Kazuo Takimiya

List of Publications by Citations

416 papers	21,893 citations	76 h-index	134 g-index
475 ext. papers	23,418 ext. citations	7.2 avg, IF	7.05 L-index

#	Paper	IF	Citations
416	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, 15732-3	16.4	762
415	Thienoacene-based organic semiconductors. *Advanced Materials*, **2011**, 23, 4347-70	24	743
414	Facile synthesis of highly pi-extended heteroarenes, dinaphtho[2,3-b:2',3'-f]chalcogenopheno[3,2-b]chalcogenophenes, and their application to field-effect transistors. *Journal of the American Chemical Society*, **2007**, 129, 2224-5	16.4	734
413	Efficient inverted polymer solar cells employing favourable molecular orientation. *Nature Photonics* , **2015**, 9, 403-408	33.9	705
412	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 cm2 V(-1) s(-1). *Journal of the American Chemical Society*, **2006**, 128, 12604-5	16.4	368
411	Organic semiconductors based on [1]benzothieno[3,2-b][1]benzothiophene substructure. *Accounts of Chemical Research*, **2014**, 47, 1493-502	24.3	357
410	Molecular Ordering of High-Performance Soluble Molecular Semiconductors and Re-evaluation of Their Field-Effect Transistor Characteristics. *Advanced Materials*, **2008**, 20, 3388-3392	24	339
409	Solution-processable organic single crystals with bandlike transport in field-effect transistors. *Advanced Materials*, **2011**, 23, 523-6	24	333
408	High-efficiency polymer solar cells with small photon energy loss. *Nature Communications*, **2015**, 6, 10085	17.4	322
407	Patternable solution-crystallized organic transistors with high charge carrier mobility. *Advanced Materials*, **2011**, 23, 1626-9	24	303
406	Synthesis, characterization, and transistor and solar cell applications of a naphthobisthiadiazole-based semiconducting polymer. *Journal of the American Chemical Society*, **2012**, 134, 3498-507	16.4	302
405	Naphthodithiophene-naphthobisthiadiazole copolymers for solar cells: alkylation drives the polymer backbone flat and promotes efficiency. *Journal of the American Chemical Society*, **2013**, 135, 8834-7	16.4	290
404	Alkylated dinaphtho[2,3-b:2',3'-f]thieno[3,2-b]thiophenes (C(n)-DNTTs): organic semiconductors for high-performance thin-film transistors. *Advanced Materials*, **2011**, 23, 1222-5	24	284
403	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, 10265-75	16.4	277
402	Stretchable and waterproof elastomer-coated organic photovoltaics for washable electronic textile applications. *Nature Energy*, **2017**, 2, 780-785	62.3	270
401	Linear- and angular-shaped naphthodithiophenes: selective synthesis, properties, and application to organic field-effect transistors. *Journal of the American Chemical Society*, **2011**, 133, 5024-35	16.4	258
400	Thiophene-thiazolothiazole copolymers: significant impact of side chain composition on backbone orientation and solar cell performances. *Advanced Materials*, **2014**, 26, 331-8	24	249

