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	Thienoaceneâ€Based Organic Semiconductors. Advanced Materials, 2011, 23, 4347-4370.	11.1	865
2	Highly Soluble [1]Benzothieno[3,2-b]benzothiophene (BTBT) Derivatives for High-Performance, Solution-Processed Organic Field-Effect Transistors. Journal of the American Chemical Society, 2007, 129, 15732-15733.	6.6	852
3	Facile Synthesis of Highly Ï€-Extended Heteroarenes, Dinaphtho[2,3-b:2â€˛,3â€˛-f]chalcogenopheno[3,2-b]chalcogenophenes, and Their Application to Field-Effect Transistors. Journal of the American Chemical Society, 2007, 129, 2224-2225.	6.6	826
4	Efficient inverted polymer solar cells employing favourable molecular orientation. Nature Photonics, 2015, 9, 403-408.	15.6	769
5	Organic Semiconductors Based on [1]Benzothieno[3,2-b][1]benzothiophene Substructure. Accounts of Chemical Research, 2014, 47, 1493-1502.	7.6	440
6	2,7-Diphenyl[1]benzothieno[3,2-b]benzothiophene, A New Organic Semiconductor for Air-Stable Organic Field-Effect Transistors with Mobilities up to 2.0 cm2V-1s-1. Journal of the American Chemical Society, 2006, 128, 12604-12605.	6.6	405
7	Molecular Ordering of Highâ€Performance Soluble Molecular Semiconductors and Reâ€evaluation of Their Fieldâ€Effect Transistor Characteristics. Advanced Materials, 2008, 20, 3388-3392.	11.1	374
8	Stretchable and waterproof elastomer-coated organic photovoltaics for washable electronic textile applications. Nature Energy, 2017, 2, 780-785.	19.8	369
9	High-efficiency polymer solar cells with small photon energy loss. Nature Communications, 2015, 6, 10085.	5.8	358
10	Solutionâ€Processable Organic Single Crystals with Bandlike Transport in Fieldâ€Effect Transistors. Advanced Materials, 2011, 23, 523-526.	11.1	348
11	Patternable Solutionâ€Crystallized Organic Transistors with High Charge Carrier Mobility. Advanced Materials, 2011, 23, 1626-1629.	11.1	337
12	Synthesis, Characterization, and Transistor and Solar Cell Applications of a Naphthobisthiadiazole-Based Semiconducting Polymer. Journal of the American Chemical Society, 2012, 134, 3498-3507.	6.6	323
13	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
14	Alkylated Dinaphtho[2,3â€b:2â€²,3â€²â€f]Thieno[3,2â€b]Thiophenes (C_nâ€DNTTs): Organic Semiconductors for Highâ€Performance Thinâ€Film Transistors. Advanced Materials, 2011, 23, 1222-1225.	11.1	310
15	Naphthodithiopheneâ€“Naphthobisthiadiazole Copolymers for Solar Cells: Alkylation Drives the Polymer Backbone Flat and Promotes Efficiency. Journal of the American Chemical Society, 2013, 135, 8834-8837.	6.6	301
16	Organic transistors with high thermal stability for medical applications. Nature Communications, 2012, 3, 723.	5.8	290
17	Linear- and Angular-Shaped Naphthodithiophenes: Selective Synthesis, Properties, and Application to Organic Field-Effect Transistors. Journal of the American Chemical Society, 2011, 133, 5024-5035.	6.6	276
18	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

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19	Functional oligothiophenes as advanced molecular electronic materials. Journal of Materials Chemistry, 2002, 12, 2565-2575.	6.7	258
20	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
21	Very High Mobility in Solution-Processed Organic Thin-Film Transistors of Highly Ordered [1]Benzothieno[3,2-b]benzothiophene Derivatives. Applied Physics Express, 2009, 2, 111501.	1.1	254
22	Synthesis and Spectroscopic Properties of a Series of Î²-Blocked Long Oligothiophenes up to the 96-mer:Â Revaluation of Effective Conjugation Length. Journal of the American Chemical Society, 2003, 125, 5286-5287.	6.6	235
