Chan Eon Park

List of Publications by Year
in descending order

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176 papers	5,786 citations	71102 41 h-index	102487 66 g-index
183 all docs	183 docs citations	183 times ranked	6744 citing authors

#	Article	IF	Citations
1	The Hidden Potential of Polysilsesquioxane for Highâ€k: Analysis of the Origin of its Dielectric Nature and Practical Lowâ€Voltageâ€Operating Applications beyond the Unit Device. Advanced Functional Materials, 2022, 32, 2104030.	14.9	13
2	Printable Ultraâ€Flexible Fluorinated Organicâ€“Inorganic Nanohybrid Solâ€“Gel Derived Gate Dielectrics for Highly Stable Organic Thinâ€Film Transistors and Other Practical Applications. Advanced Functional Materials, 2021, 31, 2009539.	14.9	27
3	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
4	Advanced Side-Impermeability Characteristics of Fluorinated Organic-Inorganic Nanohybrid Materials for Thin Film Encapsulation. Macromolecular Research, 2021, 29, 313-320.	2.4	3
5	A Solution-Processed Cathode Interfacial Layer Facilitates Efficient Energy Level Alignment in Organic Photovoltaics. Journal of Physical Chemistry C, 2021, 125, 20067-20075.	3.1	1
6	Strategy for Selective Printing of Gate Insulators Customized for Practical Application in Organic Integrated Devices. ACS Applied Materials & Interfaces, 2021, 13, 1043-1056.	8.0	20
7	Electrohydrodynamic-Jet-Printed Cinnamate-Fluorinated Cross-Linked Polymeric Dielectrics for Flexible and Electrically Stable Operating Organic Thin-Film Transistors and Integrated Devices. ACS Applied Materials & Interfaces, 2021, 13, 50149-50162.	8.0	6
8	Mass-Synthesized Solution-Processable Polyimide Gate Dielectrics for Electrically Stable Operating OFETs and Integrated Circuits. Polymers, 2021, 13, 3715.	4.5	1
9	Directionally Patterned Large-Area Poly(3-hexylthiophene) Field-Effect Transistors via Flow-Blade Printing Method Using Coffee-Ring Effect: Uniform Performance Regardless of Pattern Fabrication Condition and Applications. ACS Applied Electronic Materials, 2021, 3, 385-394.	4.3	4
10	Comparison of semiconductor growth and charge transport on hydrophobic polymer dielectrics of organic field-effect transistors: Cytop vs. polystyrene. Organic Electronics, 2020, 77, 105485.	2.6	19
11	Parylene-based polymeric dielectric top-gate organic field-effect transistors exposed to a UV/ozone environment. Organic Electronics, 2020, 87, 105942.	2.6	6
12	Non-lithographic direct patterning of carbon nanomaterial electrodes via electrohydrodynamic-printed wettability patterns by polymer brush for fabrication of organic field-effect transistor. Applied Surface Science, 2020, 515, 145989.	6.1	24
13	Slot-die coating of solâ€“gel-based organicâ€“inorganic nanohybrid dielectric layers for flexible and large-area organic thin film transistors. Applied Surface Science, 2020, 529, 147198.	6.1	17
14	Direct Printing of Asymmetric Electrodes for Improving Charge Injection/Extraction in Organic Electronics. ACS Applied Materials & Interfaces, 2020, 12, 33999-34010.	8.0	13
15	Solution-Processed Flexible Gas Barrier Films for Organic Field-Effect Transistors. Macromolecular Research, 2020, 28, 782-788.	2.4	5
16	Highly stable flexible organic field-effect transistors with Parylene-C gate dielectrics on a flexible substrate. Organic Electronics, 2019, 75, 105391.	2.6	17
17	Side chain engineering in DTBDT-based small molecules for efficient organic photovoltaics. Nanoscale, 2019, 11, 13845-13852.	5.6	2
18	Aceneâ€Modified Smallâ€Molecule Donors for Organic Photovoltaics. Chemistry - A European Journal, 2019, 25, 12233-12233.	3.3	0

