

Jin Young Oh

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78
papers

6,105
citations

29
h-index

78
g-index

85
ext. papers

7,310
ext. citations

10.6
avg, IF

5.83
L-index

#	Paper	IF	Citations
78	Intrinsically stretchable and healable semiconducting polymer for organic transistors. <i>Nature</i> , 2016 , 539, 411-415	50.4	779
77	Highly stretchable polymer semiconductor films through the nanoconfinement effect. <i>Science</i> , 2017 , 355, 59-64	33.3	651
76	A bioinspired flexible organic artificial afferent nerve. <i>Science</i> , 2018 , 360, 998-1003	33.3	637
75	Tough and Water-Insensitive Self-Healing Elastomer for Robust Electronic Skin. <i>Advanced Materials</i> , 2018 , 30, e1706846	24	523
74	An integrated self-healable electronic skin system fabricated via dynamic reconstruction of a nanostructured conducting network. <i>Nature Nanotechnology</i> , 2018 , 13, 1057-1065	28.7	510
73	Skin-Inspired Electronics: An Emerging Paradigm. <i>Accounts of Chemical Research</i> , 2018 , 51, 1033-1045	24.3	288
72	Stretchable organic optoelectronic sensorimotor synapse. <i>Science Advances</i> , 2018 , 4, eaat7387	14.3	228
71	Effects of Polymer Coatings on Electrodeposited Lithium Metal. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11735-11744	16.4	204
70	Chemically exfoliated transition metal dichalcogenide nanosheet-based wearable thermoelectric generators. <i>Energy and Environmental Science</i> , 2016 , 9, 1696-1705	35.4	186
69	Conducting Polymer Dough for Deformable Electronics. <i>Advanced Materials</i> , 2016 , 28, 4455-61	24	182
68	Stretchable temperature-sensing circuits with strain suppression based on carbon nanotube transistors. <i>Nature Electronics</i> , 2018 , 1, 183-190	28.4	180
67	Low-temperature, high-performance solution-processed thin-film transistors with peroxo-zirconium oxide dielectric. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 410-7	9.5	143
66	Polythiophene nanofibril bundles surface-embedded in elastomer: a route to a highly stretchable active channel layer. <i>Advanced Materials</i> , 2015 , 27, 1255-61	24	125
65	Effect of PEDOT Nanofibril Networks on the Conductivity, Flexibility, and Coatability of PEDOT:PSS Films. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 6954-61	9.5	117
64	Second Skin Enabled by Advanced Electronics. <i>Advanced Science</i> , 2019 , 6, 1900186	13.6	106
63	Inducing Elasticity through Oligo-Siloxane Crosslinks for Intrinsically Stretchable Semiconducting Polymers. <i>Advanced Functional Materials</i> , 2016 , 26, 7254-7262	15.6	103
62	Stretchable self-healable semiconducting polymer film for active-matrix strain-sensing array. <i>Science Advances</i> , 2019 , 5, eaav3097	14.3	102

61	Boron-doped peroxy-zirconium oxide dielectric for high-performance, low-temperature, solution-processed indium oxide thin-film transistor. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 8067-75	9.5	101
60	Self-Seeded Growth of Poly(3-hexylthiophene) (P3HT) Nanofibrils by a Cycle of Cooling and Heating in Solutions. <i>Macromolecules</i> , 2012 , 45, 7504-7513	5.5	100
59	Effect of Nonconjugated Spacers on Mechanical Properties of Semiconducting Polymers for Stretchable Transistors. <i>Advanced Functional Materials</i> , 2018 , 28, 1804222	15.6	75
58	Deformable Organic Nanowire Field-Effect Transistors. <i>Advanced Materials</i> , 2018 , 30, 1704401	24	64
57	Driving vertical phase separation in a bulk-heterojunction by inserting a poly(3-hexylthiophene) layer for highly efficient organic solar cells. <i>Applied Physics Letters</i> , 2011 , 98, 023303	3.4	51
56	Investigating Limiting Factors in Stretchable All-Carbon Transistors for Reliable Stretchable Electronics. <i>ACS Nano</i> , 2017 , 11, 7925-7937	16.7	47
55	High-performance flexible and air-stable perovskite solar cells with a large active area based on poly(3-hexylthiophene) nanofibrils. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11307-11316	13	42
54	Effects of solution temperature on solution-processed high-performance metal oxide thin-film transistors. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 2585-92	9.5	40
53	Highly Bendable Large-Area Printed Bulk Heterojunction Film Prepared by the Self-Seeded Growth of Poly(3-hexylthiophene) Nanofibrils. <i>Macromolecules</i> , 2013 , 46, 3534-3543	5.5	34
52	Enhanced air stability of polymer solar cells with a nanofibril-based photoactive layer. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 7759-65	9.5	30
51	Influence of nonionic surfactant-modified PEDOT:PSS on graphene. <i>Carbon</i> , 2015 , 85, 261-268	10.4	29
50	Highly efficient inverted polymer solar cells with reduced graphene-oxide-zinc-oxide nanocomposites buffer layer. <i>Applied Physics Letters</i> , 2013 , 102, 193903	3.4	29
49	Playing with dimensions: rational design for heteroepitaxial p-n junctions. <i>Nano Letters</i> , 2012 , 12, 68-76	11.5	26
48	Low-temperature, solution-processed ZrO ₂ :B thin film: a bifunctional inorganic/organic interfacial glue for flexible thin-film transistors. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 4494-503	9.5	25
47	Binder-free and full electrical-addressing free-standing nanosheets with carbon nanotube fabrics for electrochemical applications. <i>Advanced Materials</i> , 2011 , 23, 4711-5	24	23
46	Photoactive Poly(3-hexylthiophene) Nanoweb for Optoelectrical Stimulation to Enhance Neurogenesis of Human Stem Cells. <i>Theranostics</i> , 2017 , 7, 4591-4604	12.1	20
45	Kinetically controlled way to create highly uniform mono-dispersed ZnO sub-microrods for electronics. <i>Journal of Materials Chemistry</i> , 2012 , 22, 20719		18
44	Therapeutic Angiogenesis via Solar Cell-Facilitated Electrical Stimulation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 38344-38355	9.5	17

