

Youngkyoo Kim

List of Publications by Year in descending order

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217
papers

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109137

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times ranked

9878
citing authors

#	ARTICLE	IF	CITATIONS
1	A strong regioregularity effect in self-organizing conjugated polymer films and high-efficiency polythiophene:fullerene solar cells. <i>Nature Materials</i> , 2006, 5, 197-203.	13.3	2,208
2	Morphology evolution via self-organization and lateral and vertical diffusion in polymer:fullerene solar cell blends. <i>Nature Materials</i> , 2008, 7, 158-164.	13.3	1,396
3	Polymers for flexible displays: From material selection to device applications. <i>Progress in Polymer Science</i> , 2008, 33, 581-630.	11.8	848
4	Device annealing effect in organic solar cells with blends of regioregular poly(3-hexylthiophene) and soluble fullerene. <i>Applied Physics Letters</i> , 2005, 86, 063502.	1.5	598
5	Organic Photovoltaic Devices Based on Blends of Regioregular Poly(3-hexylthiophene) and Poly(9,9-dioctylfluorene-co-benzothiadiazole). <i>Chemistry of Materials</i> , 2004, 16, 4812-4818.	3.2	219
6	8.9% Single-Stack Inverted Polymer Solar Cells with Electron-Rich Polymer Nanolayer-Modified Inorganic Electron-Collecting Buffer Layers. <i>Advanced Energy Materials</i> , 2014, 4, 1301692.	10.2	218
7	Effects of thickness and thermal annealing of the PEDOT:PSS layer on the performance of polymer solar cells. <i>Organic Electronics</i> , 2009, 10, 205-209.	1.4	184
8	Inverted polymer fullerene solar cells exceeding 10% efficiency with poly(2-ethyl-2-oxazoline) nanodots on electron-collecting buffer layers. <i>Nature Communications</i> , 2015, 6, 8929.	5.8	174
9	A photophysical study of PCBM thin films. <i>Chemical Physics Letters</i> , 2007, 445, 276-280.	1.2	156
10	Abrupt Morphology Change upon Thermal Annealing in Poly(3-hexylthiophene)/Soluble Fullerene Blend Films for Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2010, 20, 748-754.	7.8	103
11	Doping Effect of Organosulfonic Acid in Poly(3-hexylthiophene) Films for Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 1281-1288.	4.0	97
12	Organic phototransistors with nanoscale phase-separated polymer/polymer bulk heterojunction layers. <i>Nanoscale</i> , 2011, 3, 2275.	2.8	88
13	Thermal and Optical Stabilities of Photoisomerizable Polyimide Layers for Nematic Liquid Crystal Alignments. <i>Japanese Journal of Applied Physics</i> , 1998, 37, 5663-5668.	0.8	81
14	Distinct Annealing Temperature in Polymer:Fullerene:Polymer Ternary Blend Solar Cells. <i>Journal of Physical Chemistry C</i> , 2009, 113, 1620-1623.	1.5	78
15	Hybrid Phototransistors Based on Bulk Heterojunction Films of Poly(3-hexylthiophene) and Zinc Oxide Nanoparticle. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 1385-1392.	4.0	75
16	Nanomorphology-driven two-stage hole mobility in blend films of regioregular and regiorandom polythiophenes. <i>Nanoscale</i> , 2011, 3, 4261.	2.8	73
17	Singlet exciton transfer and fullerene triplet formation in polymer-fullerene blend films. <i>Applied Physics Letters</i> , 2006, 89, 101128.	1.5	70
18	Influence of Controlled Acidity of Hole-Collecting Buffer Layers on the Performance and Lifetime of Polymer:Fullerene Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13502-13510.	1.5	69

