistors as Active-Matrix Pressure Sensors for Wide Detection Ranges from Footsteps to Cellular Motions. <i>Nano Letters</i> , <b>2020</b> , 20, 66-74	11.5	41
54	Interactive Skin Display with Epidermal Stimuli Electrode. <i>Advanced Science</i> , <b>2019</b> , 6, 1802351	13.6	40
53	A soft and transparent contact lens for the wireless quantitative monitoring of intraocular pressure. <i>Nature Biomedical Engineering</i> , <b>2021</b> , 5, 772-782	19	38
52	Studies on the mechanical stretchability of transparent conductive film based on graphene-metal nanowire structures. <i>Nanoscale Research Letters</i> , <b>2015</b> , 10, 27	5	37
51	Flexible electronics based on one-dimensional and two-dimensional hybrid nanomaterials. <i>Information Materials</i> , <b>2020</b> , 2, 33-56	23.1	37
50	Human-Interactive, Active-Matrix Displays for Visualization of Tactile Pressures. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1900082	6.8	36
49	Direct diversification of unmasked quinazolin-4(3H)-ones through orthogonal reactivity modulation. <i>Chemical Communications</i> , <b>2017</b> , 53, 10394-10397	5.8	33

48	Recent Advances in Smart Contact Lenses. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 1900728	6.8	33
47	Platform for wireless pressure sensing with built-in battery and instant visualization. <i>Nano Energy</i> , <b>2019</b> , 62, 230-238	17.1	32
46	Highly efficient flexible optoelectronic devices using metal nanowire-conducting polymer composite transparent electrode. <i>Electronic Materials Letters</i> , <b>2015</b> , 11, 906-914	2.9	31
45	Intraocular Pressure Monitoring Following Islet Transplantation to the Anterior Chamber of the Eye. <i>Nano Letters</i> , <b>2020</b> , 20, 1517-1525	11.5	30
44	Integration of Transparent Supercapacitors and Electrodes Using Nanostructured Metallic Glass Films for Wirelessly Rechargeable, Skin Heat Patches. <i>Nano Letters</i> , <b>2020</b> , 20, 4872-4881	11.5	28
43	Alcohol gas sensors capable of wireless detection using In <sub>2</sub> O <sub>3</sub> /Pt nanoparticles and Ag nanowires. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 259, 825-832	8.5	28
42	Bioinspired Transparent Laminated Composite Film for Flexible Green Optoelectronics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 24161-24168	9.5	27
41	Stretchable electronic devices using graphene and its hybrid nanostructures. <i>FlatChem</i> , <b>2017</b> , 3, 71-91	5.1	26
40	Research on flexible display at Ulsan National Institute of Science and Technology. <i>Npj Flexible Electronics</i> , <b>2017</b> , 1,	10.7	26
39	Photoinduced low refractive index in a photosensitive organic/inorganic hybrid material. <i>Journal of Materials Chemistry</i> , <b>2003</b> , 13, 738-741		26
38	Seed-mediated synthesis of ultra-long copper nanowires and their application as transparent conducting electrodes. <i>Applied Surface Science</i> , <b>2017</b> , 422, 731-737	6.7	25
37	Liquid Metal-Based Soft Electronics for Wearable Healthcare. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2002280	10.1	24
36	Smart contact lens and transparent heat patch for remote monitoring and therapy of chronic ocular surface inflammation using mobiles. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	23
35	High-Resolution 3D Printing of Freeform, Transparent Displays in Ambient Air. <i>Advanced Science</i> , <b>2019</b> , 6, 1901603	13.6	22
34	Amorphous Oxide Semiconductor Transistors with Air Dielectrics for Transparent and Wearable Pressure Sensor Arrays. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 1900928	6.8	22
33	Untethered Soft Robotics with Fully Integrated Wireless Sensing and Actuating Systems for Somatosensory and Respiratory Functions. <i>Soft Robotics</i> , <b>2020</b> , 7, 564-573	9.2	21
32	In Situ Deposition and Patterning of Single-Walled Carbon Nanotubes by Laminar Flow and Controlled Flocculation in Microfluidic Channels. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 595-599	3.6	21
31	Graphene-Based Wireless Environmental Gas Sensor on PET Substrate. <i>IEEE Sensors Journal</i> , <b>2016</b> , 16, 5003-5009	4	20

