

Henning Sirringhaus

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

291
papers

43,095
citations

89
h-index

205
g-index

308
ext. papers

45,994
ext. citations

12.5
avg, IF

7.8
L-index

#	Paper	IF	Citations
291	Heterometallic Benzenehexathiolato Coordination Nanosheets: Periodic Structure Improves Crystallinity and Electrical Conductivity.. <i>Advanced Materials</i> , 2022 , e2106204	24	2
290	Room-temperature optically detected magnetic resonance of single defects in hexagonal boron nitride.. <i>Nature Communications</i> , 2022 , 13, 618	17.4	11
289	High-Performance Humidity Sensing in π Conjugated Molecular Assemblies through the Engineering of Electron/Proton Transport and Device Interfaces.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	3
288	Surface Passivation Treatment to Improve Performance and Stability of Solution-Processed Metal Oxide Transistors for Hybrid Complementary Circuits on Polymer Substrates. <i>Advanced Science</i> , 2021 , 8, e2101502	13.6	3
287	Charge transport physics of a unique class of rigid-rod conjugated polymers with fused-ring conjugated units linked by double carbon-carbon bonds. <i>Science Advances</i> , 2021 , 7,	14.3	7
286	The effect of the dielectric end groups on the positive bias stress stability of N2200 organic field effect transistors. <i>APL Materials</i> , 2021 , 9, 041113	5.7	5
285	Sub-5 nm single crystalline organic p-n heterojunctions. <i>Nature Communications</i> , 2021 , 12, 2774	17.4	20
284	Electrically Induced Mixed Valence Increases the Conductivity of Copper Helical Metallopolymers. <i>Advanced Materials</i> , 2021 , 33, e2100403	24	5
283	Assessing the Impact of Defects on Lead-Free Perovskite-Inspired Photovoltaics via Photoinduced Current Transient Spectroscopy. <i>Advanced Energy Materials</i> , 2021 , 11, 2003968	21.8	5
282	Linking Glass-Transition Behavior to Photophysical and Charge Transport Properties of High-Mobility Conjugated Polymers. <i>Advanced Functional Materials</i> , 2021 , 31, 2007359	15.6	11
281	Acene Ring Size Optimization in Fused Lactam Polymers Enabling High n-Type Organic Thermoelectric Performance. <i>Journal of the American Chemical Society</i> , 2021 , 143, 260-268	16.4	30
280	High-Efficiency Ion-Exchange Doping of Conducting Polymers. <i>Advanced Materials</i> , 2021 , e2102988	24	16
279	Strong Suppression of Thermal Conductivity in the Presence of Long Terminal Alkyl Chains in Low-Disorder Molecular Semiconductors. <i>Advanced Materials</i> , 2021 , 33, e2008708	24	8
278	Design of experiment optimization of aligned polymer thermoelectrics doped by ion-exchange. <i>Applied Physics Letters</i> , 2021 , 119, 111903	3.4	3
277	Anisotropy of Charge Transport in a Uniaxially Aligned Fused Electron-Deficient Polymer Processed by Solution Shear Coating. <i>Advanced Materials</i> , 2020 , 32, e2000063	24	18
276	A general approach for hysteresis-free, operationally stable metal halide perovskite field-effect transistors. <i>Science Advances</i> , 2020 , 6, eaaz4948	14.3	73
275	Photodoping through local charge carrier accumulation in alloyed hybrid perovskites for highly efficient luminescence. <i>Nature Photonics</i> , 2020 , 14, 123-128	33.9	60