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19	Organic solar cells based on conjugated polymers : History and recent advances. Korean Journal of Chemical Engineering, 2014, 31, 1095-1104.	1.2	67
20	Significant Stability Enhancement in High-Efficiency Polymer:Fullerene Bulk Heterojunction Solar Cells by Blocking Ultraviolet Photons from Solar Light. Advanced Science, 2016, 3, 1500269.	5.6	63
21	Poly(3-hexylthiophene-co-benzothiadiazole) (THBT) as an electron-accepting polymer for normal and inverted type all-polymer solar cells. Polymer Chemistry, 2013, 4, 2053.	1.9	60
22	Ultrasensitive Multi-Functional Flexible Sensors Based on Organic Field-Effect Transistors with Polymer-Dispersed Liquid Crystal Sensing Layers. Scientific Reports, 2017, 7, 2630.	1.6	57
23	Distorted Asymmetric Cubic Nanostructure of Soluble Fullerene Crystals in Efficient Polymer:Fullerene Solar Cells. ACS Nano, 2009, 3, 2557-2562.	7.3	54
24	Bright pure blue emission from multilayer organic electroluminescent device with purified unidentate organometallic complex. Applied Physics Letters, 2001, 79, 1387-1389.	1.5	52
25	Bright red emission from single layer polymer light-emitting devices based on blends of regioregular P3HT and F8BT. Current Applied Physics, 2005, 5, 222-226.	1.1	50
26	In situ-prepared composite materials of PEDOT: PSS buffer layer-metal nanoparticles and their application to organic solar cells. Nanoscale Research Letters, 2012, 7, 641.	3.1	50
27	Fracture toughness and properties of plasticized PVC and thermoplastic polyurethane blends. Polymer, 1998, 39, 4765-4772.	1.8	46
28	Ambipolar Organic Phototransistors with p-Type/n-Type Conjugated Polymer Bulk Heterojunction Light-Sensing Layers. Advanced Electronic Materials, 2016, 2, 1600264.	2.6	46
29	Broadband All-Polymer Phototransistors with Nanostructured Bulk Heterojunction Layers of NIR-Sensing n-Type and Visible Light-Sensing p-Type Polymers. Scientific Reports, 2015, 5, 16457.	1.6	45
30	Efficient Deep Red Light-Sensing All-Polymer Phototransistors with p-type/n-type Conjugated Polymer Bulk Heterojunction Layers. ACS Applied Materials & Interfaces, 2017, 9, 14983-14989.	4.0	44
31	Morphology-Dependent Electrical Memory Characteristics of a Well-Defined Brush Polymer Bearing Oxadiazole-Based Mesogens. Journal of Physical Chemistry C, 2011, 115, 19355-19363.	1.5	41
32	Improved Performance of Polymer:Polymer Solar Cells by Doping Electron-Accepting Polymers with an Organosulfonic Acid. Advanced Functional Materials, 2011, 21, 4527-4534.	7.8	41
33	Accelerated pre-oxidation method for healing progressive electrical short in organic light-emitting devices. Applied Physics Letters, 2003, 82, 2200-2202.	1.5	40
34	Compatibilizer in Polymer Blends for the Recycling of Plastics Waste I: Preliminary Studies on 50/50 wt% Virgin Polyblends. Polymers for Advanced Technologies, 1996, 7, 483-492.	1.6	37
35	Polymer chain/nanocrystal ordering in thin films of regioregular poly(3-hexylthiophene) and blends with a soluble fullerene. Soft Matter, 2007, 3, 117-121.	1.2	37
36	Polyacetylene-based polyelectrolyte as a universal interfacial layer for efficient inverted polymer solar cells. Organic Electronics, 2017, 48, 61-67.	1.4	36

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37	Flexible Near-Infrared Plastic Phototransistors with Conjugated Polymer Gate-Sensing Layers. <i>Advanced Functional Materials</i> , 2018, 28, 1800704.	7.8	36
38	Influence of electron-donating polymer addition on the performance of polymer solar cells. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 225101.	1.3	35
39	>10% Efficiency Polymer:Fullerene Solar Cells with Polyacetylene-Based Polyelectrolyte Interlayers. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600415.	1.9	35
40	An Electronically Active Molecularly Doped Polyimide Hole Injection Layer for an Efficient Hybrid Organic Light-Emitting Device. <i>Chemistry of Materials</i> , 2004, 16, 5051-5057.	3.2	32
41	Synthesis and characterization of soluble polyimides functionalized with carbazole moieties. <i>Journal of Polymer Science Part A</i> , 2008, 46, 8117-8130.	2.5	32
42	2,2-Bis(1,3,4-thiadiazole)-Based π -Conjugated Copolymers for Organic Photovoltaics with Exceeding 8% and Its Molecular Weight Dependence of Device Performance. <i>Macromolecules</i> , 2017, 50, 891-899.	2.2	32
43	The control of miscibility of PP/EPDM blends by adding Ionomers and applying dynamic vulcanization. <i>Polymer Engineering and Science</i> , 1995, 35, 1592-1599.	1.5	31
44	Organic thermoelectric devices with PEDOT:PSS/ZnO hybrid composites. <i>Chemical Engineering Journal</i> , 2021, 415, 128935.	6.6	31
45	Synthesis and Characteristics of Poly[N,N'-diphenyl-N,N'-bis(4-aminobiphenyl)-(1,1'-biphenyl)-4,4'-diamine pyromellitimide] as a Hole Injecting and Transporting Layer for Hybrid Organic Light-Emitting Device. <i>Macromolecules</i> , 2002, 35, 8759-8767.	2.2	30
46	Solution-processable all-small molecular bulk heterojunction films for stable organic photodetectors: near UV and visible light sensing. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1513-1520.	2.7	30
47	Progress in organic semiconducting materials with high thermal stability for organic light-emitting devices. <i>Informa-Materials</i> , 2021, 3, 61-81.	8.5	30
48	Organic nonvolatile memory transistors with self-doped polymer energy well structures. <i>NPG Asia Materials</i> , 2013, 5, e33-e33.	3.8	29
49	All-Polymer Solar Cells with Bulk Heterojunction Films Containing Electron-Accepting Triple Bond-Conjugated Perylene Diimide Polymer. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 767-774.	3.2	29
50	Power-law-type electron injection through lithium fluoride nanolayers in phosphorescence organic light-emitting devices. <i>Nanotechnology</i> , 2008, 19, 355207.	1.3	28
51	Temperature/time-dependent crystallization of polythiophene:fullerene bulk heterojunction films for polymer solar cells. <i>Nanoscale</i> , 2010, 2, 2384.	2.8	28
52	Rheological properties, tensile properties, and morphology of PP/EPDM/Ionomer ternary blends. <i>Journal of Applied Polymer Science</i> , 1994, 51, 1453-1461.	1.3	27
53	Real-time liquid crystal-based biosensor for urea detection. <i>Analytical Methods</i> , 2014, 6, 5753-5759.	1.3	26
54	Organic Phototransistors With All-Polymer Bulk Heterojunction Layers of p-Type and n-Type Sulfur-Containing Conjugated Polymers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 147-153.	1.9	25

