

Yeong Don Park

List of Publications by Year in Descending Order

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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.

93 papers	4,174 citations	33 h-index	64 g-index
100 ext. papers	4,512 ext. citations	6.3 avg, IF	5.37 L-index

Rank	Article Title	Journal	Year	Volume	Issue	Pages	DOI	Impact Factor	Citations
93	Polythiophene hybrid film with zirconium porphyrin metal-organic framework for improved charge carrier transport and NO ₂ gas sensing. <i>Materials Chemistry and Physics</i> , 2022 , 278, 125661	<i>Materials Chemistry and Physics</i>	2022	278		125661		4.4	0
92	Enhancement of NO ₂ gas sensing ability through strong binding energy by modification of interface characteristics. <i>Organic Electronics</i> , 2022 , 104, 106493	<i>Organic Electronics</i>	2022	104		106493		3.5	1
91	Advanced Organic Transistor-Based Sensors Utilizing a Solvatochromic Medium with Twisted Intramolecular Charge-Transfer Behavior and Its Application to Ammonia Gas Detection. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 56385-56393	<i>ACS Applied Materials & Interfaces</i>	2021	13		56385-56393		9.5	3
90	Mass-Scalable Molecular Monolayer for Ni-Rich Cathode Powder: Solution for Microcrack Failure in Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 22475-22484	<i>ACS Applied Materials & Interfaces</i>	2021	13		22475-22484		9.5	4
89	Ultraviolet-Light-Induced Growth of 6,13-Bis(triisopropylsilylethynyl)pentacene Spherulites. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 10835-10839	<i>Journal of Physical Chemistry C</i>	2021	125		10835-10839		3.8	
88	Metal-Organic Framework as a Functional Analyte Channel of Organic-Transistor-Based Air Pollution Sensors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 24005-24012	<i>ACS Applied Materials & Interfaces</i>	2021	13		24005-24012		9.5	4
87	Conjugated polymer-zeolite hybrids for robust gas sensors: Effect of zeolite surface area on NO ₂ sensing ability. <i>Chemical Engineering Journal</i> , 2021 , 420, 129588	<i>Chemical Engineering Journal</i>	2021	420		129588		14.7	9
86	Electron-interfered field-effect transistors as a sensing platform for detecting a delicate surface chemical reaction. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 8179-8188	<i>Journal of Materials Chemistry C</i>	2021	9		8179-8188		7.1	
85	Ni-Rich Layered Cathode Materials by a Mechanochemical Method for High-Energy Lithium-Ion Batteries. <i>ChemistrySelect</i> , 2020 , 5, 14596-14601	<i>ChemistrySelect</i>	2020	5		14596-14601		1.8	1
84	Effect of Alcohol Polarity on the Aggregation and Film-Forming Behaviors of Poly(3-hexylthiophene). <i>ACS Applied Polymer Materials</i> , 2020 , 2, 2980-2986	<i>ACS Applied Polymer Materials</i>	2020	2		2980-2986		4.3	2
83	Influence of organic additive on the electrochemical performance of LiFePO ₄ cathode in an aqueous electrolyte solution. <i>Solid State Sciences</i> , 2020 , 101, 106152	<i>Solid State Sciences</i>	2020	101		106152		3.4	
82	Effect of localized UV irradiation on the crystallinity and electrical properties of dip-coated polythiophene thin films.. <i>RSC Advances</i> , 2020 , 10, 34130-34136	<i>RSC Advances</i>	2020	10		34130-34136		3.7	4
81	Improving molecular structure in polythiophene thin films by solvent dipping post-treatment. <i>Materials Chemistry and Physics</i> , 2020 , 247, 122878	<i>Materials Chemistry and Physics</i>	2020	247		122878		4.4	3
80	Uniform and Reliable Dip-Coated Conjugated Polymers for Organic Transistors as Obtained by Solvent Vapor Annealing. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 23255-23263	<i>Journal of Physical Chemistry C</i>	2019	123		23255-23263		3.8	14
79	Tailoring the crystallinity of solution-processed 6,13-bis(triisopropylsilylethynyl)pentacene via controlled solidification. <i>Soft Matter</i> , 2019 , 15, 7369-7373	<i>Soft Matter</i>	2019	15		7369-7373		3.6	6
78	Built-in Water Capture in a Polythiophene Film Blended with Metal-Organic Frameworks. <i>Macromolecular Research</i> , 2019 , 27, 421-426	<i>Macromolecular Research</i>	2019	27		421-426		1.9	5
77	The solid electrolytes Li ₂ O·nF·2WO ₄ ·B ₂ O ₃ with enhanced ionic conductivity for lithium-ion battery. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 73, 62-66	<i>Journal of Industrial and Engineering Chemistry</i>	2019	73		62-66		6.3	2

