

Young-Geun Park

List of Publications by Year in descending order

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103
papers

11,429
citations

29994

54
h-index

29081

104
g-index

107
all docs

107
docs citations

107
times ranked

12965
citing authors

#	ARTICLE	IF	CITATIONS
1	High-resolution electrohydrodynamic jet printing. <i>Nature Materials</i> , 2007, 6, 782-789.	13.3	1,231
2	Wearable smart sensor systems integrated on soft contact lenses for wireless ocular diagnostics. <i>Nature Communications</i> , 2017, 8, 14997.	5.8	633
3	Micro- and Nanopatterning Techniques for Organic Electronic and Optoelectronic Systems. <i>Chemical Reviews</i> , 2007, 107, 1117-1160.	23.0	612
4	High-Performance, Transparent, and Stretchable Electrodes Using Graphene-Metal Nanowire Hybrid Structures. <i>Nano Letters</i> , 2013, 13, 2814-2821.	4.5	607
5	Soft, smart contact lenses with integrations of wireless circuits, glucose sensors, and displays. <i>Science Advances</i> , 2018, 4, eaap9841.	4.7	465
6	Highly Stretchable 2D Fabrics for Wearable Triboelectric Nanogenerator under Harsh Environments. <i>ACS Nano</i> , 2015, 9, 6394-6400.	7.3	310
7	Transparent and flexible fingerprint sensor array with multiplexed detection of tactile pressure and skin temperature. <i>Nature Communications</i> , 2018, 9, 2458.	5.8	303
8	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> , 2004, 101, 12428-12433.	3.3	280
9	Stretchable, Transparent Electrodes as Wearable Heaters Using Nanotrough Networks of Metallic Glasses with Superior Mechanical Properties and Thermal Stability. <i>Nano Letters</i> , 2016, 16, 471-478.	4.5	265
10	High-Resolution Printing of 3D Structures Using an Electrohydrodynamic Inkjet with Multiple Functional Inks. <i>Advanced Materials</i> , 2015, 27, 4322-4328.	11.1	243
11	High-resolution, reconfigurable printing of liquid metals with three-dimensional structures. <i>Science Advances</i> , 2019, 5, eaaw2844.	4.7	215
12	Synthesis of monolithic graphene-graphite integrated electronics. <i>Nature Materials</i> , 2012, 11, 120-125.	13.3	208
13	Nanoscale Patterns of Oligonucleotides Formed by Electrohydrodynamic Jet Printing with Applications in Biosensing and Nanomaterials Assembly. <i>Nano Letters</i> , 2008, 8, 4210-4216.	4.5	205
14	Stamp Collapse in Soft Lithography. <i>Langmuir</i> , 2005, 21, 8058-8068.	1.6	201
15	Smart Sensor Systems for Wearable Electronic Devices. <i>Polymers</i> , 2017, 9, 303.	2.0	185
16	Inorganic-organic hybrid materials for application in optical devices. <i>Thin Solid Films</i> , 2003, 442, 194-200.	0.8	180
17	Stretchable and Transparent Electrodes using Hybrid Structures of Graphene-Metal Nanotrough Networks with High Performances and Ultimate Uniformity. <i>Nano Letters</i> , 2014, 14, 6322-6328.	4.5	168
18	Integrated arrays of air-dielectric graphene transistors as transparent active-matrix pressure sensors for wide pressure ranges. <i>Nature Communications</i> , 2017, 8, 14950.	5.8	167