399	Functional oligothiophenes as advanced molecular electronic materials. *Journal of Materials Chemistry*, **2002**, 12, 2565-2575		245
398	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	2.4	238
397	Organic transistors with high thermal stability for medical applications. *Nature Communications*, **2012**, 3, 723	17.4	237
396	Consecutive thiophene-annulation approach to extended thienoacene-based organic semiconductors with [1]benzothieno[3,2-b][1]benzothiophene (BTBT) substructure. *Journal of the American Chemical Society*, **2013**, 135, 13900-13	16.4	223
395	Synthesis and spectroscopic properties of a series of beta-blocked long oligothiophenes up to the 96-mer: revaluation of effective conjugation length. *Journal of the American Chemical Society*, **2003**, 125, 5286-7	16.4	218
394	2,6-Diphenylbenzo[1,2-b:4,5-b']dichalcogenophenes: a new class of high-performance semiconductors for organic field-effect transistors. *Journal of the American Chemical Society*, **2004**, 126, 5084-5	16.4	216
393	Contact resistance and megahertz operation of aggressively scaled organic transistors. *Small*, **2012**, 8, 73-9	11	196
392	Impact of isomeric structures on transistor performances in naphthodithiophene semiconducting polymers. *Journal of the American Chemical Society*, **2011**, 133, 6852-60	16.4	194
391	Flexible low-voltage organic transistors and circuits based on a high-mobility organic semiconductor with good air stability. *Advanced Materials*, **2010**, 22, 982-5	24	189
390	Extensive quinoidal oligothiophenes with dicyanomethylene groups at terminal positions as highly amphoteric redox molecules. *Journal of the American Chemical Society*, **2005**, 127, 8928-9	16.4	186
389	Solution-processible n-channel organic field-effect transistors based on dicyanomethylene-substituted terthienoquinoid derivative. *Journal of the American Chemical Society*, **2007**, 129, 11684-5	16.4	182
388	Dianthra[2,3-b:2',3'-f]thieno[3,2-b]thiophene (DATT): synthesis, characterization, and FET characteristics of new extended heteroarene with eight fused aromatic rings. *Journal of the American Chemical Society*, **2011**, 133, 8732-9	16.4	180
387	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, 3044-50	16.4	180
386	Building Blocks for Organic Electronics: Revaluation of Inductive and Resonance Effects of Electron Deficient Units. *Chemistry of Materials*, **2014**, 26, 587-593	9.6	178
385	High-mobility semiconducting naphthodithiophene copolymers. *Journal of the American Chemical Society*, **2010**, 132, 5000-1	16.4	178
384	Organic electronics on banknotes. *Advanced Materials*, **2011**, 23, 654-8	24	174
383	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, 2473-5	6.2	162
382	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, 532-3	16.4	150

381	Drastic change of molecular orientation in a thiazolothiazole copolymer by molecular-weight control and blending with PC61BM leads to high efficiencies in solar cells. *Advanced Materials*, **2012** , 24, 425-30	24	149
380	Naphthodithiophenediimide (NDTI): synthesis, structure, and applications. *Journal of the American Chemical Society*, **2013**, 135, 11445-8	16.4	145
379	Solution-crystallized organic field-effect transistors with charge-acceptor layers: high-mobility and low-threshold-voltage operation in air. *Advanced Materials*, **2011**, 23, 3309-14	24	143
378	Dinaphthopentalenes: pentalene derivatives for organic thin-film transistors. *Angewandte Chemie - International Edition*, **2010**, 49, 7728-32	16.4	143
377	Synthesis, properties, and structures of benzo[1,2-b:4,5-b']bis[b]benzothiophene and benzo[1,2-b:4,5-b']bis[b]benzoselenophene. *Organic Letters*, **2007**, 9, 4499-502	6.2	143
376	On the biradicaloid nature of long quinoidal oligothiophenes: experimental evidence guided by theoretical studies. *Angewandte Chemie - International Edition*, **2007**, 46, 9057-61	16.4	139
375	Synthesis, properties, crystal structures, and semiconductor characteristics of naphtho[1,2-b:5,6-b']dithiophene and -diselenophene derivatives. *Journal of Organic Chemistry*, **2010**, 75, 1228-34	4.2	137
374	Dinaphtho[2,3-b:2?,3?-f]thieno[3,2-b]thiophene (DNTT) thin-film transistors with improved performance and stability. *Organic Electronics*, **2011**, 12, 1370-1375	3.5	132
373	Facile synthesis, structure, and properties of benzo[1,2-b:4,5-b']dichalcogenophenes. *Journal of Organic Chemistry*, **2005**, 70, 10569-71	4.2	131
372	High-performance dinaphtho-thieno-thiophene single crystal field-effect transistors. *Applied Physics Letters*, **2009**, 95, 022111	3.4	130
371	Backbone orientation in semiconducting polymers. *Polymer*, **2015**, 59, A1-A15	3.9	127
370	Triphenyleno[1,12-bcd:4,5-b?c?d?:8,9-b?c?d?]trithiophene: the first bowl-shaped heteroaromatic. *Chemical Communications*, **1999**, 1859-1860	5.8	121
369	Development of New Semiconducting Materials for Durable High-performance Air-stable Organic Field-effect Transistors. *Chemistry Letters*, **2007**, 36, 578-583	1.7	120
368	Naphthodithiophene-Based Donor-Acceptor Polymers: Versatile Semiconductors for OFETs and OPVs.. *ACS Macro Letters*, **2012**, 1, 437-440	6.6	119
367	((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, 10453-66	16.4	119
366	Pyrrolo-annelated tetrathiafulvalenes: the parent systems. *Journal of Organic Chemistry*, **2000**, 65, 5794-805	4.2	118
365	Dimeric Tetrathiafulvalenes: New electron donors. *Advanced Materials*, **1996**, 8, 203-211	24	117
364	Temperature-independent transport in high-mobility dinaphtho-thieno-thiophene (DNTT) single crystal transistors. *Advanced Materials*, **2013**, 25, 3478-84	24	115

