Gui Yu

List of Publications by Year in Descending Order

150 papers	9,346 citations	39 h-index	95 g-index
153 ext. papers	10,278 ext. citations	10.5 avg, IF	6.24 L-index

#	Paper	IF	Citations
150	growth of large-area and self-aligned graphene nanoribbon arrays on liquid metal.. *National Science Review*, **2021**, 8, nwaa298	10.8	3
149	Continuous orientated growth of scaled single-crystal 2D monolayer films. *Nanoscale Advances*, **2021**, 3, 6545-6567	5.1	0
148	Developing Graphene-Based Moir Heterostructures for Twistronics. *Advanced Science*, **2021**, 9, e2103170	13.6	4
147	Semiconducting Polymers Based on Isoindigo and Its Derivatives: Synthetic Tactics, Structural Modifications, and Applications. *Advanced Functional Materials*, **2021**, 31, 2010979	15.6	15
146	Multicomponent Blend Systems Used in Organic Field-Effect Transistors: Charge Transport Properties, Large-Area Preparation, and Functional Devices. *Chemistry of Materials*, **2021**, 33, 2229-2257	9.6	10
145	Innovation of Materials, Devices, and Functionalized Interfaces in Organic Spintronics. *Advanced Functional Materials*, **2021**, 31, 2100550	15.6	12
144	One-step synthesis of seamless graphene-carbon nanotube heterojunctions by chemical vapor deposition. *APL Materials*, **2021**, 9, 041110	5.7	0
143	Incorporation of Cyano-Substituted Aromatic Blocks into Naphthalene Diimide-Based Copolymers: Toward Unipolar n-Channel Field-Effect Transistors. *Small Science*, **2021**, 1, 2100016		0
142	Recent Advances in Growth of Large-Sized 2D Single Crystals on Cu Substrates. *Advanced Materials*, **2021**, 33, e2003956	24	16
141	Pentacene/non-fullerene acceptor heterojunction type phototransistors for broadened spectral photoresponsivity and ultralow level light detection. *Journal of Materials Chemistry C*, **2021**, 9, 322-329	7.1	5
140	Recent progress in quinoidal semiconducting polymers: structural evolution and insight. *Materials Chemistry Frontiers*, **2021**, 5, 76-96	7.8	7
139	An insight into the role of side chains in the microstructure and carrier mobility of high-performance conjugated polymers. *Polymer Chemistry*, **2021**, 12, 2471-2480	4.9	3
138	A minireview on chemical vapor deposition growth of wafer-scale monolayer -BN single crystals. *Nanoscale*, **2021**, 13, 17310-17317	7.7	1
137	Recent structural evolution of lactam- and imide-functionalized polymers applied in organic field-effect transistors and organic solar cells. *Chemical Science*, **2021**, 12, 6844-6878	9.4	9
136	Fabrication Strategies of Twisted Bilayer Graphenes and Their Unique Properties. *Advanced Materials*, **2021**, 33, e2004974	24	13
135	Structural Engineering in Polymer Semiconductors with Aromatic N-Heterocycles. *Chemistry of Materials*, **2021**, 33, 1513-1539	9.6	7
134	Synthesis, characterization, and their field-effect properties of azaisoindigo-based conjugated polymers with versatile alkoxycarbonyl substituents. *Polymer*, **2021**, 215, 123347	3.9	1

133	Preparation Engineering of Two-Dimensional Heterostructures Bottom-Up Growth for Device Applications. *ACS Nano*, **2021**,	16.7	4
132	Controllable Synthesis and Performance Modulation of 2D Covalent-Organic Frameworks. *Small*, **2021**, 17, e2100918	11	7
131	2D Organic Radical Conjugated Skeletons with Paramagnetic Behaviors. *Advanced Materials Interfaces*, **2021**, 8, 2100943	4.6	0
130	Covalent organic frameworks: Design, synthesis, and performance for photocatalytic applications. *Nano Today*, **2021**, 40, 101247	17.9	13
129	Molecular engineering of (E)-1,2-bis(3-cyanothiophene-2-yl)ethene-based polymeric semiconductors for unipolar n-channel field-effect transistors. *Polymer Chemistry*, **2020**, 11, 7340-7348	4.9	6