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19	A critical role of amphiphilic polymers in organicâ€“inorganic hybrid solâ€“gel derived gate dielectrics for flexible organic thin-film transistors. Journal of Materials Chemistry C, 2019, 7, 11612-11620.	5.5	14
20	Aceneâ€Modified Smallâ€Molecule Donors for Organic Photovoltaics. Chemistry - A European Journal, 2019, 25, 12316-12324.	3.3	5
21	Effect of lateral confinement on crystallization behavior of a small-molecule semiconductor during capillary force lithography for use in high-performance OFETs. Journal of Industrial and Engineering Chemistry, 2019, 75, 187-193.	5.8	19
22	Facile and Microcontrolled Blade Coating of Organic Semiconductor Blends for Uniaxial Crystal Alignment and Reliable Flexible Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2019, 11, 13481-13490.	8.0	38
23	Enhanced chemical and physical properties of PEDOT doped with anionic polyelectrolytes prepared from acrylic derivatives and application to nanogenerators. Nanoscale Advances, 2019, 1, 4384-4392.	4.6	4
24	Morphology Driven by Molecular Structure of Thiazoleâ€Based Polymers for Use in Fieldâ€Effect Transistors and Solar Cells. Chemistry - A European Journal, 2019, 25, 649-656.	3.3	9
25	Effect of the length of a symmetric branched side chain on charge transport in thienoisoindigo-based polymer field-effect transistors. Organic Electronics, 2019, 65, 251-258.	2.6	13
26	In-Depth Consideration of Vertically 3D Microstructured Bulk Heterojunction Layers via Solvent Vapor Annealing in DR3TSBDT:PC₇₁BM Solar Cells. Journal of Physical Chemistry C, 2018, 122, 6514-6525.	3.1	6
27	Ambipolar charge transport of diketopyrrolepyrrole-silole-based copolymers and effect of side chain engineering: Compact model parameter extraction strategy for high-voltage logic applications. Organic Electronics, 2018, 54, 1-8.	2.6	6
28	Well defined double layers via binary solvent mixtures for highly efficient inverted all-polymer solar cells. Organic Electronics, 2018, 52, 301-308.	2.6	6
29	Understanding Structureâ€“Property Relationships in All-Small-Molecule Solar Cells Incorporating a Fullerene or Nonfullerene Acceptor. ACS Applied Materials & Interfaces, 2018, 10, 36037-36046.	8.0	21
30	Surface Modification of CdSe Quantum-Dot Floating Gates for Advancing Light-Erasable Organic Field-Effect Transistor Memories. ACS Nano, 2018, 12, 7701-7709.	14.6	89
31	Three-Dimensional Observation of a Light-Soaked Photoreactant Layer in BTR:PCBM Solar Cells Treated with/without Solvent Vapor Annealing. ACS Applied Materials & Interfaces, 2018, 10, 21973-21984.	8.0	8
32	Development of Organic Semiconductors Based on Quinacridone Derivatives for Organic Field-Effect Transistors: High-Voltage Logic Circuit Applications. IEEE Journal of the Electron Devices Society, 2017, 5, 209-213.	2.1	10
33	A novel small molecule based on dithienophosphole oxide for bulk heterojunction solar cells without pre- or post-treatments. Dyes and Pigments, 2017, 142, 516-523.	3.7	11
34	Reduced water vapor transmission rates of low-temperature solution-processed metal oxide barrier films via ultraviolet annealing. Applied Surface Science, 2017, 414, 262-269.	6.1	2
35	Repurposing compact discs as master molds to fabricate high-performance organic nanowire field-effect transistors. Nanotechnology, 2017, 28, 205304.	2.6	5
36	Photoinduced Recovery of Organic Transistor Memories with Photoactive Floating-Gate Interlayers. ACS Applied Materials & Interfaces, 2017, 9, 11759-11769.	8.0	80

