Kazuo Takimiya

List of Publications by Year
in descending order

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426 papers	25,027 citations	5876 81 h-index	9311 143 g-index
475 all docs	475 docs citations	475 times ranked	14245 citing authors

#	Article	IF	Citations
1	Packing structures of (trialkylsilyl)ethynyl-substituted dinaphtho[2,3-b:2â€²,3â€²-f]thieno[3,2-b]thiophenes (DNTTs): effects of substituents on crystal structures and transport properties. Journal of Materials Chemistry C, 2022, 10, 2775-2782.	2.7	5
2	Enantiopure 2-(2-ethylhexyl)dinaphtho[2,3-b:2â€²,3â€²-f]thieno[3,2-b]thiophenes: synthesis, single-crystal structure and a surprising lack of influence of stereoisomerism on thin-film structure and electronic properties. Materials Horizons, 2022, 9, 444-451.	6.4	3
3	Bandlike versus Temperature-Independent Carrier Transport in Isomeric Diphenyldinaphtho[2,3-b:2â€²,3â€²-f]thieno[3,2-b]thiophenes. , 2022, 4, 675-681.		8
4	Raman Activities of Cyano-Ester Quinoidal Oligothiophenes Reveal Their Diradical Character and the Proximity of the Low-Lying Double Exciton State. Chemistry, 2022, 4, 329-344.	0.9	1
5	Effects of Conformation on Doping Efficiency in Ï€-Extended Bipyranylidene Molecules: Relationship between Molecular Structure and Electron-Doping Ability for Developing n-Type Organic Thermoelectrics. Bulletin of the Chemical Society of Japan, 2022, 95, 1047-1053.	2.0	4
6	1,3,6,8-Tetrakis(methylchalcogeno)pyrenes: Effects of Chalcogen Atoms on the Crystal Structure and Transport Properties. Chemistry of Materials, 2022, 34, 6606-6616.	3.2	10
7	A Design Principle for Polar Assemblies with C₃â€Sym Bowlâ€Shaped Ï€â€Conjugated Molecules. Angewandte Chemie - International Edition, 2021, 60, 3261-3267.	7.2	12
8	Low voltage operating organic light emitting transistors with efficient charge blocking layer. Organic Electronics, 2021, 88, 106024.	1.4	9
9	A Design Principle for Polar Assemblies with C 3 â€Sym Bowlâ€Shaped Ï€â€Conjugated Molecules. Angewandte Chemie, 2021, 133, 3298-3304.	1.6	3
10	Highly-efficient terahertz emission from hydrogen-bonded single molecular crystal 4-nitro-2,5-bis(phenylethynyl)aniline. Optics Express, 2021, 29, 10048.	1.7	2
11	Crystal Structures of Î²-Methylchalcogenated Tetrathienoacenes: From One-Dimensional Ï€-Stacking to Sandwich Pitched Ï€-Stacking Structure. Crystal Growth and Design, 2021, 21, 4055-4063.	1.4	10
12	Highly Electronâ€Donating Bipyranylidene Derivatives: Potential nâ€Type Dopants for Organic Thermoelectrics. Advanced Energy and Sustainability Research, 2021, 2, 2100084.	2.8	3
13	Dihedral-Angle Dependence of Intermolecular Transfer Integrals in BEDT-BDT-Based Radical-Cation Salts with Î¸-Type Molecular Arrangements. Crystals, 2021, 11, 868.	1.0	3
14	â€œManipulationâ€•of Crystal Structure by Methylthiolation Enabling Ultrahigh Mobility in a Pyreneâ€Based Molecular Semiconductor. Advanced Materials, 2021, 33, e2102914.	11.1	39
15	Strong Suppression of Thermal Conductivity in the Presence of Long Terminal Alkyl Chains in Lowâ€Disorder Molecular Semiconductors. Advanced Materials, 2021, 33, e2008708.	11.1	12
16	Quinoidâ€aromatic Resonance for Very Small Optical Energy Gaps in Smallâ€molecule Organic Semiconductors: a Naphthodithiophenedioneâ€oligothiophene triad system. Chemistry - A European Journal, 2021, 27, 15660-15670.	1.7	2
17	Field-Induced Electron Spin Resonance of Site-Selective Carrier Accumulation in Field-Effect Transistors Composed of Organic Semiconductor Solid Solutions. Physical Review Applied, 2021, 16, .	1.5	1