274	Modification of Indacenodithiophene-Based Polymers and Its Impact on Charge Carrier Mobility in Organic Thin-Film Transistors. <i>Journal of the American Chemical Society</i> , 2020 , 142, 652-664	16.4	55
273	A solvent-based surface cleaning and passivation technique for suppressing ionic defects in high-mobility perovskite field-effect transistors. <i>Nature Electronics</i> , 2020 , 3, 694-703	28.4	43
272	Chain Conformation and Aggregation Structure Formation of a High Charge Mobility DPP-Based Donor-Acceptor Conjugated Polymer. <i>Macromolecules</i> , 2020 , 53, 8255-8266	5.5	9
271	Charge and Thermoelectric Transport in Polymer-Sorted Semiconducting Single-Walled Carbon Nanotube Networks. <i>ACS Nano</i> , 2020 , 14, 15552-15565	16.7	13
270	Resolving Different Physical Origins toward Crystallite Imperfection in Semiconducting Polymers: Crystallite Size vs Paracrystallinity. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 10529-10538	3.4	5
269	A Novel Mitigation Mechanism for Photo-Induced Trapping in an Anthradithiophene Derivative Using Additives. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000250	6.4	2
268	Charge transport in high-mobility conjugated polymers and molecular semiconductors. <i>Nature Materials</i> , 2020 , 19, 491-502	27	227
267	Chasing the "Killer" Phonon Mode for the Rational Design of Low-Disorder, High-Mobility Molecular Semiconductors. <i>Advanced Materials</i> , 2019 , 31, e1902407	24	73
266	Investigation of the effect of microstructural changes on thermal transport in semicrystalline polymer semiconductors. <i>APL Materials</i> , 2019 , 7, 081118	5.7	1
265	Enhanced Charge Injection Properties of Organic Field-Effect Transistor by Molecular Implantation Doping. <i>Advanced Materials</i> , 2019 , 31, e1806697	24	41
264	Detection of X-Rays by Solution-Processed Cesium-Containing Mixed Triple Cation Perovskite Thin Films. <i>Advanced Functional Materials</i> , 2019 , 29, 1902346	15.6	46
263	Polaron spin dynamics in high-mobility polymeric semiconductors. <i>Nature Physics</i> , 2019 , 15, 814-822	16.2	27
262	Short contacts between chains enhancing luminescence quantum yields and carrier mobilities in conjugated copolymers. <i>Nature Communications</i> , 2019 , 10, 2614	17.4	29
261	Inverted perovskite solar cells with air stable diketopyrrolopyrrole-based electron transport layer. <i>Solar Energy</i> , 2019 , 186, 9-16	6.8	2
260	High-mobility, trap-free charge transport in conjugated polymer diodes. <i>Nature Communications</i> , 2019 , 10, 2122	17.4	61
259	Long spin diffusion lengths in doped conjugated polymers due to enhanced exchange coupling. <i>Nature Electronics</i> , 2019 , 2, 98-107	28.4	36
258	Investigation of the thermoelectric response in conducting polymers doped by solid-state diffusion. <i>Materials Today Physics</i> , 2019 , 8, 112-122	8	28
257	Analysis of Ultrahigh Apparent Mobility in Oxide Field-Effect Transistors. <i>Advanced Science</i> , 2019 , 6, 1801189	11.89	28

