Yunqi Liu

List of Publications by Year in Descending Order

329 papers	29,198 citations	73 h-index	167 g-index
362 ext. papers	32,558 ext. citations	12.2 avg, IF	7.21 L-index

#	Paper	IF	Citations
329	Ultrahigh-Performance Optoelectronic Skin Based on Intrinsically Stretchable Perovskite-Polymer Heterojunction Transistors (Adv. Mater. 4/2022). *Advanced Materials*, **2022**, 34, 2270028	24	
328	Advances in flexible organic field-effect transistors and their applications for flexible electronics. *Npj Flexible Electronics*, **2022**, 6,	10.7	32
327	Isomeric Acceptor□Acceptor Polymers: Enabling Electron Transport with Strikingly Different Semiconducting Properties in n-Channel Organic Thin-Film Transistors. *Chemistry of Materials*, **2022**, 34, 1403-1413	9.6	1
326	Rapid and ultrasensitive electromechanical detection of ions, biomolecules and SARS-CoV-2 RNA in unamplified samples.. *Nature Biomedical Engineering*, **2022**,	19	22
325	Constrain Effect of Charge Traps in Organic Field-Effect Transistors with Ferroelectric Polymer as a Dielectric Interfacial Layer.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	1
324	A nonchlorinated solvent-processed polymer semiconductor for high-performance ambipolar transistors.. *National Science Review*, **2022**, 9, nwab145	10.8	2
323	Studying the adsorption mechanisms of nanoplastics on covalent organic frameworks via molecular dynamics simulations. *Journal of Hazardous Materials*, **2022**, 421, 126796	12.8	4
322	Bottom-Up-Etching-Mediated Synthesis of Large-Scale Pure Monolayer Graphene on Cyclic-Polishing-Annealed Cu(111) (Adv. Mater. 8/2022). *Advanced Materials*, **2022**, 34, 2270063	24	
321	Two-dimensional covalent organic framework films prepared on various substrates through vapor induced conversion.. *Nature Communications*, **2022**, 13, 1411	17.4	6
320	Tunable planar focusing based on hyperbolic phonon polaritons in □MoO.. *Advanced Materials*, **2022**, e2105590	24	6
319	Self-Assembly 3-D Penetrating Nanonetwork for High-Performance Intrinsically Stretchable Polymer Light-Emitting Diodes.. *Advanced Materials*, **2022**, e2201844	24	2
318	Multifunctional neurosynaptic devices for human perception systems. *Journal of Semiconductors*, **2022**, 43, 051201	2.3	3
317	Rapid SARS-CoV-2 Nucleic Acid Testing and Pooled Assay by Tetrahedral DNA Nanostructure Transistor. *Nano Letters*, **2021**, 21, 9450-9457	11.5	4
316	Capillary Confinement Crystallization for Monolayer Molecular Crystal Arrays. *Advanced Materials*, **2021**, e2107574	24	6
315	Ultraprecise Antigen 10-in-1 Pool Testing by Multiantibodies Transistor Assay. *Journal of the American Chemical Society*, **2021**, 143, 19794-19801	16.4	8
314	Bottom-Up-Etching Mediated Synthesis of Large-Scale Pure Monolayer Graphene on Cyclic-Polishing-Annealed Cu(111). *Advanced Materials*, **2021**, e2108608	24	6
313	Ultrahigh-Performance Optoelectronic Skin Based on Intrinsically Stretchable Perovskite-Polymer Heterojunction Transistors. *Advanced Materials*, **2021**, e2107304	24	7