363	Naphthodithiophenediimide–Benzobisthiadiazole-Based Polymers: Versatile n-Type Materials for Field-Effect Transistors and Thermoelectric Devices. *Macromolecules*, **2017**, 50, 857-864	5.5	111
362	Contact doping and ultrathin gate dielectrics for nanoscale organic thin-film transistors. *Small*, **2011**, 7, 1186-91	11	111
361	A 4 V Operation, Flexible Braille Display Using Organic Transistors, Carbon Nanotube Actuators, and Organic Static Random-Access Memory. *Advanced Functional Materials*, **2011**, 21, 4019-4027	15.6	109
360	All-Polymer Solar Cell with High Near-Infrared Response Based on a Naphthodithiophene Diimide (NDTI) Copolymer. *ACS Macro Letters*, **2014**, 3, 872-875	6.6	105
359	Isomerically pure anthra[2,3-b:6,7-b']-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, 8099-111	4.2	96
358	Flexible low-voltage organic complementary circuits: finding the optimum combination of semiconductors and monolayer gate dielectrics. *Advanced Materials*, **2015**, 27, 207-14	24	93
357	Flexible low-voltage organic thin-film transistors and circuits based on C10-DNTT. *Journal of Materials Chemistry*, **2012**, 22, 4273-4277		92
356	High Yield Ultrafast Intramolecular Singlet Exciton Fission in a Quinoidal Bithiophene. *Journal of Physical Chemistry Letters*, **2015**, 6, 1375-84	6.4	91
355	Porphyrin-oligothiophene-fullerene triads as an efficient intramolecular electron-transfer system. *Organic Letters*, **2002**, 4, 309-11	6.2	90
354	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	5.1	89
353	Solution-Processible Organic Semiconductors Based on Selenophene-Containing Heteroarenes, 2,7-Dialkyl[1]benzoselenopheno[3,2-b][1]benzoselenophenes (Cn-BSBSs): Syntheses, Properties, Molecular Arrangements, and Field-Effect Transistor Characteristics. *Chemistry of Materials*, **2009**, 21, 903-912	9.6	85
352	Flexible low-voltage organic transistors with high thermal stability at 250 °C. *Advanced Materials*, **2013**, 25, 3639-44	24	84
351	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	3.5	84
350	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	2.9	83
349	General synthesis of dinaphtho[2,3-b:2',3'-f]thieno[3,2-b]thiophene (DNTT) derivatives. *Organic Letters*, **2011**, 13, 3430-3	6.2	83
348	Very Small Bandgap π-Conjugated Polymers with Extended Thienoquinoids. *Journal of the American Chemical Society*, **2016**, 138, 7725-32	16.4	83
347	Photoinduced Electron Transfer in Porphyrin-Oligothiophene-Fullerene Linked Triads by Excitation of a Porphyrin Moiety. *Journal of Physical Chemistry B*, **2004**, 108, 10700-10710	3.4	82
346	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	5.1	81