18	Synthesis of Soluble Dinaphtho[2,3-b:2â€²,3â€²-f]thieno[3,2-b]thiophene (DNTT) Derivatives: One-Step Functionalization of 2-Bromo-DNTT. Journal of Organic Chemistry, 2020, 85, 195-206.	1.7	18

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19	Controlled steric selectivity in molecular doping towards closest-packed supramolecular conductors. Communications Materials, 2020, 1, .	2.9	11
20	Two-dimensional radicalâ€“cationic Mott insulator based on an electron donor containing neither a tetrathiafulvalene nor tetrathiapentalene skeleton. CrystEngComm, 2020, 22, 5949-5953.	1.3	3
21	â€œHeavy-atom effectsâ€•in the parent [1]benzochalcogenopheno[3,2-b][1]benzochalcogenophene system. Journal of Materials Chemistry C, 2020, 8, 15119-15127.	2.7	17
22	Naphthodithiophenediimideâ€“Bithiopheneimide Copolymers for Highâ€Performance nâ€Type Organic Thermoelectrics: Significant Impact of Backbone Orientation on Conductivity and Thermoelectric Performance. Advanced Materials, 2020, 32, e2002060.	11.1	111
23	Spatial extent of wave functions of charge carriers in a thienothiophene-based high-mobility molecular semiconductor. Applied Physics Express, 2020, 13, 041004.	1.1	1
24	Carbonyl-Terminated Quinoidal Oligothiophenes as p-Type Organic Semiconductors. Materials, 2020, 13, 3020.	1.3	6
25	â€œDisrupt and induceâ€•intermolecular interactions to rationally design organic semiconductor crystals: from herringbone to rubrene-like pitched Ï€-stacking. Chemical Science, 2020, 11, 1573-1580.	3.7	36
26	Tuning Spin Current Injection at Ferromagnet-Nonmagnet Interfaces by Molecular Design. Physical Review Letters, 2020, 124, 027204.	2.9	19
27	Crystal Structures of Dimethoxyanthracens: A Clue to a Rational Design of Packing Structures of Ï€â€Conjugated Molecules. Chemistry - an Asian Journal, 2020, 15, 915-919.	1.7	10
28	Gate-tunable gas sensing behaviors in air-stable ambipolar organic thin-film transistors. RSC Advances, 2020, 10, 1910-1916.	1.7	14
29	Low optical turn-on voltage in solution processed hybrid light emitting transistor. Applied Physics Letters, 2019, 115, .	1.5	10
30	Tuning the absorption range of naphthothiophene diimide-based acceptors for organic solar cells. Dyes and Pigments, 2019, 171, 107691.	2.0	0
31	Naphtho[1,2â€b:5,6â€bâ€²]dithiophene Building Blocks and their Complexation with Cyclobis(paraquatâ€pâ€phenylene). European Journal of Organic Chemistry, 2019, 2019, 7532-7540.	1.2	4
32	Chasing the â€œKillerâ€•Phonon Mode for the Rational Design of Lowâ€Disorder, Highâ€Mobility Molecular Semiconductors. Advanced Materials, 2019, 31, e1902407.	11.1	126
33	Two isomeric perylenothiophene diimides: physicochemical properties and applications in organic semiconducting devices. Journal of Materials Chemistry C, 2019, 7, 2267-2275.	2.7	14
34	Effect of non-chlorinated solvents on the enhancement of field-effect mobility in dioctylbenzothienobenzothiophene-based top-gate organic transistors processed by spin coating. Organic Electronics, 2019, 69, 181-189.	1.4	13
35	Selenium-Substituted Î²-Methylthiobenzo[1,2-b:4,5-bâ€²]dithiophenes: Synthesis, Packing Structure, and Transport Properties. Chemistry of Materials, 2019, 31, 6696-6705.	3.2	36
36	High Operation Stability of Ultraflexible Organic Solar Cells with Ultravioletâ€Filtering Substrates. Advanced Materials, 2019, 31, e1808033.	11.1	44

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37	The effect of alkyl chain branching positions on the electron mobility and photovoltaic performance of naphthodithiophene diimide (NDTI)-based polymers. Science China Chemistry, 2019, 62, 1649-1655.	4.2	28
38	Durable Ultraflexible Organic Photovoltaics with Novel Metalâ€Oxideâ€Free Cathode. Advanced Functional Materials, 2019, 29, 1808378.	7.8	34