128	Remarkable effect of □skeleton conformation in finitely conjugated polymer semiconductors. *Journal of Materials Chemistry C*, **2020**, 8, 9055-9063	7.1	0
127	High-Electron Mobility Tetrafluoroethylene-Containing Semiconducting Polymers. *Chemistry of Materials*, **2020**, 32, 2330-2340	9.6	9
126	Room-temperature stable organic spin valves using solution-processed ambipolar naphthalenediimide-based conjugated polymers. *Organic Electronics*, **2020**, 81, 105684	3.5	7
125	Hydrogen-dominated metal-free growth of graphitic-nitrogen doped graphene with n-type transport behaviors. *Carbon*, **2020**, 161, 123-131	10.4	6
124	Revealing the Influences of Solvent Boiling Point and Alkyl Chains on the Adlayer Crystallinity of Furan-Diketopyrrolopyrrole-Thienylene Copolymer at Molecular Level. *Langmuir*, **2020**, 36, 141-147	4	5
123	Modified Engineering of Graphene Nanoribbons Prepared via On-Surface Synthesis. *Advanced Materials*, **2020**, 32, e1905957	24	36
122	Polydopamine Film Self-Assembled at Air/Water Interface for Organic Electronic Memory Devices. *Advanced Materials Interfaces*, **2020**, 7, 2000979	4.6	4
121	Negative Magnetoresistance Behavior in Polymer Spin Valves Based on Donor□Acceptor Conjugated Molecules. *Advanced Materials Interfaces*, **2020**, 7, 2000868	4.6	3
120	Ethanediylidenebis(isoquinolinedione): A Six-Membered-Ring Diimide Building Block for Ambipolar Semiconducting Polymers. *Macromolecules*, **2019**, 52, 8238-8247	5.5	4
119	Multisubstituted Azaisoindigo-Based Polymers for High-Mobility Ambipolar Thin-Film Transistors and Inverters. *ACS Applied Materials & Interfaces*, **2019**, 11, 34171-34177	9.5	8
118	An AD□A?D? strategy enables perylenediimide-based polymer dyes exhibiting enhanced electron transport characteristics. *Polymer*, **2019**, 180, 121712	3.9	4
117	Small-molecule semiconductors containing dithienylacrylonitrile for high-performance organic field-effect transistors. *Journal of Materials Chemistry C*, **2019**, 7, 11457-11464	7.1	0
116	High-performance ternary □conjugated copolymers containing diarylethylene units: synthesis, properties, and study of substituent effects on molecular aggregation and charge transport characteristics. *Journal of Materials Chemistry C*, **2019**, 7, 362-370	7.1	4

115	Realizing n-Type Field-Effect Performance via Introducing Trifluoromethyl Groups into the Donor–Acceptor Copolymer Backbone. *Macromolecules*, **2019**, 52, 2911-2921	5.5	14
114	Semiconducting Properties and Geometry-Directed Self-Assembly of Heptacyclic Anthradithiophene Diimide-Based Polymers. *Chemistry of Materials*, **2019**, 31, 2507-2515	9.6	9
113	Recent Advances in Growth and Modification of Graphene-Based Energy Materials: From Chemical Vapor Deposition to Reduction of Graphene Oxide. *Small Methods*, **2019**, 3, 1900071	12.8	18
112	Perspective of graphene-based electronic devices: Graphene synthesis and diverse applications. *APL Materials*, **2019**, 7, 020901	5.7	29
111	Design of carbon sources: starting point for chemical vapor deposition of graphene. *2D Materials*, **2019**, 6, 042003	5.9	6
110	Highly-soluble multi-alkylated polymer semiconductors and applications in high-performance field-effect transistors. *Journal of Materials Chemistry C*, **2019**, 7, 9591-9598	7.1	7
109	Magnetoresistance and Spinterface of Organic Spin Valves Based on Diketopyrrolopyrrole Polymers. *Advanced Electronic Materials*, **2019**, 5, 1900318	6.4	8
108	Tuning Charge Carrier and Spin Transport Properties via Structural Modification of Polymer Semiconductors. *ACS Applied Materials & Interfaces*, **2019**, 11, 30089-30097	9.5	13
107	Primary Nucleation-Dominated Chemical Vapor Deposition Growth for Uniform Graphene Monolayers on Dielectric Substrate. *Journal of the American Chemical Society*, **2019**, 141, 11004-11008	16.4	35
