Benjamin Nketia-Yawson

List of Publications by Year
in descending order

23 papers	702 citations	840776 11 h-index	642732 23 g-index
25 all docs	25 docs citations	25 times ranked	1139 citing authors

#	Article	IF	Citations
1	A Highly Planar Fluorinated Benzothiadiazoleâ€Based Conjugated Polymer for Highâ€Performance Organic Thinâ€Film Transistors. Advanced Materials, 2015, 27, 3045-3052.	21.0	159
2	Recent Progress on Highâ€Capacitance Polymer Gate Dielectrics for Flexible Lowâ€Voltage Transistors. Advanced Functional Materials, 2018, 28, 1802201.	14.9	139
3	Ultrahigh Mobility in Solutionâ€Processed Solidâ€State Electrolyteâ€Gated Transistors. Advanced Materials, 2017, 29, 1605685.	21.0	95
4	A Timely Synthetic Tailoring of Biaxially Extended Thienylenevinyleneâ€Like Polymers for Systematic Investigation on Fieldâ€Effect Transistors. Advanced Functional Materials, 2015, 25, 586-596.	14.9	54
5	Organic thin film transistor with conjugated polymers for highly sensitive gas sensors. Macromolecular Research, 2017, 25, 489-495.	2.4	46
6	Organic field-effect transistors processed by an environmentally friendly non-halogenated solvent blend. Journal of Materials Chemistry C, 2018, 6, 661-667.	5.5	29
7	Polymer Electrolyte Blend Gate Dielectrics for High-Performance Ultrathin Organic Transistors: Toward Favorable Polymer Blend Miscibility and Reliability. ACS Applied Materials & Interfaces, 2019, 11, 17610-17616.	8.0	26
8	High-capacitance polyurethane ionogels for low-voltage operated organic transistors and pressure sensors. Journal of Materials Chemistry C, 2020, 8, 17107-17113.	5.5	23
9	Difluorobenzothiadiazole and Selenophene-Based Conjugated Polymer Demonstrating an Effective Hole Mobility Exceeding 5 cm² V^{â€“1} s^{â€“1} with Solid-State Electrolyte Dielectric. ACS Applied Materials & Interfaces, 2018, 10, 32492-32500.	8.0	22
10	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
11	Configurationally Random Polythiophene for Improved Polymer Ordering and Charge-Transporting Ability. ACS Applied Materials & Interfaces, 2020, 12, 40599-40606.	8.0	16
12	Conjugated Side Chain Tuning Effect of Indacenodithieno[3,2â€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
13	Low-voltage operated solid-state electrolyte-gated ambipolar organic field-effect transistors. Organic Electronics, 2018, 52, 257-263.	2.6	10
14	Solidâ€State Electrolyte Dielectrics Based on Exceptional Highâ€k P(VDFâ€TrFEâ€CTFE) Terpolymer for Highâ€Performance Fieldâ€Effect Transistors. Advanced Materials Interfaces, 2020, 7, 2000842.	3.7	10
15	<scp>Structurallyâ€tuned</scp> benzo[1,2â€b:4,5:b']<scp>dithiopheneâ€based</scp> polymer as a <scp>dopantâ€free</scp> hole transport material for perovskite solar cells. Journal of Polymer Science, 2022, 60, 985-991.	3.8	9
16	Understanding Effects of Ion Diffusion on Charge Carrier Mobility of Electrolyteâ€Gated Organic Transistor Using Ionic Liquidâ€Embedded Poly(3â€hexylthiophene). Advanced Functional Materials, 2022, 32, 2108215.	14.9	8
17	Effect of vacuum metalized gate electrode in top-gate solid-state electrolyte-gated organic transistors. Organic Electronics, 2018, 55, 63-68.	2.6	6
18	Improved Electron Transport in Ambipolar Organic Field-Effect Transistors with PMMA/Polyurethane Blend Dielectrics. Macromolecular Research, 2020, 28, 1248-1252.	2.4	6

#	Article	IF	Citations
19	Random copolymerization of polythiophene for simultaneous enhancement of inâ€plane and outâ€ofâ€plane charge transport for organic transistors and perovskite solar cells. International Journal of Energy Research, 2021, 45, 7998-8007.	4.5	5
20	Exploring low-k dielectrics as structuring polymers for solid-state electrolyte-gated transistors. Organic Electronics, 2019, 75, 105434.	2.6	3
21	High-mobility amorphous PTB7 organic transistors enabled by high-capacitance electrolyte dielectric. Applied Physics Letters, 2021, 119, .	3.3	3
22	Stable electrolyte dielectric engineered bottom-gate poly(3-hexylthiophene) transistors with enhanced mobility. Organic Electronics, 2022, 102, 106430.	2.6	2
23	Influence of Gate Voltage Operation on Effective Mobility of Electrolyte-Gated Organic Transistors. Macromolecular Research, 2022, 30, 707-711.	2.4	2