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37	Direct Writing and Aligning of Small-Molecule Organic Semiconductor Crystals via â€œDragging Modeâ€• Electrohydrodynamic Jet Printing for Flexible Organic Field-Effect Transistor Arrays. Journal of Physical Chemistry Letters, 2017, 8, 5492-5500.	4.6	54
38	Directionally Aligned Amorphous Polymer Chains via Electrohydrodynamic-Jet Printing: Analysis of Morphology and Polymer Field-Effect Transistor Characteristics. ACS Applied Materials & Interfaces, 2017, 9, 39493-39501.	8.0	17
39	Universal selection rule for surfactants used in miniemulsion processes for eco-friendly and high performance polymer semiconductors. Energy and Environmental Science, 2017, 10, 2324-2333.	30.8	32
40	Anomalous Ambipolar Transport of Organic Semiconducting Crystals via Control of Molecular Packing Structures. ACS Applied Materials & Interfaces, 2017, 9, 27839-27846.	8.0	10
41	Morphological studies of small-molecule solar cells: nanostructural engineering via solvent vapor annealing treatments. Journal of Materials Science, 2017, 52, 13173-13182.	3.7	4
42	Highly-impermeable Al2O3/HfO2 moisture barrier films grown by low-temperature plasma-enhanced atomic layer deposition. Organic Electronics, 2017, 50, 296-303.	2.6	29
43	All-Small-Molecule Solar Cells Incorporating NDI-Based Acceptors: Synthesis and Full Characterization. ACS Applied Materials & Interfaces, 2017, 9, 44667-44677.	8.0	29
44	Over 10% efficiency in single-junction polymer solar cells developed from easily accessible random terpolymers. Nano Energy, 2017, 39, 229-237.	16.0	44
45	Markedly different molecular formation in DPP-based small-molecule solar cells probed by grazing-incidence wide-angle X-ray scattering. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2017, 73, 916-922.	1.1	0
46	Two BDT-TPP-Based Polymer Semiconductors: Itâ€™s Characterization and Application for Photovoltaics. Journal of Nanoscience and Nanotechnology, 2017, 17, 5656-5661.	0.9	0
47	Two dibenzo[Def, Mno]chryseneâ€based polymeric semiconductors: Surprisingly opposite device performances in fieldâ€effect transistors and solar cells. Journal of Polymer Science Part A, 2016, 54, 2559-2570.	2.3	14
48	Reduced water vapor transmission rates of low-temperature-processed and sol-gel-derived titanium oxide thin films on flexible substrates. Organic Electronics, 2016, 36, 133-139.	2.6	12
49	A Latticeâ€Strained Organic Singleâ€Crystal Nanowire Array Fabricated via Solutionâ€Phase Nanogratingâ€Assisted Pattern Transfer for Use in Highâ€Mobility Organic Fieldâ€Effect Transistors. Advanced Materials, 2016, 28, 3209-3215.	21.0	49
50	Nanowires: A Lattice-Strained Organic Single-Crystal Nanowire Array Fabricated via Solution-Phase Nanograting-Assisted Pattern Transfer for Use in High-Mobility Organic Field-Effect Transistors (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0	0
51	Effective Way To Enhance the Electrode Performance of Multiwall Carbon Nanotube and Poly(3,4-ethylenedioxythiophene): Poly(styrene sulfonate) Composite Using HClâ€“Methanol Treatment. Journal of Physical Chemistry C, 2016, 120, 10919-10926.	3.1	21
52	Dramatically enhanced performances and ideally controlled nano-morphology via co-solvent processing in low bandgap polymer solar cells. Organic Electronics, 2016, 34, 42-49.	2.6	16
53	Accelerated lifetime test based on general electrical principles for light-emitting electrochemical cells. Organic Electronics, 2016, 34, 50-56.	2.6	9
