Kazuo Takimiya

List of Publications by Year in Descending Order

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	Bandlike versus Temperature-Independent Carrier Transport in Isomeric Diphenyldinaphtho[2,3-b:2?,3?-f]thieno[3,2-b]thiophenes **2022**, 4, 675-681		2
415	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	2.1	
414	Highly-efficient terahertz emission from hydrogen-bonded single molecular crystal 4-nitro-2,5-bis(phenylethynyl)aniline. *Optics Express*, **2021**, 29, 10048-10058	3.3	1
413	Crystal Structures of Methylchalcogenated Tetrathienoacenes: From One-Dimensional Stacking to Sandwich Pitched Stacking Structure. *Crystal Growth and Design*, **2021**, 21, 4055-4063	3.5	0
412	Dihedral-Angle Dependence of Intermolecular Transfer Integrals in BEDT-BDT-Based Radical-Cation Salts with Type Molecular Arrangements. *Crystals*, **2021**, 11, 868	2.3	0
411	Naphthobisthiadiazole-Based Semiconducting Polymers for High-Efficiency Organic Photovoltaics **2021**, 321-341		
410	A Design Principle for Polar Assemblies with C -Sym Bowl-Shaped Conjugated Molecules. *Angewandte Chemie - International Edition*, **2021**, 60, 3261-3267	16.4	5
409	Low voltage operating organic light emitting transistors with efficient charge blocking layer. *Organic Electronics*, **2021**, 88, 106024	3.5	3
408	A Design Principle for Polar Assemblies with C3-Sym Bowl-Shaped Conjugated Molecules. *Angewandte Chemie*, **2021**, 133, 3298-3304	3.6	1
407	"Manipulation" of Crystal Structure by Methylthiolation Enabling Ultrahigh Mobility in a Pyrene-Based Molecular Semiconductor. *Advanced Materials*, **2021**, 33, e2102914	24	8
406	Strong Suppression of Thermal Conductivity in the Presence of Long Terminal Alkyl Chains in Low-Disorder Molecular Semiconductors. *Advanced Materials*, **2021**, 33, e2008708	24	8
405	Quinoid-Aromatic Resonance for Very Small Optical Energy Gaps in Small-Molecule Organic Semiconductors: A Naphthodithiophenedione-oligothiophene Triad System. *Chemistry - A European Journal*, **2021**, 27, 15660-15670	4.8	1
404	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,	4.3	1
403	Heavy-atom effects in the parent [1]benzochalcogenopheno[3,2-b][1]benzochalcogenophene system. *Journal of Materials Chemistry C*, **2020**, 8, 15119-15127	7.1	6
402	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
401	Spatial extent of wave functions of charge carriers in a thienothiophene-based high-mobility molecular semiconductor. *Applied Physics Express*, **2020**, 13, 041004	2.4	1
400	Carbonyl-Terminated Quinoidal Oligothiophenes as p-Type Organic Semiconductors. *Materials*, **2020**, 13,	3.5	3