256	Investigation of Electrode Electrochemical Reactions in CH ₃ NH ₃ PbBr Perovskite Single-Crystal Field-Effect Transistors. <i>Advanced Materials</i> , 2019 , 31, e1902618	24	48
255	Disorder and localization dynamics in polymorphs of the molecular semiconductor pentacene probed by in situ micro-Raman spectroscopy and molecular dynamics simulations. <i>Physical Review Materials</i> , 2019 , 3,	3.2	8
254	Charge extraction via graded doping of hole transport layers gives highly luminescent and stable metal halide perovskite devices. <i>Science Advances</i> , 2019 , 5, eaav2012	14.3	85
253	Chain Coupling and Luminescence in High-Mobility, Low-Disorder Conjugated Polymers. <i>ACS Nano</i> , 2019 , 13, 13716-13727	16.7	3
252	Alternative Type Two-Dimensional-Three-Dimensional Lead Halide Perovskite with Inorganic Sodium Ions as a Spacer for High-Performance Light-Emitting Diodes. <i>ACS Nano</i> , 2019 , 13, 1645-1654	16.7	35
251	Low-dimensional quantum magnetism in Cu(NCS) ₂ : A molecular framework material. <i>Physical Review B</i> , 2018 , 97,	3.3	14
250	Charge Mobility Enhancement for Conjugated DPP-Selenophene Polymer by Simply Replacing One Bulky Branching Alkyl Chain with Linear One at Each DPP Unit. <i>Chemistry of Materials</i> , 2018 , 30, 3090-3100	8.6	80
249	Fused electron deficient semiconducting polymers for air stable electron transport. <i>Nature Communications</i> , 2018 , 9, 416	17.4	91
248	A Thieno[2,3-b]pyridine-Flanked Diketopyrrolopyrrole Polymer as an n-Type Polymer Semiconductor for All-Polymer Solar Cells and Organic Field-Effect Transistors. <i>Macromolecules</i> , 2018 , 51, 71-79	5.5	44
247	Electrical nucleation and detection of single 360° homochiral Néel domain walls measured using the anomalous Nernst effect. <i>Applied Physics Letters</i> , 2018 , 112, 262409	3.4	2
246	Bottom-up growth of n-type monolayer molecular crystals on polymeric substrate for optoelectronic device applications. <i>Nature Communications</i> , 2018 , 9, 2933	17.4	88
245	Performance Improvements in Conjugated Polymer Devices by Removal of Water-Induced Traps. <i>Advanced Materials</i> , 2018 , 30, e1801874	24	52
244	Molecular tuning of the magnetic response in organic semiconductors. <i>Physical Review Materials</i> , 2018 , 2,	3.2	6
243	Correlation of Disorder and Charge Transport in a Range of Indacenodithiophene-Based Semiconducting Polymers. <i>Advanced Electronic Materials</i> , 2018 , 4, 1700410	6.4	16
242	Solution-processed perovskite light emitting diodes with efficiency exceeding 15% through additive-controlled nanostructure tailoring. <i>Nature Communications</i> , 2018 , 9, 3892	17.4	280
241	Crystal Engineering of Dibenzothiophenothieno[3,2-b]thiophene (DBTTT) Isomers for Organic Field-Effect Transistors. <i>Chemistry of Materials</i> , 2018 , 30, 7587-7592	9.6	15
240	Effect of Alkyl-Chain Length on Charge Transport Properties of Organic Semiconductors and Organic Field-Effect Transistors. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800175	6.4	14
239	Donor-acceptor stacking arrangements in bulk and thin-film high-mobility conjugated polymers characterized using molecular modelling and MAS and surface-enhanced solid-state NMR spectroscopy. <i>Chemical Science</i> , 2017 , 8, 3126-3136	9.4	50

238	Understanding charge transport in lead iodide perovskite thin-film field-effect transistors. <i>Science Advances</i> , 2017 , 3, e1601935	14.3	284
237	The Light-Induced Field-Effect Solar Cell Concept - Perovskite Nanoparticle Coating Introduces Polarization Enhancing Silicon Cell Efficiency. <i>Advanced Materials</i> , 2017 , 29, 1606370	24	32
236	Trap Healing for High-Performance Low-Voltage Polymer Transistors and Solution-Based Analog Amplifiers on Foil. <i>Advanced Materials</i> , 2017 , 29, 1606938	24	26
235	Tuning the effective spin-orbit coupling in molecular semiconductors. <i>Nature Communications</i> , 2017 , 8, 15200	17.4	50
234	Energy-dependent relaxation time in quaternary amorphous oxide semiconductors probed by gated Hall effect measurements. <i>Physical Review B</i> , 2017 , 95,	3.3	10
233	A Vertical Organic Transistor Architecture for Fast Nonvolatile Memory. <i>Advanced Materials</i> , 2017 , 29, 1604769	24	57
232	High operational and environmental stability of high-mobility conjugated polymer field-effect transistors through the use of molecular additives. <i>Nature Materials</i> , 2017 , 16, 356-362	27	276
231	Organic Diode Rectifiers Based on a High-Performance Conjugated Polymer for a Near-Field Energy-Harvesting Circuit. <i>Advanced Materials</i> , 2017 , 29, 1703782	24	20
230	Inkjet-Printed Nanocavities on a Photonic Crystal Template. <i>Advanced Materials</i> , 2017 , 29, 1704425	24	12
229	Critical assessment of charge mobility extraction in FETs. <i>Nature Materials</i> , 2017 , 17, 2-7	27	443
228	Measurements of Ambipolar Seebeck Coefficients in High-Mobility Diketopyrrolopyrrole Donor-Acceptor Copolymers. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700225	6.4	19
227	Dithiopheneindeno[1,2-b]fluorene (TIF) Semiconducting Polymers with Very High Mobility in Field-Effect Transistors. <i>Advanced Materials</i> , 2017 , 29, 1702523	24	61
226	The entangled triplet pair state in acene and heteroacene materials. <i>Nature Communications</i> , 2017 , 8, 15953	17.4	133
225	Formation of Long-Lived Color Centers for Broadband Visible Light Emission in Low-Dimensional Layered Perovskites. <i>Journal of the American Chemical Society</i> , 2017 , 139, 18632-18639	16.4	90
224	Fast Holes, Slow Electrons, and Medium Control of Polaron Size and Mobility in the DA Polymer F8BT. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 15597-15609	3.8	9
223	Synthesis and Characterization of Semiconducting Polymers Composed of All Electron-Accepting Monomer Units for Organic Thin Film Transistors. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 5759-5763	1.3	
222	Naphthacenodithiophene Based Polymers - New Members of the Acenodithiophene Family Exhibiting High Mobility and Power Conversion Efficiency. <i>Advanced Functional Materials</i> , 2016 , 26, 6961-6969	15.6	18
221	Remarkable enhancement of charge carrier mobility of conjugated polymer field-effect transistors upon incorporating an ionic additive. <i>Science Advances</i> , 2016 , 2, e1600076	14.3	115