312	Acceptor Modulation Strategies for Improving the Electron Transport in High-Performance Organic Field-Effect Transistors. *Advanced Materials*, **2021**, e2104325	24	6
311	Direct SARS-CoV-2 Nucleic Acid Detection by Y-Shaped DNA Dual-Probe Transistor Assay. *Journal of the American Chemical Society*, **2021**, 143, 17004-17014	16.4	14
310	Thiadiazoloquinoxaline-Fused Acenaphthenequinone imide: A Highly Electron-Withdrawing Acceptor for Ambipolar Semiconducting Polymers with Strong Near-Infrared Absorption. *Macromolecules*, **2021**, 54, 3120-3129	5.5	5
309	Organic Synaptic Transistors: The Evolutionary Path from Memory Cells to the Application of Artificial Neural Networks. *Advanced Functional Materials*, **2021**, 31, 2101951	15.6	22
308	Alignment of linear polymeric grains for highly stable N-type thin-film transistors. *CheM*, **2021**, 7, 1258-1270	24.2	13
307	Sub-5 nm single crystalline organic p-n heterojunctions. *Nature Communications*, **2021**, 12, 2774	17.4	20
306	A comprehensive nano-interpenetrating semiconducting photoresist toward all-photolithography organic electronics. *Science Advances*, **2021**, 7,	14.3	6
305	Two-Dimensional Metal-Organic Framework Film for Realizing Optoelectronic Synaptic Plasticity. *Angewandte Chemie - International Edition*, **2021**, 60, 17440-17445	16.4	10
304	Two-Dimensional Metal-Organic Framework Film for Realizing Optoelectronic Synaptic Plasticity. *Angewandte Chemie*, **2021**, 133, 17580-17585	3.6	0
303	Crystal Engineering of Angular-Shaped Heteroarenes Based on Cyclopenta[]thiopyran for Controlling the Charge Carrier Mobility. *Journal of the American Chemical Society*, **2021**, 143, 11088-11101	16.4	5
302	Dual-Mode Learning of Ambipolar Synaptic Phototransistor Based on 2D Perovskite/Organic Heterojunction for Flexible Color Recognizable Visual System. *Small*, **2021**, 17, e2102820	11	19
301	High-Mobility Organic Light-Emitting Semiconductors and Its Optoelectronic Devices. *Small Structures*, **2021**, 2, 2000083	8.7	24
300	Electrochemical Synthesis of Large Area Two-Dimensional Metal-Organic Framework Films on Copper Anodes. *Angewandte Chemie - International Edition*, **2021**, 60, 2887-2891	16.4	31
299	High-performance near-infrared polymeric phototransistors realized by combining cross-linked polymeric semiconductors and bulk heterojunction bilayer structures. *Applied Materials Today*, **2021**, 22, 100899	6.6	16
298	Electrochemical Synthesis of Large Area Two-Dimensional Metal[]Organic Framework Films on Copper Anodes. *Angewandte Chemie*, **2021**, 133, 2923-2927	3.6	7
297	Perovskite photodetectors and their application in artificial photonic synapses. *Chemical Communications*, **2021**, 57, 11429-11442	5.8	3
296	Ultra-sensitive boscalid sensors based on a []yclodextrin modified perfluorinated copper phthalocyanine field-effect transistor. *Journal of Materials Chemistry C*, **2021**, 9, 12877-12883	7.1	0
295	Short-wavelength ultraviolet dosimeters based on DNA nanostructure-modified graphene field-effect transistors. *Chemical Communications*, **2021**, 57, 5071-5074	5.8	0