106	Influence of Backbone Regioregularity on High-Mobility Conjugated Polymers Based on Alkylated Dithienylacrylonitrile. *ACS Applied Materials & Interfaces*, **2019**, 11, 43416-43424	9.5	5
105	Water-stable organic field-effect transistors based on naphthodithieno[3,2-b]thiophene derivatives. *Journal of Materials Chemistry C*, **2019**, 7, 297-301	7.1	7
104	Gas-Flow-Driven Aligned Growth of Graphene on Liquid Copper. *Chemistry of Materials*, **2019**, 31, 1231-1236	9.6	24
103	Synthesis and Performance of (E)-3-Phenyl-2-(thiophen-2-yl)acrylonitrile-Based Small-Molecule Semiconductors. *Organic Materials*, **2019**, 01, 078-087	1.9	
102	Highly Sensitive, Low Voltage Operation, and Low Power Consumption Resistive Strain Sensors Based on Vertically Oriented Graphene Nanosheets. *Advanced Materials Technologies*, **2019**, 4, 1800572	6.8	9
101	Nitrogen-embedded small-molecule semiconducting materials: Effect of chlorine atoms on their electrochemical, self-assembly, and carrier transport properties. *Dyes and Pigments*, **2019**, 163, 615-622	4.6	2
100	Transfer-free synthesis of multilayer graphene on silicon nitride using reusable gallium catalyst. *Diamond and Related Materials*, **2019**, 91, 112-118	3.5	2
99	A naphthodithieno[3,2-b]thiophene-based copolymer as a novel third component in ternary polymer solar cells with a simultaneously enhanced open circuit voltage, short circuit current and fill factor. *New Journal of Chemistry*, **2018**, 42, 5314-5322	3.6	
98	Cyanostyrylthiophene-Based Ambipolar Conjugated Polymers: Synthesis, Properties, and Analyses of Backbone Fluorination Effect. *Macromolecules*, **2018**, 51, 966-976	5.5	8

97	Dithienylmethanone-Based Cross-Conjugated Polymer Semiconductors: Synthesis, Characterization, and Application in Field-Effect Transistors. *Journal of Polymer Science Part A*, **2018**, 56, 1012-1019	2.5	4
96	Three-Dimensional Graphene Networks with Abundant Sharp Edge Sites for Efficient Electrocatalytic Hydrogen Evolution. *Angewandte Chemie*, **2018**, 130, 198-203	3.6	30
95	Well-Balanced Ambipolar Conjugated Polymers Featuring Mild Glass Transition Temperatures Toward High-Performance Flexible Field-Effect Transistors. *Advanced Materials*, **2018**, 30, 1705286	24	57
94	Synthesis of an indacenodithiophene-based fully conjugated ladder polymer and its optical and electronic properties. *Polymer Chemistry*, **2018**, 9, 2227-2231	4.9	7
93	High-performance FDTE-based polymer semiconductors with F?H intramolecular noncovalent interactions: Synthesis, characterization, and their field-effect properties. *Dyes and Pigments*, **2018**, 149, 149-157	4.6	13
92	Novel Hollow Graphene Flowers Synthesized by Cu-Assisted Chemical Vapor Deposition. *Advanced Materials Interfaces*, **2018**, 5, 1800347	4.6	4
91	Three-Dimensional Graphene Networks with Abundant Sharp Edge Sites for Efficient Electrocatalytic Hydrogen Evolution. *Angewandte Chemie - International Edition*, **2018**, 57, 192-197	16.4	82
90	Ambipolar charge transport in an organic/inorganic van der Waals p□ heterojunction. *Journal of Materials Chemistry C*, **2018**, 6, 12976-12980	7.1	11
89	Chalcogenophene-Sensitive Charge Carrier Transport Properties in A□D□A??□D Type NBDO-Based Copolymers for Flexible Field-Effect Transistors. *Macromolecules*, **2018**, 51, 8662-8671	5.5	11
88	Donor□Acceptor Conjugated Copolymers Containing Difluorothienylethylene-Bridged Methyleneoxindole or Methyleneazaoxindole Acceptor Units: Synthesis, Properties, and Their Application in Field-Effect Transistors. *Macromolecules*, **2018**, 51, 7093-7103	5.5	16
87	High-performance organic field-effect transistors based on organic single crystal microribbons fabricated by an in situ annealing method. *Materials Chemistry Frontiers*, **2018**, 2, 2026-2031	7.8	0