39	Synthesis of Thiopheneâ€annulated Naphthalene Diimideâ€based Smallâ€Molecular Acceptors via Twoâ€step Câ^'H Activation. Chemistry - an Asian Journal, 2019, 14, 1651-1656.	1.7	8
40	High-performance didodecylbenzothienobenzothiophene-based top-gate organic transistors processed by spin coating using binary solvent mixtures. Organic Electronics, 2018, 58, 306-312.	1.4	8
41	Thiacycle-fused benzo[1,2-b:4,5-bâ€²]dithiophenes (BDTs): synthesis, packing, molecular orientation and semiconducting properties. Journal of Materials Chemistry C, 2018, 6, 3604-3612.	2.7	22
42	Thiophene-Fused Naphthalene Diimides: New Building Blocks for Electron Deficient Ï€-Functional Materials. Bulletin of the Chemical Society of Japan, 2018, 91, 121-140.	2.0	65
43	Thienoquinoidal System: Promising Molecular Architecture for Optoelectronic Applications. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2018, 76, 1176-1184.	0.0	22
44	Air-stable and balanced split-gate organic transistors. Organic Electronics, 2018, 63, 200-206.	1.4	3
45	Transparent Electrodes: Reverse-Offset Printed Ultrathin Ag Mesh for Robust Conformal Transparent Electrodes for High-Performance Organic Photovoltaics (Adv. Mater. 26/2018). Advanced Materials, 2018, 30, 1870190.	11.1	2
46	Solution-crystallized n-type organic thin-film transistors: An impact of branched alkyl chain on high electron mobility and thermal durability. Organic Electronics, 2018, 62, 548-553.	1.4	15
47	Extended and Modulated Thienothiophenes for Thermally Durable and Solution-Processable Organic Semiconductors. Chemistry of Materials, 2018, 30, 5050-5060.	3.2	33
48	Reverseâ€Offset Printed Ultrathin Ag Mesh for Robust Conformal Transparent Electrodes for Highâ€Performance Organic Photovoltaics. Advanced Materials, 2018, 30, e1707526.	11.1	59
49	Selective thionation of naphtho[2,3-b]thiophene diimide: tuning of the optoelectronic properties and packing structure. Organic Chemistry Frontiers, 2017, 4, 704-710.	2.3	12
50	Naphthodithiophenediimideâ€“Benzobisthiadiazole-Based Polymers: Versatile n-Type Materials for Field-Effect Transistors and Thermoelectric Devices. Macromolecules, 2017, 50, 857-864.	2.2	145
51	Very Strong Binding for a Neutral Calix[4]pyrrole Receptor Displaying Positive Allosteric Binding. Journal of Organic Chemistry, 2017, 82, 2123-2128.	1.7	9
52	Naphthobischalcogenadiazole Conjugated Polymers: Emerging Materials for Organic Electronics. Advanced Materials, 2017, 29, 1605218.	11.1	91
53	Comparison among Perylene Diimide (PDI), Naphthalene Diimide (NDI), and Naphthodithiophene Diimide (NDTI) Based n-Type Polymers for All-Polymer Solar Cells Application. Macromolecules, 2017, 50, 3179-3185.	2.2	85
54	Cumulative gain in organic solar cells by using multiple optical nanopatterns. Journal of Materials Chemistry A, 2017, 5, 10347-10354.	5.2	24

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55	Tuning the effective spin-orbit coupling in molecular semiconductors. Nature Communications, 2017, 8, 15200.	5.8	70
56	High-performance solution-processed organic thin-film transistors based on a soluble DNTT derivative. Organic Electronics, 2017, 46, 68-76.	1.4	12
57	Dithienyl Acenedithiophenediones as New Ï€â€Extended Quinoidal Cores: Synthesis and Properties. Chemistry - A European Journal, 2017, 23, 4579-4589.	1.7	18
58	Effects of Selenium Atoms on [1]Benzochalcogenopheno[3,2-b][1]benzochalcogenophene-based Organic Semiconductors. Chemistry Letters, 2017, 46, 345-347.	0.7	12