23	2,6-Diphenylbenzo[1,2-b:4,5-bâ€˜]dichalcogenophenes:Â A New Class of High-Performance Semiconductors for Organic Field-Effect Transistors. Journal of the American Chemical Society, 2004, 126, 5084-5085.	6.6	227
24	Contact Resistance and Megahertz Operation of Aggressively Scaled Organic Transistors. Small, 2012, 8, 73-79.	5.2	217
25	Flexible Lowâ€Voltage Organic Transistors and Circuits Based on a Highâ€Mobility Organic Semiconductor with Good Air Stability. Advanced Materials, 2010, 22, 982-985.	11.1	213
26	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
27	Impact of Isomeric Structures on Transistor Performances in Naphthodithiophene Semiconducting Polymers. Journal of the American Chemical Society, 2011, 133, 6852-6860.	6.6	205
28	Extensive Quinoidal Oligothiophenes with Dicyanomethylene Groups at Terminal Positions as Highly Amphoteric Redox Molecules. Journal of the American Chemical Society, 2005, 127, 8928-8929.	6.6	204
29	Dianthra[2,3-b:2â€²,3â€²-f]thieno[3,2-b]thiophene (DATT): Synthesis, Characterization, and FET Characteristics of New Ï€-Extended Heteroarene with Eight Fused Aromatic Rings. Journal of the American Chemical Society, 2011, 133, 8732-8739.	6.6	199
30	Organic Electronics on Banknotes. Advanced Materials, 2011, 23, 654-658.	11.1	197
31	2,7-Diphenyl[1]benzoselenopheno[3,2-b][1]benzoselenophene as a Stable Organic Semiconductor for a High-Performance Field-Effect Transistor. Journal of the American Chemical Society, 2006, 128, 3044-3050.	6.6	193
32	Solution-Processible n-Channel Organic Field-Effect Transistors Based on Dicyanomethylene-Substituted Terthienoquinoid Derivative. Journal of the American Chemical Society, 2007, 129, 11684-11685.	6.6	191
33	One-pot Synthesis of Benzo[b]thiophenes and Benzo[b]selenophenes from o-Halo-Substituted Ethynylbenzenes: Convenient Approach to Mono-, Bis-, and Tris-Chalcogenophene-Annulated Benzenes. Organic Letters, 2009, 11, 2473-2475.	2.4	187
34	High-Mobility Semiconducting Naphthodithiophene Copolymers. Journal of the American Chemical Society, 2010, 132, 5000-5001.	6.6	184
35	Naphthodithiophenediimide (NDTI): Synthesis, Structure, and Applications. Journal of the American Chemical Society, 2013, 135, 11445-11448.	6.6	172
36	Dinaphthopentalenes: Pentalene Derivatives for Organic Thinâ€Film Transistors. Angewandte Chemie - International Edition, 2010, 49, 7728-7732.	7.2	170

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37	Large Photocurrent Generation of Gold Electrodes Modified with [60]Fullerene-Linked Oligothiophenes Bearing a Tripodal Rigid Anchor. Journal of the American Chemical Society, 2002, 124, 532-533.	6.6	168
38	Synthesis, Properties, and Structures of Benzo[1,2-b:4,5-bâ€˜]bis[b]benzothiophene and Benzo[1,2-b:4,5-bâ€˜]bis[b]benzoselenophene. Organic Letters, 2007, 9, 4499-4502.	2.4	168
39	Dinaphtho[2,3-b:2â€²,3â€²-f]thieno[3,2-b]thiophene (DNTT) thin-film transistors with improved performance and stability. Organic Electronics, 2011, 12, 1370-1375.	1.4	162
40	Drastic Change of Molecular Orientation in a Thiazolothiazole Copolymer by Molecularâ€Weight Control and Blending with PC₆₁BM Leads to High Efficiencies in Solar Cells. Advanced Materials, 2012, 24, 425-430.	11.1	157
41	Solutionâ€Crystallized Organic Fieldâ€Effect Transistors with Chargeâ€Acceptor Layers: Highâ€Mobility and Lowâ€Thresholdâ€Voltage Operation in Air. Advanced Materials, 2011, 23, 3309-3314.	11.1	156
42	Backbone orientation in semiconducting polymers. Polymer, 2015, 59, A1-A15.	1.8	156
43	Synthesis, Properties, Crystal Structures, and Semiconductor Characteristics of Naphtho[1,2-b:5,6-bâ€²]dithiophene and -diselenophene Derivatives. Journal of Organic Chemistry, 2010, 75, 1228-1234.	1.7	154