54	High-Field-Effect Mobility of Low-Crystallinity Conjugated Polymers with Localized Aggregates. Journal of the American Chemical Society, 2016, 138, 8096-8103.	13.7	217

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55	Impact of the Crystalline Packing Structures on Charge Transport and Recombination via Alkyl Chain Tunability of DPP-Based Small Molecules in Bulk Heterojunction Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 12940-12950.	8.0	43
56	Direct patterning of conductive carbon nanotube/polystyrene sulfonate composites via electrohydrodynamic jet printing for use in organic field-effect transistors. Journal of Materials Chemistry C, 2016, 4, 4912-4919.	5.5	49
57	A New BDT-Based Conjugated Polymer with Donor-Donor Composition for Bulk Heterojunction Solar Cells. Macromolecular Research, 2016, 24, 457-462.	2.4	22
58	Thermally Stable Dibenzo[def,mno]chryseneâ€Based Polymer Solar Cells: Effect of Thermal Annealing on the Morphology and Photovoltaic Performances. Macromolecular Chemistry and Physics, 2016, 217, 2116-2124.	2.2	5
59	Optimization of electrohydrodynamic-printed organic electrodes for bottom-contact organic thin film transistors. Organic Electronics, 2016, 38, 48-54.	2.6	23
60	Unified film patterning and annealing of an organic semiconductor with micro-grooved wet stamps. Journal of Materials Chemistry C, 2016, 4, 6996-7003.	5.5	24
61	Dithienobenzodithiophene-Based Small Molecule Organic Solar Cells with over 7% Efficiency via Additive- and Thermal-Annealing-Free Processing. ACS Applied Materials & Interfaces, 2016, 8, 34353-34359.	8.0	20
62	Directly drawn ZnO semiconductors and MWCNT/PSS electrodes via electrohydrodynamic jet printing for use in thin-film transistors: The ideal combination for reliable device performances. Organic Electronics, 2016, 39, 272-278.	2.6	25
63	Light-responsive spiropyran based polymer thin films for use in organic field-effect transistor memories. Journal of Materials Chemistry C, 2016, 4, 5398-5406.	5.5	45
64	Synthesis, characterization, and transistor applications of new linear small molecules: Naphthyl-ethynyl-anthracene-based small molecules containing different alkyl end group. Dyes and Pigments, 2016, 131, 349-355.	3.7	10
65	Isoindigo-based polymer photovoltaics: modifying polymer molecular structures to control the nanostructural packing motif. Physical Chemistry Chemical Physics, 2016, 18, 17957-17964.	2.8	3
66	Al2O3/TiO2 nanolaminate gate dielectric films with enhanced electrical performances for organic field-effect transistors. Organic Electronics, 2016, 28, 139-146.	2.6	41
67	Optimization of Al₂O₃/TiO₂ nanolaminate thin films prepared with different oxide ratios, for use in organic light-emitting diode encapsulation, via plasma-enhanced atomic layer deposition. Physical Chemistry Chemical Physics, 2016, 18, 1042-1049.	2.8	38
68	(Poly(3,4-ethylenedioxythiophene):Polystyrene Sulfonate):Polytetrafluoroethylene for Use in High-Performance and Stable Bottom-Contact Organic Field-Effect Transistors. Journal of Physical Chemistry C, 2016, 120, 956-962.	3.1	12
69	Photo-patternable high-k ZrOx dielectrics prepared using zirconium acrylate for low-voltage-operating organic complementary inverters. Organic Electronics, 2016, 33, 40-47.	2.6	23
70	Photo-Patternable ZnO Thin Films Based on Cross-Linked Zinc Acrylate for Organic/Inorganic Hybrid Complementary Inverters. ACS Applied Materials & Interfaces, 2016, 8, 5499-5508.	8.0	45
71	Synthesis of donorâ€“acceptor copolymer using benzoselenadiazole as acceptor for OTFT. RSC Advances, 2016, 6, 4070-4076.	3.6	12