220	Coulomb Enhanced Charge Transport in Semicrystalline Polymer Semiconductors. <i>Advanced Functional Materials</i> , 2016 , 26, 8011-8022	15.6	20
219	Identification of dipole disorder in low temperature solution processed oxides: its utility and suppression for transparent high performance solution-processed hybrid electronics. <i>Chemical Science</i> , 2016 , 7, 6337-6346	9.4	34
218	Current-Induced Joule Heating and Electrical Field Effects in Low Temperature Measurements on TIPS Pentacene Thin Film Transistors. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600163	6.4	11
217	Reducing dynamic disorder in small-molecule organic semiconductors by suppressing large-amplitude thermal motions. <i>Nature Communications</i> , 2016 , 7, 10736	17.4	120
216	Limits for Recombination in a Low Energy Loss Organic Heterojunction. <i>ACS Nano</i> , 2016 , 10, 10736-10744	16.7	64
215	Scanning Kelvin Probe Microscopy Investigation of the Role of Minority Carriers on the Switching Characteristics of Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2016 , 28, 4713-9	24	30
214	Decoupling Charge Transport and Electroluminescence in a High Mobility Polymer Semiconductor. <i>Advanced Materials</i> , 2016 , 28, 6378-85	24	21
213	The effect of tuning the microstructure of TIPS-tetraazapentacene on the performance of solution processed thin film transistors. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 1194-1200	7.1	39
212	Temperature Dependence of Charge Localization in High-Mobility, Solution-Crystallized Small Molecule Semiconductors Studied by Charge Modulation Spectroscopy. <i>Advanced Functional Materials</i> , 2016 , 26, 2326-2333	15.6	25
211	Sodium and Potassium Ion Selective Conjugated Polymers for Optical Ion Detection in Solution and Solid State. <i>Advanced Functional Materials</i> , 2016 , 26, 514-523	15.6	41
210	2D coherent charge transport in highly ordered conducting polymers doped by solid state diffusion. <i>Nature Materials</i> , 2016 , 15, 896-902	27	268
209	Azaisoindigo conjugated polymers for high performance n-type and ambipolar thin film transistor applications. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 9704-9710	7.1	56
208	Electronic Structure of Low-Temperature Solution-Processed Amorphous Metal Oxide Semiconductors for Thin-Film Transistor Applications. <i>Advanced Functional Materials</i> , 2015 , 25, 1873-1885	15.6	144
207	Solution-based self-aligned hybrid organic/metal-oxide complementary logic with megahertz operation. <i>Organic Electronics</i> , 2015 , 21, 177-183	3.5	13
206	Modulated Thermoelectric Properties of Organic Semiconductors Using Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2015 , 25, 3004-3012	15.6	79
205	Nanoscale investigation of organic/inorganic halide perovskites. <i>Journal of Physics: Conference Series</i> , 2015 , 644, 012024	0.3	1
204	Enabling high-mobility, ambipolar charge-transport in a DPP-benzotriazole copolymer by side-chain engineering. <i>Chemical Science</i> , 2015 , 6, 6949-6960	9.4	81
203	Evidence for charge-trapping inducing polymorphic structural-phase transition in pentacene. <i>Advanced Materials</i> , 2015 , 27, 122-9	24	22