44	Facile Synthesis, Structure, and Properties of Benzo[1,2-b:4,5-bâ€˜]dichalcogenophenes. Journal of Organic Chemistry, 2005, 70, 10569-10571.	1.7	149
45	Naphthodithiophenediimideâ€“Benzobisthiadiazole-Based Polymers: Versatile n-Type Materials for Field-Effect Transistors and Thermoelectric Devices. Macromolecules, 2017, 50, 857-864.	2.2	145
46	On the Biradicaloid Nature of Long Quinoidal Oligothiophenes: Experimental Evidence Guided by Theoretical Studies. Angewandte Chemie - International Edition, 2007, 46, 9057-9061.	7.2	143
47	Dimeric Tetrathiafulvalenes: New electron donors. Advanced Materials, 1996, 8, 203-211.	11.1	142
48	High-performance dinaphtho-thieno-thiophene single crystal field-effect transistors. Applied Physics Letters, 2009, 95, .	1.5	141
49	Triphenyleno[1,12-bcd:4,5-bâ€²câ€²dâ€²:8,9-bâ€³câ€³dâ€³]trithiophene: the first bowl-shaped heteroaromatic. Chemical Communications, 1999, , 1859-1860.	2.2	140
50	Temperatureâ€Independent Transport in Highâ€Mobility Dinaphthoâ€Thienoâ€Thiophene (DNTT) Single Crystal Transistors. Advanced Materials, 2013, 25, 3478-3484.	11.1	133
51	Pyrrolo-Annelated Tetrathiafulvalenes:Â The Parent Systems. Journal of Organic Chemistry, 2000, 65, 5794-5805.	1.7	129
52	A 4 V Operation, Flexible Braille Display Using Organic Transistors, Carbon Nanotube Actuators, and Organic Static Randomâ€Access Memory. Advanced Functional Materials, 2011, 21, 4019-4027.	7.8	128
53	Naphthodithiophene-Based Donorâ€“Acceptor Polymers: Versatile Semiconductors for OFETs and OPVs. ACS Macro Letters, 2012, 1, 437-440.	2.3	128
54	Development of New Semiconducting Materials for Durable High-performance Air-stable Organic Field-effect Transistors. Chemistry Letters, 2007, 36, 578-583.	0.7	127

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55	((Alkyloxy)carbonyl)cyanomethylene-Substituted Thienoquinoidal Compounds: a New Class of Soluble n-Channel Organic Semiconductors for Air-Stable Organic Field-Effect Transistors. Journal of the American Chemical Society, 2010, 132, 10453-10466.	6.6	127
56	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
57	Contact Doping and Ultrathin Gate Dielectrics for Nanoscale Organic Thinâ€Film Transistors. Small, 2011, 7, 1186-1191.	5.2	122
58	Isomerically Pure Anthra[2,3-b:6,7-bâ€²]-difuran (anti-ADF), -dithiophene (anti-ADT), and -diselenophene (anti-ADS): Selective Synthesis, Electronic Structures, and Application to Organic Field-Effect Transistors. Journal of Organic Chemistry, 2012, 77, 8099-8111.	1.7	111
59	Very Small Bandgap Ï€-Conjugated Polymers with Extended Thienoquinoids. Journal of the American Chemical Society, 2016, 138, 7725-7732.	6.6	111
60	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
61	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
62	High Yield Ultrafast Intramolecular Singlet Exciton Fission in a Quinoidal Bithiophene. Journal of Physical Chemistry Letters, 2015, 6, 1375-1384.	2.1	106
63	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
64	Flexible Lowâ€Voltage Organic Transistors with High Thermal Stability at 250 Â°C. Advanced Materials, 2013, 25, 3639-3644.	11.1	101
65	Flexible low-voltage organic thin-film transistors and circuits based on C₁₀-DNTT. Journal of Materials Chemistry, 2012, 22, 4273-4277.	6.7	99
66	Porphyrinâ€'Oligothiopheneâ€'Fullerene Triads as an Efficient Intramolecular Electron-Transfer System. Organic Letters, 2002, 4, 309-311.	2.4	97
67	Sheet-Type Flexible Organic Active Matrix Amplifier System Using Pseudo-CMOS Circuits With Floating-Gate Structure. IEEE Transactions on Electron Devices, 2012, 59, 3434-3441.	1.6	97