72	Following the nanostructural molecular orientation guidelines for sulfur versus thiophene units in small molecule photovoltaic cells. Nanoscale, 2016, 8, 7654-7662.	5.6	12

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73	New dithienophosphole-based donorâ€“acceptor alternating copolymers: Synthesis and structure property relationships in OFET. Dyes and Pigments, 2016, 125, 316-322.	3.7	9
74	A Mechanistic Understanding of a Binary Additive System to Synergistically Boost Efficiency in All-Polymer Solar Cells. Scientific Reports, 2015, 5, 18024.	3.3	37
75	The impact of P(NDI2OD-T2) crystalline domains on the open-circuit voltage of bilayer all-polymer solar cells with an inverted configuration. APL Materials, 2015, 3, 126105.	5.1	11
76	Recently Advanced Polymer Materials Containing Dithieno[3,2â€b:2â€²,3â€²â€d]phosphole Oxide for Efficient Charge Transfer in Highâ€Performance Solar Cells. Advanced Functional Materials, 2015, 25, 3991-3997.	14.9	56
77	Highly thermally stable non-fullerene organic solar cells: p-DTS(FBTTh2)2:P(NDI2OD-T2) bulk heterojunction. Nano Energy, 2015, 15, 343-352.	16.0	44
78	Reduced Water Vapor Transmission Rate of Graphene Gas Barrier Films for Flexible Organic Field-Effect Transistors. ACS Nano, 2015, 9, 5818-5824.	14.6	93
79	Fluorinated polymer-grafted organic dielectrics for organic field-effect transistors with low-voltage and electrical stability. Physical Chemistry Chemical Physics, 2015, 17, 16791-16797.	2.8	16
80	Molecular design and ordering effects of alkoxy aromatic donor in a DPP copolymer on OTFTs and OPVs. Materials Chemistry and Physics, 2015, 153, 63-71.	4.0	16
81	Alkyl Chain Length Dependence of the Field-Effect Mobility in Novel Anthracene Derivatives. ACS Applied Materials & Interfaces, 2015, 7, 351-358.	8.0	80
82	A potential naphtho[2,1-b:3,4-bâ€²]dithiophene-based polymer with large open circuit voltage for efficient use in organic solar cells. Journal of Materials Chemistry C, 2015, 3, 1904-1912.	5.5	13
83	Structureâ€“Property Relationships: Asymmetric Alkylphenylâ€Substituted Anthracene Molecules for Use in Smallâ€Molecule Solar Cells. ChemSusChem, 2015, 8, 1548-1556.	6.8	5
84	3D Hollow Framework Silver Nanowire Electrodes for High-Performance Bottom-Contact Organic Transistors. ACS Applied Materials & Interfaces, 2015, 7, 14272-14278.	8.0	19
85	Fabrication of high-performance composite electrodes composed of multiwalled carbon nanotubes and glycerol-doped poly(3,4-ethylenedioxythiophene):polystyrene sulfonate for use in organic devices. Journal of Materials Chemistry C, 2015, 3, 7325-7335.	5.5	24
86	Realization of electrically stable organic field-effect transistors using simple polymer blended dielectrics. Organic Electronics, 2015, 21, 111-116.	2.6	19
87	Effects of Alkyl Chain Length on the Optoelectronic Properties and Performance of Pyrrolo-Perylene Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 8859-8867.	8.0	18
88	Schematic Studies on the Structural Properties and Device Physics of All Small Molecule Ternary Photovoltaic Cells. ACS Applied Materials & Interfaces, 2015, 7, 21423-21432.	8.0	8
89	Structureâ€“Property Correlation: A Comparison of Charge Carrier Kinetics and Recombination Dynamics in All-Polymer Solar Cells. Journal of Physical Chemistry C, 2015, 119, 26311-26318.	3.1	9
90	A pushâ€“pull organic semiconductor with efficient intramolecular charge transfer for solution-processed small molecule solar cells. RSC Advances, 2015, 5, 3435-3442.	3.6	14