86	Liquid catalysts: an innovative solution to 2D materials in CVD processes. *Materials Horizons*, **2018**, 5, 1021-1034	14.4	17
85	Etching-Controlled Growth of Graphene by Chemical Vapor Deposition. *Chemistry of Materials*, **2017**, 29, 1022-1027	9.6	42
84	Sensitivity enhancement of graphene Hall sensors modified by single-molecule magnets at room temperature. *RSC Advances*, **2017**, 7, 1776-1781	3.7	8
83	Vinylidenedithiophenmethyleneoxindole-based donor-acceptor copolymers with 1D and 2D conjugated backbones: Synthesis, characterization, and their photovoltaic properties. *Dyes and Pigments*, **2017**, 144, 1-8	4.6	3
82	Tuning Frontier Orbital Energetics of Azaisoindigo-Based Polymeric Semiconductors to Enhance the Charge-Transport Properties. *Advanced Electronic Materials*, **2017**, 3, 1700078	6.4	27
81	Facile growth of vertically-aligned graphene nanosheets via thermal CVD: The experimental and theoretical investigations. *Carbon*, **2017**, 121, 1-9	10.4	43
80	Isoindigo dye incorporated copolymers with diselenophenylethene: Synthesis, characterization, and enhanced mobilities in field-effect transistors with electrodes modified by thiol-based self-assembled monolayers. *Polymer*, **2017**, 112, 180-188	3.9	10

79	Rational design of diarylethylene-based polymeric semiconductors for high-performance organic field-effect transistors. *Journal of Polymer Science Part A*, **2017**, 55, 585-603	2.5	12
78	Bis-Diketopyrrolopyrrole Moiety as a Promising Building Block to Enable Balanced Ambipolar Polymers for Flexible Transistors. *Advanced Materials*, **2017**, 29, 1606162	24	82
77	Microstructure engineering of polymer semiconductor thin films for high-performance field-effect transistors using a bi-component processing solution. *Journal of Materials Chemistry C*, **2017**, 5, 3568-3578	7.1	12
76	Ambipolar tetrafluorodiphenylethene-based donor–acceptor copolymers: synthesis, properties, backbone conformation and fluorine-induced conformational locks. *Polymer Chemistry*, **2017**, 8, 879-889	4.9	10
75	Tuning carrier transport properties of thienoisoindigo-based copolymers by loading fluorine atoms onto the diarylethylene-based electron-donating units. *Polymer*, **2017**, 132, 12-22	3.9	6
74	Alkyl chain engineering of pyrene-fused perylene diimides: impact on transport ability and microfiber self-assembly. *Materials Chemistry Frontiers*, **2017**, 1, 2341-2348	7.8	18
73	Novel vinylene-bridged donor–acceptor copolymers: synthesis, characterization, properties and effect of cyano substitution. *Materials Chemistry Frontiers*, **2017**, 1, 2103-2110	7.8	1
72	Fluorinated Dithienylethene–Naphthalenediimide Copolymers for High-Mobility n-Channel Field-Effect Transistors. *Macromolecules*, **2017**, 50, 6098-6107	5.5	37
71	Regioirregular ambipolar naphthalenediimide-based alternating polymers: Synthesis, characterization, and application in field-effect transistors. *Journal of Polymer Science Part A*, **2017**, 55, 3627-3635	2.5	12
70	Synthesis, characterization, and field-effect performance of the halogenated indolone derivatives. *Dyes and Pigments*, **2017**, 136, 434-440	4.6	3
69	Large-Area Growth of Five-Lobed and Triangular Graphene Grains on Textured Cu Substrate. *Advanced Materials Interfaces*, **2016**, 3, 1600347	4.6	13
68	Highly coplanar bis(thiazol-2-yl)-diketopyrrolopyrrole based donor–acceptor copolymers for ambipolar field effect transistors. *RSC Advances*, **2016**, 6, 78008-78016	3.7	16
67	Tailoring molecular weight of polymeric dielectric to enhance electron and hole mobilities in polymer field-effect transistors. *Polymer*, **2016**, 99, 496-502	3.9	4