68	Synthesis and Properties of a Series of the Longest Oligothiophenes up to the 48-mer. Bulletin of the Chemical Society of Japan, 2001, 74, 979-988.	2.0	94
69	General Synthesis of Dinaphtho[2,3-b:2â€²,3â€²-f]thieno[3,2-b]thiophene (DNTT) Derivatives. Organic Letters, 2011, 13, 3430-3433.	2.4	94
70	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
71	Naphthobischalcogenadiazole Conjugated Polymers: Emerging Materials for Organic Electronics. Advanced Materials, 2017, 29, 1605218.	11.1	91
72	Design strategy for air-stable organic semiconductors applicable to high-performance field-effect transistors. Science and Technology of Advanced Materials, 2007, 8, 273-276.	2.8	89

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73	Solution-Processible Organic Semiconductors Based on Selenophene-Containing Heteroarenes, 2,7-Dialkyl[1]benzoselenopheno[3,2-b][1]benzoselenophenes (C_n-BSBSs): Syntheses, Properties, Molecular Arrangements, and Field-Effect Transistor Characteristics. Chemistry of Materials, 2009, 21, 903-912.	3.2	89
74	Synthesis, Optical, and Conductive Properties of Long Oligothiophenes and Their Utilization as Molecular Wires. Bulletin of the Chemical Society of Japan, 2001, 74, 1789-1801.	2.0	87
75	Solution-processed, Self-organized Organic Single Crystal Arrays with Controlled Crystal Orientation. Scientific Reports, 2012, 2, 393.	1.6	87
76	Organic Field-Effect Transistor Using Oligoselenophene as an Active Layer. Chemistry of Materials, 2003, 15, 6-7.	3.2	86
77	Photoinduced Electron Transfer in Porphyrin-Oligothiophene-Fullerene Linked Triads by Excitation of a Porphyrin Moiety. Journal of Physical Chemistry B, 2004, 108, 10700-10710.	1.2	86
78	Syntheses, Structures, Spectroscopic Properties, and Ï€-Dimeric Interactions of [n.n]Quinquethiophenophanes. Journal of the American Chemical Society, 2005, 127, 8082-8089.	6.6	86
79	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
80	Naphthodithiophenes as building units for small molecules to polymers; a case study for in-depth understanding of structureâ€“property relationships in organic semiconductors. Journal of Materials Chemistry C, 2013, 1, 1297-1304.	2.7	84
81	Transient nature of graphene quantum dot formation via a hydrothermal reaction. RSC Advances, 2014, 4, 55709-55715.	1.7	84
82	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
83	Dithienylthienothiophenebisimide, a Versatile Electronâ€Deficient Unit for Semiconducting Polymers. Advanced Materials, 2016, 28, 6921-6925.	11.1	83
84	Naphthodithiophene Diimide (NDTI)-Based Semiconducting Copolymers: From Ambipolar to Unipolar n-Type Polymers. Macromolecules, 2015, 48, 576-584.	2.2	81
85	Naphtho[2,3-b:6,7-bâ€²]dichalcogenophenes: Syntheses, Characterizations, and Chalcogene Atom Effects on Organic Field-Effect Transistor and Organic Photovoltaic Devices. Chemistry of Materials, 2012, 24, 190-198.	3.2	80
86	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
87	Effect of Chalcogen Atom on the Properties of Naphthobischalcogenadiazole-Based Ï€-Conjugated Polymers. Chemistry of Materials, 2015, 27, 6558-6570.	3.2	78
88	Recent Synthetic Advances of Tetrathiafulvalene-Based Organic Conductors. Bulletin of the Chemical Society of Japan, 2004, 77, 43-58.	2.0	75
89	Benzobisthiazoleâ€Based Semiconducting Copolymers Showing Excellent Environmental Stability in Highâ€Humidity Air. Advanced Materials, 2010, 22, 4993-4997.	11.1	74
90	Quinoidal Oligothiophenes: Towards Biradical Groundâ€State Species. Chemistry - A European Journal, 2010, 16, 470-484.	1.7	74