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55	Non-linear charge conduction and emission behaviour of OLED fabricated with Alq3 and TPD-doped soluble polyimide. <i>Advanced Materials for Optics and Electronics</i> , 2000, 10, 273-283.	0.6	24
56	Microstructure and properties of rigid rod-like polyimide/flexible coil-like poly(amide-imide) molecular composite films. <i>Macromolecular Research</i> , 2010, 18, 14-21.	1.0	24
57	5 V driving organic non-volatile memory transistors with poly(vinyl alcohol) gate insulator and poly(3-hexylthiophene) channel layers. <i>Applied Physics Letters</i> , 2015, 107, 153302.	1.5	24
58	Broadband pH-Sensing Organic Transistors with Polymeric Sensing Layers Featuring Liquid Crystal Microdomains Encapsulated by Di-Block Copolymer Chains. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23862-23867.	4.0	24
59	Liquid Crystal-on-Organic Field-Effect Transistor Sensory Devices for Perceptive Sensing of Ultralow Intensity Gas Flow Touch. <i>Scientific Reports</i> , 2013, 3, 2452.	1.6	23
60	Strong molecular weight effects of gate-insulating memory polymers in low-voltage organic nonvolatile memory transistors with outstanding retention characteristics. <i>NPG Asia Materials</i> , 2016, 8, e235-e235.	3.8	23
61	Flexible Thermal Sensors Based on Organic Field-Effect Transistors with Polymeric Channel/Gate-Insulating and Light-Blocking Layers. <i>ACS Omega</i> , 2017, 2, 4065-4070.	1.6	23
62	Influence of thermal annealing on the deformation of a lithium fluoride nanolayer in polymer- C_{60} fullerene solar cells. <i>Europhysics Letters</i> , 2008, 84, 58002.	0.7	22
63	Pronounced Cosolvent Effects in Polymer:Polymer Bulk Heterojunction Solar Cells with Sulfur-Rich Electron-Donating and Imide-Containing Electron-Accepting Polymers. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 15995-16002.	4.0	22
64	Ultrasensitive detection of hazardous reactive oxygen species using flexible organic transistors with polyphenol-embedded conjugated polymer sensing layers. <i>Journal of Hazardous Materials</i> , 2018, 355, 17-24.	6.5	22
65	Acidity-Controlled Conducting Polymer Films for Organic Thermoelectric Devices with Horizontal and Vertical Architectures. <i>Scientific Reports</i> , 2016, 6, 33795.	1.6	21
66	Light-emitting diode based on oligo-phenylene vinylene and butyl-PBD blends. <i>Solid State Communications</i> , 1997, 102, 895-898.	0.9	20
67	Hole-transporting polyimide for organic electroluminescent display. <i>Thin Solid Films</i> , 2000, 363, 263-267.	0.8	20
68	Conducting polymer/in-situ generated platinum nanoparticle nanocomposite electrodes for low-cost dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2014, 116, 518-523.	2.6	20
69	Pronounced Side Chain Effects in Triple Bond-Conjugated Polymers Containing Naphthalene Diimides for n-Channel Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 12921-12929.	4.0	20
70	High-Efficiency Polymer:Nonfullerene Solar Cells with Quaterthiophene-Containing Polyimide Interlayers. <i>Advanced Science</i> , 2018, 5, 1800331.	5.6	20
71	Long time thermal annealing effects on the film morphology and performance of polymer solar cells with calcium electrode. <i>Macromolecular Research</i> , 2009, 17, 445-447.	1.0	19
72	Influence of nickel oxide nanolayer and doping in organic light-emitting devices. <i>Journal of Industrial and Engineering Chemistry</i> , 2009, 15, 716-718.	2.9	19

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73	Initial Performance Changes of Polymer/Fullerene Solar Cells by Short-Time Exposure to Simulated Solar Light. <i>ChemSusChem</i> , 2010, 3, 476-480.	3.6	19
74	Hybrid solar cells with conducting polymers and vertically aligned silicon nanowire arrays: The effect of silicon conductivity. <i>Physica B: Condensed Matter</i> , 2012, 407, 3059-3062.	1.3	19
75	Short-wave infrared organic phototransistors with strong infrared-absorbing polytriarylamine by electron-transfer doping. <i>Npj Flexible Electronics</i> , 2021, 5, .	5.1	19
76	Organic solar cells with submicron-thick polymer:fullerene bulk heterojunction films. <i>Applied Physics Letters</i> , 2010, 97, 103503.	1.5	18
77	Nano-crater morphology in hybrid electron-collecting buffer layers for high efficiency polymer:nonfullerene solar cells with enhanced stability. <i>Nanoscale Horizons</i> , 2019, 4, 464-471.	4.1	18
78	Synthesis of poly(9-ethylcarbazole-exo-norbornene-5,6-dicarboximide) for hole-transporting layer in hybrid organic light-emitting devices. <i>Journal of Polymer Science Part A</i> , 2010, 48, 5189-5197.	2.5	16
79	Colorless Polyimide/Organoclay Nanocomposite Substrates for Flexible Organic Light-Emitting Devices. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 388-396.	0.9	16
80	All-polymer solar cells with bulk heterojunction nanolayers of chemically doped electron-donating and electron-accepting polymers. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 15046.	1.3	16
81	n-Channel organic phototransistors with an n-type conjugated polymer based on indacenodithiophene and naphthalenediimide units. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15778-15787.	2.7	16
82	Efficient blue organic light-emitting devices with charge carrier confining nanostructure formed by wide band gap molecule doping. <i>Nanotechnology</i> , 2004, 15, 149-153.	1.3	15
83	Mesoporous Silica Nanolayers Infiltrated with Hole-Transporting Molecules for Hybrid Organic Light-Emitting Devices. <i>ACS Nano</i> , 2008, 2, 1137-1142.	7.3	15
84	Effect of Long Time Annealing and Incident Light Intensity on the Performance of Polymer: Fullerene Solar Cells. <i>IEEE Nanotechnology Magazine</i> , 2010, 9, 400-406.	1.1	15
85	UV-Sensing Semitransparent Organic Field-Effect Transistors with Wide Bandgap Small Molecular Channel and Polymeric Gate-Insulating Layers. <i>Advanced Electronic Materials</i> , 2017, 3, 1700162.	2.6	15
86	High efficiency tandem polymer solar cells with MoO ₃ /Ni/ZnO:PEOz hybrid interconnection layers. <i>Nanoscale Horizons</i> , 2019, 4, 1221-1226.	4.1	15
87	Fracture mechanics investigation on the PP/EPDM/ionomer ternary blends using j-integral by locus method. <i>Journal of Applied Polymer Science</i> , 1994, 51, 1381-1388.	1.3	14
88	Mixing effect of chelate complex and metal in organic light-emitting diodes. <i>Applied Physics Letters</i> , 1998, 72, 1757-1759.	1.5	14
89	Mixing effect of hole-injecting and hole-transporting materials on the performance and lifetime of organic light-emitting devices. <i>Applied Physics Letters</i> , 2006, 88, 043504.	1.5	14
90	Nanoscale blending of aliphatic and aromatic polyimides: A clue for forming semi-molecular composites and in-situ generation of copolyimide fractions. <i>Polymer Bulletin</i> , 2008, 59, 833-845.	1.7	14