66	Vinylidenedithiophenmethyleneoxindole: a centrosymmetric building block for donor–acceptor copolymers. *Polymer Chemistry*, **2016**, 7, 1413-1421	4.9	24
65	Diazaisoindigo-Based Polymers with High-Performance Charge-Transport Properties: From Computational Screening to Experimental Characterization. *Chemistry of Materials*, **2016**, 28, 2209-2218	9.6	95
64	Magnetism of N-doped graphene nanoribbons with zigzag edges from bottom-up fabrication. *RSC Advances*, **2016**, 6, 10017-10023	3.7	11
63	Direct CVD Graphene Growth on Semiconductors and Dielectrics for Transfer-Free Device Fabrication. *Advanced Materials*, **2016**, 28, 4956-75	24	90
62	Active Morphology Control for Concomitant Long Distance Spin Transport and Photoresponse in a Single Organic Device. *Advanced Materials*, **2016**, 28, 2609-15	24	46

61	Thiazole-Flanked Diketopyrrolopyrrole Polymeric Semiconductors for Ambipolar Field-Effect Transistors with Balanced Carrier Mobilities. *ACS Applied Materials & Interfaces*, **2016**, 8, 34725-34734	8.5	33
60	Fluorodiphenylethene-Containing Donor–Acceptor Conjugated Copolymers with Noncovalent Conformational Locks for Efficient Polymer Field-Effect Transistors. *Macromolecules*, **2016**, 49, 2582-2591	5.5	41
59	Naphthodithieno[3,2-b]thiophene-based donor-acceptor copolymers: Synthesis, characterization, and their photovoltaic and charge transport properties. *Dyes and Pigments*, **2016**, 131, 1-8	4.6	6
58	Approaching high charge carrier mobility by alkylating both donor and acceptor units at the optimized position in conjugated polymers. *Polymer Chemistry*, **2016**, 7, 4046-4053	4.9	23
57	Highly planar thieno[3,2-b]thiophene-diketopyrrolopyrrole-containing polymers for organic field-effect transistors. *RSC Advances*, **2016**, 6, 35394-35401	3.7	14
56	Tracking the Evolution of Polymer Interface Films during the Process of Thermal Annealing at the Domain and Single Molecular Levels using Scanning Tunneling Microscopy. *Langmuir*, **2016**, 32, 9437-44	4	6
55	Highly planar cross-conjugated alternating polymers with multiple conformational locks: synthesis, characterization and their field-effect properties. *Journal of Materials Chemistry C*, **2016**, 4, 9266-9275	7.1	28
54	High-Performance Field-Effect Transistors Fabricated with Donor–Acceptor Copolymers Containing S□□O Conformational Locks Supplied by Diethoxydithiophenethenes. *Macromolecules*, **2016**, 49, 6401-6410	5.5	34
53	Benzothiophene-flanked diketopyrrolopyrrole polymers: impact of isomeric frameworks on carrier mobilities. *RSC Advances*, **2016**, 6, 83448-83455	3.7	10
52	Controlled assembly of SiOx nanoparticles in graphene. *Materials Horizons*, **2016**, 3, 568-574	14.4	8
51	Chemical vapor deposition of bilayer graphene with layer-resolved growth through dynamic pressure control. *Journal of Materials Chemistry C*, **2016**, 4, 7464-7471	7.1	19
50	Pyrene fused perylene diimides: synthesis, characterization and applications in organic field-effect transistors and optical limiting with high performance. *Chemical Communications*, **2015**, 51, 7156-9	5.8	85
49	Naphtho[2,1-b:3,4-b?]bisthieno[3,2-b][1]benzothiophene-based semiconductors for organic field-effect transistors. *Journal of Materials Chemistry C*, **2015**, 3, 8024-8029	7.1	7
48	High-performance polymer field-effect transistors fabricated with low-bandgap DPP-based semiconducting materials. *Polymer Chemistry*, **2015**, 6, 6457-6464	4.9	19
47	Graphene single crystals: size and morphology engineering. *Advanced Materials*, **2015**, 27, 2821-37	24	84
46	Novel dialkoxy-substituted benzodithienothiophenes for high-performance organic field-effect transistors. *Journal of Materials Chemistry C*, **2015**, 3, 10892-10897	7.1	5