294	Face-to-Face Growth of Wafer-Scale 2D Semiconducting MOF Films on Dielectric Substrates. *Advanced Materials*, **2021**, 33, e2007741	24	18
293	Plasma-Enhanced Chemical Vapor Deposition of Two-Dimensional Materials for Applications. *Accounts of Chemical Research*, **2021**, 54, 1011-1022	24.3	22
292	Nonchlorinated Solubility Enhanced by Lipophilicity: An Effective Strategy for Environmentally Benign Processing of Rigidly Regular n-type Polymeric Semiconductors. *Advanced Electronic Materials*, **2021**, 7, 2100526	6.4	2
291	Theoretical Study of Chemical Vapor Deposition Synthesis of Graphene and Beyond: Challenges and Perspectives. *Journal of Physical Chemistry Letters*, **2021**, 12, 7942-7963	6.4	2
290	Ultrasensitive Detection of SARS-CoV-2 Antibody by Graphene Field-Effect Transistors. *Nano Letters*, **2021**, 21, 7897-7904	11.5	13
289	Synthesis of Two-Dimensional C-C Bonded Truxene-Based Covalent Organic Frameworks by Irreversible Brønsted Acid-Catalyzed Aldol Cyclotrimerization. *Research*, **2021**, 2021, 9790705	7.8	0
288	A cyclopenta-fused dibenzo[,]thiophene--phenanthrene macrocyclic tetraradicaloid. *Chemical Science*, **2021**, 12, 3952-3957	9.4	6
287	Bis-acenaphthoquinone diimides with high electron deficiency and good coplanar conformation. *Chemical Communications*, **2021**, 57, 7822-7825	5.8	4
286	Self-Controlled Growth of Covalent Organic Frameworks by Repolymerization. *Chemistry of Materials*, **2020**, 32, 5634-5640	9.6	13
285	Graphene Field-Effect Transistors on Hexagonal-Boron Nitride for Enhanced Interfacial Thermal Dissipation. *Advanced Electronic Materials*, **2020**, 6, 2000059	6.4	3
284	Antifouling Field-Effect Transistor Sensing Interface Based on Covalent Organic Frameworks. *Advanced Electronic Materials*, **2020**, 6, 1901169	6.4	12
283	Visualization of Crystallographic Orientation and Twist Angles in Two-Dimensional Crystals with an Optical Microscope. *Nano Letters*, **2020**, 20, 6059-6066	11.5	3
282	Catalyst-Free Growth of Two-Dimensional BCN Materials on Dielectrics by Temperature-Dependent Plasma-Enhanced Chemical Vapor Deposition. *ACS Applied Materials & Interfaces*, **2020**, 12, 33113-33120	9.5	5
281	Application of organic field-effect transistors in memory. *Materials Chemistry Frontiers*, **2020**, 4, 2845-2862	7.8	17
280	Strain-Sensitive Fluorescence from Two-Dimensional Organic Crystal. *Journal of Physical Chemistry Letters*, **2020**, 11, 1909-1914	6.4	5
279	Monolayer Two-dimensional Molecular Crystals for an Ultrasensitive OFET-based Chemical Sensor. *Angewandte Chemie*, **2020**, 132, 4410-4414	3.6	5
278	Monolayer Two-dimensional Molecular Crystals for an Ultrasensitive OFET-based Chemical Sensor. *Angewandte Chemie - International Edition*, **2020**, 59, 4380-4384	16.4	57
277	Organostannane-free polycondensation and eco-friendly processing strategy for the design of semiconducting polymers in transistors. *Materials Horizons*, **2020**, 7, 1955-1970	14.4	12

276	Methoxylation of quinoidal bithiophene as a single regioisomer building block for narrow-bandgap conjugated polymers and high-performance organic field-effect transistors. *Journal of Materials Chemistry C*, **2020**, 8, 15168-15174	7.1	9
275	Organic photodiodes for near-infrared light detection. *Semiconductor Science and Technology*, **2020**, 35, 114001	1.8	4
274	Solid□solid interface growth of conductive metal□organic framework nanowire arrays and their supercapacitor application. *Materials Chemistry Frontiers*, **2020**, 4, 243-251	7.8	22
273	A sulfur-containing hetero-octulene: synthesis, host-guest properties, and transistor applications. *Chemical Communications*, **2020**, 56, 9990-9993	5.8	8
272	Growth and Grain Boundaries in 2D Materials. *ACS Nano*, **2020**, 14, 9320-9346	16.7	35
271	The effect of thickness on the optoelectronic properties of organic field-effect transistors: towards molecular crystals at monolayer limit. *Journal of Materials Chemistry C*, **2020**, 8, 13154-13168	7.1	18
270	Ultrafast Synthesis of Large-Area Conductive Metal-Organic Frameworks on Substrates for Flexible Chemiresistive Sensing. *ACS Applied Materials & Interfaces*, **2020**, 12, 57235-57244	9.5	8
269	When Flexible Organic Field-Effect Transistors Meet Biomimetics: A Prospective View of the Internet of Things. *Advanced Materials*, **2020**, 32, e1901493	24	75
268	Integrated ionic sieving channels from engineering ordered monolayer two-dimensional crystallite structures. *Science Bulletin*, **2020**, 65, 1356-1362	10.6	2
267	Ultrafast Growth of Thin Hexagonal and Pyramidal Molybdenum Nitride Crystals and Films **2019**, 1, 383-388		7
266	A Flexible Acetylcholinesterase-Modified Graphene for Chiral Pesticide Sensor. *Journal of the American Chemical Society*, **2019**, 141, 14643-14649	16.4	36
265	Epitaxial Growth of h-BN on Templates of Various Dimensionalities in h-BN-Graphene Material Systems. *Advanced Materials*, **2019**, 31, e1805582	24	20
264	Monolayer organic field-effect transistors. *Science China Chemistry*, **2019**, 62, 313-330	7.9	42
263	Low Bandgap Donor-Acceptor □Conjugated Polymers From Diarylcyclopentadienone-Fused Naphthalimides. *Frontiers in Chemistry*, **2019**, 7, 362	5	10
262	Exploration of Near-Infrared Organic Photodetectors. *Chemistry of Materials*, **2019**, 31, 6359-6379	9.6	101
261	Surface Catalytic Modification of Conjugated Polymer on Low-Cost Bottom Contact for Improved Injection Efficiency of Organic Transistors. *Advanced Electronic Materials*, **2019**, 5, 1900028	6.4	0
260	Low temperature growth of clean single layer hexagonal boron nitride flakes and film for graphene-based field-effect transistors. *Science China Materials*, **2019**, 62, 1218-1225	7.1	9
259	2D Materials: Epitaxial Growth of h-BN on Templates of Various Dimensionalities in h-BN□Graphene Material Systems (Adv. Mater. 12/2019). *Advanced Materials*, **2019**, 31, 1970088	24	1