76	Effect of Crystallization Modes in TIPS-pentacene/Insulating Polymer Blends on the Gas Sensing Properties of Organic Field-Effect Transistors. <i>Scientific Reports</i> , 2019 , 9, 21	4.9	4 ¹
75	Effect of solvent structural isomer on microstructural evolution in polythiophene film during solidification. <i>Organic Electronics</i> , 2019 , 71, 150-155	3.5	4
74	Highly crystalline and uniform conjugated polymer thin films by a water-based biphasic dip-coating technique minimizing the use of halogenated solvents for transistor applications.. <i>RSC Advances</i> , 2019 , 9, 6356-6362	3.7	3
73	Aqueous Lithium-Ion Battery of Nano-LiFePO ₄ with Antifreezing Agent of Ethyleneglycol for Low-Temperature Operation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 14531-14538	8.3	3 ¹
72	Carbon-caged palladium catalysts supported on carbon nanofibers for proton exchange membrane fuel cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 79, 431-436	6.3	6
71	Influence of Molecular Weight on the Solidification of a Semiconducting Polymer during Time-Controlled Spin-Coating. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 17102-17111	3.8	8
70	Artificially coated NaFePO ₄ for aqueous rechargeable sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 784, 720-726	5.7	21
69	Metal-organic frameworks in a blended polythiophene hybrid film with surface-mediated vertical phase separation for the fabrication of a humidity sensor.. <i>RSC Advances</i> , 2018 , 9, 529-535	3.7	13
68	Ultrasonication-Mediated Self-Assembly in Polythiophene Films via Control of Residual Solvent Evaporation. <i>Macromolecular Research</i> , 2018 , 26, 139-144	1.9	6
67	Effect of Solvent Exchange at the Biphasic Dip-Coating Interface on the Formation of Polythiophene Thin Films. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 2432-2439	3.8	10
66	Floating-non-solvent method for inducing the formation of highly crystalline conjugated polymer nanofibrils in the solution state for high-performance organic transistors. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 8353-8359	7.1	9
65	Ultraviolet irradiation creates morphological order via conformational changes in polythiophene films. <i>Organic Electronics</i> , 2018 , 62, 394-399	3.5	4
64	Tuning Electrical Properties of 2D Materials by Self-Assembled Monolayers. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1700316	4.6	26
63	Enhanced ionic conductivity of the solid electrolyte for lithium-ion batteries. <i>Journal of Solid State Chemistry</i> , 2018 , 258, 467-470	3.3	10
62	Thiophene-initiated polymeric artificial cathode-electrolyte interface for Ni-rich cathode material. <i>Electrochimica Acta</i> , 2018 , 290, 465-473	6.7	24
61	1D versus 2D Growth of Soluble Acene Crystals from Soluble Acene/Polymer Blends Governed by a Residual Solvent Reservoir in a Phase-Separated Polymer Matrix. <i>Advanced Functional Materials</i> , 2018 , 28, 1802875	15.6	14
60	Surface-Mediated Solidification of a Semiconducting Polymer during Time-Controlled Spin-Coating. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9871-9879	9.5	24
59	Post surface treatment of LiNi _{0.6} Co _{0.1} Mn _{0.3} O ₂ electrode with poly(4-vinylphenol) for lithium ion batteries. <i>Electrochimica Acta</i> , 2017 , 246, 51-58	6.7	14