59	Stretchable and waterproof elastomer-coated organic photovoltaics for washable electronic textile applications. Nature Energy, 2017, 2, 780-785.	19.8	369
60	Methylthionated benzo[1,2-b:4,5-bâ€²]dithiophenes: a model study to control packing structures and molecular orientation in thienoacene-based organic semiconductors. Chemical Communications, 2017, 53, 9594-9597.	2.2	27
61	2-V operated flexible vertical organic transistor with good air stability and bias stress reliability. Organic Electronics, 2017, 50, 325-330.	1.4	16
62	Ionic manipulation of charge-transfer and photodynamics of [60]fullerene confined in pyrrolo-tetrathiafulvalene cage. Chemical Communications, 2017, 53, 9898-9901.	2.2	6
63	Bis(naphthothiophene diimide)indacenodithiophenes as Acceptors for Organic Photovoltaics. Chemistry of Materials, 2017, 29, 9618-9622.	3.2	26
64	Control of Major Carriers in an Ambipolar Polymer Semiconductor by Selfâ€Assembled Monolayers. Advanced Materials, 2017, 29, 1602893.	11.1	66
65	Effects of branching position of alkyl side chains on ordering structure and charge transport property in thienothiophenedione- and quinacridone-based semiconducting polymers. Polymer Journal, 2017, 49, 169-176.	1.3	23
66	Sodium Sulfide-Promoted Thiophene-Annulations: Powerful Tools for Elaborating Organic Semiconducting Materials. Chemistry of Materials, 2017, 29, 256-264.	3.2	38
67	N,Nâ€²-Bis(2-cyclohexylethyl)naphtho[2,3-b:6,7-bâ€²]dithiophene Diimides: Effects of Substituents. Molecules, 2016, 21, 981.	1.7	9
68	Analyses of Thiophene-Based Donorâ€“Acceptor Semiconducting Polymers toward Designing Optical and Conductive Properties: A Theoretical Perspective. Journal of Physical Chemistry C, 2016, 120, 8305-8314.	1.5	17
69	Very Small Bandgap Ï€-Conjugated Polymers with Extended Thienoquinoids. Journal of the American Chemical Society, 2016, 138, 7725-7732.	6.6	111
70	Detailed analysis and contact properties of low-voltage organic thin-film transistors based on dinaphtho[2,3-b:2â€²,3â€²-f]thieno[3,2-b]thiophene (DNTT) and its didecyl and diphenyl derivatives. Organic Electronics, 2016, 35, 33-40.	1.4	83
71	Naphtho[2,3-b]thiophene diimide (NTI): a mono-functionalisable core-extended naphthalene diimide for electron-deficient architectures. Journal of Materials Chemistry C, 2016, 4, 8879-8883.	2.7	34
72	Implication of Fluorine Atom on Electronic Properties, Ordering Structures, and Photovoltaic Performance in Naphthobisthiadiazole-Based Semiconducting Polymers. Journal of the American Chemical Society, 2016, 138, 10265-10275.	6.6	319

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73	N,Nâ€²-Unsubstituted Naphthodithiophene Diimide: Synthesis and Derivatization via N-Alkylation and -Arylation. Organic Letters, 2016, 18, 3770-3773.	2.4	15
74	Reversible Dimerization and Polymerization of a Janus Diradical To Produce Labile Câ”C Bonds and Large Chromic Effects. Angewandte Chemie, 2016, 128, 14783-14788.	1.6	15
75	Reversible Dimerization and Polymerization of a Janus Diradical To Produce Labile Câ”C Bonds and Large Chromic Effects. Angewandte Chemie - International Edition, 2016, 55, 14563-14568.	7.2	47
76	Dithienylthienothiophenebisimide, a Versatile Electronâ€Deficient Unit for Semiconducting Polymers. Advanced Materials, 2016, 28, 6921-6925.	11.1	83
77	Soluble Dinaphtho[2,3-b:2â€²,3â€²-f]thieno[3,2-b]thiophene Derivatives for Solution-Processed Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2016, 8, 3810-3824.	4.0	43
78	Design and elaboration of organic molecules for high field-effect-mobility semiconductors. Synthetic Metals, 2016, 217, 68-78.	2.1	65
