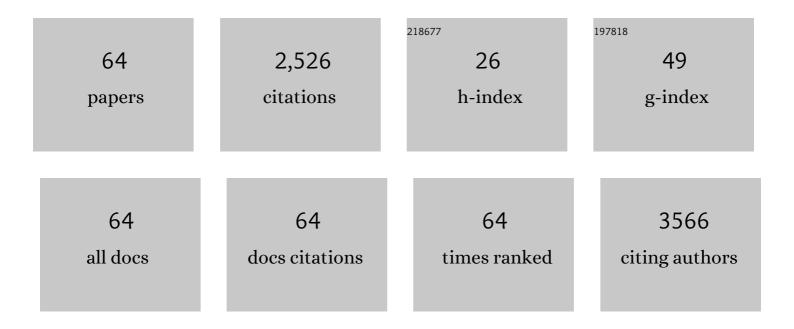
## Bogyu Lim

## List of Publications by Year in descending order

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BOCYULIM

#	Article	IF	CITATIONS
1	High Performance Weak Donor–Acceptor Polymers in Thin Film Transistors: Effect of the Acceptor on Electronic Properties, Ambipolar Conductivity, Mobility, and Thermal Stability. Journal of the American Chemical Society, 2011, 133, 20799-20807.	13.7	353
2	Polarity Effects of Polymer Gate Electrets on Nonâ€Volatile Organic Fieldâ€Effect Transistor Memory. Advanced Functional Materials, 2008, 18, 3678-3685.	14.9	256
3	Waterâ€Soluble Polyfluorenes as an Interfacial Layer Leading to Cathodeâ€Independent High Performance of Organic Solar Cells. Advanced Functional Materials, 2010, 20, 1977-1983.	14.9	195
4	A New Poly(thienylenevinylene) Derivative with High Mobility and Oxidative Stability for Organic Thinâ€Film Transistors and Solar Cells. Advanced Materials, 2009, 21, 2808-2814.	21.0	118
5	Ambipolarity in Benzobisthiadiazoleâ€Based Donor–Acceptor Conjugated Polymers. Advanced Materials, 2011, 23, 3780-3785.	21.0	113
6	Synthesis of a New Cross-Linkable Perfluorocyclobutane-Based Hole-Transport Material. Organic Letters, 2006, 8, 4703-4706.	4.6	73
7	Highly Soluble Poly(thienylenevinylene) Derivatives with Charge-Carrier Mobility Exceeding 1 cm2V–1s–1. Chemistry of Materials, 2011, 23, 4663-4665.	6.7	72
8	Surface plasmon enhanced photoluminescence of conjugated polymers. Applied Physics Letters, 2007, 90, 161107.	3.3	70
9	Synthesis of a Double Spiro-Polyindenofluorene with a Stable Blue Emission. Organic Letters, 2005, 7, 4229-4232.	4.6	69
10	Silicon-Naphthalo/Phthalocyanine-Hybrid Sensitizer for Efficient Red Response in Dye-Sensitized Solar Cells. Organic Letters, 2013, 15, 784-787.	4.6	67
11	Optimal Ambipolar Charge Transport of Thienylenevinylene-Based Polymer Semiconductors by Changes in Conformation for High-Performance Organic Thin Film Transistors and Inverters. Chemistry of Materials, 2013, 25, 1572-1583.	6.7	55
12	Ternary Bulk Heterojunction Solar Cells: Addition of Soluble NIR Dyes for Photocurrent Generation beyond 800 nm. ACS Applied Materials & Interfaces, 2014, 6, 6905-6913.	8.0	55
13	High Performance Solution Processed Organic Field Effect Transistors with Novel Diketopyrrolopyrrole-Containing Small Molecules. Scientific Reports, 2017, 7, 164.	3.3	51
14	Synthesis and Characterization of Spiro-Triphenylamine Configured Polyfluorene Derivatives with Improved Hole Injection. Macromolecules, 2006, 39, 6433-6439.	4.8	50
15	New Donor–Donor Type Copolymers with Rigid and Coplanar Structures for High-Mobility Organic Field-Effect Transistors. Chemistry of Materials, 2014, 26, 6907-6910.	6.7	49
16	Regioregular D <sub>1</sub> -A-D <sub>2</sub> -A Terpolymer with Controlled Thieno[3,4- <i>b</i> ]thiophene Orientation for High-Efficiency Polymer Solar Cells Processed with Nonhalogenated Solvents. Macromolecules, 2016, 49, 3328-3335.	4.8	46
17	High-Efficiency Organic Photovoltaics with Two-Dimensional Conjugated Benzodithiophene-Based Regioregular Polymers. Chemistry of Materials, 2017, 29, 4301-4310.	6.7	35
18	A Novel Thermally Reversible Solubleâ€Insoluble Conjugated Polymer with Semiâ€Fluorinated Alkyl Chains: Enhanced Transistor Performance by Fluorophobic Selfâ€Organization and Orthogonal Hydrophobic Patterning. Advanced Materials, 2013, 25, 6416-6422.	21.0	34