58	Solution Processing with a Good Solvent Additive for Highly Reliable Organic Thin-Film Transistors. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 13930-13937	3.8	27
57	Surface Modification of the LiFePO Cathode for the Aqueous Rechargeable Lithium Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 12391-12399	9.5	70
56	Surface Modification of LiCoO ₂ by NASICON-Type Ceramic Materials for Lithium Ion Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 4977-4982	1.3	7
55	Synthesis of the solid electrolyte Li ₂ O·BF ₃ ·2O ₂ and its application for lithium-ion batteries. <i>Solid State Ionics</i> , 2017 , 308, 40-45	3.3	6
54	Inkjet Etching of Polymers and Its Applications in Organic Electronic Devices. <i>Polymers</i> , 2017 , 9,	4.5	12
53	AlF ₃ -coated LiMn ₂ O ₄ as cathode material for aqueous rechargeable lithium battery with improved cycling stability. <i>Journal of Power Sources</i> , 2016 , 325, 360-364	8.9	91
52	Doped PEDOT:PSS electrodes, patterned through wettability control, and their effects on the electrical properties of polymer thin film transistors. <i>Organic Electronics</i> , 2016 , 30, 296-301	3.5	16
51	Inkjet-Printed Organic Transistors Based on Organic Semiconductor/Insulating Polymer Blends. <i>Materials</i> , 2016 , 9,	3.5	33
50	Marginal solvents preferentially improve the molecular order of thin polythiophene films. <i>RSC Advances</i> , 2016 , 6, 23640-23644	3.7	6
49	Effect of the Cooling Rate on the Thermal Properties of a Polythiophene Thin Film. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 8388-8393	3.8	9
48	Understanding Solidification of Polythiophene Thin Films during Spin-Coating: Effects of Spin-Coating Time and Processing Additives. <i>Scientific Reports</i> , 2015 , 5, 13288	4.9	91
47	Charge transport behaviors of end-capped narrow band gap polymers in bottom-contact organic field-effect transistors. <i>RSC Advances</i> , 2014 , 4, 39268-39272	3.7	14
46	Built-in water resistance in organic transistors modified with self-assembled monolayers. <i>RSC Advances</i> , 2014 , 4, 45082-45087	3.7	6
45	Preparation of highly conductive reduced graphite oxide/poly(styrene-co-butyl acrylate) composites via miniemulsion polymerization. <i>Polymer</i> , 2014 , 55, 5088-5094	3.9	14
44	Sequential solvent casting for improving the structural ordering and electrical characteristics of polythiophene thin films. <i>RSC Advances</i> , 2014 , 4, 41159-41163	3.7	18
43	Organic Semiconductor/Insulator Polymer Blends for High-Performance Organic Transistors. <i>Polymers</i> , 2014 , 6, 1057-1073	4.5	59
42	Electrical Performance of Organic Solar Cells with Additive-Assisted Vertical Phase Separation in the Photoactive Layer. <i>Advanced Energy Materials</i> , 2014 , 4, 1300612	21.8	63
41	The Molecular Structures of Poly(3-hexylthiophene) Films Determine the Contact Properties at the Electrode/Semiconductor Interface. <i>Bulletin of the Korean Chemical Society</i> , 2014 , 35, 2277-2280	1.2	6

40	Low Spin-Casting Solution Temperatures Enhance the Molecular Ordering in Polythiophene Films. <i>Bulletin of the Korean Chemical Society</i> , 2014 , 35, 1491-1494	1.2	
39	Electrical Characteristics Enhancement of Conjugated Polymer Thin Film Transistor by Using Dipping Method. <i>Porrime</i> , 2014 , 38, 188-192	1	
38	Evaporation-induced self-alignment and transfer of semiconductor nanowires by wrinkled elastomeric templates. <i>Advanced Materials</i> , 2013 , 25, 2162-6	24	57
37	Alkyl Side Chain Length Modulates the Electronic Structure and Electrical Characteristics of Poly(3-alkylthiophene) Thin Films. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 11764-11769	3.8	16
36	Fabrication of stable electrospun TiO ₂ nanorods for high-performance dye-sensitized solar cells. <i>Macromolecular Research</i> , 2013 , 21, 636-640	1.9	18
35	Polyelectrolyte interlayer for ultra-sensitive organic transistor humidity sensors. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 8591-6	9.5	39
34	Semiconductor Nanowires: Evaporation-Induced Self-Alignment and Transfer of Semiconductor Nanowires by Wrinkled Elastomeric Templates (Adv. Mater. 15/2013). <i>Advanced Materials</i> , 2013 , 25, 2106-2106	24	106
33	High Molecular Weight Conjugated Polymer Thin Films with Enhanced Molecular Ordering, Obtained via a Dipping Method. <i>Bulletin of the Korean Chemical Society</i> , 2013 , 34, 3340-3344	1.2	1
32	Post-deposition dipping method for improving the electronic properties of a narrow bandgap conjugated polymer. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11462		17
31	Aqueous/organic interfacial coordinative crystallization for achieving highly efficient metal glycine complex crystal growth. <i>Journal of Crystal Growth</i> , 2012 , 346, 27-31	1.6	1
30	End-capping effect of a narrow bandgap conjugated polymer on bulk heterojunction solar cells. <i>Advanced Materials</i> , 2011 , 23, 2430-5	24	158
29	Solubility-Controlled Structural Ordering of Narrow Bandgap Conjugated Polymers. <i>Advanced Energy Materials</i> , 2011 , 1, 63-67	21.8	38
28	A polymer brush organic interlayer improves the overlying pentacene nanostructure and organic field-effect transistor performance. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15580		60
27	Solubility-driven polythiophene nanowires and their electrical characteristics. <i>Journal of Materials Chemistry</i> , 2011 , 21, 2338-2343		49
26	High field-effect mobility pentacene thin-film transistors with nanoparticle polymer composite/polymer bilayer insulators. <i>Applied Physics Letters</i> , 2009 , 94, 183301	3.4	46
25	Effect of H ₂ AuCl ₄ Doping on the Contact Properties of Polymer Thin-Film Transistors. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, H312		3
24	Solubility-Induced Ordered Polythiophene Precursors for High-Performance Organic Thin-Film Transistors. <i>Advanced Functional Materials</i> , 2009 , 19, 1200-1206	15.6	190
23	Enhancement of Field-Effect Mobility and Stability of Poly(3-hexylthiophene) Field-Effect Transistors by Conformational Change. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 1705-1710	3.8	39