79	A comprehensive study of charge trapping in organic field-effect devices with promising semiconductors and different contact metals by displacement current measurements. Semiconductor Science and Technology, 2016, 31, 025011.	1.0	21
80	Naphthodithiophene Diimide-Based Copolymers: Ambipolar Semiconductors in Field-Effect Transistors and Electron Acceptors with Near-Infrared Response in Polymer Blend Solar Cells. Macromolecules, 2016, 49, 1752-1760.	2.2	73
81	Amide-bridged terphenyl and dithienylbenzene units for semiconducting polymers. RSC Advances, 2016, 6, 16437-16447.	1.7	4
82	Benzothienobenzothiophene-Based Molecular Conductors: High Conductivity, Large Thermoelectric Power Factor, and One-Dimensional Instability. Journal of the American Chemical Society, 2016, 138, 3920-3925.	6.6	64
83	Organic Thin-Film Transistors: Flexible Low-Voltage Organic Complementary Circuits: Finding the Optimum Combination of Semiconductors and Monolayer Gate Dielectrics (Adv. Mater. 2/2015). Advanced Materials, 2015, 27, 391-391.	11.1	0
84	Highly Efficient and Stable Solar Cells Based on Thiazolothiazole and Naphthobisthiadiazole Copolymers. Scientific Reports, 2015, 5, 14202.	1.6	53
85	Solution-processed dinaphtho[2,3-b:2â€²,3â€²-f]thieno[3,2-b]thiophene transistor memory based on phosphorus-doped silicon nanoparticles as a nano-floating gate. Applied Physics Express, 2015, 8, 101601.	1.1	8
86	Angularâ€Shaped 4,9â€Dialkyl Î±â€•and Î²â€Naphthodithiopheneâ€Based Donorâ€“Acceptor Copolymers: Investigation of Isomeric Structural Effects on Molecular Properties and Performance of Fieldâ€Effect Transistors and Photovoltaics. Advanced Functional Materials, 2015, 25, 6131-6143.	7.8	49
87	Singleâ€Crystalâ€Like Organic Thinâ€Film Transistors Fabricated from Dinaphtho[2,3â€b:2â€²,3â€²â€f]thieno[3,2â€b]thiophene (DNTT) Precursorâ€“Polystyrene Blends. Advanced Materials, 2015, 27, 6606-6611.	11.1	45
88	Efficient inverted polymer solar cells employing favourable molecular orientation. Nature Photonics, 2015, 9, 403-408.	15.6	769
89	High-efficiency polymer solar cells with small photon energy loss. Nature Communications, 2015, 6, 10085.	5.8	358
90	Backbone orientation in semiconducting polymers. Polymer, 2015, 59, A1-A15.	1.8	156

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91	Flat-Lying Semiconductorâ€“Insulator Interfacial Layer in DNTT Thin Films. ACS Applied Materials & Interfaces, 2015, 7, 1833-1840.	4.0	43
92	Naphthodithiophene Diimide (NDTI)-Based Semiconducting Copolymers: From Ambipolar to Unipolar n-Type Polymers. Macromolecules, 2015, 48, 576-584.	2.2	81
93	High Yield Ultrafast Intramolecular Singlet Exciton Fission in a Quinoidal Bithiophene. Journal of Physical Chemistry Letters, 2015, 6, 1375-1384.	2.1	106
94	Thermally, Operationally, and Environmentally Stable Organic Thin-Film Transistors Based on Bis[1]benzothieno[2,3-d:2â€²,3â€²-dâ€²]naphtho[2,3-b:6,7-bâ€²]dithiophene Derivatives: Effective Synthesis, Electronic Structures, and Structureâ€“Property Relationship. Chemistry of Materials, 2015, 27, 5049-5057.	3.2	58
95	Thienothiopheneâ€2,5â€Dioneâ€Based Donorâ€“Acceptor Polymers: Improved Synthesis and Influence of the Donor Units on Ambipolar Charge Transport Properties. Advanced Electronic Materials, 2015, 1, 1500039.	2.6	32
96	Naphthodithiophenediimide (NDTI)-based triads for high-performance air-stable, solution-processed ambipolar organic field-effect transistors. Journal of Materials Chemistry C, 2015, 3, 4244-4249.	2.7	36
97	Modeling of Drain Current Mismatch in Organic Thin-Film Transistors. Journal of Display Technology, 2015, 11, 559-563.	1.3	7