345	Solution-processed, Self-organized Organic Single Crystal Arrays with Controlled Crystal Orientation. *Scientific Reports*, **2012**, 2, 393	4.9	80
344	Syntheses, structures, spectroscopic properties, and pi-dimeric interactions of [n.n]quinquethiophenophanes. *Journal of the American Chemical Society*, **2005**, 127, 8082-9	16.4	80
343	Naphthodithiophenes as building units for small molecules to polymers; a case study for in-depth understanding of structure□property relationships in organic semiconductors. *Journal of Materials Chemistry C*, **2013**, 1, 1297-1304	7.1	79
342	Organic Field-Effect Transistor Using Oligoselenophene as an Active Layer. *Chemistry of Materials*, **2003**, 15, 6-7	9.6	79
341	Design strategy for air-stable organic semiconductors applicable to high-performance field-effect transistors. *Science and Technology of Advanced Materials*, **2007**, 8, 273-276	7.1	78
340	Naphtho[2,3-b:6,7-b?]dichalcogenophenes: Syntheses, Characterizations, and Chalcogene Atom Effects on Organic Field-Effect Transistor and Organic Photovoltaic Devices. *Chemistry of Materials*, **2012**, 24, 190-198	9.6	74
339	Chasing the "Killer" Phonon Mode for the Rational Design of Low-Disorder, High-Mobility Molecular Semiconductors. *Advanced Materials*, **2019**, 31, e1902407	24	73
338	Dithienylthienothiophenebisimide, a Versatile Electron-Deficient Unit for Semiconducting Polymers. *Advanced Materials*, **2016**, 28, 6921-5	24	73
337	Diphenyl derivatives of dinaphtho[2,3-b:2',3'-f]thieno[3,2-b]thiophene: organic semiconductors for thermally stable thin-film transistors. *ACS Applied Materials & Interfaces*, **2013**, 5, 2331-6	9.5	73
336	Naphthobischalcogenadiazole Conjugated Polymers: Emerging Materials for Organic Electronics. *Advanced Materials*, **2017**, 29, 1605218	24	72
335	Transient nature of graphene quantum dot formation via a hydrothermal reaction. *RSC Advances*, **2014**, 4, 55709-55715	3.7	71
334	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	5.5	70
333	Naphthodithiophene Diimide (NDTI)-Based Semiconducting Copolymers: From Ambipolar to Unipolar n-Type Polymers. *Macromolecules*, **2015**, 48, 576-584	5.5	69
332	Benzobisthiazole-based semiconducting copolymers showing excellent environmental stability in high-humidity air. *Advanced Materials*, **2010**, 22, 4993-7	24	69
331	Recent Synthetic Advances of Tetrathiafulvalene-Based Organic Conductors. *Bulletin of the Chemical Society of Japan*, **2004**, 77, 43-58	5.1	69
330	Thienannulation: Efficient Synthesis of □Extended Thienoacenes Applicable to Organic Semiconductors. *European Journal of Organic Chemistry*, **2013**, 2013, 217-227	3.2	66
329	Detailed analysis and contact properties of low-voltage organic thin-film transistors based on dinaphtho[2,3-b:2?,3?-f]thieno[3,2-b]thiophene (DNTT) and its didecyl and diphenyl derivatives. *Organic Electronics*, **2016**, 35, 33-40	3.5	66
328	Effect of Chalcogen Atom on the Properties of Naphthobischalcogenadiazole-Based □Conjugated Polymers. *Chemistry of Materials*, **2015**, 27, 6558-6570	9.6	65

327	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	5.5	65
326	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		65
325	Synthesis and photophysical properties of ferrocene-oligothiophene-fullerene triads. *Journal of Organic Chemistry*, **2004**, 69, 7183-9	4.2	65
324	Quinacridone-Based Semiconducting Polymers: Implication of Electronic Structure and Orientational Order for Charge Transport Property. *Chemistry of Materials*, **2012**, 24, 1235-1243	9.6	64
323	Quinoidal oligothiophenes: towards biradical ground-state species. *Chemistry - A European Journal*, **2010**, 16, 470-84	4.8	63
322	Quasi One-Dimensional Organic Superconductor MDT-TSF small middle dotAuI(2) with T(c)=4.5 K at Ambient Pressure This work was supported by Grants-in-Aid for Scientific Research from the Ministry of Education, Science, Sports, and Culture of Japan. We thank the Cryogenic Center, Hiroshima University, for supplying liquid helium.. *Angewandte Chemie - International Edition*, **2001**,	16.4	63
321	Megahertz operation of flexible low-voltage organic thin-film transistors. *Organic Electronics*, **2013**, 14, 1516-1520	3.5	62
320	2,6-Diarylnaphtho[1,8-bc:5,4-b'c']dithiophenes as new high-performance semiconductors for organic field-effect transistors. *Journal of the American Chemical Society*, **2005**, 127, 3605-12	16.4	61
319	Highly oriented polymer semiconductor films compressed at the surface of ionic liquids for high-performance polymeric organic field-effect transistors. *Advanced Materials*, **2014**, 26, 6430-5	24	60
318	Pyrrolo Annelated Tetrathiafulvalenes:□The Parent Systems. *Organic Letters*, **1999**, 1, 1291-1294	6.2	59
317	Novel dibenzo[a,e]pentalene-based conjugated polymers. *Journal of Materials Chemistry C*, **2014**, 2, 64-70	7.1	58
316	[2,2']Bi[naphtho[2,3-b]furanyl]: a versatile organic semiconductor with a furan-furan junction. *Chemical Communications*, **2012**, 48, 5892-4	5.8	57
315	Dinaphthopentalenes: Pentalene Derivatives for Organic Thin-Film Transistors. *Angewandte Chemie* , **2010**, 122, 7894-7898	3.6	56
314	□Modified Naphthodithiophene Diimides□Molecular Design Strategy for Air-Stable n-Channel Organic Semiconductors. *Chemistry of Materials*, **2015**, 27, 6418-6425	9.6	55
313	Three Structural Isomers of Dinaphthothieno[3,2-b]thiophenes: Elucidation of Physicochemical Properties, Crystal Structures, and Field-Effect Transistor Characteristics. *Bulletin of the Chemical Society of Japan*, **2010**, 83, 120-130	5.1	54
312	Polyether-bridged sexithiophene as a complexation-gated molecular wire for intramolecular photoinduced electron transfer. *Journal of the American Chemical Society*, **2005**, 127, 15372-3	16.4	54
311	Thermally, Operationally, and Environmentally Stable Organic Thin-Film Transistors Based on Bis[1]benzothieno[2,3-d:2?,3?-d?]naphtho[2,3-b:6,7-b?]dithiophene Derivatives: Effective Synthesis, Electronic Structures, and Structure□Property Relationship. *Chemistry of Materials*, **2015**, 27, 5049-5057	9.6	53
310	High-speed flexible organic field-effect transistors with a 3D structure. *Advanced Materials*, **2011**, 23, 3047-51	24	53