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91	Multilayer organic solar cells with wet-processed polymeric bulk heterojunction film and dry-processed small molecule films. <i>Applied Physics Letters</i> , 2008, 92, 093306.	1.5	14
92	Strong Composition Effects in All-Polymer Phototransistors with Bulk Heterojunction Layers of p-type and n-type Conjugated Polymers. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 628-635.	4.0	14
93	Synthesis of indacenodithienothiophene-based conjugated polymers containing electron-donating/accepting comonomers and their phototransistor characteristics. <i>Polymer Chemistry</i> , 2019, 10, 6324-6333.	1.9	14
94	Photoemission spectroscopy study of Alq3 and metal mixed interfaces. <i>Applied Physics Letters</i> , 2001, 79, 4595-4597.	1.5	13
95	Molecularly doped polymeric network nanolayers for organic light-emitting devices. <i>Macromolecular Research</i> , 2006, 14, 401-403.	1.0	13
96	Annealing time effect on the performance of polymer solar cells having active layers doped with hole-transporting material. <i>Macromolecular Research</i> , 2010, 18, 709-712.	1.0	13
97	Strong addition effect of n-type polymer with mid-energy level in polymer:fullerene solar cells with power conversion efficiency exceeding 10%. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7480-7487.	5.2	13
98	Fracture toughness investigation of the dynamically vulcanized EPDM/PP/ionomer ternary blends using the J-integral via the locus method. <i>Journal of Materials Science</i> , 1996, 31, 2917-2924.	1.7	12
99	Time-resolved light scattering and FTIR spectroscopic studies on blends of polypropylene grafted with maleic anhydride and zinc salt of sulfonated EPDM Ionomer. <i>Polymer Engineering and Science</i> , 2000, 40, 1816-1824.	1.5	12
100	Annealing temperature effect of hole-collecting polymeric nanolayer in polymer solar cells. <i>Macromolecular Research</i> , 2008, 16, 185-188.	1.0	12
101	Influence of hole-transporting material addition on the performance of polymer solar cells. <i>Energy and Environmental Science</i> , 2010, 3, 1538.	15.6	12
102	Effect of strong base addition to hole-collecting buffer layer in polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 349-351.	3.0	12
103	Near-Infrared Organic Phototransistors with p-Channel Photosensitive Layers of Conjugated Polymer Composed of bis-Octyldodecyl-Diketopyrrolopyrrole and Benzothiadiazole Units. <i>Advanced Electronic Materials</i> , 2021, 7, .	2.6	12
104	Polymer Solar Cells with Polymer/Carbon Nanotube Composite Hole-Collecting Buffer Layers. <i>The Open Physical Chemistry Journal</i> , 2010, 4, 1-3.	0.4	12
105	Organic/Inorganic Hybrid Composite Films from Polyimide and Organosilica: Effect of the Type of Organosilica Precursors. <i>Polymer Bulletin</i> , 2008, 60, 713-723.	1.7	11
106	Inverted Organic Photodetectors With ZnO Electron-Collecting Buffer Layers and Polymer Bulk Heterojunction Active Layers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014, 20, 130-136.	1.9	11
107	Light-Insensitive Organic Field-Effect Transistors with n-Type Conjugated Polymers Containing Dinitrothiophene Units. <i>Advanced Electronic Materials</i> , 2018, 4, 1800375.	2.6	11
108	Effect of film and device annealing in polymer:polymer solar cells with a LiF nanolayer. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 382-386.	1.7	10