98	Î±-Modified Naphthodithiophene Diimidesâ€”Molecular Design Strategy for Air-Stable n-Channel Organic Semiconductors. Chemistry of Materials, 2015, 27, 6418-6425.	3.2	60
99	Effect of Chalcogen Atom on the Properties of Naphthobischalcogenadiazole-Based Ï€-Conjugated Polymers. Chemistry of Materials, 2015, 27, 6558-6570.	3.2	78
100	Naphthodithiophenes: Emerging Building Blocks for Organic Electronics. Chemical Record, 2015, 15, 175-188.	2.9	20
101	Flexible Lowâ€Voltage Organic Complementary Circuits: Finding the Optimum Combination of Semiconductors and Monolayer Gate Dielectrics. Advanced Materials, 2015, 27, 207-214.	11.1	106
102	Soluble Organic Semiconductor Precursor with Specific Phase Separation for Highâ€Performance Printed Organic Transistors. Advanced Materials, 2015, 27, 727-732.	11.1	43
103	Dibenzo[a,e]pentalene-embedded dicyanomethylene-substituted thienoquinoidals for n-channel organic semiconductors: synthesis, properties, and device characteristics. Journal of Materials Chemistry C, 2015, 3, 283-290.	2.7	32
104	Achieving high efficiency and stability in inverted organic solar cells fabricated by laminated gold leaf as top electrodes. Applied Physics Express, 2014, 7, 111602.	1.1	7
105	5, 10-linked naphthodithiophenes as the building block for semiconducting polymers. Science and Technology of Advanced Materials, 2014, 15, 024201.	2.8	5
106	Low-voltage organic field-effect transistors for flexible electronics. , 2014, , .		1
107	Effect of Oxygenâ€Containing Functional Side Chains on the Electronic Properties and Photovoltaic Performances in a Thiopheneâ€“Thiazolothiazole Copolymer System. Heteroatom Chemistry, 2014, 25, 556-564.	0.4	6
108	Crystalline conjugated polymers for organic electronics. IOP Conference Series: Materials Science and Engineering, 2014, 54, 012016.	0.3	1

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109	The Elusive Ethenediselone, Se=C=C=Se. Australian Journal of Chemistry, 2014, 67, 1195.	0.5	9
110	Low-temperature carrier dynamics in high-mobility organic transistors of alkylated dinaphtho-thienothiophene as investigated by electron spin resonance. Applied Physics Letters, 2014, 105, .	1.5	14
111	Organic Electronics: Towards Colorless Transparent Organic Transistors: Potential of Benzothieno[3,2â€b]benzothiopheneâ€Based Wideâ€Gap Semiconductors (Adv. Mater. 19/2014). Advanced Materials, 2014, 26, 3163-3163.	11.1	1
112	A Surface Potential Based Organic Thin-Film Transistor Model for Circuit Simulation Verified With DNTT High Performance Test Devices. IEEE Transactions on Semiconductor Manufacturing, 2014, 27, 159-168.	1.4	17
113	[1]Benzothieno[3,2-b][1]benzothiophenes- and dinaphtho[2,3-b:2â€²,3â€²-f]thieno[3,2-b]thiophene-based organic semiconductors for stable, high-performance organic thin-film transistor materials. Thin Solid Films, 2014, 554, 13-18.	0.8	12
114	Ï€-Building Blocks for Organic Electronics: Revaluation of â€œInductiveâ€•and â€œResonanceâ€•Effects of Ï€-Electron Deficient Units. Chemistry of Materials, 2014, 26, 587-593.	3.2	211
115	Solution-processed single-crystalline organic transistors on patterned ultrathin gate insulators. Organic Electronics, 2014, 15, 1184-1188.	1.4	15
116	Novel dibenzo[a,e]pentalene-based conjugated polymers. Journal of Materials Chemistry C, 2014, 2, 64-70.	2.7	63
117	Thiopheneâ€“Thiazolothiazole Copolymers: Significant Impact of Side Chain Composition on Backbone Orientation and Solar Cell Performances. Advanced Materials, 2014, 26, 331-338.	11.1	275
118	Towards Colorless Transparent Organic Transistors: Potential of Benzothieno[3,2â€b]benzothiopheneâ€Based Wideâ€Gap Semiconductors. Advanced Materials, 2014, 26, 3105-3110.	11.1	24