30	Nanomaterial-based stretchable and transparent electrodes. <i>Journal of Information Display</i> , <b>2016</b> , 17, 131-141	4.1	19
29	Instantaneous and Repeatable Self-Healing of Fully Metallic Electrodes at Ambient Conditions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 41497-41505	9.5	19
28	Single-step photopatterning of diffraction. <i>Optics Express</i> , <b>2003</b> , 11, 1144-8	3.3	19
27	A Full-Visible-Spectrum Invisibility Cloak for Mesoscopic Metal Wires. <i>Nano Letters</i> , <b>2018</b> , 18, 3865-3872	11.5	18
26	Wireless phototherapeutic contact lenses and glasses with red light-emitting diodes. <i>Nano Research</i> , <b>2020</b> , 13, 1347-1353	10	17
25	Tin-doped indium oxide films for highly flexible transparent conducting electrodes. <i>Thin Solid Films</i> , <b>2016</b> , 615, 8-12	2.2	17
24	Multimodal Digital X-ray Scanners with Synchronous Mapping of Tactile Pressure Distributions using Perovskites. <i>Advanced Materials</i> , <b>2021</b> , 33, e2008539	24	16
23	Motion Detection Using Tactile Sensors Based on Pressure-Sensitive Transistor Arrays. <i>Sensors</i> , <b>2020</b> , 20,	3.8	15
22	In situ observations of gas phase dynamics during graphene growth using solid-state carbon sources. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 10446-52	3.6	15
21	An Annulative Synthetic Strategy for Building Triphenylene Frameworks by Multiple C≡C Bond Activations. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 5089-5093	3.6	14
20	Implantation of electronic visual prosthesis for blindness restoration. <i>Optical Materials Express</i> , <b>2019</b> , 9, 3878	2.6	13
19	Effect of organic modifiers on the thermo-optic characteristics of inorganic-organic hybrid material films. <i>Journal of Materials Research</i> , <b>2003</b> , 18, 1889-1894	2.5	12
18	High-Resolution 3D Printing for Electronics.. <i>Advanced Science</i> , <b>2022</b> , e2104623	13.6	12
17	Haze-free transparent electrodes using metal nanofibers with carbon shells for high-temperature stability. <i>Applied Surface Science</i> , <b>2019</b> , 483, 1101-1109	6.7	11
16	3D Heterogeneous Device Arrays for Multiplexed Sensing Platforms Using Transfer of Perovskites. <i>Advanced Materials</i> , <b>2021</b> , 33, e2101093	24	11
15	Multi-dimensional carbon nanofibers for supercapacitor electrodes. <i>Journal of Electroceramics</i> , <b>2017</b> , 38, 43-50	1.5	10
14	3D Electrodes for Bioelectronics. <i>Advanced Materials</i> , <b>2021</b> , 33, e2005805	24	10
13	Recent progress on wearable point-of-care devices for ocular systems. <i>Lab on A Chip</i> , <b>2021</b> , 21, 1269-1286	6.2	10

12	Smart Sensing Systems Using Wearable Optoelectronics. <i>Advanced Intelligent Systems</i> , <b>2020</b> , 2, 19001446		8
11	Recent Advances in Wearable Devices for Non-Invasive Sensing. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 1235	2.6	8
10	A high-performance transparent moisture barrier using surface-modified nanoclay composite for OLED encapsulation. <i>Progress in Organic Coatings</i> , <b>2018</b> , 118, 66-71	4.8	7
9	Smart Contact Lenses: Recent Advances in Smart Contact Lenses (Adv. Mater. Technol. 1/2020). <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 2070004	6.8	6
8	Photopatternable and refractive-index-tunable sol-gel-derived silica/titania nanohybrid materials. <i>Current Applied Physics</i> , <b>2013</b> , 13, 1732-1737	2.6	6
7	Transferable transparent electrodes of liquid metals for bifacial perovskite solar cells and heaters. <i>Nano Energy</i> , <b>2022</b> , 93, 106857	17.1	5
6	Self-Healable, Recyclable Anisotropic Conductive Films of Liquid Metal-Gelatin Hybrids for Soft Electronics. <i>Advanced Electronic Materials</i> , 2101034	6.4	3
5	Recent advances in electronic devices for monitoring and modulation of brain. <i>Nano Research</i> , <b>2021</b> , 14, 3070-3095	10	2
4	Engineered Unidirectional Scattering in Metal Wire Networks for Ultrahigh Glass-Like Transparency. <i>ACS Photonics</i> , <b>2018</b> , 5, 4270-4276	6.3	2
3	Photoinduced Low Refractive Index Patterning in a Photosensitive Hybrid Material. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 780, 371		1
2	P-134: Flexible Transparent Electrode Film with a Continuous Ag Nanofiber Network Embedded Structure for Flexible OLEDs. <i>Digest of Technical Papers SID International Symposium</i> , <b>2017</b> , 48, 1761-1764	0.5	
1	Monolithic graphene transistor biointerface. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2012</b> , 2012, 5678	0.9	