399	"Disrupt and induce" intermolecular interactions to rationally design organic semiconductor crystals: from herringbone to rubrene-like pitched □stacking. *Chemical Science*, **2020**, 11, 1573-1580	9.4	17
398	Tuning Spin Current Injection at Ferromagnet-Nonmagnet Interfaces by Molecular Design. *Physical Review Letters*, **2020**, 124, 027204	7.4	9
397	Crystal Structures of Dimethoxyanthracens: A Clue to a Rational Design of Packing Structures of □Conjugated Molecules. *Chemistry - an Asian Journal*, **2020**, 15, 915-919	4.5	5
396	Gate-tunable gas sensing behaviors in air-stable ambipolar organic thin-film transistors.. *RSC Advances*, **2020**, 10, 1910-1916	3.7	11
395	Synthesis of Soluble Dinaphtho[2,3-:2',3'-]thieno[3,2-]thiophene (DNTT) Derivatives: One-Step Functionalization of 2-Bromo-DNTT. *Journal of Organic Chemistry*, **2020**, 85, 195-206	4.2	10
394	Controlled steric selectivity in molecular doping towards closest-packed supramolecular conductors. *Communications Materials*, **2020**, 1,	6	5
393	Two-dimensional radical□cationic Mott insulator based on an electron donor containing neither a tetrathiafulvalene nor tetrathiapentalene skeleton. *CrystEngComm*, **2020**, 22, 5949-5953	3.3	1
392	Chasing the "Killer" Phonon Mode for the Rational Design of Low-Disorder, High-Mobility Molecular Semiconductors. *Advanced Materials*, **2019**, 31, e1902407	24	73
391	Two isomeric perylenothiophene diimides: physicochemical properties and applications in organic semiconducting devices. *Journal of Materials Chemistry C*, **2019**, 7, 2267-2275	7.1	9
390	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	3.5	6
389	Selenium-Substituted □Methylthiobenzo[1,2-b:4,5-b?]dithiophenes: Synthesis, Packing Structure, and Transport Properties. *Chemistry of Materials*, **2019**, 31, 6696-6705	9.6	20
388	High Operation Stability of Ultraflexible Organic Solar Cells with Ultraviolet-Filtering Substrates. *Advanced Materials*, **2019**, 31, e1808033	24	28
387	Low optical turn-on voltage in solution processed hybrid light emitting transistor. *Applied Physics Letters*, **2019**, 115, 023301	3.4	8
386	Tuning the absorption range of naphthothiophene diimide-based acceptors for organic solar cells. *Dyes and Pigments*, **2019**, 171, 107691	4.6	
385	Naphtho[1,2-b:5,6-b?]dithiophene Building Blocks and their Complexation with Cyclobis(paraquat-p-phenylene). *European Journal of Organic Chemistry*, **2019**, 2019, 7532-7540	3.2	1
384	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	7.9	22
383	Durable Ultraflexible Organic Photovoltaics with Novel Metal-Oxide-Free Cathode. *Advanced Functional Materials*, **2019**, 29, 1808378	15.6	21
382	Synthesis of Thiophene-annulated Naphthalene Diimide-based Small-Molecular Acceptors via Two-step C-H Activation. *Chemistry - an Asian Journal*, **2019**, 14, 1651-1656	4.5	4

381	High-performance didodecylbenzothienobenzothiophene-based top-gate organic transistors processed by spin coating using binary solvent mixtures. *Organic Electronics*, **2018**, 58, 306-312	3.5	6
380	Thiacycle-fused benzo[1,2-b:4,5-b?]dithiophenes (BDTs): synthesis, packing, molecular orientation and semiconducting properties. *Journal of Materials Chemistry C*, **2018**, 6, 3604-3612	7.1	16
379	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
378	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	3.5	10
377	Extended and Modulated Thienothiophenes for Thermally Durable and Solution-Processable Organic Semiconductors. *Chemistry of Materials*, **2018**, 30, 5050-5060	9.6	20
376	Reverse-Offset Printed Ultrathin Ag Mesh for Robust Conformal Transparent Electrodes for High-Performance Organic Photovoltaics. *Advanced Materials*, **2018**, 30, e1707526	24	48
375	Thienoquinoidal System: Promising Molecular Architecture for Optoelectronic Applications. *Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry*, **2018**, 76, 1176-1184	0.2	15
374	Air-stable and balanced split-gate organic transistors. *Organic Electronics*, **2018**, 63, 200-206	3.5	2
373	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	24	2
372	Selective thionation of naphtho[2,3-b]thiophene diimide: tuning of the optoelectronic properties and packing structure. *Organic Chemistry Frontiers*, **2017**, 4, 704-710	5.2	9
371	NaphthodithiophenediimideBenzobisthiadiazole-Based Polymers: Versatile n-Type Materials for Field-Effect Transistors and Thermoelectric Devices. *Macromolecules*, **2017**, 50, 857-864	5.5	111
370	Very Strong Binding for a Neutral Calix[4]pyrrole Receptor Displaying Positive Allosteric Binding. *Journal of Organic Chemistry*, **2017**, 82, 2123-2128	4.2	8
369	Naphthobischalcogenadiazole Conjugated Polymers: Emerging Materials for Organic Electronics. *Advanced Materials*, **2017**, 29, 1605218	24	72
368	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
367	Cumulative gain in organic solar cells by using multiple optical nanopatterns. *Journal of Materials Chemistry A*, **2017**, 5, 10347-10354	13	17
366	Tuning the effective spin-orbit coupling in molecular semiconductors. *Nature Communications*, **2017**, 8, 15200	17.4	50
365	High-performance solution-processed organic thin-film transistors based on a soluble DNTT derivative. *Organic Electronics*, **2017**, 46, 68-76	3.5	8
364	Dithienyl Acenedithiophenediones as New Extended Quinoidal Cores: Synthesis and Properties. *Chemistry - A European Journal*, **2017**, 23, 4579-4589	4.8	14