119	Quinoidal Naphtho[1,2-b:5,6-bâ€²]dithiophenes for Solution-Processed n-Channel Organic Field-Effect Transistors. Organic Letters, 2014, 16, 1334-1337.	2.4	43
120	Contrasting Effect of Alkylation on the Ordering Structure in Isomeric Naphthodithiophene-Based Polymers. Macromolecules, 2014, 47, 3502-3510.	2.2	36
121	Dithiophene-Fused Tetracyanonaphthoquinodimethanes (DT-TNAPs): Synthesis and Characterization of Ï€-Extended Quinoidal Compounds for n-Channel Organic Semiconductor. Organic Letters, 2014, 16, 240-243.	2.4	24
122	Highly transparent thin-film transistors using wide-bandgap organic semiconductors and multilayer transparent electrodes. Journal of Information Display, 2014, 15, 59-63.	2.1	3
123	Small band gap polymers incorporating a strong acceptor, thieno[3,2-b]thiophene-2,5-dione, with p-channel and ambipolar charge transport characteristics. Journal of Materials Chemistry C, 2014, 2, 2307-2312.	2.7	27
124	Air-stable, low-voltage organic transistors: High-mobility thienoacene derivatives for unipolar and complementary ring oscillators on flexible substrates. , 2014, , .		2
125	Transient nature of graphene quantum dot formation via a hydrothermal reaction. RSC Advances, 2014, 4, 55709-55715.	1.7	84
126	Highly Oriented Polymer Semiconductor Films Compressed at the Surface of Ionic Liquids for Highâ€Performance Polymeric Organic Fieldâ€Effect Transistors. Advanced Materials, 2014, 26, 6430-6435.	11.1	69

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127	Bias-stress stability of low-voltage p-channel and n-channel organic thin-film transistors on flexible plastic substrates. Organic Electronics, 2014, 15, 3173-3182.	1.4	34
128	Charge-carrier injection, extraction and trapping dynamics in organic thin-film transistors based on different organic semiconductors evaluated by displacement current measurements. , 2014, , .		1
129	All-Polymer Solar Cell with High Near-Infrared Response Based on a Naphthodithiophene Diimide (NDTI) Copolymer. ACS Macro Letters, 2014, 3, 872-875.	2.3	110
130	Organic Semiconductors Based on [1]Benzothieno[3,2-b][1]benzothiophene Substructure. Accounts of Chemical Research, 2014, 47, 1493-1502.	7.6	440
131	Splitâ€Gate Organic Fieldâ€Effect Transistors for Highâ€Speed Operation. Advanced Materials, 2014, 26, 2983-2988.	11.1	33
132	Low-voltage organic transistors for flexible electronics. , 2014, , .		1
133	Naphthodithiophenediimide (NDTI): Synthesis, Structure, and Applications. Journal of the American Chemical Society, 2013, 135, 11445-11448.	6.6	172
134	Flexible Lowâ€Voltage Organic Transistors with High Thermal Stability at 250 Â°C. Advanced Materials, 2013, 25, 3639-3644.	11.1	101
135	Droplet Manipulation by an External Electric Field for Crystalline Film Growth. Langmuir, 2013, 29, 9592-9597.	1.6	14
136	Diphenyl Derivatives of Dinaphtho[2,3-b:2â€²,3â€²-f]thieno[3,2-b]thiophene: Organic Semiconductors for Thermally Stable Thin-Film Transistors. ACS Applied Materials & Interfaces, 2013, 5, 2331-2336.	4.0	80
137	Consecutive Thiophene-Annulation Approach to Ï€-Extended Thienoacene-Based Organic Semiconductors with [1]Benzothieno[3,2-b][1]benzothiophene (BTBT) Substructure. Journal of the American Chemical Society, 2013, 135, 13900-13913.	6.6	256
138	High-mobility organic thin-film transistors based on a small-molecule semiconductor deposited in vacuum and by solution shearing. Organic Electronics, 2013, 14, 3213-3221.	1.4	94
139	Megahertz operation of flexible low-voltage organic thin-film transistors. Organic Electronics, 2013, 14, 1516-1520.	1.4	73
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