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91	Megahertz operation of flexible low-voltage organic thin-film transistors. Organic Electronics, 2013, 14, 1516-1520.	1.4	73
92	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
93	Pyrrolo Annelated Tetrathiafulvalenes:Â The Parent Systems. Organic Letters, 1999, 1, 1291-1294.	2.4	70
94	Quasi One-Dimensional Organic Superconductor MDT-TSFâ‹…AuI2 withTc=4.5 K at Ambient Pressure. Angewandte Chemie - International Edition, 2001, 40, 1122-1125.	7.2	70
95	Tuning the effective spin-orbit coupling in molecular semiconductors. Nature Communications, 2017, 8, 15200.	5.8	70
96	2,6-Diarylnaphtho[1,8-bc:5,4-bâ€˜câ€˜]dithiophenes as New High-Performance Semiconductors for Organic Field-Effect Transistors. Journal of the American Chemical Society, 2005, 127, 3605-3612.	6.6	69
97	[2,2â€²]Bi[naphtho[2,3-b]furanyl]: a versatile organic semiconductor with a furanâ€“furan junction. Chemical Communications, 2012, 48, 5892.	2.2	69
98	Thienannulation: Efficient Synthesis of Ï€â€Extended Thienoacenes Applicable to Organic Semiconductors. European Journal of Organic Chemistry, 2013, 2013, 217-227.	1.2	69
99	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
100	Vapour deposited films of quinoidal biselenophene and bithiophene derivatives as active layers of n-channel organic field-effect transistors. Journal of Materials Chemistry, 2004, 14, 1367.	6.7	68
101	Synthesis and Photophysical Properties of Ferroceneâ€'Oligothiopheneâ€'Fullerene Triads. Journal of Organic Chemistry, 2004, 69, 7183-7189.	1.7	68
102	Quinacridone-Based Semiconducting Polymers: Implication of Electronic Structure and Orientational Order for Charge Transport Property. Chemistry of Materials, 2012, 24, 1235-1243.	3.2	68
103	Control of Major Carriers in an Ambipolar Polymer Semiconductor by Selfâ€Assembled Monolayers. Advanced Materials, 2017, 29, 1602893.	11.1	66
104	Design and elaboration of organic molecules for high field-effect-mobility semiconductors. Synthetic Metals, 2016, 217, 68-78.	2.1	65
105	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
106	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
107	Novel dibenzo[a,e]pentalene-based conjugated polymers. Journal of Materials Chemistry C, 2014, 2, 64-70.	2.7	63
108	Three Structural Isomers of Dinaphthothieno[3,2-‹i›b‹/i›]thiophenes: Elucidation of Physicochemical Properties, Crystal Structures, and Field-Effect Transistor Characteristics. Bulletin of the Chemical Society of Japan, 2010, 83, 120-130.	2.0	61

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109	Organic Pseudo-CMOS Circuits for Low-Voltage Large-Gain High-Speed Operation. IEEE Electron Device Letters, 2011, 32, 1448-1450.	2.2	61
110	Î±-Modified Naphthodithiophene Diimidesâ€"Molecular Design Strategy for Air-Stable n-Channel Organic Semiconductors. Chemistry of Materials, 2015, 27, 6418-6425.	3.2	60
111	Air-stable solution-processed ambipolar organic field-effect transistors based on a dicyanomethylene-substituted terheteroquinoid derivative. Chemical Communications, 2009, , 3919.	2.2	59
112	Reverseâ€Offset Printed Ultrathin Ag Mesh for Robust Conformal Transparent Electrodes for Highâ€Performance Organic Photovoltaics. Advanced Materials, 2018, 30, e1707526.	11.1	59
113	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
114	An ambipolar organic field-effect transistor using oligothiophene incorporated with two [60]fullerenes. Journal of Materials Chemistry, 2004, 14, 2840.	6.7	55
115	Highâ€Speed Flexible Organic Fieldâ€Effect Transistors with a 3D Structure. Advanced Materials, 2011, 23, 3047-3051.	11.1	55