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19	Wearable, wireless gas sensors using highly stretchable and transparent structures of nanowires and graphene. <i>Nanoscale</i> , 2016, 8, 10591-10597.	2.8	156
20	Highly Transparent and Stretchable Field-Effect Transistor Sensors Using Graphene-Nanowire Hybrid Nanostructures. <i>Advanced Materials</i> , 2015, 27, 3292-3297.	11.1	154
21	Smart, soft contact lens for wireless immunosensing of cortisol. <i>Science Advances</i> , 2020, 6, eabb2891.	4.7	154
22	Rapid production of large-area, transparent and stretchable electrodes using metal nanofibers as wirelessly operated wearable heaters. <i>NPG Asia Materials</i> , 2017, 9, e432-e432.	3.8	151
23	Scaling laws for jet pulsations associated with high-resolution electrohydrodynamic printing. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	133
24	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> , 2013, 1, 2704.	2.7	131
25	Three-Dimensional, High-Resolution Printing of Carbon Nanotube/Liquid Metal Composites with Mechanical and Electrical Reinforcement. <i>Nano Letters</i> , 2019, 19, 4866-4872.	4.5	127
26	Three-Dimensional Nanofabrication with Rubber Stamps and Conformable Photomasks. <i>Advanced Materials</i> , 2004, 16, 1369-1373.	11.1	123
27	High-resolution electrohydrodynamic jet printing of small-molecule organic light-emitting diodes. <i>Nanoscale</i> , 2015, 7, 13410-13415.	2.8	122
28	Nanoscale, Electrified Liquid Jets for High-Resolution Printing of Charge. <i>Nano Letters</i> , 2010, 10, 584-591.	4.5	120
29	Printing of wirelessly rechargeable solid-state supercapacitors for soft, smart contact lenses with continuous operations. <i>Science Advances</i> , 2019, 5, eaay0764.	4.7	117
30	Liquid Metal-Based Soft Electronics for Wearable Healthcare. <i>Advanced Healthcare Materials</i> , 2021, 10, e2002280.	3.9	116
31	Recent Advances in Transparent Electronics with Stretchable Forms. <i>Advanced Materials</i> , 2019, 31, e1804690.	11.1	114
32	High Dielectric Performances of Flexible and Transparent Cellulose Hybrid Films Controlled by Multidimensional Metal Nanostructures. <i>Advanced Materials</i> , 2017, 29, 1700538.	11.1	106
33	Collapse of stamps for soft lithography due to interfacial adhesion. <i>Applied Physics Letters</i> , 2005, 86, 154106.	1.5	101
34	A soft and transparent contact lens for the wireless quantitative monitoring of intraocular pressure. <i>Nature Biomedical Engineering</i> , 2021, 5, 772-782.	11.6	100
35	Recent Progress in Wireless Sensors for Wearable Electronics. <i>Sensors</i> , 2019, 19, 4353.	2.1	99
36	In-situ Synthesis of Carbon Nanotube-Graphite Electronic Devices and Their Integrations onto Surfaces of Live Plants and Insects. <i>Nano Letters</i> , 2014, 14, 2647-2654.	4.5	98

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37	High-resolution electrohydrodynamic inkjet printing of stretchable metal oxide semiconductor transistors with high performance. <i>Nanoscale</i> , 2016, 8, 17113-17121.	2.8	97
38	Direct Printing of Reduced Graphene Oxide on Planar or Highly Curved Surfaces with High Resolutions Using Electrohydrodynamics. <i>Small</i> , 2015, 11, 2263-2268.	5.2	90
39	Stretchable and transparent electrodes based on in-plane structures. <i>Nanoscale</i> , 2015, 7, 14577-14594.	2.8	86
40	Photo-patternable and transparent films using cellulose nanofibers for stretchable origami electronics. <i>NPG Asia Materials</i> , 2016, 8, e299-e299.	3.8	83
41	Flexible electronics based on one-dimensional and two-dimensional hybrid nanomaterials. <i>Informa Mater</i> , 2020, 2, 33-56.	8.5	81
42	Mechanoluminescent, Air-Dielectric MoS ₂ Transistors as Active-Matrix Pressure Sensors for Wide Detection Ranges from Footsteps to Cellular Motions. <i>Nano Letters</i> , 2020, 20, 66-74.	4.5	80
43	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> , 2006, 45, 581-585.	7.2	78
44	A high-performance, flexible and robust metal nanotrough-embedded transparent conducting film for wearable touch screen panels. <i>Nanoscale</i> , 2016, 8, 3916-3922.	2.8	76
45	Biomimetic Chitin-Silk Hybrids: An Optically Transparent Structural Platform for Wearable Devices and Advanced Electronics. <i>Advanced Functional Materials</i> , 2018, 28, 1705480.	7.8	74
46	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> , 2013, 1, 4236.	2.7	73
47	Smart contact lens and transparent heat patch for remote monitoring and therapy of chronic ocular surface inflammation using mobiles. <i>Science Advances</i> , 2021, 7, .	4.7	71
48	Interactive Skin Display with Epidermal Stimuli Electrode. <i>Advanced Science</i> , 2019, 6, 1802351.	5.6	68
49	Recent Advances in Smart Contact Lenses. <i>Advanced Materials Technologies</i> , 2020, 5, 1900728.	3.0	67
50	Fully-integrated, bezel-less transistor arrays using reversibly foldable interconnects and stretchable origami substrates. <i>Nanoscale</i> , 2016, 8, 9504-9510.	2.8	65
51	Flexible Transparent Conductive Films with High Performance and Reliability Using Hybrid Structures of Continuous Metal Nanofiber Networks for Flexible Optoelectronics. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20299-20305.	4.0	62
52	An Annulative Synthetic Strategy for Building Triphenylene Frameworks by Multiple C-H Bond Activations. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5007-5011.	7.2	61
53	3D-printable, highly conductive hybrid composites employing chemically-reinforced, complex dimensional fillers and thermoplastic triblock copolymers. <i>Nanoscale</i> , 2017, 9, 5072-5084.	2.8	60
54	Research on flexible display at Ulsan National Institute of Science and Technology. <i>Npj Flexible Electronics</i> , 2017, 1, .	5.1	59