Водуи Lim

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19	Synthesis and characterization of low-band-gap poly(thienylenevinylene) derivatives for polymer solar cells. Journal of Materials Chemistry, 2011, 21, 11822.	6.7	33
20	Diketopyrrolopyrrole-based conjugated polymer for printed organic field-effect transistors and gas sensors. Dyes and Pigments, 2017, 140, 244-249.	3.7	33
21	Synthesis of novel arylamine containing perfluorocyclobutane and its electrochromic properties. Journal of Materials Chemistry, 2009, 19, 2380.	6.7	32
22	A regioregular donor–acceptor copolymer allowing a high gain–bandwidth product to be obtained in photomultiplication-type organic photodiodes. Materials Horizons, 2021, 8, 276-283.	12.2	32
23	A feasible random copolymer approach for high-efficiency polymeric photovoltaic cells. Journal of Materials Chemistry A, 2016, 4, 11439-11445.	10.3	30
24	A morphology controller for high-efficiency bulk-heterojunction polymer solar cells. Journal of Materials Chemistry, 2010, 20, 10919.	6.7	28
25	Synthesis and Photovoltaic Properties of a Thienylenevinylene and Diketopyrrolopyrrole Copolymer with High Mobility. Macromolecular Rapid Communications, 2011, 32, 1551-1556.	3.9	28
26	Morphology-Dependent Hole Transfer under Negligible HOMO Difference in Non-Fullerene Acceptor-Based Ternary Polymer Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 7208-7215.	8.0	28
27	Highly soluble small-molecule organic semiconductor with trihexylsilyloxy side chain for high-performance organic field-effect transistors with mobility of up to 3.10Âcm 2 ÂV â^'1 s â^'1. Dyes and Pigments, 2017, 142, 17-23.	3.7	26
28	Highly soluble energy relay dyes for dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2013, 15, 11306.	2.8	25
29	Effect of photo- and thermo-oxidative degradation on the performance of hybrid photovoltaic cells with a fluorene-based copolymer and nanocrystalline TiO <sub>2</sub> . Journal of Materials Chemistry, 2008, 18, 654-659.	6.7	24
30	Chromophore-Free photonic multilayer films for the ultra-sensitive colorimetric detection of nerve agent mimics in the vapor phase. Sensors and Actuators B: Chemical, 2020, 323, 128698.	7.8	24
31	Newly Synthesized Nonvacuum Processed Highâ€k Polymeric Dielectrics with Carboxyl Functionality for Highly Stable Operating Printed Transistor Applications. Advanced Functional Materials, 2021, 31, 2007304.	14.9	23
32	Precisely Tunable Humidity Color Indicator Based on Photonic Polymer Films. Macromolecules, 2021, 54, 621-628.	4.8	23
33	Electrochemical and electrochromic properties of diketopyrrolopyrrole-based conjugated polymer. Electrochemistry Communications, 2017, 83, 102-105.	4.7	19
34	Highly efficient polymer solar cells with a thienopyrroledione and benzodithiophene containing planar random copolymer. Polymer Chemistry, 2018, 9, 1216-1222.	3.9	19
35	Bisâ€Diketopyrrolopyrrole and Carbazoleâ€Based Terpolymer for High Performance Organic Fieldâ€Effect Transistors and Infraâ€Red Photodiodes. Macromolecular Chemistry and Physics, 2019, 220, 1900287.	2.2	19
36	Reducing Trapâ€Assisted Recombination in Small Organic Moleculeâ€Based Photovoltaics by the Addition of a Conjugated Block Copolymer. Macromolecular Rapid Communications, 2018, 39, 1700630.	3.9	18