116	Direct formation of organic semiconducting single crystals by solvent vapor annealing on a polymer base film. Journal of Materials Chemistry, 2012, 22, 8462.	6.7	55
117	Polyether-Bridged Sexithiophene as a Complexation-Gated Molecular Wire for Intramolecular Photoinduced Electron Transfer. Journal of the American Chemical Society, 2005, 127, 15372-15373.	6.6	54
118	One-step synthesis of [1]benzothieno[3,2-b][1]benzothiophene from o-chlorobenzaldehyde. Tetrahedron Letters, 2011, 52, 285-288.	0.7	54
119	A Convenient Preparation of 1,3-Dithiole-2-thione and 1,3-Diselenole-2-selone Derivatives. Synlett, 1997, 1997, 319-321.	1.0	53
120	Free-electron-like Hall effect in high-mobility organic thin-film transistors. Physical Review B, 2010, 81, .	1.1	53
121	Highly Efficient and Stable Solar Cells Based on Thiazolothiazole and Naphthobisthiadiazole Copolymers. Scientific Reports, 2015, 5, 14202.	1.6	53
122	Synthesis and Spectroscopic Properties of [2.2]Quinquethiophenophane as an Ideal Ï€-Dimer Model. Organic Letters, 2000, 2, 4197-4199.	2.4	52
123	Synthesis and Photophysical Properties of Two Dual Oligothiophene-Fullerene Linkage Molecules as Photoinduced Long-Distance Charge Separation Systems. Journal of Organic Chemistry, 2006, 71, 1761-1768.	1.7	52
124	Synthesis and Characterization of Benzo[1,2-b:3,4-bâ€²:5,6-bâ€²â€²]trithiophene (BTT) Oligomers. Journal of Organic Chemistry, 2011, 76, 4061-4070.	1.7	52
125	Spectral properties of the longest oligothiophenes in the oxidation states. Synthetic Metals, 2001, 119, 413-414.	2.1	51
126	Solution-Processed Dioctylbenzothienobenzothiophene-Based Top-Gate Organic Transistors with High Mobility, Low Threshold Voltage, and High Electrical Stability. Applied Physics Express, 2010, 3, 121601.	1.1	50

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127	Largely Ï€-Extended Thienoacenes with Internal Thieno[3,2-b]thiophene Substructures: Synthesis, Characterization, and Organic Field-Effect Transistor Applications. Organic Letters, 2012, 14, 4914-4917.	2.4	50
128	Correlation between interdomain carrier hopping and apparent mobility in polycrystalline organic transistors as investigated by electron spin resonance. Physical Review B, 2012, 85, .	1.1	50
129	Electrical characteristics of single-component ambipolar organic field-effect transistors and effects of air exposure on them. Journal of Applied Physics, 2008, 103, .	1.1	49
130	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
131	Quinoidal Oligothiophenes with (Acyl)cyanomethylene Termini: Synthesis, Characterization, Properties, and Solution Processed n-Channel Organic Field-Effect Transistors. Chemistry of Materials, 2011, 23, 795-804.	3.2	48
132	Reversible Dimerization and Polymerization of a Janus Diradical To Produce Labile Cî”C Bonds and Large Chromic Effects. Angewandte Chemie - International Edition, 2016, 55, 14563-14568.	7.2	47
133	Novel Selenocycle-Fused TTF-Type of Electron Donors Forming Conducting Molecular Complexes:Â Bis(ethyleneseleno)tetrathiafulvalene (BES-TTF), Diselenolotetrathiafulvalene (DS-TTF), and Bis(ethyleneseleno)tetraselenafulvalene (BES-TSF). Journal of Organic Chemistry, 1998, 63, 8865-8872.	1.7	46
134	Control of Photoinduced Energy- and Electron-Transfer Steps in Zinc Porphyrinî”Oligothiopheneî”Fullerene Linked Triads with Solvent Polarity. Journal of Physical Chemistry B, 2005, 109, 14365-14374.	1.2	46
135	FET Characteristics of Dinaphthothienothiophene (DNTT) on Si/SiO2 Substrates with Various Surface-Modifications. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2007, 20, 57-59.	0.1	46
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