202	Charge-Transport Anisotropy in a Uniaxially Aligned Diketopyrrolopyrrole-Based Copolymer. <i>Advanced Materials</i> , 2015 , 27, 7356-64	24	110
201	Local Versus Long-Range Diffusion Effects of Photoexcited States on Radiative Recombination in Organic-Inorganic Lead Halide Perovskites. <i>Advanced Science</i> , 2015 , 2, 1500136	13.6	47
200	Accurate on-chip measurement of the Seebeck coefficient of high mobility small molecule organic semiconductors. <i>APL Materials</i> , 2015 , 3, 096104	5.7	19
199	Spin-current emission governed by nonlinear spin dynamics. <i>Scientific Reports</i> , 2015 , 5, 15158	4.9	10
198	Solution-processed high-LUMO-level polymers inn-type organic field-effect transistors: a comparative study as a semiconducting layer, dielectric layer, or charge injection layer. <i>Semiconductor Science and Technology</i> , 2015 , 30, 044007	1.8	3
197	Influence of Backbone Fluorination in Regioregular Poly(3-alkyl-4-fluoro)thiophenes. <i>Journal of the American Chemical Society</i> , 2015 , 137, 6866-79	16.4	166
196	N,N'-Dihydro-tetraazapentacenes (DHTA) in thin film transistors. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 1604-1609	7.1	20
195	High-Performance Solution-Processed Amorphous-Oxide-Semiconductor TFTs with Organic Polymeric Gate Dielectrics. <i>Advanced Electronic Materials</i> , 2015 , 1, 1400024	6.4	55
194	Chalcogenophene comonomer comparison in small band gap diketopyrrolopyrrole-based conjugated polymers for high-performing field-effect transistors and organic solar cells. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1314-21	16.4	317
193	Polaron spin current transport in organic semiconductors. <i>Nature Physics</i> , 2014 , 10, 308-313	16.2	137
192	Near-edge X-ray absorption fine-structure spectroscopy of naphthalene diimide-thiophene co-polymers. <i>Journal of Chemical Physics</i> , 2014 , 140, 164710	3.9	24
191	Two-dimensional carrier distribution in top-gate polymer field-effect transistors: correlation between width of density of localized states and Urbach energy. <i>Advanced Materials</i> , 2014 , 26, 728-33	24	123
190	Fabrication of ultra-flexible, ultra-thin organic field-effect transistors and circuits by a peeling-off method. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 1260-1263	7.1	26
189	High Performance, Low Temperature Solution-Processed Barium and Strontium Doped Oxide Thin Film Transistors. <i>Chemistry of Materials</i> , 2014 , 26, 1195-1203	9.6	60
188	Approaching disorder-free transport in high-mobility conjugated polymers. <i>Nature</i> , 2014 , 515, 384-8	50.4	692
187	The effect of thiazole out-backbone displacement in indacenodithiophene semiconductor polymers. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8789-8795	7.1	19
186	Multifunctional materials for OFETs, LEFETs and NIR PLEDs. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 5133-5141	7.1	30
185	Structure Influence on Charge Transport in Naphthalenediimide-thiophene Copolymers. <i>Chemistry of Materials</i> , 2014 , 26, 6796-6804	9.6	44

