Young-Geun Park

List of Publications by Year
in descending order

103 papers	11,429 citations	30070 54 h-index	29157 104 g-index
107 all docs	107 docs citations	107 times ranked	12965 citing authors

#	Article	IF	Citations
1	Transferable transparent electrodes of liquid metals for bifacial perovskite solar cells and heaters. Nano Energy, 2022, 93, 106857.	16.0	24
2	Highâ€Resolution 3D Printing for Electronics. Advanced Science, 2022, 9, e2104623.	11.2	58
3	Detection of cracked teeth using a mechanoluminescence phosphor with a stretchable photodetector array. NPG Asia Materials, 2022, 14, .	7.9	11
4	Selfâ€Healable, Recyclable Anisotropic Conductive Films of Liquid Metalâ€Gelatin Hybrids for Soft Electronics. Advanced Electronic Materials, 2022, 8, .	5.1	16
5	Recent Advances in Wearable Devices for Non-Invasive Sensing. Applied Sciences (Switzerland), 2021, 11, 1235.	2.5	23
6	Liquid Metalâ€Based Soft Electronics for Wearable Healthcare. Advanced Healthcare Materials, 2021, 10, e2002280.	7.6	116
7	Smart contact lens and transparent heat patch for remote monitoring and therapy of chronic ocular surface inflammation using mobiles. Science Advances, 2021, 7, .	10.3	71
8	Recent advances in electronic devices for monitoring and modulation of brain. Nano Research, 2021, 14, 3070-3095.	10.4	18
9	A soft and transparent contact lens for the wireless quantitative monitoring of intraocular pressure. Nature Biomedical Engineering, 2021, 5, 772-782.	22.5	100
10	3D Electrodes for Bioelectronics. Advanced Materials, 2021, 33, e2005805.	21.0	35
11	3D Heterogeneous Device Arrays for Multiplexed Sensing Platforms Using Transfer of Perovskites. Advanced Materials, 2021, 33, e2101093.	21.0	33
12	Multimodal Digital Xâ€ray Scanners with Synchronous Mapping of Tactile Pressure Distributions using Perovskites. Advanced Materials, 2021, 33, e2008539.	21.0	36
13	Recent progress on wearable point-of-care devices for ocular systems. Lab on A Chip, 2021, 21, 1269-1286.	6.0	27
14	3D Electrodes for Bioelectronics (Adv. Mater. 47/2021). Advanced Materials, 2021, 33, 2170374.	21.0	2
15	Mechanoluminescent, Air-Dielectric MoS₂ Transistors as Active-Matrix Pressure Sensors for Wide Detection Ranges from Footsteps to Cellular Motions. Nano Letters, 2020, 20, 66-74.	9.1	80
16	Flexible electronics based on oneâ€dimensional and twoâ€dimensional hybrid nanomaterials. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 33-56.	17.3	81
17	Wireless phototherapeutic contact lenses and glasses with red light-emitting diodes. Nano Research, 2020, 13, 1347-1353.	10.4	28
18	Amorphous Oxide Semiconductor Transistors with Air Dielectrics for Transparent and Wearable Pressure Sensor Arrays. Advanced Materials Technologies, 2020, 5, 1900928.	5.8	42