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109	Liquid Crystal-Gated-Organic Field-Effect Transistors with In-Plane Drain-Source-Gate Electrode Structure. ACS Applied Materials & Interfaces, 2015, 7, 504-510.	4.0	10
110	Thickness Effect of Bulk Heterojunction Layers on the Performance and Stability of Polymer:Fullerene Solar Cells with Alkylthiophene-Containing Polymer. ACS Sustainable Chemistry and Engineering, 2017, 5, 9263-9270.	3.2	10
111	Ionic nanocluster-evolved polymers for low-voltage flexible organic nonvolatile memory transistors. Materials Horizons, 2019, 6, 1899-1904.	6.4	10
112	A Pronounced Dispersion Effect of Crystalline Silicon Nanoparticles on the Performance and Stability of Polymer:Fullerene Solar Cells. ACS Applied Materials & Interfaces, 2012, 4, 5300-5308.	4.0	9
113	All-polymer phototransistors with bulk heterojunction sensing layers of thiophene-based electron-donating and thienopyrroledione-based electron-accepting polymers. Organic Electronics, 2016, 39, 199-206.	1.4	9
114	Low-Voltage Organic Nonvolatile Memory Transistors with Water-Soluble Polymers Containing Thermally Induced Radical Dipoles. ACS Applied Materials & Interfaces, 2019, 11, 48113-48120.	4.0	9
115	Significant Performance Improvement in n-Channel Organic Field-Effect Transistors with C_{60} : C_{70} Co-Crystals Induced by Poly(2-ethyl-oxazoline) Nanodots. Advanced Materials, 2021, 33, e2100421.	11.1	9
116	Electroluminescence of Dye-Dispersed BPDA-PDA Polyimide Light Emitting Diode(LED). Molecular Crystals and Liquid Crystals, 1997, 295, 31-34.	0.3	8
117	Red hybrid organic light-emitting device fabricated with molecularly doped polyimide thin film containing hole-transporting nanoparticles. Solid-State Electronics, 2004, 48, 633-640.	0.8	8
118	Device Performance and Lifetime of Polymer:Fullerene Solar Cells with UV-Ozone-Irradiated Hole-Collecting Buffer Layers. ChemSusChem, 2011, 4, 1607-1612.	3.6	8
119	Two-dimensional photonic crystal arrays for polymer:fullerene solar cells. Nanotechnology, 2011, 22, 465403.	1.3	8
120	Direct measurement of extracellular electrical signals from mammalian olfactory sensory neurons in planar triode devices. Analyst, The, 2012, 137, 2047.	1.7	8
121	Stable low-voltage organic memory transistors with poly(vinyl alcohol) layers stabilized by vinyl silicon oxide interlayers. Organic Electronics, 2016, 34, 223-228.	1.4	8
122	Organic phototransistors with bulk heterojunction sensing-channel layers containing soluble difluorinated diketopyrrolopyrrole acceptor. Dyes and Pigments, 2018, 156, 219-224.	2.0	8
123	Organic Phototransistors With Chemically Doped Conjugated Polymer Interlayers for Visible and Near Infrared Light Detection. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-7.	1.9	8
124	Effect of Top Channel Thickness in Near Infrared Organic Phototransistors with Conjugated Polymer Gate-Sensing Layers. Electronics (Switzerland), 2019, 8, 1493.	1.8	8
125	Short-Wave Infrared-Sensing Organic Phototransistors with a Triarylamine-Based Polymer Doped with a Lewis Acid-Type Small Molecule. ACS Applied Materials & Interfaces, 2021, 13, 19064-19071.	4.0	8
126	Effect of organosilica isomers on the interfacial interaction in polyimide/aromatic organosilica hybrids. Journal of Applied Polymer Science, 2007, 103, 2507-2513.	1.3	7

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127	Effects of Solvents on ITO Cracks in Ultrasonic Cleaning of ITO-Coated Flexible Substrates for Polymer Solar Cells. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 551, 212-220.	0.4	7
128	Stable Protein Device Platform Based on Pyridine Dicarboxylic Acid-Bound Cubic-Nanostructured Mesoporous Titania Films. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 6873-6878.	4.0	7
129	Aqueous Solution-Processable Small Molecular Metal-Chelate Complex Electrolyte for Flexible All-Solid State Energy Storage Devices. <i>Advanced Energy Materials</i> , 2015, 5, 1500402.	10.2	7
130	Light-Induced Open Circuit Voltage Increase in Polymer Solar Cells with Ternary Bulk Heterojunction Nanolayers. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 55-62.	3.2	7
131	Multistacked Detectors with Transparency-Controlled Polymer:Nonfullerene Bulk Heterojunction Sensing Layers for Visible Light Communications. <i>ACS Omega</i> , 2019, 4, 3611-3618.	1.6	7
132	Insertion of a Cytochrome c Protein into a Complex Lipid Monolayer under an Electric Field. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14377-14380.	1.5	6
133	A strong regioregularity effect in self-organizing conjugated polymer films and high-efficiency polythiophene: fullerene solar cells. , 2010, , 63-69.		6
134	Extremely slow photocurrent response from hemoprotein films in planar diode geometry. <i>Applied Physics Letters</i> , 2012, 101, 223701.	1.5	6
135	Phenanthroline diimide as an organic electron-injecting material for organic light-emitting devices. <i>RSC Advances</i> , 2012, 2, 8762.	1.7	6
136	Touch sensors based on planar liquid crystal-gated-organic field-effect transistors. <i>AIP Advances</i> , 2014, 4, 097109.	0.6	6
137	Ultrasensitive tactile sensors based on planar liquid crystal-gated-organic field-effect transistors with polymeric dipole control layers. <i>RSC Advances</i> , 2015, 5, 56904-56907.	1.7	6
138	Polymer Nanodot-Hybridized Alkyl Silicon Oxide Nanostructures for Organic Memory Transistors with Outstanding High-Temperature Operation Stability. <i>Scientific Reports</i> , 2016, 6, 33863.	1.6	6
139	Strong Photo-Amplification Effects in Flexible Organic Capacitors with Small Molecular Solid-State Electrolyte Layers Sandwiched between Photo-Sensitive Conjugated Polymer Nanolayers. <i>Scientific Reports</i> , 2016, 6, 19527.	1.6	6
140	Physical force-sensitive touch responses in liquid crystal-gated-organic field-effect transistors with polymer dipole control layers. <i>Organic Electronics</i> , 2016, 28, 184-188.	1.4	6
141	Enhanced superoxide sensitivity in organic field-effect transistor sensors by introducing nanoclay-polyphenol-polymer hybrid sensing channels. <i>Journal of Hazardous Materials</i> , 2019, 374, 159-166.	6.5	6
142	Organic Light-Dependent Resistors with Near Infrared Light-Absorbing Conjugated Polymer Films. <i>ACS Applied Electronic Materials</i> , 2022, 4, 130-137.	2.0	6
143	Contact resistance in interface of metal - light emitting organic thin films. <i>Thin Solid Films</i> , 2000, 363, 302-305.	0.8	5
144	Effect of silicon-nanoparticle addition on the nanostructure of polythiophene: Fullerene bulk heterojunction solar cells. <i>Journal of the Korean Physical Society</i> , 2012, 61, 234-238.	0.3	5