45	Dithieno[3,2-b:2?,3?-d]pyridin-5(4H)-one-based polymers with a bandgap up to 2.02 eV for high performance field-effect transistors and polymer solar cells with an open-circuit voltage up to 0.98 V and an efficiency up to 6.84%. *Journal of Materials Chemistry A*, **2015**, 3, 20516-20526	13	30
44	Graphene Arrays: Direct Top-Down Fabrication of Large-Area Graphene Arrays by an In Situ Etching Method (Adv. Mater. 28/2015). *Advanced Materials*, **2015**, 27, 4194-4194	24	3

43	Direct Top-Down Fabrication of Large-Area Graphene Arrays by an In Situ Etching Method. *Advanced Materials*, **2015**, 27, 4195-9	24	30
42	Synthesis, characterization, and field-effect properties of (E)-2-(2-(thiophen-2-yl)vinyl)thiophen-based donor□acceptor copolymers. *Polymer*, **2015**, 68, 302-307	3.9	16
41	Layer-stacking growth and electrical transport of hierarchical graphene architectures. *Advanced Materials*, **2014**, 26, 3218-24	24	30
40	Self-Aligned Single-Crystal Graphene Grains. *Advanced Functional Materials*, **2014**, 24, 1664-1670	15.6	43
39	Near-equilibrium chemical vapor deposition of high-quality single-crystal graphene directly on various dielectric substrates. *Advanced Materials*, **2014**, 26, 1348-53	24	115
38	Synthesis and Characterization of Angular-Shaped Naphtho[1,2-b;5,6-b?]difuran□Diketopyrrolopyrrole-Containing Copolymers for High-Performance Organic Field-Effect Transistors. *Macromolecules*, **2014**, 47, 616-625	5.5	36
37	High-performance field-effect transistors based on furan-containing diketopyrrolopyrrole copolymer under a mild annealing temperature. *Journal of Polymer Science Part A*, **2014**, 52, 1970-1977	2.5	15
36	Tuning the light response of organic field-effect transistors using fluorographene nanosheets as an interface modification layer. *Journal of Materials Chemistry C*, **2014**, 2, 6484	7.1	21
35	Naphthodithieno[3,2-b]thiophene-based semiconductors: synthesis, characterization, and device performance of field-effect transistors. *Organic Chemistry Frontiers*, **2014**, 1, 333-337	5.2	10
34	Heteroatom substituted organic/polymeric semiconductors and their applications in field-effect transistors. *Advanced Materials*, **2014**, 26, 6898-904	24	64
33	Graphene: Controlled Growth of Single-Crystal Twelve-Pointed Graphene Grains on a Liquid Cu Surface (Adv. Mater. 37/2014). *Advanced Materials*, **2014**, 26, 6519-6519	24	1
32	Controlled growth of single-crystal twelve-pointed graphene grains on a liquid Cu surface. *Advanced Materials*, **2014**, 26, 6423-9	24	50
31	Inkjet printing short-channel polymer transistors with high-performance and ultrahigh photoresponsivity. *Advanced Materials*, **2014**, 26, 4683-9	24	74
30	Impact of alkyl side chains on the photovoltaic and charge mobility properties of naphthodithiophene□benzothiadiazole copolymers. *Polymer Chemistry*, **2014**, 5, 836-843	4.9	25
29	Naphthalenediimide-Based Copolymers Incorporating Vinyl-Linkages for High-Performance Ambipolar Field-Effect Transistors and Complementary-Like Inverters under Air. *Chemistry of Materials*, **2013**, 25, 3589-3596	9.6	111
28	A diketopyrrolopyrrole-thiazolothiazole copolymer for high performance organic field-effect transistors. *Chemical Communications*, **2013**, 49, 1998-2000	5.8	45
27	Two-stage metal-catalyst-free growth of high-quality polycrystalline graphene films on silicon nitride substrates. *Advanced Materials*, **2013**, 25, 992-7	24	99
26	Synthesis and morphology transformation of single-crystal graphene domains based on activated carbon dioxide by chemical vapor deposition. *Journal of Materials Chemistry C*, **2013**, 1, 2990	7.1	23

25	Fractal etching of graphene. *Journal of the American Chemical Society*, **2013**, 135, 6431-4	16.4	123
24	Naphtho[1,2-b:5,6-b?]dithiophene-Based Donor–Acceptor Copolymer Semiconductors for High-Mobility Field-Effect Transistors and Efficient Polymer Solar Cells. *Macromolecules*, **2013**, 46, 3358-3366	5.5	69