309	Air-stable solution-processed ambipolar organic field-effect transistors based on a dicyanomethylene-substituted terheteroquinoid derivative. *Chemical Communications*, **2009**, 3919-21	5.8	53
308	Thiophene-Fused Naphthalene Diimides: New Building Blocks for Electron Deficient Functional Materials. *Bulletin of the Chemical Society of Japan*, **2018**, 91, 121-140	5.1	52
307	Direct formation of organic semiconducting single crystals by solvent vapor annealing on a polymer base film. *Journal of Materials Chemistry*, **2012**, 22, 8462		52
306	Naphthodithiophenediimide-Bithiopheneimide Copolymers for High-Performance n-Type Organic Thermoelectrics: Significant Impact of Backbone Orientation on Conductivity and Thermoelectric Performance. *Advanced Materials*, **2020**, 32, e2002060	24	51
305	Benzothienobenzothiophene-Based Molecular Conductors: High Conductivity, Large Thermoelectric Power Factor, and One-Dimensional Instability. *Journal of the American Chemical Society*, **2016**, 138, 3920-5	16.4	51
304	Tuning the effective spin-orbit coupling in molecular semiconductors. *Nature Communications*, **2017**, 8, 15200	17.4	50
303	Design and elaboration of organic molecules for high field-effect-mobility semiconductors. *Synthetic Metals*, **2016**, 217, 68-78	3.6	50
302	Free-electron-like Hall effect in high-mobility organic thin-film transistors. *Physical Review B*, **2010**, 81,	3.3	50
301	Highly Efficient and Stable Solar Cells Based on Thiazolothiazole and Naphthobisthiadiazole Copolymers. *Scientific Reports*, **2015**, 5, 14202	4.9	49
300	One-step synthesis of [1]benzothieno[3,2-b][1]benzothiophene from o-chlorobenzaldehyde. *Tetrahedron Letters*, **2011**, 52, 285-288	2	49
299	Reverse-Offset Printed Ultrathin Ag Mesh for Robust Conformal Transparent Electrodes for High-Performance Organic Photovoltaics. *Advanced Materials*, **2018**, 30, e1707526	24	48
298	Control of Major Carriers in an Ambipolar Polymer Semiconductor by Self-Assembled Monolayers. *Advanced Materials*, **2017**, 29, 1602893	24	48
297	Organic Pseudo-CMOS Circuits for Low-Voltage Large-Gain High-Speed Operation. *IEEE Electron Device Letters*, **2011**, 32, 1448-1450	4.4	48
296	Solution-Processed Dioctylbenzothienobenzothiophene-Based Top-Gate Organic Transistors with High Mobility, Low Threshold Voltage, and High Electrical Stability. *Applied Physics Express*, **2010**, 3, 121601	2.4	48
295	Synthesis and photophysical properties of two dual oligothiophene-fullerene linkage molecules as photoinduced long-distance charge separation systems. *Journal of Organic Chemistry*, **2006**, 71, 1761-8	4.2	48
294	Spectral properties of the longest oligothiophenes in the oxidation states. *Synthetic Metals*, **2001**, 119, 413-414	3.6	48
293	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	9.6	47
292	An ambipolar organic field-effect transistor using oligothiophene incorporated with two [60]fullerenes. *Journal of Materials Chemistry*, **2004**, 14, 2840		47