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55	High-Resolution 3D Printing for Electronics. <i>Advanced Science</i> , 2022, 9, e2104623.	5.6	58
56	Integration of Transparent Supercapacitors and Electrodes Using Nanostructured Metallic Glass Films for Wirelessly Rechargeable, Skin Heat Patches. <i>Nano Letters</i> , 2020, 20, 4872-4881.	4.5	56
57	Newly Designed Cu/Cu ₁₀ Sn ₃ Core/Shell Nanoparticles for Liquid Phase-Photonic Sintered Copper Electrodes: Large-Area, Low-Cost Transparent Flexible Electronics. <i>Chemistry of Materials</i> , 2016, 28, 4714-4723.	3.2	54
58	Intraocular Pressure Monitoring Following Islet Transplantation to the Anterior Chamber of the Eye. <i>Nano Letters</i> , 2020, 20, 1517-1525.	4.5	54
59	Human-Interactive, Active-Matrix Displays for Visualization of Tactile Pressures. <i>Advanced Materials Technologies</i> , 2019, 4, 1900082.	3.0	53
60	Direct diversification of unmasked quinazolin-4(3H)-ones through orthogonal reactivity modulation. <i>Chemical Communications</i> , 2017, 53, 10394-10397.	2.2	51
61	Studies on the mechanical stretchability of transparent conductive film based on graphene-metal nanowire structures. <i>Nanoscale Research Letters</i> , 2015, 10, 27.	3.1	47
62	High-Resolution 3D Printing of Freeform, Transparent Displays in Ambient Air. <i>Advanced Science</i> , 2019, 6, 1901603.	5.6	47
63	Alcohol gas sensors capable of wireless detection using In ₂ O ₃ /Pt nanoparticles and Ag nanowires. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 825-832.	4.0	45
64	Platform for wireless pressure sensing with built-in battery and instant visualization. <i>Nano Energy</i> , 2019, 62, 230-238.	8.2	43
65	Bioinspired Transparent Laminated Composite Film for Flexible Green Optoelectronics. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 24161-24168.	4.0	42
66	Amorphous Oxide Semiconductor Transistors with Air Dielectrics for Transparent and Wearable Pressure Sensor Arrays. <i>Advanced Materials Technologies</i> , 2020, 5, 1900928.	3.0	42
67	Untethered Soft Robotics with Fully Integrated Wireless Sensing and Actuating Systems for Somatosensory and Respiratory Functions. <i>Soft Robotics</i> , 2020, 7, 564-573.	4.6	39
68	Highly efficient flexible optoelectronic devices using metal nanowire-conducting polymer composite transparent electrode. <i>Electronic Materials Letters</i> , 2015, 11, 906-914.	1.0	38
69	Multimodal Digital X-ray Scanners with Synchronous Mapping of Tactile Pressure Distributions using Perovskites. <i>Advanced Materials</i> , 2021, 33, e2008539.	11.1	36
70	3D Electrodes for Bioelectronics. <i>Advanced Materials</i> , 2021, 33, e2005805.	11.1	35
71	Stretchable electronic devices using graphene and its hybrid nanostructures. <i>FlatChem</i> , 2017, 3, 71-91.	2.8	34
72	Nanomaterial-based stretchable and transparent electrodes. <i>Journal of Information Display</i> , 2016, 17, 131-141.	2.1	33