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19	Intraocular Pressure Monitoring Following Islet Transplantation to the Anterior Chamber of the Eye. Nano Letters, 2020, 20, 1517-1525.	9.1	54
20	Recent Advances in Smart Contact Lenses. Advanced Materials Technologies, 2020, 5, 1900728.	5.8	67
21	Integration of Transparent Supercapacitors and Electrodes Using Nanostructured Metallic Glass Films for Wirelessly Rechargeable, Skin Heat Patches. Nano Letters, 2020, 20, 4872-4881.	9.1	56
22	Motion Detection Using Tactile Sensors Based on Pressure-Sensitive Transistor Arrays. Sensors, 2020, 20, 3624.	3.8	33
23	Smart, soft contact lens for wireless immunosensing of cortisol. Science Advances, 2020, 6, eabb2891.	10.3	154
24	Smart Contact Lenses: Recent Advances in Smart Contact Lenses (Adv. Mater. Technol. 1/2020). Advanced Materials Technologies, 2020, 5, 2070004.	5.8	10
25	Smart Sensing Systems Using Wearable Optoelectronics. Advanced Intelligent Systems, 2020, 2, 1900144.	6.1	19
26	Untethered Soft Robotics with Fully Integrated Wireless Sensing and Actuating Systems for Somatosensory and Respiratory Functions. Soft Robotics, 2020, 7, 564-573.	8.0	39
27	Recent Progress in Wireless Sensors for Wearable Electronics. Sensors, 2019, 19, 4353.	3.8	99
28	Instantaneous and Repeatable Self-Healing of Fully Metallic Electrodes at Ambient Conditions. ACS Applied Materials & Interfaces, 2019, 11, 41497-41505.	8.0	31
29	Highâ€Resolution 3D Printing of Freeform, Transparent Displays in Ambient Air. Advanced Science, 2019, 6, 1901603.	11.2	47
30	High-resolution, reconfigurable printing of liquid metals with three-dimensional structures. Science Advances, 2019, 5, eaaw2844.	10.3	215
31	Platform for wireless pressure sensing with built-in battery and instant visualization. Nano Energy, 2019, 62, 230-238.	16.0	43
32	Interactive Skin Display with Epidermal Stimuli Electrode. Advanced Science, 2019, 6, 1802351.	11.2	68
33	Haze-free transparent electrodes using metal nanofibers with carbon shells for high-temperature stability. Applied Surface Science, 2019, 483, 1101-1109.	6.1	17
34	Three-Dimensional, High-Resolution Printing of Carbon Nanotube/Liquid Metal Composites with Mechanical and Electrical Reinforcement. Nano Letters, 2019, 19, 4866-4872.	9.1	127
35	Humanâ€Interactive, Activeâ€Matrix Displays for Visualization of Tactile Pressures. Advanced Materials Technologies, 2019, 4, 1900082.	5.8	53
36	Printing of wirelessly rechargeable solid-state supercapacitors for soft, smart contact lenses with continuous operations. Science Advances, 2019, 5, eaay0764.	10.3	117

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37	Recent Advances in Transparent Electronics with Stretchable Forms. Advanced Materials, 2019, 31, e1804690.	21.0	114
38	Implantation of electronic visual prosthesis for blindness restoration. Optical Materials Express, 2019, 9, 3878.	3.0	32
39	Soft, smart contact lenses with integrations of wireless circuits, glucose sensors, and displays. Science Advances, 2018, 4, eaap9841.	10.3	465
40	Alcohol gas sensors capable of wireless detection using In2O3/Pt nanoparticles and Ag nanowires. Sensors and Actuators B: Chemical, 2018, 259, 825-832.	7.8	45
41	A high-performance transparent moisture barrier using surface-modified nanoclay composite for OLED encapsulation. Progress in Organic Coatings, 2018, 118, 66-71.	3.9	9
42	Biomimetic Chitinâ€“Silk Hybrids: An Optically Transparent Structural Platform for Wearable Devices and Advanced Electronics. Advanced Functional Materials, 2018, 28, 1705480.	14.9	74
43	Engineered Unidirectional Scattering in Metal Wire Networks for Ultrahigh Glass-Like Transparency. ACS Photonics, 2018, 5, 4270-4276.	6.6	5
44	A Full-Visible-Spectrum Invisibility Cloak for Mesoscopic Metal Wires. Nano Letters, 2018, 18, 3865-3872.	9.1	25
45	Transparent and flexible fingerprint sensor array with multiplexed detection of tactile pressure and skin temperature. Nature Communications, 2018, 9, 2458.	12.8	303
46	3D-printable, highly conductive hybrid composites employing chemically-reinforced, complex dimensional fillers and thermoplastic triblock copolymers. Nanoscale, 2017, 9, 5072-5084.	5.6	60
47	High Dielectric Performances of Flexible and Transparent Cellulose Hybrid Films Controlled by Multidimensional Metal Nanostructures. Advanced Materials, 2017, 29, 1700538.	21.0	106
48	Wearable smart sensor systems integrated on soft contact lenses for wireless ocular diagnostics. Nature Communications, 2017, 8, 14997.	12.8	633
49	Stretchable electronic devices using graphene and its hybrid nanostructures. FlatChem, 2017, 3, 71-91.	5.6	34
50	Pâ€134: Flexible Transparent Electrode Film with a Continuous Ag Nanofiber Network Embedded Structure for Flexible OLEDs. Digest of Technical Papers SID International Symposium, 2017, 48, 1761-1764.	0.3	0
51	Flexible Transparent Conductive Films with High Performance and Reliability Using Hybrid Structures of Continuous Metal Nanofiber Networks for Flexible Optoelectronics. ACS Applied Materials & Interfaces, 2017, 9, 20299-20305.	8.0	62
52	Seed-mediated synthesis of ultra-long copper nanowires and their application as transparent conducting electrodes. Applied Surface Science, 2017, 422, 731-737.	6.1	31
53	Integrated arrays of air-dielectric graphene transistors as transparent active-matrix pressure sensors for wide pressure ranges. Nature Communications, 2017, 8, 14950.	12.8	167
54	An Annulative Synthetic Strategy for Building Triphenylene Frameworks by Multiple Câ^'H Bond Activations. Angewandte Chemie, 2017, 129, 5089-5093.	2.0	14