43	Effects of Regioregularity and Molecular Weight on the Growth of Polythiophene Nanofibrils and Mixes of Short and Long Nanofibrils To Enhance the Hole Transport. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 27694-702	9.5	17
42	Structural and Electrical Properties of Solution-Processed Gallium-Doped Indium Oxide Thin-Film Transistors. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 080202	1.4	17
41	Multi-dimensional nanocomposites for stretchable thermoelectric applications. <i>Applied Physics Letters</i> , 2019 , 114, 043902	3.4	16
40	Coating on a cold substrate largely enhances power conversion efficiency of the bulk heterojunction solar cell. <i>Macromolecular Rapid Communications</i> , 2011 , 32, 1066-71	4.8	15
39	Mass production of a 3D non-woven nanofabric with crystalline P3HT nanofibrils for organic solar cells. <i>Energy and Environmental Science</i> , 2013 , 6, 910	35.4	13
38	Thermoelectric energy harvesting electronic skin (e-skin) Patch with reconfigurable carbon nanotube clays. <i>Nano Energy</i> , 2021 , 87, 106156	17.1	13
37	Significant impact of Pd nanoparticle and CdS nanolayer of Pd@CdS@ZnO core-shell nanorods on enhancing catalytic, photoelectrochemical and photocurrent generation activity. <i>Electrochimica Acta</i> , 2019 , 298, 694-703	6.7	12
36	Microscale Soft Patterning for Solution Processable Metal Oxide Thin Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7205-11	9.5	11
35	Homogeneous liquid crystal alignment on inorganic-organic hybrid silica thin films derived by the sol-gel method. <i>Soft Matter</i> , 2012 , 8, 1437-1442	3.6	11
34	Ultrathin Photo-Oxidized Siloxane Layer for Extreme Wettability: Anti-Fogging Layer for Spectacles. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500725	4.6	11
33	Fabrication of a multidomain and ultrafast-switching liquid crystal alignment layer using contact printing with a poly(dimethylsiloxane) stamp. <i>Advanced Materials</i> , 2013 , 25, 1408-14	24	10
32	Role of Alkaline-Earth Metal in Solution-Processed Indium Oxide Based Thin-Film Transistors. <i>Applied Physics Express</i> , 2012 , 5, 111101	2.4	10
31	Selective Liquid Crystal Driving Mode Achieved by Controlling the Pretilt Angle via a Nanopatterned Organic/Inorganic Hybrid Thin Film. <i>Advanced Optical Materials</i> , 2021 , 9, 2001639	8.1	9
30	Enhanced Charge Transport and Stability Conferred by Iron(III)-Coordination in a Conjugated Polymer Thin-Film Transistors. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800239	6.4	9
29	Strong hydrophobizer: laterally chemisorbed low-molecular-weight polydimethylsiloxane. <i>Chemical Communications</i> , 2015 , 51, 5844-7	5.8	8
28	Lithium ion assisted hydration of metal ions in non-aqueous sol-gel inks for high performance metal oxide thin-film transistors. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 6276-6283	7.1	8
27	Enhanced performance of solution-processed amorphous gallium-doped indium oxide thin-film transistors after hydrogen peroxide vapor treatment. <i>Applied Physics Express</i> , 2014 , 7, 051101	2.4	8
26	Low-Temperature, Aqueous-Solution-Processed Zinc Tin Oxide Thin Film Transistor. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 070201	1.4	8