184	Simultaneous extraction of charge density dependent mobility and variable contact resistance from thin film transistors. <i>Applied Physics Letters</i> , 2014 , 104, 193501	3.4	34
183	Improved Performance of ZnO/Polymer Hybrid Photovoltaic Devices by Combining Metal Oxide Doping and Interfacial Modification. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 18945-18950	3.8	36
182	Thieno[3,2-b]thiophene Flanked Isoindigo Polymers for High Performance Ambipolar OFET Applications. <i>Advanced Functional Materials</i> , 2014 , 24, n/a-n/a	15.6	31
181	All-Inkjet-Printed, All-Air-Processed Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1400432	21.8	112
180	Effect of Ozone on the Stability of Solution-Processed Anthradithiophene-Based Organic Field-Effect Transistors. <i>Chemistry of Materials</i> , 2014 , 26, 3914-3919	9.6	9
179	Improving solution-processed n-type organic field-effect transistors by transfer-printed metal/semiconductor and semiconductor/semiconductor heterojunctions. <i>Organic Electronics</i> , 2014 , 15, 1884-1889	3.5	13
178	Effect of molecular asymmetry on the charge transport physics of high mobility n-type molecular semiconductors investigated by scanning Kelvin probe microscopy. <i>ACS Nano</i> , 2014 , 8, 6778-87	16.7	15
177	Theo Murphy International Scientific Meeting between the UK and China on the chemistry and physics of functional materials. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014 , 372, 20130374	3	0
176	Programmable logic circuits for functional integrated smart plastic systems. <i>Organic Electronics</i> , 2014 , 15, 3111-3119	3.5	50
175	Field-effect modulated Seebeck coefficient measurements in an organic polymer using a microfabricated on-chip architecture. <i>APL Materials</i> , 2014 , 2, 032102	5.7	28
174	In-Situ Switching from Barrier-Limited to Ohmic Anodes for Efficient Organic Optoelectronics. <i>Advanced Functional Materials</i> , 2014 , 24, 3051-3058	15.6	32
173	25th anniversary article: organic field-effect transistors: the path beyond amorphous silicon. <i>Advanced Materials</i> , 2014 , 26, 1319-35	24	1758
172	Molecular origin of high field-effect mobility in an indacenodithiophene-benzothiadiazole copolymer. <i>Nature Communications</i> , 2013 , 4, 2238	17.4	384
171	Measurement of molecular motion in organic semiconductors by thermal diffuse electron scattering. <i>Nature Materials</i> , 2013 , 12, 1045-9	27	75
170	All-polymer field-effect transistors using a brush gate dielectric. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 7736	7.1	7
169	Improved Performance and Stability of Inverted Organic Solar Cells with Solution Processed, Amorphous Mixed Metal Oxide Electron Extraction Layers Comprising Alkaline Earth Metals. <i>Advanced Energy Materials</i> , 2013 , 3, 1428-1436	21.8	62
168	Ultrathin film organic transistors: precise control of semiconductor thickness via spin-coating. <i>Advanced Materials</i> , 2013 , 25, 1401-7	24	187
167	Inkjet-printed resistors with a wide resistance range for printed read-only memory applications. <i>Organic Electronics</i> , 2013 , 14, 699-702	3.5	49