363	Effects of Selenium Atoms on [1]Benzochalcogenopheno[3,2-b][1]benzochalcogenophene-based Organic Semiconductors. *Chemistry Letters*, **2017**, 46, 345-347	1.7	9
362	Stretchable and waterproof elastomer-coated organic photovoltaics for washable electronic textile applications. *Nature Energy*, **2017**, 2, 780-785	62.3	270
361	Methylthionated benzo[1,2-b:4,5-b']dithiophenes: a model study to control packing structures and molecular orientation in thienoacene-based organic semiconductors. *Chemical Communications*, **2017**, 53, 9594-9597	5.8	15
360	2-V operated flexible vertical organic transistor with good air stability and bias stress reliability. *Organic Electronics*, **2017**, 50, 325-330	3.5	13
359	Ionic manipulation of charge-transfer and photodynamics of [60]fullerene confined in pyrrolo-tetrathiafulvalene cage. *Chemical Communications*, **2017**, 53, 9898-9901	5.8	5
358	Bis(naphthothiophene diimide)indacenodithiophenes as Acceptors for Organic Photovoltaics. *Chemistry of Materials*, **2017**, 29, 9618-9622	9.6	26
357	Control of Major Carriers in an Ambipolar Polymer Semiconductor by Self-Assembled Monolayers. *Advanced Materials*, **2017**, 29, 1602893	24	48
356	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	2.7	20
355	Sodium Sulfide-Promoted Thiophene-Annulations: Powerful Tools for Elaborating Organic Semiconducting Materials. *Chemistry of Materials*, **2017**, 29, 256-264	9.6	32
354	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	7.1	32
353	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
352	N,N'-Unsubstituted Naphthodithiophene Diimide: Synthesis and Derivatization via N-Alkylation and -Arylation. *Organic Letters*, **2016**, 18, 3770-3	6.2	14
351	Reversible Dimerization and Polymerization of a Janus Diradical To Produce Labile C□C Bonds and Large Chromic Effects. *Angewandte Chemie*, **2016**, 128, 14783-14788	3.6	15
350	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
349	Dithienylthienothiophenebisimide, a Versatile Electron-Deficient Unit for Semiconducting Polymers. *Advanced Materials*, **2016**, 28, 6921-5	24	73
348	Soluble Dinaphtho[2,3-b:2',3'-f]thieno[3,2-b]thiophene Derivatives for Solution-Processed Organic Field-Effect Transistors. *ACS Applied Materials & Interfaces*, **2016**, 8, 3810-24	9.5	35
347	Design and elaboration of organic molecules for high field-effect-mobility semiconductors. *Synthetic Metals*, **2016**, 217, 68-78	3.6	50
346	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	1.8	17