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145	Wide range thickness effect of hole-collecting buffer layers for polymer:fullerene solar cells. <i>Organic Electronics</i> , 2013, 14, 2889-2895.	1.4	5
146	Influence of annealing temperature on the nanostructure and performance of polymer: Polymer solar cells. <i>Journal of the Korean Physical Society</i> , 2013, 63, 1368-1372.	0.3	5
147	Investigation of short-term stability in high efficiency polymer : nonfullerene solar cells via quick current-voltage cycling method. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 2496-2503.	1.2	5
148	Distinctive Nanocrater Structures in Hybrid Electron-Collecting Buffer Layers for High Efficiency Polymer:Nonfullerene Solar Cells. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800912.	1.9	5
149	A Soluble Diketopyrrolopyrrole Derivative and Its Applications for Organic Phototransistors. <i>Asian Journal of Organic Chemistry</i> , 2018, 7, 2330-2336.	1.3	5
150	Synthesis of Sulfur/Nitrogen-Enriched Polyimide and Interlayer Application for Inverted Polymer:Nonfullerene Solar Cells. <i>Solar Rrl</i> , 2019, 3, 1900101.	3.1	5
151	Protein Nanosphere Anchors for Stabilizing Hydroxylated Polymer Chains in Organic Memory Transistors with Outstanding Retention Characteristics. <i>Advanced Electronic Materials</i> , 2020, 6, 1900920.	2.6	5
152	Hole Injection Role of p-Type Conjugated Polymer Nanolayers in Phosphorescent Organic Light-Emitting Devices. <i>Electronics (Switzerland)</i> , 2021, 10, 2283.	1.8	5
153	? Investigation of nanomorphology change in bulk heterojunction films using synchrotron x-ray diffraction technique. <i>Journal of the Korean Physical Society</i> , 2010, 56, 2088-2092.	0.3	5
154	Ambipolar organic phototransistors with bulk heterojunction films of p-type and n-type indacenodithienothiophene-containing conjugated polymers. <i>Journal of Materials Chemistry C</i> , 2022, 10, 3951-3958.	2.7	5
155	Hybrid organic light-emitting device fabricated with semiconducting polyimide via mixed vapor deposition polymerization. <i>IEEE Journal of Quantum Electronics</i> , 2002, 38, 1039-1046.	1.0	4
156	Bias-dependent photocurrent response in protein nanolayer-embedded solid state planar diode devices. <i>Nanoscale</i> , 2010, 2, 694.	2.8	4
157	Effect of Gate Voltage in Organic Phototransistors Based on Polythiophene/Fullerene Bulk Heterojunction Nanolayers. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 519, 260-265.	0.4	4
158	Diimide nanoclusters play hole trapping and electron injection roles in organic light-emitting devices. <i>Nanoscale</i> , 2011, 3, 1073-1077.	2.8	4
159	Effect of Side Groups in Polynorbornene Films for Transparent Conductive Substrates. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 550-554.	0.9	4
160	Compression-Induced Open Circuit Voltage Increase in All-Polymer Solar Cells with Lithium Fluoride Nanolayers. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 1280-1285.	3.2	4
161	Effects of Hole-Collecting Buffer Layers and Electrodes on the Performance of Flexible Plastic Organic Photovoltaics. <i>International Journal of Photoenergy</i> , 2013, 2013, 1-8.	1.4	4
162	All-polymer solar cells with in-situ generated n-type conjugated polymer nanoparticles. <i>Solar Energy Materials and Solar Cells</i> , 2014, 122, 112-119.	3.0	4