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91	Solvent boiling point affects the crystalline properties and performances of anthradithiophene-based devices. Dyes and Pigments, 2015, 114, 60-68.	3.7	11
92	Thienothiophene-benzotriazole-based semicrystalline linear copolymers for organic field effect transistors. Pure and Applied Chemistry, 2014, 86, 1293-1302.	1.9	9
93	Organic Fieldâ€Effect Transistors: The Origin of Excellent Gateâ€Bias Stress Stability in Organic Fieldâ€Effect Transistors Employing Fluorinatedâ€Polymer Gate Dielectrics (Adv. Mater. 42/2014). Advanced Materials, 2014, 26, 7280-7280.	21.0	0
94	Surface modification with MK-2 organic dye in a ZnO/P3HT hybrid solar cell: Impact on device performance. APL Materials, 2014, 2, .	5.1	10
95	Novel alkoxyanthracene donor and benzothiadiazole acceptor for organic thin film transistor and bulk heterojunction organic photovoltaic cells. Journal of Polymer Science Part A, 2014, 52, 1306-1314.	2.3	12
96	Grafting Fluorinated Polymer Nanolayer for Advancing the Electrical Stability of Organic Field-Effect Transistors. Chemistry of Materials, 2014, 26, 6467-6476.	6.7	34
97	A high-performance solution-processed small molecule: alkylselenophene-substituted benzodithiophene organic solar cell. Journal of Materials Chemistry C, 2014, 2, 4937-4946.	5.5	34
98	DTBDT-TTPD: a new dithienobenzodithiophene-based small molecule for use in efficient photovoltaic devices. Journal of Materials Chemistry A, 2014, 2, 16443-16451.	10.3	25
99	A composite of a graphene oxide derivative as a novel sensing layer in an organic field-effect transistor. Journal of Materials Chemistry C, 2014, 2, 4539-4544.	5.5	32
100	The effect of branched versus linear alkyl side chains on the bulk heterojunction photovoltaic performance of small molecules containing both benzodithiophene and thienopyrroledione. Physical Chemistry Chemical Physics, 2014, 16, 19874-19883.	2.8	34
101	Benzotriazole-Containing Planar Conjugated Polymers with Noncovalent Conformational Locks for Thermally Stable and Efficient Polymer Field-Effect Transistors. Chemistry of Materials, 2014, 26, 2147-2154.	6.7	167
102	Directly Drawn Poly(3-hexylthiophene) Field-Effect Transistors by Electrohydrodynamic Jet Printing: Improving Performance with Surface Modification. ACS Applied Materials & Interfaces, 2014, 6, 10736-10743.	8.0	48
103	Al₂O₃/TiO₂ Nanolaminate Thin Film Encapsulation for Organic Thin Film Transistors via Plasma-Enhanced Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2014, 6, 6731-6738.	8.0	180
104	New donor-acceptor copolymer containing dialkoxy naphthalene and carbonylated thieno[3,4-b]thiophene for OTFT and OPV. Macromolecular Research, 2014, 22, 569-573.	2.4	5
105	High-Performance Organic Complementary Inverters Using Monolayer Graphene Electrodes. ACS Applied Materials & Interfaces, 2014, 6, 6816-6824.	8.0	35
106	The Origin of Excellent Gateâ€Bias Stress Stability in Organic Fieldâ€Effect Transistors Employing Fluorinatedâ€Polymer Gate Dielectrics. Advanced Materials, 2014, 26, 7241-7246.	21.0	68
107	Facile method for the environmentally friendly fabrication of reduced graphene oxide films assisted by a metal substrate and saline solution. RSC Advances, 2013, 3, 14286.	3.6	3
108	Small asymmetric anthraceneâ€“thiophene compounds as organic thin-film transistors. Tetrahedron, 2013, 69, 8191-8198.	1.9	17

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109	Synthesis and Transistor Properties of Asymmetric Oligothiophenes: Relationship between Molecular Structure and Device Performance. Chemistry - A European Journal, 2013, 19, 14052-14060.	3.3	39