25	Deformable Electronics: Conducting Polymer Dough for Deformable Electronics (Adv. Mater. 22/2016). <i>Advanced Materials</i> , 2016 , 28, 4564	24	8
24	Formation of the Wrinkle Structure on a Styrene-Butadiene-Styrene Block Copolymer Surface by Surface Chemical Reformation via Ion-Beam Irradiation. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 8378-8385	3.8	7
23	Hybrid poly (3-hexylthiophene) (P3HT) nanomesh/ZnO nanorod p-n junction visible photocatalyst for efficient indoor air purification. <i>Applied Surface Science</i> , 2019 , 496, 143641	6.7	7
22	Structural and Electrical Properties of Solution-Processed Gallium-Doped Indium Oxide Thin-Film Transistors. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 080202	1.4	7
21	Low-Temperature, Aqueous-Solution-Processed Zinc Tin Oxide Thin Film Transistor. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 070201	1.4	6
20	A Disposable Photovoltaic Patch Controlling Cellular Microenvironment for Wound Healing. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	6
19	Triboelectric generator based on a moving charged bead. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 47LT02	3	5
18	Nanopatterning of Polymer/Gallium Oxide Thin Films by UV-Curing Nanoimprint Lithography for Liquid Crystal Alignment. <i>ACS Applied Nano Materials</i> , 2022 , 5, 1435-1445	5.6	4
17	Long-term stable NbSe ₂ nanosheet aqueous ink for printable electronics. <i>Applied Surface Science</i> , 2020 , 504, 144342	6.7	4
16	Self-Assembled 2D Networks of Metal Oxide Nanomaterials Enabling Sub-ppm Level Breathalyzers. <i>ACS Sensors</i> , 2021 , 6, 3195-3203	9.2	3
15	Correlation between alkaline-earth-metal dopants and threshold voltage (V _{th}) stability of solution-processed gallium indium oxide thin film transistors. <i>Journal of Sol-Gel Science and Technology</i> , 2015 , 73, 260-264	2.3	1
14	Observation of the hollow cathode effect from a dielectric cathode. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 495205	3	1
13	The correlation between electron density and anchoring strength in the inorganic vertical alignment layer. <i>Applied Physics Letters</i> , 2009 , 95, 081105	3.4	1
12	Reduced electrical hysteresis of organic thin-film transistors based on small molecule semiconductor through an insulating polymer binder. <i>Korean Journal of Chemical Engineering</i> , 2022 , 39, 499	2.8	1
11	Superior nanopatterns adjustable nanoimprint lithography on aluminum oxide in high-K thin films with ultraviolet curable polymer.. <i>RSC Advances</i> , 2021 , 12, 88-93	3.7	1
10	Antioxidant Triggered Metallic 1T' Phase Transformations of Chemically Exfoliated Tungsten Disulfide (WS ₂) Nanosheets.. <i>Small</i> , 2022 , e2107557	11	0
9	Two-dimensional self-assembled network structure of Co ₃ O ₄ quantum-dot-decorated ZnO nanobeads for ppb-level acetone sensors. <i>Materials Letters</i> , 2022 , 314, 131826	3.3	0
8	Uniformly aligned liquid crystal molecules on reformed poly(ethylene-co-vinyl acetate) layers driven by ion beam exposure. <i>Liquid Crystals</i> , 1-10	2.3	0

7	Superior Performance in Liquid Crystal Alignment of Polystyrene-Block-Poly(ethylene-ran-butylene)-Block-Polystyrene-Graft-Maleic Anhydride Film Irradiated with Ion Beam. <i>ECS Journal of Solid State Science and Technology</i> , 2022 , 11, 035013	2	○
6	Physicochemically modified anisotropic polyacrylamide thin film via ion-beam treatment for liquid crystal system. <i>Plasma Processes and Polymers</i> , 2022 , 19, 2100207	3-4	○
5	Role of a [6,6]-phenyl C61 butyric acid methyl ester homologue buffer layer for bulk-heterojunction solar cells. <i>Applied Surface Science</i> , 2013 , 283, 33-37	6.7	
4	Energy Barrier Reduction and Exciton Confinement Using an Intermediate Blocking Layer in Organic Light-Emitting Diodes. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 110204	1.4	
3	A fine-ordered nanostructured bismuth tin oxide thin film constructed via sol-gel nanopatterning for liquid crystal system. <i>Applied Physics A: Materials Science and Processing</i> , 2022 , 128, 1	2.6	
2	Antioxidant Triggered Metallic 1T Phase Transformations of Chemically Exfoliated Tungsten Disulfide (WS ₂) Nanosheets (Small 12/2022). <i>Small</i> , 2022 , 18, 2270057	11	
1	Well-ordered nanostructured organic/inorganic hybrid thin film construction via UV nanoimprint lithography applicable to liquid crystal systems. <i>Journal of Applied Polymer Science</i> , 52445	2.9	