#	ARTICLE	IF	CITATIONS
163	Strong addition effect of charge-bridging polymer in polymer:fullerene solar cells with low fullerene content. RSC Advances, 2014, 4, 24914-24921.	1.7	4
164	Effect of halogen-terminated additives on the performance and the nanostructure of all-polymer solar cells. Journal of the Korean Physical Society, 2015, 66, 521-525.	0.3	4
165	Nanoscale Film Morphology and n-Type Digital Memory Characteristics of Conjugated Donor-Acceptor Alternating Copolymer Based on Thiophene and Thiadiazole Units. Macromolecular Rapid Communications, 2019, 40, 1900005.	2.0	4
166	Near-Infrared Organic Phototransistors with Polymeric Channel/Dielectric/Sensing Triple Layers. Micromachines, 2020, 11, 1061.	1.4	4
167	Precursor Polymer Effect on Polyimide/Silica Hybrid Nanocomposite Films. Journal of Nanoscience and Nanotechnology, 2009, 9, 4633-4643.	0.9	3
168	Thermal Annealing Time Effect on the Performance of Ambipolar Organic Light-Emitting Transistors Based on Conjugated Polymer Blends. Journal of Nanoscience and Nanotechnology, 2010, 10, 6789-6793.	0.9	3
169	Effect of Film Thickness in Hybrid Polymer/Polymer Solar Cells with Zinc Oxide Nanoparticles. Journal of Nanoscience and Nanotechnology, 2011, 11, 5733-5736.	0.9	3
170	Deep Blue Laser Gain Medium Based on Triphenylamine Substituted Arylfluorene With Improved Photo-Stability. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 15-20.	1.9	3
171	Charging Characteristics of Lithium Ion Battery Using Semi-Solar Modules of Polymer:Fullerene Solar Cells. Energies, 2017, 10, 1886.	1.6	3
172	Mesostructures and properties of transparent block copolymer/silica nanocomposite monoliths. Composite Interfaces, 2007, 14, 545-557.	1.3	2
173	The composition effect of triphenylamine/polyimide composite nanolayers on the performance of hybrid organic light-emitting devices. Semiconductor Science and Technology, 2010, 25, 105006.	1.0	2
174	Characteristics of Protein-Polymer Nanobiocomposite Films for Protein Devices. Journal of Nanoscience and Nanotechnology, 2012, 12, 1226-1229.	0.9	2
175	Polymer Solar Cells with Micrometer-Scale Engraved Active Nanolayers Fabricated by Pressing with Metal Molds. Energy Technology, 2014, 2, 713-720.	1.8	2
176	Hybrid Solar Cells With Polymeric Bulk Heterojunction Layers Containing Inorganic Nanoparticles. IEEE Journal of Photovoltaics, 2016, 6, 924-929.	1.5	2
177	Organic Photodetectors. , 2018, , 317-330.		2
178	Influence of UV-Ozone Treatment to Hole-Collecting Buffer Layer on the Performance of Polymer Solar Cells. Journal of Nanoelectronics and Optoelectronics, 2010, 5, 195-198.	0.1	2
179	Effect of Oxygen Plasma Treatment on p-Type Electrical Properties of Amorphous La ₂ NiO ₄₊ Thin Films. Journal of Nanoelectronics and Optoelectronics, 2015, 10, 475-479.	0.1	2
180	Optoelectronic Characteristics of Devices with Conducting Polymer Layers: A Planar Sensor Approach. Journal of Nanoelectronics and Optoelectronics, 2015, 10, 440-443.	0.1	2

#	ARTICLE	IF	CITATIONS
181	Photogenerated Charge-Aided Low-Voltage Operation of n-Channel Organic Transistors with n-Type Conjugated Polymersâ€™€Toward Photosensor Applications. ACS Applied Polymer Materials, 2021, 3, 6056-6062.	2.0	2
182	Near Infrared Lightâ€™Sensing Organic Lightâ€™Dependent Resistors Based on Dialkoxybenzothiadiazoleâ€™Containing Conjugated Polymer. Physica Status Solidi (A) Applications and Materials Science, 0, , 2200068.	0.8	2
183	Resorcinol-functionalized carbon nanoparticles with a stick-out nanostructure for stable hydrogen bonding with polyester microfibers. RSC Advances, 2013, 3, 19440.	1.7	1
184	Wide band gap triarylamine derivative doped with organosulfonic acid and its application for organic light-emitting devices. Journal of Organic Semiconductors, 2013, 1, 22-29.	1.2	1
185	Influence of Nickel(II) Oxide Nanoparticle Addition on the Performance of Organic Field Effect Transistors. Journal of Nanoscience and Nanotechnology, 2013, 13, 6016-6019.	0.9	1
186	Nitrogen Ion Beamâ€™Mediated Dry Patterning of Conjugated Polymer Films for Organic Fieldâ€™Effect Transistors. Advanced Electronic Materials, 2016, 2, 1600115.	2.6	1
187	Broadbandâ€™Solubility Diketopyrrolopyrrole Derivative with Both Polar Cyano and Nonpolar Alkyl Groups for Stable Organic Photosensors and Diffusionâ€™Processed Organic Solar Cells. ChemistrySelect, 2016, 1, 1716-1722.	0.7	1
188	Terahertz Spectroscopy Study of Weak Base-Treated Conducting Polymer Films and Applications for Polymer Solar Cells. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-8.	1.9	1
189	Influence of Weak Base Addition to Hole-Collecting Buffer Layers in Polymer:Fullerene Solar Cells. Molecules, 2017, 22, 262.	1.7	1
190	Preface to the Special Issue of ChemSusChem on Advanced Organic Solar Cells. ChemSusChem, 2021, 14, 3426-3427.	3.6	1
191	Near Infrared Organic Phototransistors With Blend Gate Sensing Layers Consisting of Conjugated and Insulating Polymers. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-8.	1.9	1
192	Hybrid Solar Cells Based on Bulk Heterojunction Films of Conjugated Polymers and Single Crystalline Si Nanowires. Journal of Nanoelectronics and Optoelectronics, 2010, 5, 139-142.	0.1	1
193	Influence of Co-Solvents on the Performance of Polymer/Polymer Solar Cells. Journal of Nanoelectronics and Optoelectronics, 2010, 5, 165-169.	0.1	1
194	Effect of Co-Solvents on the Performance of All-Polymer Solar Cells Using a New Electron-Accepting Polymer. Journal of Nanoelectronics and Optoelectronics, 2012, 7, 479-482.	0.1	1
195	Polymer Solar Cells with Micro-Patterned Bulk Heterojunction Layers. Journal of Nanoelectronics and Optoelectronics, 2013, 8, 557-560.	0.1	1
196	Melting Effect of Hole-Injecting Layer on the Performance of Passive Matrix Organic Light-Emitting Displays. The Open Physical Chemistry Journal, 2008, 2, 13-16.	0.4	1
197	Hybrid Solar Cells with In-Situ Prepared Inorganic Nanoparticles/Polymer Bulk Heterojunction Films. Journal of Nanoelectronics and Optoelectronics, 2012, 7, 434-438.	0.1	1
198	Dielectric properties of inorganic-organic silica-polyimide composite films prepared via sol-gel and thermal imidization processes. , 0, , .		0