291	Synthesis and spectroscopic properties of. *Organic Letters*, **2000**, 2, 4197-9	6.2	47
290	Angular-Shaped 4,9-Dialkyl □and □Naphthodithiophene-Based Donor□Acceptor Copolymers: Investigation of Isomeric Structural Effects on Molecular Properties and Performance of Field-Effect Transistors and Photovoltaics. *Advanced Functional Materials*, **2015**, 25, 6131-6143	15.6	46
289	Electrical characteristics of single-component ambipolar organic field-effect transistors and effects of air exposure on them. *Journal of Applied Physics*, **2008**, 103, 094509	2.5	46
288	On the Biradicaloid Nature of Long Quinoidal Oligothiophenes: Experimental Evidence Guided by Theoretical Studies. *Angewandte Chemie*, **2007**, 119, 9215-9219	3.6	46
287	Synthesis and characterization of benzo[1,2-b:3,4-b':5,6-b'']trithiophene (BTT) oligomers. *Journal of Organic Chemistry*, **2011**, 76, 4061-70	4.2	45
286	A Convenient Preparation of 1,3-Dithiole-2-thione and 1,3-Diselenole-2-selone Derivatives. *Synlett*, **1997**, 1997, 319-321	2.2	45
285	Alkylated 2,6-Bis(dicyanomethylene)-2,6-dihydrobenzo[1,2-b:4,5-b?]dithiophenes: New Soluble n-Channel Organic Semiconductors for Air-stable OFETs. *Chemistry Letters*, **2009**, 38, 568-569	1.7	44
284	Control of photoinduced energy- and electron-transfer steps in zinc porphyrin-oligothiophene-fullerene linked triads with solvent polarity. *Journal of Physical Chemistry B*, **2005**, 109, 14365-74	3.4	44
283	Organic superconductor with an incommensurate anion structure: (MDT□TSF)(AuI2)0.44. *Physical Review B*, **2002**, 65,	3.3	44
282	Preparation and Photoelectrochemical Properties of Gold Electrodes Modified with [60]Fullerene-Linked Oligothiophenes. *Chemistry Letters*, **2000**, 29, 570-571	1.7	43
281	Reversible Dimerization and Polymerization of a Janus Diradical To Produce Labile C-C Bonds and Large Chromic Effects. *Angewandte Chemie - International Edition*, **2016**, 55, 14563-14568	16.4	42
280	Largely □extended thienoacenes with internal thieno[3,2-b]thiophene substructures: synthesis, characterization, and organic field-effect transistor applications. *Organic Letters*, **2012**, 14, 4914-7	6.2	42
279	Unique three-dimensional (3D) molecular array in dimethyl-DNTT crystals: a new approach to 3D organic semiconductors. *Chemical Science*, **2010**, 1, 179	9.4	42
278	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	0.7	42
277	Correlation between interdomain carrier hopping and apparent mobility in polycrystalline organic transistors as investigated by electron spin resonance. *Physical Review B*, **2012**, 85,	3.3	41
276	Development and Photovoltaic Performance of Oligothiophene-sensitized TiO2Solar Cells. *Chemistry Letters*, **2006**, 35, 592-593	1.7	41
275	Quinoidal naphtho[1,2-b:5,6-b']dithiophenes for solution-processed n-channel organic field-effect transistors. *Organic Letters*, **2014**, 16, 1334-7	6.2	40
274	Single-Crystal-Like Organic Thin-Film Transistors Fabricated from Dinaphtho[2,3-b:2',3'-f]thieno[3,2-b]thiophene (DNTT) Precursor-Polystyrene Blends. *Advanced Materials*, **2015**, 27, 6606-11	24	40

273	Soluble organic semiconductor precursor with specific phase separation for high-performance printed organic transistors. *Advanced Materials*, **2015**, 27, 727-32	24	39
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