22	High performance polythiophene thin-film transistors doped with very small amounts of an electron acceptor. <i>Applied Physics Letters</i> , 2008 , 92, 063310	3.4	103
21	Self-Organization of Ink-jet-Printed Triisopropylsilylethynyl Pentacene via Evaporation-Induced Flows in a Drying Droplet. <i>Advanced Functional Materials</i> , 2008 , 18, 229-234	15.6	358
20	Enhancement of the field-effect mobility of poly(3-hexylthiophene)/functionalized carbon nanotube hybrid transistors. <i>Organic Electronics</i> , 2008 , 9, 317-322	3.5	61
19	Interface engineering in organic transistors. <i>Materials Today</i> , 2007 , 10, 46-54	21.8	248
18	Energy-Level Alignment at Interfaces between Gold and Poly(3-hexylthiophene) Films with two Different Molecular Structures. <i>AIP Conference Proceedings</i> , 2007 ,	0	2
17	Effects of the permanent dipoles of self-assembled monolayer-treated insulator surfaces on the field-effect mobility of a pentacene thin-film transistor. <i>Applied Physics Letters</i> , 2007 , 90, 132104	3.4	83
16	Solution-processable pentacene microcrystal arrays for high performance organic field-effect transistors. <i>Applied Physics Letters</i> , 2007 , 90, 132106	3.4	129
15	Single-Crystal Polythiophene Microwires Grown by Self-Assembly. <i>Advanced Materials</i> , 2006 , 18, 719-723	24	239
14	Patterning the organic electrodes of all-organic thin film transistors with a simple spray printing technique. <i>Applied Physics Letters</i> , 2006 , 89, 183501	3.4	20
13	Reactive metal contact at indium tin oxide/self-assembled monolayer interfaces. <i>Applied Physics Letters</i> , 2006 , 88, 102104	3.4	11
12	Enhancement of Electron Injection Using Reactive Self-Assembled Monolayer in Organic Electronic Devices. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, G147		6
11	Solvent effect of inkjet printed source/drain electrodes on electrical properties of polymer thin-film transistors. <i>Applied Physics Letters</i> , 2006 , 88, 082102	3.4	79
10	Energy-Level Alignment at Interfaces Between Gold and Poly(3-hexylthiophene) Films with Two Different Molecular Structures. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, G317		36
9	Layered Molecular Ordering of Self-Organized Poly(3-hexylthiophene) Thin Films on Hydrophobized Surfaces. <i>Macromolecules</i> , 2006 , 39, 5843-5847	5.5	70
8	Low-voltage and high-field-effect mobility organic transistors with a polymer insulator. <i>Applied Physics Letters</i> , 2006 , 88, 072101	3.4	121
7	Controlled one-dimensional nanostructures in poly(3-hexylthiophene) thin film for high-performance organic field-effect transistors. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 15763-8	3.4	95
6	Effect of side chain length on molecular ordering and field-effect mobility in poly(3-alkylthiophene) transistors. <i>Organic Electronics</i> , 2006 , 7, 514-520	3.5	128
5	Low-voltage polymer thin-film transistors with a self-assembled monolayer as the gate dielectric. <i>Applied Physics Letters</i> , 2005 , 87, 243509	3.4	69

4	Surface-induced conformational changes in poly(3-hexylthiophene) monolayer films. <i>Langmuir</i> , 2005 , 21, 3203-6	4	91
3	Enhancement of Field-Effect Mobility Due to Surface-Mediated Molecular Ordering in Regioregular Polythiophene Thin Film Transistors. <i>Advanced Functional Materials</i> , 2005 , 15, 77-82	15.6	418
2	Solvent Vapor-Induced Nanowire Formation in Poly(3-hexylthiophene) Thin Films. <i>Macromolecular Rapid Communications</i> , 2005 , 26, 834-839	4.8	120
1	Influence of the dielectric constant of a polyvinyl phenol insulator on the field-effect mobility of a pentacene-based thin-film transistor. <i>Applied Physics Letters</i> , 2005 , 87, 152105	3.4	73