345	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
344	Amide-bridged terphenyl and dithienylbenzene units for semiconducting polymers. *RSC Advances*, **2016**, 6, 16437-16447	3.7	3
343	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
342	N,N'-Bis(2-cyclohexylethyl)naphtho[2,3-b:6,7-b']dithiophene Diimides: Effects of Substituents. *Molecules*, **2016**, 21,	4.8	8
341	Analyses of Thiophene-Based Donor–Acceptor Semiconducting Polymers toward Designing Optical and Conductive Properties: A Theoretical Perspective. *Journal of Physical Chemistry C*, **2016**, 120, 8305-8314	4.8	15
340	Very Small Bandgap π-Conjugated Polymers with Extended Thienoquinoids. *Journal of the American Chemical Society*, **2016**, 138, 7725-32	16.4	83
339	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
338	Naphthodithiophene Diimide (NDTI)-Based Semiconducting Copolymers: From Ambipolar to Unipolar n-Type Polymers. *Macromolecules*, **2015**, 48, 576-584	5.5	69
337	High Yield Ultrafast Intramolecular Singlet Exciton Fission in a Quinoidal Bithiophene. *Journal of Physical Chemistry Letters*, **2015**, 6, 1375-84	6.4	91
336	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
335	Thienothiophene-2,5-Dione-Based Donor–Acceptor Polymers: Improved Synthesis and Influence of the Donor Units on Ambipolar Charge Transport Properties. *Advanced Electronic Materials*, **2015**, 1, 1500039	6.4	27
334	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	7.1	32
333	Modeling of Drain Current Mismatch in Organic Thin-Film Transistors. *Journal of Display Technology*, **2015**, 11, 559-563		5
332	Modified Naphthodithiophene Diimides: Molecular Design Strategy for Air-Stable n-Channel Organic Semiconductors. *Chemistry of Materials*, **2015**, 27, 6418-6425	9.6	55
331	Effect of Chalcogen Atom on the Properties of Naphthobischalcogenadiazole-Based π-Conjugated Polymers. *Chemistry of Materials*, **2015**, 27, 6558-6570	9.6	65
330	Naphthodithiophenes: emerging building blocks for organic electronics. *Chemical Record*, **2015**, 15, 175-88	6.6	17
329	Flexible low-voltage organic complementary circuits: finding the optimum combination of semiconductors and monolayer gate dielectrics. *Advanced Materials*, **2015**, 27, 207-14	24	93
328	Soluble organic semiconductor precursor with specific phase separation for high-performance printed organic transistors. *Advanced Materials*, **2015**, 27, 727-32	24	39

327	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	7.1	24
326	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	24	
325	Thienoacenes **2015**, 359-382		
324	Highly Efficient and Stable Solar Cells Based on Thiazolothiazole and Naphthobisthiadiazole Copolymers. *Scientific Reports*, **2015**, 5, 14202	4.9	49
323	Solution-processed dinaphtho[2,3-b:2?,3?-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	2.4	6
322	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
321	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
320	Efficient inverted polymer solar cells employing favourable molecular orientation. *Nature Photonics* , **2015**, 9, 403-408	33.9	705
319	High-efficiency polymer solar cells with small photon energy loss. *Nature Communications*, **2015**, 6, 10085	17.4	322
318	Backbone orientation in semiconducting polymers. *Polymer*, **2015**, 59, A1-A15	3.9	127
317	Flat-lying semiconductor-insulator interfacial layer in DNTT thin films. *ACS Applied Materials & Interfaces*, **2015**, 7, 1833-40	9.5	36
316	Solution-processed single-crystalline organic transistors on patterned ultrathin gate insulators. *Organic Electronics*, **2014**, 15, 1184-1188	3.5	14
315	Novel dibenzo[a,e]pentalene-based conjugated polymers. *Journal of Materials Chemistry C*, **2014**, 2, 64-70	7.1	58
314	Thiophene-thiazolothiazole copolymers: significant impact of side chain composition on backbone orientation and solar cell performances. *Advanced Materials*, **2014**, 26, 331-8	24	249
313	Towards colorless transparent organic transistors: potential of benzothieno[3,2-b]benzothiophene-based wide-gap semiconductors. *Advanced Materials*, **2014**, 26, 3105-10	24	23
312	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
311	Contrasting Effect of Alkylation on the Ordering Structure in Isomeric Naphthodithiophene-Based Polymers. *Macromolecules*, **2014**, 47, 3502-3510	5.5	30
310	Dithiophene-Fused Tetracyanonaphthoquinodimethanes (DT-TNAPs): synthesis and characterization of □extended quinoidal compounds for n-channel organic semiconductor. *Organic Letters*, **2014**, 16, 240-3	6.2	24