166	Electrooptical Spectroscopy of Uniaxially Aligned Polythiophene Films in Field-Effect Transistors. <i>Chemistry of Materials</i> , 2013 , 25, 2075-2082	9.6	19
165	Critical role of alkyl chain branching of organic semiconductors in enabling solution-processed N-channel organic thin-film transistors with mobility of up to 3.50 cm ² V ⁻¹ s ⁻¹ . <i>Journal of the American Chemical Society</i> , 2013 , 135, 2338-49	16.4	344
164	Solution-processed organic spin-charge converter. <i>Nature Materials</i> , 2013 , 12, 622-7	27	140
163	Photoconductivity anisotropy study in uniaxially aligned polymer based planar photodiodes. <i>Organic Electronics</i> , 2012 , 13, 36-42	3.5	14
162	Downscaling of n-channel organic field-effect transistors with inkjet-printed electrodes. <i>Organic Electronics</i> , 2012 , 13, 320-328	3.5	21
161	High-performance ambipolar diketopyrrolopyrrole-thieno[3,2-b]thiophene copolymer field-effect transistors with balanced hole and electron mobilities. <i>Advanced Materials</i> , 2012 , 24, 647-52	24	488
160	A selenophene-based low-bandgap donor-acceptor polymer leading to fast ambipolar logic. <i>Advanced Materials</i> , 2012 , 24, 1558-65	24	288
159	A new thiophene substituted isoindigo based copolymer for high performance ambipolar transistors. <i>Chemical Communications</i> , 2012 , 48, 3939-41	5.8	208
158	A nanoimprinted, optically tuneable organic laser. <i>Applied Physics Letters</i> , 2012 , 100, 173301	3.4	23
157	Spectroscopic investigation of oxygen- and water-induced electron trapping and charge transport instabilities in n-type polymer semiconductors. <i>Journal of the American Chemical Society</i> , 2012 , 134, 14877-89	16.4	118
156	Electroluminescence in Ion-Gel Gated Conjugated Polymer Field-Effect Transistors. <i>Chemistry of Materials</i> , 2012 , 24, 4060-4067	9.6	28
155	Organic field-effect transistors and solar cells using novel high electron-affinity conjugated copolymers based on alkylbenzotriazole and benzothiadiazole. <i>Journal of Materials Chemistry</i> , 2012 , 22, 4436		26
154	Microstructure of polycrystalline PBTBT films: domain mapping and structure formation. <i>ACS Nano</i> , 2012 , 6, 1849-64	16.7	93
153	Charge-transport physics of high-mobility molecular semiconductors. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 1655-1676	1.3	79
152	Enhanced ambipolar charge injection with semiconducting polymer/carbon nanotube thin films for light-emitting transistors. <i>ACS Nano</i> , 2012 , 6, 539-48	16.7	60
151	Recent Advances in Hybrid Optoelectronics. <i>Israel Journal of Chemistry</i> , 2012 , 52, 496-517	3.4	16
150	Photovoltaic and field effect transistor performance of selenophene and thiophene diketopyrrolopyrrole co-polymers with dithienothiophene. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12817		90
149	Compositional and Morphological Studies of Polythiophene/Polyflorene Blends in Inverted Architecture Hybrid Solar Cells. <i>Advanced Functional Materials</i> , 2012 , 22, 2418-2424	15.6	26

148	High resolution optical spectroscopy of air-induced electrical instabilities in n-type polymer semiconductors. <i>Advanced Materials</i> , 2012 , 24, 3367-72	24	45
147	Highly efficient single-layer polymer ambipolar light-emitting field-effect transistors. <i>Advanced Materials</i> , 2012 , 24, 2728-34	24	128
146	Spin injection and transport in a solution-processed organic semiconductor at room temperature. <i>Physical Review B</i> , 2012 , 85,	3-3	37
145	High-mobility ambipolar polymer transistors: properties and function 2012 ,		1
144	Organic integrated complementary inverters with ink-jet printed source/drain electrodes and sub-micron channels. <i>Applied Physics Letters</i> , 2012 , 100, 123303	3-4	35
143	Hall-effect measurements probing the degree of charge-carrier delocalization in solution-processed crystalline molecular semiconductors. <i>Physical Review Letters</i> , 2011 , 107, 066601	7-4	94
142	High-performance electron-transporting polymers derived from a heteroaryl bis(trifluoroborate). <i>Journal of the American Chemical Society</i> , 2011 , 133, 9949-51	16.4	72
141	Silaindacenodithiophene Semiconducting Polymers for Efficient Solar Cells and High-Mobility Ambipolar Transistors \square <i>Chemistry of Materials</i> , 2011 , 23, 768-770	9.6	120
140	Controlling contact resistance in top-gate polythiophene-based field-effect transistors by molecular engineering. <i>Semiconductor Science and Technology</i> , 2011 , 26, 034003	1.8	18
139	Low-temperature, high-performance solution-processed metal oxide thin-film transistors formed by a Bolgel on chip process. <i>Nature Materials</i> , 2011 , 10, 45-50	27	834
138	Thieno[3,2-b]thiophene-diketopyrrolopyrrole-containing polymers for high-performance organic field-effect transistors and organic photovoltaic devices. <i>Journal of the American Chemical Society</i> , 2011 , 133, 3272-5	16.4	809
137	Anisotropy of Charge Transport in a Uniaxially Aligned and Chain-Extended, High-Mobility, Conjugated Polymer Semiconductor. <i>Advanced Functional Materials</i> , 2011 , 21, 932-940	15.6	150
136	Doping of Organic Semiconductors Using Molybdenum Trioxide: a Quantitative Time-Dependent Electrical and Spectroscopic Study. <i>Advanced Functional Materials</i> , 2011 , 21, 1432-1441	15.6	106
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