#	ARTICLE	IF	CITATIONS
199	Polyimide as a Plastic Substrate for the Flexible Organic Electroluminescent Device. Materials Research Society Symposia Proceedings, 2004, 814, 278.	0.1	0
200	Polymeric Network Nanolayers for Hybrid Organic Light Emitting Devices. , 2009, , .		0
201	Pivotal Role of Middle Subcell Thickness on the Performance of Triple-junction Tandem Polymer Solar Cells. Solar Rrl, 2020, 4, 2000355.	3.1	0
202	Persistent electrical energy generation from organic diodes under constant pressure: Toward organic gravity nanogenerators. IScience, 2021, 24, 102546.	1.9	0
203	Performance and Stability of Polymer:Nonfullerene Solar Cells with 100°C Annealed Electron-Collecting Combination Layers. ChemSusChem, 2021, 14, 3488-3493.	3.6	0
204	Performance and Stability of Polymer:Nonfullerene Solar Cells with 100°C Annealed Electron-Collecting Combination Layers. ChemSusChem, 2021, 14, 3425-3425.	3.6	0
205	Influence of pressing on the nanostructure and electrical properties of semiconducting polymer nanolayers. Journal of the Korean Physical Society, 2010, 56, 2100-2103.	0.3	0
206	Effect of Low Work Function Electrode and Annealing in Polymer:Polymer Solar Cells. Journal of Nanoelectronics and Optoelectronics, 2011, 6, 258-263.	0.1	0
207	Influence of Nitrogen and Hydrogen Ion Beams on the Optical Absorption and the Ionization Potential of Poly(3-hexylthiophene) Films. Journal of the Korean Physical Society, 2011, 59, 648-652.	0.3	0
208	Influence of Solvent Mixture on the Performance of Polymer:Polymer Solar Cells. Journal of Nanoelectronics and Optoelectronics, 2011, 6, 297-300.	0.1	0
209	Enhanced Power Conversion Efficiency of Polymer Solar Cells Through the Use of 4-Fluorobenzonitrile as an Additive. Journal of Nanoelectronics and Optoelectronics, 2011, 6, 338-342.	0.1	0
210	Thickness Effect of Electron-Donating Polymer Layers in Bilayer-Type All-Polymer Solar Cells. Journal of Nanoelectronics and Optoelectronics, 2013, 8, 514-518.	0.1	0
211	Characteristics of Photodetectors Fabricated with Fullerene Derivatives: Influence of Light Intensity and Voltage. Journal of Nanoelectronics and Optoelectronics, 2015, 10, 494-497.	0.1	0
212	Characteristics of Organic Field-Effect Transistors with Quick-Annealed Polymer Channel Layers at High Temperature. Journal of Nanoelectronics and Optoelectronics, 2017, 12, 557-560.	0.1	0
213	Effect of Short-Time Annealing on the Performance of Polymer:Fullerene Solar Cells. Journal of Nanoelectronics and Optoelectronics, 2017, 12, 607-610.	0.1	0
214	Water-Soluble Reactive Polymer Blends for Stable Memory Layers in Low-Voltage Nonvolatile Organic Memory Transistors with High Mobility and Data-Retention Characteristics. Macromolecular Rapid Communications, 2022, , 2100922.	2.0	0
215	Polymer solar cells with ternary blend nanolayers. Journal of Nanoscience and Nanotechnology, 2008, 8, 6247-52.	0.9	0
216	Thickness Effect of Polar Polymer Films on the Characteristics of Organic Memory Transistors. Macromolecular Research, 2021, 29, 882-886.	1.0	0

#	ARTICLE	IF	CITATIONS
217	Near infrared light-sensing semi-transparent organic phototransistors with soluble benzothiadiazole-based conjugated polymer films. <i>Materials Chemistry and Physics</i> , 2022, , 126223.	2.0	0