309	Highly transparent thin-film transistors using wide-bandgap organic semiconductors and multilayer transparent electrodes. *Journal of Information Display*, **2014**, 15, 59-63	4.1	3
308	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	7.1	25
307	Air-stable, low-voltage organic transistors: High-mobility thienoacene derivatives for unipolar and complementary ring oscillators on flexible substrates **2014**,		1
306	Transient nature of graphene quantum dot formation via a hydrothermal reaction. *RSC Advances*, **2014**, 4, 55709-55715	3.7	71
305	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
304	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	3.5	20
303	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
302	Organic semiconductors based on [1]benzothieno[3,2-b][1]benzothiophene substructure. *Accounts of Chemical Research*, **2014**, 47, 1493-502	24.3	357
301	Split-gate organic field-effect transistors for high-speed operation. *Advanced Materials*, **2014**, 26, 2983-8	24	29
300	Achieving high efficiency and stability in inverted organic solar cells fabricated by laminated gold leaf as top electrodes. *Applied Physics Express*, **2014**, 7, 111602	2.4	7
299	5, 10-linked naphthodithiophenes as the building block for semiconducting polymers. *Science and Technology of Advanced Materials*, **2014**, 15, 024201	7.1	4
298	Low-voltage organic field-effect transistors for flexible electronics **2014**,		1
297	Effect of Oxygen-Containing Functional Side Chains on the Electronic Properties and Photovoltaic Performances in a Thiophene-Thiazolothiazole Copolymer System. *Heteroatom Chemistry*, **2014**, 25, 556-564	1.2	5
296	Crystalline conjugated polymers for organic electronics. *IOP Conference Series: Materials Science and Engineering*, **2014**, 54, 012016	0.4	1
295	The Elusive Ethenediselone, Se=C=C=Se. *Australian Journal of Chemistry*, **2014**, 67, 1195	1.2	6
294	Low-temperature carrier dynamics in high-mobility organic transistors of alkylated dinaphtho-thienothiophene as investigated by electron spin resonance. *Applied Physics Letters*, **2014**, 105, 033301	3.4	13
293	Organic Electronics: Towards Colorless Transparent Organic Transistors: Potential of Benzothieno[3,2-b]benzothiophene-Based Wide-Gap Semiconductors (Adv. Mater. 19/2014). *Advanced Materials*, **2014**, 26, 3163-3163	24	1
292	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	2.6	13

291	[1]Benzothieno[3,2-b][1]benzothiophenes- and dinaphtho[2,3-b:2?,3?-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	2.2	11
290	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
289	Naphthodithiophenediimide (NDTI): synthesis, structure, and applications. *Journal of the American Chemical Society*, **2013**, 135, 11445-8	16.4	145
288	Flexible low-voltage organic transistors with high thermal stability at 250 °C. *Advanced Materials*, **2013**, 25, 3639-44	24	84
287	Droplet manipulation by an external electric field for crystalline film growth. *Langmuir*, **2013**, 29, 9592-7	4	13
286	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
285	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
284	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
283	Megahertz operation of flexible low-voltage organic thin-film transistors. *Organic Electronics*, **2013**, 14, 1516-1520	3.5	62
282	Flexible air-stable three-dimensional polymer field-effect transistors with high output current density. *Organic Electronics*, **2013**, 14, 2908-2915	3.5	16
281	Anomalous pressure effect in heteroacene organic field-effect transistors. *Physical Review Letters*, **2013**, 110, 096603	7.4	21
280	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
279	Thienannulation: Efficient Synthesis of Extended Thienoacenes Applicable to Organic Semiconductors. *European Journal of Organic Chemistry*, **2013**, 2013, 217-227	3.2	66
278	Ultraviolet photoelectron spectra of 2,7-diphenyl[1]benzothieno[3,2-b][1]benzothiophene and dinaphtho[2,3-b:2?,3?-f]thieno[3,2-b]thiophene. *Chemical Physics Letters*, **2013**, 563, 55-57	2.5	18
277	5,10-Diborylated naphtho[1,2-c:5,6-c?]bis[1,2,5]thiadiazole: a ready-to-use precursor for the synthesis of high-performance semiconducting polymers. *Polymer Chemistry*, **2013**, 4, 5224	4.9	16
276	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
275	Quinacridone-Diketopyrrolopyrrole-Based Polymers for Organic Field-Effect Transistors. *Materials*, **2013**, 6, 1061-1071	3.5	11
274	Benchmarking of a surface potential based organic thin-film transistor model against C10-DNTT high performance test devices **2013**,		3

273	Temperature-independent transport in high-mobility dinaphtho-thieno-thiophene (DNTT) single crystal transistors. *Advanced Materials*, **2013**, 25, 3478-84	24	115
272	Forming semiconductor/dielectric double layers by one-step spin-coating for enhancing the performance of organic field-effect transistors. *Organic Electronics*, **2012**, 13, 1146-1151	3.5	33
271	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
270	Electroconductive Junction Au Nanoparticles. *Bulletin of the Chemical Society of Japan*, **2012**, 85, 957-964	3.1	18
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