Восуи Lim

#	Article	IF	CITATIONS
37	Fluorinated benzothiadiazole and indacenodithieno[3,2-b]thiophene based regioregular-conjugated copolymers for ambipolar organic field-effect transistors and inverters. RSC Advances, 2017, 7, 1110-1117.	3.6	17
38	Synergistic Effects of Terpolymer Regioregularity on the Performance of All-Polymer Solar Cells. Macromolecules, 2019, 52, 738-746.	4.8	17
39	Thienopyrroledione and benzodithiophene/thiophene-based random terpolymer for polymer solar cells with improved fill factor. Dyes and Pigments, 2017, 140, 229-235.	3.7	16
40	A novel quinoxaline-based donor-acceptor type electrochromic polymer. Journal of Industrial and Engineering Chemistry, 2019, 70, 380-384.	5.8	16
41	Synthesis of an alternating thienylenevinylene–benzothiadiazole copolymer with high hole mobility for use in organic solar cells. Organic Electronics, 2010, 11, 1772-1778.	2.6	15
42	Orthogonal 4,10 and 6,12 substitution of dibenzo[def,mno]chrysene polycyclic aromatic small molecules. Journal of Materials Chemistry C, 2017, 5, 8723-8733.	5.5	15
43	A novel random terpolymer for high-efficiency bulk-heterojunction polymer solar cells. RSC Advances, 2017, 7, 1975-1980.	3.6	14
44	Highly π-extended small molecules with bis(alkylthio)methylene side chains for organic field-effect transistors. Journal of Materials Chemistry C, 2018, 6, 7604-7611.	5.5	14
45	Synthesis and electrochromic properties of a carbazole and diketopyrrolopyrrole-based small molecule semiconductor. Journal of Industrial and Engineering Chemistry, 2019, 80, 93-97.	5.8	14
46	Design and Synthesis of a New Nonâ€Fullerene Acceptor for Highâ€Performance Photomultiplicationâ€Type Organic Photodiodes. Advanced Optical Materials, 2021, 9, 2001836.	7.3	13
47	Synthesis and Characterization of Poly(Dithieno[3,2â€ <i>b</i> :2′,3′â€ <i>d</i> ]pyrrole) Derivatives Containing Thiophene Moieties and Their Application to Organic Devices. Macromolecular Chemistry and Physics, 2011, 212, 2308-2318.	2.2	12
48	Carbazole and rhodanine based donor molecule with improved processability for high performance organic photovoltaics. Dyes and Pigments, 2018, 151, 272-278.	3.7	12
49	Formation of Large Crystalline Domains in a Semiconducting Polymer with Semi-fluorinated Alkyl Side Chains and Application to High-Performance Thin-Film Transistors. ACS Applied Materials & Interfaces, 2020, 12, 49886-49894.	8.0	12
50	Background color dependent photonic multilayer films for anti-counterfeiting labeling. Nanoscale, 2022, 14, 5377-5383.	5.6	12
51	Conjugated Side Chain Tuning Effect of Indacenodithieno[3,2â€≺i>b]thiophene and Fluoroâ€Benzothiadiazoleâ€Based Regioregular Copolymers for Highâ€Performance Organic Fieldâ€Effect Transistors. Macromolecular Chemistry and Physics, 2017, 218, 1700225.	2.2	11
52	Sequential "click―functionalization of mesoporous titania for energy-relay dye enhanced dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2015, 17, 6565-6571.	2.8	10
53	Efficient planar perovskite solar cells with a conjugated random terpolymer as a novel hole-transporting material. Dyes and Pigments, 2019, 160, 930-935.	3.7	10
54	Well-defined alternative polymer semiconductor using large size regioregular building blocks as monomers: electrical and electrochemical properties. Journal of Materials Chemistry C, 2018, 6, 5662-5670.	5.5	9

Восуи Lim

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55	Recent progress in lactamâ€based polymer semiconductors for organic electronic devices. Journal of Polymer Science, 2022, 60, 429-485.	3.8	9
56	Effect of molecular structure of benzo[1,2-b:4,5-b′]dithiophene-based push-pull type donor polymers on performance panchromatic organic photodiodes. Organic Electronics, 2020, 78, 105580.	2.6	8
57	Design, synthesis and photophysical properties of D1-A-D2-A-D1-type small molecules based on fluorobenzotriazole acceptor and dithienosilole core donor for solution processed organic solar cells. Dyes and Pigments, 2016, 132, 387-397.	3.7	7
58	Printed Large-Area Photovoltaic Modules Based on Small Molecules with Different Alkyl Terminal Chains. ACS Applied Energy Materials, 2019, 2, 8885-8893.	5.1	7
59	Enhancement of field effect mobility of poly(3-hexylthiophene) thin film transistors by soft-lithographical nanopatterning on the gate-dielectric surface. Applied Physics Letters, 2007, 91, 222108.	3.3	6
60	Silaindacenodithiophene based organic semiconductor for high performance organic field-effect transistors. Dyes and Pigments, 2017, 146, 520-528.	3.7	6
61	Highly soluble diketopyrrolopyrrole-based donor-acceptor type small molecule for electrochromic applications. Organic Electronics, 2018, 63, 23-28.	2.6	6
62	Photonic multilayers for ultrasensitive millisecond colorimetric discrimination between benzene, toluene, and xylene. Sensors and Actuators B: Chemical, 2022, 351, 130974.	7.8	6
63	Improving the Photostability of Small-Molecule-Based Organic Photovoltaics by Providing a Charge Percolation Pathway of Crystalline Conjugated Polymer. Polymers, 2020, 12, 2598.	4.5	4
64	Synthesis and photophysical properties of semiconductor molecules D1-A-D2-A-D1-type structure based on derivatives of quinoxaline and dithienosilole for organics solar cells. Organic Electronics, 2016, 39, 361-370.	2.6	3