110	Simultaneously Grasping and Selfâ€Organizing Photoactive Polymers for Highly Reproducible Organic Solar Cells with Improved Efficiency. Advanced Energy Materials, 2013, 3, 1018-1024.	19.5	21
111	Molecular aggregationâ€“performance relationship in the design of novel cyclohexylethynyl end-capped quaterthiophenes for solution-processed organic transistors. Dyes and Pigments, 2013, 96, 756-762.	3.7	21
112	Self-organizing properties of triethylsilylethynyl-anthradithiophene on monolayer graphene electrodes in solution-processed transistors. Nanoscale, 2013, 5, 11094.	5.6	24
113	Highly stable fluorine-rich polymer treated dielectric surface for the preparation of solution-processed organic field-effect transistors. Journal of Materials Chemistry C, 2013, 1, 1272-1278.	5.5	36
114	Complementary Absorbing Starâ€Shaped Small Molecules for the Preparation of Ternary Cascade Energy Structures in Organic Photovoltaic Cells. Advanced Functional Materials, 2013, 23, 1556-1565.	14.9	138
115	Lowâ€bandgap quinoxalineâ€based Dâ€“Aâ€type copolymers: Synthesis, characterization, and photovoltaic properties. Journal of Polymer Science Part A, 2013, 51, 372-382.	2.3	19
116	Inorganic/organic multilayer passivation incorporating alternating stacks of organic/inorganic multilayers for long-term air-stable organic light-emitting diodes. Organic Electronics, 2013, 14, 3385-3391.	2.6	36
117	High-Performance Triethylsilylethynyl Anthradithiophene Transistors Prepared without Solvent Vapor Annealing: The Effects of Self-Assembly during Dip-Coating. ACS Applied Materials & Interfaces, 2013, 5, 2146-2154.	8.0	32
118	Effect of Selenophene in a DPP Copolymer Incorporating a Vinyl Group for Highâ€Performance Organic Fieldâ€Effect Transistors. Advanced Materials, 2013, 25, 524-528.	21.0	230
119	Synthesis and characterization of naphtho[2,1-b:3,4-bâ€²]dithiophene-based polymers with extended Ï€-conjugation systems for use in bulk heterojunction polymer solar cells. Journal of Polymer Science Part A, 2013, 51, 4742-4751.	2.3	13
120	Polymerâ€“nanocrystal hybrid photodetectors with planar heterojunctions designed strategically to yield a high photoconductive gain. Applied Physics Letters, 2013, 102, 193306.	3.3	21
121	Solvent Additive to Achieve Highly Ordered Nanostructural Semicrystalline DPP Copolymers: Toward a High Charge Carrier Mobility. Advanced Materials, 2013, 25, 7003-7009.	21.0	71
122	Thin Film Morphology Control via a Mixed Solvent System for High-Performance Organic Thin Film Transistors. Science of Advanced Materials, 2013, 5, 1323-1327.	0.7	19
123	High-speed solution-processed organic single crystal transistors using a novel triisopropylsilylethynyl anthracene derivative. Applied Physics Letters, 2012, 101, .	3.3	14
124	Synthesis and characterization of a fluorinated oligosiloxane-containing encapsulation material for organic field-effect transistors, prepared via a non-hydrolytic solâ€“gel process. Organic Electronics, 2012, 13, 2786-2792.	2.6	16
125	The effects of organic material-treated SiO₂ dielectric surfaces on the electrical characteristics of inorganic amorphous In-Ga-Zn-O thin film transistors. Applied Physics Letters, 2012, 100, 102110.	3.3	16
126	A side chain-modified quaterthiophene derivative for enhancing the performance of organic solar cell devices. Journal of Materials Chemistry, 2012, 22, 15141.	6.7	14

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127	Thermally Evaporated SiO Thin Films As a Versatile Interlayer for Plasma-Based OLED Passivation. ACS Applied Materials & Interfaces, 2012, 4, 3247-3253.	8.0	35