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55	An Annulative Synthetic Strategy for Building Triphenylene Frameworks by Multiple Câ”H Bond Activations. Angewandte Chemie - International Edition, 2017, 56, 5007-5011.	13.8	61
56	Multi-dimensional carbon nanofibers for supercapacitor electrodes. Journal of Electroceramics, 2017, 38, 43-50.	2.0	13
57	Direct diversification of unmasked quinazolin-4(3H)-ones through orthogonal reactivity modulation. Chemical Communications, 2017, 53, 10394-10397.	4.1	51
58	Rapid production of large-area, transparent and stretchable electrodes using metal nanofibers as wirelessly operated wearable heaters. NPG Asia Materials, 2017, 9, e432-e432.	7.9	151
59	Research on flexible display at Ulsan National Institute of Science and Technology. Npj Flexible Electronics, 2017, 1, .	10.7	59
60	Bioinspired Transparent Laminated Composite Film for Flexible Green Optoelectronics. ACS Applied Materials & Interfaces, 2017, 9, 24161-24168.	8.0	42
61	Smart Sensor Systems for Wearable Electronic Devices. Polymers, 2017, 9, 303.	4.5	185
62	Tin-doped indium oxide films for highly flexible transparent conducting electrodes. Thin Solid Films, 2016, 615, 8-12.	1.8	25
63	Fully-integrated, bezel-less transistor arrays using reversibly foldable interconnects and stretchable origami substrates. Nanoscale, 2016, 8, 9504-9510.	5.6	65
64	Wearable, wireless gas sensors using highly stretchable and transparent structures of nanowires and graphene. Nanoscale, 2016, 8, 10591-10597.	5.6	156
65	Photo-patternable and transparent films using cellulose nanofibers for stretchable origami electronics. NPG Asia Materials, 2016, 8, e299-e299.	7.9	83
66	Nanomaterial-based stretchable and transparent electrodes. Journal of Information Display, 2016, 17, 131-141.	4.0	33
67	High-resolution electrohydrodynamic inkjet printing of stretchable metal oxide semiconductor transistors with high performance. Nanoscale, 2016, 8, 17113-17121.	5.6	97
68	Newly Designed Cu/Cu₁₀Sn₃ Core/Shell Nanoparticles for Liquid Phase-Photonic Sintered Copper Electrodes: Large-Area, Low-Cost Transparent Flexible Electronics. Chemistry of Materials, 2016, 28, 4714-4723.	6.7	54
69	A high-performance, flexible and robust metal nanotrough-embedded transparent conducting film for wearable touch screen panels. Nanoscale, 2016, 8, 3916-3922.	5.6	76
70	Graphene-Based Wireless Environmental Gas Sensor on PET Substrate. IEEE Sensors Journal, 2016, 16, 5003-5009.	4.7	27
71	Stretchable, Transparent Electrodes as Wearable Heaters Using Nanotrough Networks of Metallic Glasses with Superior Mechanical Properties and Thermal Stability. Nano Letters, 2016, 16, 471-478.	9.1	265
72	Highâ€Resolution Printing of 3D Structures Using an Electrohydrodynamic Inkjet with Multiple Functional Inks. Advanced Materials, 2015, 27, 4322-4328.	21.0	243