23	Self-organized graphene crystal patterns. *NPG Asia Materials*, **2013**, 5, e36-e36	10.3	137
22	Quantitative analysis of the role of the first layer in p- and n-type organic field-effect transistors with graphene electrodes. *Advanced Materials*, **2012**, 24, 1471-5	24	6
21	Diketopyrrolopyrrole-Based π-Conjugated Copolymer Containing π-Unsubstituted Quintetthiophene Unit: A Promising Material Exhibiting High Hole-Mobility for Organic Thin-Film Transistors. *Chemistry of Materials*, **2012**, 24, 4350-4356	9.6	74
20	A stable solution-processed polymer semiconductor with record high-mobility for printed transistors. *Scientific Reports*, **2012**, 2, 754	4.9	733
19	Highly π-extended copolymers with diketopyrrolopyrrole moieties for high-performance field-effect transistors. *Advanced Materials*, **2012**, 24, 4618-22	24	649
18	Uniform hexagonal graphene flakes and films grown on liquid copper surface. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 7992-6	11.5	351
17	Low temperature growth of highly nitrogen-doped single crystal graphene arrays by chemical vapor deposition. *Journal of the American Chemical Society*, **2012**, 134, 11060-3	16.4	262
16	Synthesis of Pentacene Analogues Containing Heteroatoms and Study of Their Field-effect Performance. *Acta Chimica Sinica*, **2012**, 70, 1599	3.3	11
15	Oxygen-aided synthesis of polycrystalline graphene on silicon dioxide substrates. *Journal of the American Chemical Society*, **2011**, 133, 17548-51	16.4	285
14	Experimental techniques for the fabrication and characterization of organic thin films for field-effect transistors. *Chemical Reviews*, **2011**, 111, 3358-406	68.1	215
13	Synthesis of large-area, few-layer graphene on iron foil by chemical vapor deposition. *Nano Research*, **2011**, 4, 1208-1214	10	106
12	Morphology optimization for the fabrication of high mobility thin-film transistors. *Advanced Materials*, **2011**, 23, 3128-33	24	47
11	Equiangular hexagon-shape-controlled synthesis of graphene on copper surface. *Advanced Materials*, **2011**, 23, 3522-5	24	162
10	Solvent-assisted re-annealing of polymer films for solution-processable organic field-effect transistors. *Advanced Materials*, **2010**, 22, 1273-7	24	51
9	Improvements in Stability and Performance of N,N?-Dialkyl Perylene Diimide-Based n-Type Thin-Film Transistors. *Advanced Materials*, **2009**, 21, 1631-1635	24	80
8	Synthesis of N-doped graphene by chemical vapor deposition and its electrical properties. *Nano Letters*, **2009**, 9, 1752-8	11.5	2513

7	Interface engineering: an effective approach toward high-performance organic field-effect transistors. *Accounts of Chemical Research*, **2009**, 42, 1573-83	24.3	285
6	Scalable synthesis of few-layer graphene ribbons with controlled morphologies by a template method and their applications in nanoelectromechanical switches. *Journal of the American Chemical Society*, **2009**, 131, 11147-54	16.4	193
5	Patterned Graphene as Source/Drain Electrodes for Bottom-Contact Organic Field-Effect Transistors. *Advanced Materials*, **2008**, 20, 3289-3293	24	339
4	A new method to synthesize complicated multi-branched carbon nanotubes with controlled architecture and composition. *Nano Letters*, **2006**, 6, 186-92	11.5	88
3	Surface Engineering of Substrates for Chemical Vapor Deposition Growth of Graphene and Applications in Electronic and Spintronic Devices. *Chemistry of Materials*,	9.6	2
2	Preparation, Bandgap Engineering, and Performance Control of Graphene Nanoribbons. *Chemistry of Materials*,	9.6	3
1	Molecular and Interfacial Adjustment of Magnetoresistance in Organic Spin Valves Using Isoindigo-Based Polymers1065-1073		0