128	Complementary photo and temperature cured polymer dielectrics with high-quality dielectric properties for organic semiconductors. Journal of Materials Chemistry, 2012, 22, 19940.	6.7	15
129	Damage-free hybrid encapsulation of organic field-effect transistors to reduce environmental instability. Journal of Materials Chemistry, 2012, 22, 7731.	6.7	33
130	Vacuum thermally evaporated polymeric zinc acrylate as an organic interlayer of organic/inorganic multilayer passivation for flexible organic thin-film transistors. Journal of Materials Chemistry, 2012, 22, 25395.	6.7	22
131	Effects of direct solvent exposure on the nanoscale morphologies and electrical characteristics of PCBM-based transistors and photovoltaics. Journal of Materials Chemistry, 2012, 22, 5543.	6.7	79
132	3,6-Carbazole Incorporated into Poly[9,9-dioctylfluorene-alt-(bisthienyl)benzothiadiazole]s Improving the Power Conversion Efficiency. Macromolecules, 2012, 45, 3004-3009.	4.8	41
133	Photocurable polymer gate dielectrics for cylindrical organic field-effect transistors with high bending stability. Journal of Materials Chemistry, 2012, 22, 1054-1060.	6.7	38
134	Highly Crystalline Soluble Acene Crystal Arrays for Organic Transistors: Mechanism of Crystal Growth During Dipâ€Coating. Advanced Functional Materials, 2012, 22, 1005-1014.	14.9	160
135	High Tg cyclic olefin copolymer/Al2O3 bilayer gate dielectrics for flexible organic complementary circuits with low-voltage and air-stable operation. Journal of Materials Chemistry, 2011, 21, 12542.	6.7	28
136	Solvent-free solution processed passivation layer for improved long-term stability of organic field-effect transistors. Journal of Materials Chemistry, 2011, 21, 775-780.	6.7	30
137	High performance semiconducting polymers containing bis(bithiophenyl dithienothiophene)â€based repeating groups for organic thin film transistors. Journal of Polymer Science Part A, 2011, 49, 55-64.	2.3	5
138	The influence of electron deficient unit and interdigitated packing shape of new polythiophene derivatives on organic thinâ€film transistors and photovoltaic cells. Journal of Polymer Science Part A, 2011, 49, 2886-2898.	2.3	22
139	Physicochemically Stable Polymerâ€Coupled Oxide Dielectrics for Multipurpose Organic Electronic Applications. Advanced Functional Materials, 2011, 21, 2198-2207.	14.9	97
140	Hâ€Aggregation Strategy in the Design of Molecular Semiconductors for Highly Reliable Organic Thin Film Transistors. Advanced Functional Materials, 2011, 21, 1616-1623.	14.9	146
141	ORGANIC FIELD-EFFECT TRANSISTORS: Physicochemically Stable Polymer-Coupled Oxide Dielectrics for Multipurpose Organic Electronic Applications (Adv. Funct. Mater. 12/2011). Advanced Functional Materials, 2011, 21, 2197-2197.	14.9	1
142	Inside Cover: Polyaniline-Based Conducting Polymer Compositions with a High Work Function for Hole-Injection Layers in Organic Light-Emitting Diodes: Formation of Ohmic Contacts (ChemSusChem) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.8	0
143	Ambipolar thin-film transistors and an inverter based on pentacene/self-assembled monolayer modified ZnO hybrid structures for balanced hole and electron mobilities. Organic Electronics, 2011, 12, 411-418.	2.6	28
144	Ï€-Conjugated Main Chain Polymers Containing Bis(bithiophenyl dithienothiophene)-based Repeating Group and their Application to Polymer Solar Cells. Molecular Crystals and Liquid Crystals, 2011, 538, 187-192.	0.9	2

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