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73	Highly Stretchable 2D Fabrics for Wearable Triboelectric Nanogenerator under Harsh Environments. ACS Nano, 2015, 9, 6394-6400.	14.6	310
74	Direct Printing of Reduced Graphene Oxide on Planar or Highly Curved Surfaces with High Resolutions Using Electrohydrodynamics. Small, 2015, 11, 2263-2268.	10.0	90
75	Studies on the mechanical stretchability of transparent conductive film based on graphene-metal nanowire structures. Nanoscale Research Letters, 2015, 10, 27.	5.7	47
76	High-resolution electrohydrodynamic jet printing of small-molecule organic light-emitting diodes. Nanoscale, 2015, 7, 13410-13415.	5.6	122
77	Highly Transparent and Stretchable Fieldâ€Effect Transistor Sensors Using Grapheneâ€“Nanowire Hybrid Nanostructures. Advanced Materials, 2015, 27, 3292-3297.	21.0	154
78	Stretchable and transparent electrodes based on in-plane structures. Nanoscale, 2015, 7, 14577-14594.	5.6	86
79	Highly efficient flexible optoelectronic devices using metal nanowire-conducting polymer composite transparent electrode. Electronic Materials Letters, 2015, 11, 906-914.	2.2	38
80	In-situ Synthesis of Carbon Nanotubeâ€“Graphite Electronic Devices and Their Integrations onto Surfaces of Live Plants and Insects. Nano Letters, 2014, 14, 2647-2654.	9.1	98
81	Stretchable and Transparent Electrodes using Hybrid Structures of Grapheneâ€“Metal Nanotrough Networks with High Performances and Ultimate Uniformity. Nano Letters, 2014, 14, 6322-6328.	9.1	168
82	Metal salt-derived Inâ€“Gaâ€“Znâ€“O semiconductors incorporating formamide as a novel co-solvent for producing solution-processed, electrohydrodynamic-jet printed, high performance oxide transistors. Journal of Materials Chemistry C, 2013, 1, 4236.	5.5	73
83	In situ observations of gas phase dynamics during graphene growth using solid-state carbon sources. Physical Chemistry Chemical Physics, 2013, 15, 10446.	2.8	21
84	Photopatternable and refractive-index-tunable solâ€“gel-derived silicaâ€“titania nanohybrid materials. Current Applied Physics, 2013, 13, 1732-1737.	2.4	8
85	Air-stable, surface-oxide free Cu nanoparticles for highly conductive Cu ink and their application to printed graphene transistors. Journal of Materials Chemistry C, 2013, 1, 2704.	5.5	131
86	High-Performance, Transparent, and Stretchable Electrodes Using Grapheneâ€“Metal Nanowire Hybrid Structures. Nano Letters, 2013, 13, 2814-2821.	9.1	607
87	Monolithic graphene transistor biointerface. , 2012, 2012, 5678.		0
88	Synthesis of monolithic grapheneâ€“graphite integrated electronics. Nature Materials, 2012, 11, 120-125.	27.5	208
89	Nanoscale, Electrified Liquid Jets for High-Resolution Printing of Charge. Nano Letters, 2010, 10, 584-591.	9.1	120
90	Nanoscale Patterns of Oligonucleotides Formed by Electrohydrodynamic Jet Printing with Applications in Biosensing and Nanomaterials Assembly. Nano Letters, 2008, 8, 4210-4216.	9.1	205

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91	Scaling laws for jet pulsations associated with high-resolution electrohydrodynamic printing. Applied Physics Letters, 2008, 92, .	3.3	133
92	Micro- and Nanopatterning Techniques for Organic Electronic and Optoelectronic Systems. Chemical Reviews, 2007, 107, 1117-1160.	47.7	612
93	High-resolution electrohydrodynamic jetÂprinting. Nature Materials, 2007, 6, 782-789.	27.5	1,231
94	In Situ Deposition and Patterning of Single-Walled Carbon Nanotubes by Laminar Flow and Controlled Flocculation in Microfluidic Channels. Angewandte Chemie - International Edition, 2006, 45, 581-585.	13.8	78
95	Collapse of stamps for soft lithography due to interfacial adhesion. Applied Physics Letters, 2005, 86, 154106.	3.3	101
96	Stamp Collapse in Soft Lithography. Langmuir, 2005, 21, 8058-8068.	3.5	201
97	Fabricating complex three-dimensional nanostructures with high-resolution conformable phase masks. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12428-12433.	7.1	280
98	Three-Dimensional Nanofabrication with Rubber Stamps and Conformable Photomasks. Advanced Materials, 2004, 16, 1369-1373.	21.0	123
99	Inorganicâ€“organic hybrid materials for application in optical devices. Thin Solid Films, 2003, 442, 194-200.	1.8	180
100	Single-step photopatterning of diffraction. Optics Express, 2003, 11, 1144.	3.4	22
101	Photoinduced low refractive index in a photosensitive organicâ€“inorganic hybrid material. Journal of Materials Chemistry, 2003, 13, 738-741.	6.7	27
102	Effect of organic modifiers on the thermo-optic characteristics of inorganicâ€“organic hybrid material films. Journal of Materials Research, 2003, 18, 1889-1894.	2.6	13
103	Photoinduced Low Refractive Index Patterning in a Photosensitive Hybrid Material. Materials Research Society Symposia Proceedings, 2003, 780, 371.	0.1	1