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73	Motion Detection Using Tactile Sensors Based on Pressure-Sensitive Transistor Arrays. <i>Sensors</i> , 2020, 20, 3624.	2.1	33
74	3D Heterogeneous Device Arrays for Multiplexed Sensing Platforms Using Transfer of Perovskites. <i>Advanced Materials</i> , 2021, 33, e2101093.	11.1	33
75	Implantation of electronic visual prosthesis for blindness restoration. <i>Optical Materials Express</i> , 2019, 9, 3878.	1.6	32
76	Seed-mediated synthesis of ultra-long copper nanowires and their application as transparent conducting electrodes. <i>Applied Surface Science</i> , 2017, 422, 731-737.	3.1	31
77	Instantaneous and Repeatable Self-Healing of Fully Metallic Electrodes at Ambient Conditions. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41497-41505.	4.0	31
78	Wireless phototherapeutic contact lenses and glasses with red light-emitting diodes. <i>Nano Research</i> , 2020, 13, 1347-1353.	5.8	28
79	Photoinduced low refractive index in a photosensitive organic-inorganic hybrid material. <i>Journal of Materials Chemistry</i> , 2003, 13, 738-741.	6.7	27
80	Graphene-Based Wireless Environmental Gas Sensor on PET Substrate. <i>IEEE Sensors Journal</i> , 2016, 16, 5003-5009.	2.4	27
81	Recent progress on wearable point-of-care devices for ocular systems. <i>Lab on A Chip</i> , 2021, 21, 1269-1286.	3.1	27
82	Tin-doped indium oxide films for highly flexible transparent conducting electrodes. <i>Thin Solid Films</i> , 2016, 615, 8-12.	0.8	25
83	A Full-Visible-Spectrum Invisibility Cloak for Mesoscopic Metal Wires. <i>Nano Letters</i> , 2018, 18, 3865-3872.	4.5	25
84	Transferable transparent electrodes of liquid metals for bifacial perovskite solar cells and heaters. <i>Nano Energy</i> , 2022, 93, 106857.	8.2	24
85	Recent Advances in Wearable Devices for Non-Invasive Sensing. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1235.	1.3	23
86	Single-step photopatterning of diffraction. <i>Optics Express</i> , 2003, 11, 1144.	1.7	22
87	In situ observations of gas phase dynamics during graphene growth using solid-state carbon sources. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 10446.	1.3	21
88	Smart Sensing Systems Using Wearable Optoelectronics. <i>Advanced Intelligent Systems</i> , 2020, 2, 1900144.	3.3	19
89	Recent advances in electronic devices for monitoring and modulation of brain. <i>Nano Research</i> , 2021, 14, 3070-3095.	5.8	18
90	Haze-free transparent electrodes using metal nanofibers with carbon shells for high-temperature stability. <i>Applied Surface Science</i> , 2019, 483, 1101-1109.	3.1	17

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91	Self-Healable, Recyclable Anisotropic Conductive Films of Liquid Metal-Gelatin Hybrids for Soft Electronics. <i>Advanced Electronic Materials</i> , 2022, 8, .	2.6	16
92	An Annulative Synthetic Strategy for Building Triphenylene Frameworks by Multiple C-H Bond Activations. <i>Angewandte Chemie</i> , 2017, 129, 5089-5093.	1.6	14
93	Effect of organic modifiers on the thermo-optic characteristics of inorganic-organic hybrid material films. <i>Journal of Materials Research</i> , 2003, 18, 1889-1894.	1.2	13
94	Multi-dimensional carbon nanofibers for supercapacitor electrodes. <i>Journal of Electroceramics</i> , 2017, 38, 43-50.	0.8	13
95	Detection of cracked teeth using a mechanoluminescence phosphor with a stretchable photodetector array. <i>NPG Asia Materials</i> , 2022, 14, .	3.8	11
96	Smart Contact Lenses: Recent Advances in Smart Contact Lenses (<i>Adv. Mater. Technol.</i> 1/2020). <i>Advanced Materials Technologies</i> , 2020, 5, 2070004.	3.0	10
97	A high-performance transparent moisture barrier using surface-modified nanoclay composite for OLED encapsulation. <i>Progress in Organic Coatings</i> , 2018, 118, 66-71.	1.9	9
98	Photopatternable and refractive-index-tunable sol-gel-derived silica-titania nanohybrid materials. <i>Current Applied Physics</i> , 2013, 13, 1732-1737.	1.1	8
99	Engineered Unidirectional Scattering in Metal Wire Networks for Ultrahigh Glass-Like Transparency. <i>ACS Photonics</i> , 2018, 5, 4270-4276.	3.2	5
100	3D Electrodes for Bioelectronics (<i>Adv. Mater.</i> 47/2021). <i>Advanced Materials</i> , 2021, 33, 2170374.	11.1	2
101	Photoinduced Low Refractive Index Patterning in a Photosensitive Hybrid Material. <i>Materials Research Society Symposia Proceedings</i> , 2003, 780, 371.	0.1	1
102	Monolithic graphene transistor biointerface. , 2012, 2012, 5678.		0
103	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> , 2017, 48, 1761-1764.	0.1	0