258	Improving the Electronic Transporting Property for Flexible Field-Effect Transistors with Naphthalene Diimide-Based Conjugated Polymer through Branching/Linear Side-Chain Engineering Strategy. *ACS Applied Materials & Interfaces*, **2019**, 11, 15837-15844	9.5	25
257	Free radical sensors based on inner-cutting graphene field-effect transistors. *Nature Communications*, **2019**, 10, 1544	17.4	49
256	Air-Stable Symmetric Ambipolar Field-Effect Transistors Based on Reduced Graphene Oxide-OTS Self-Assembled Monolayer Heterostructure. *ChemNanoMat*, **2019**, 5, 472-478	3.5	2
255	Nano-Subsidence-Assisted Precise Integration of Patterned Two-Dimensional Materials for High-Performance Photodetector Arrays. *ACS Nano*, **2019**, 13, 2654-2662	16.7	8
254	Low Band Gap Donor–Acceptor Conjugated Polymers with Indanone-Condensed Thiadiazolo[3,4-g]quinoxaline Acceptors. *Macromolecules*, **2019**, 52, 6149-6159	5.5	25
253	Recent progress in stretchable organic field-effect transistors. *Science China Technological Sciences*, **2019**, 62, 1255-1276	3.5	11
252	Inner-Evaporator Modification of Low-Cost Metal Electrodes of Organic Field-Effect Transistors by 2D Polyporphyrin. *Advanced Electronic Materials*, **2019**, 5, 1900447	6.4	3
251	A two-dimensional cross-linked polythiophene network. *Journal of Materials Chemistry C*, **2019**, 7, 9362-9368	7.1	4
250	Distinctive Performance of Terahertz Photodetection Driven by Charge-Density-Wave Order in CVD-Grown Tantalum Diselenide. *Advanced Functional Materials*, **2019**, 29, 1905057	15.6	8
249	High-Performance Ambipolar Polymers Based on Electron-Withdrawing Group Substituted Bay-Annulated Indigo. *Advanced Functional Materials*, **2019**, 29, 1804839	15.6	16
248	Chemical Formation and Multiple Applications of Organic-Inorganic Hybrid Perovskite Materials. *Journal of the American Chemical Society*, **2019**, 141, 1406-1414	16.4	35
247	Design and synthesis of high performance π-conjugated materials through antiaromaticity and quinoid strategy for organic field-effect transistors. *Materials Science and Engineering Reports*, **2019**, 136, 13-26	30.9	45
246	Fast Deposition of Aligning Edge-On Polymers for High-Mobility Ambipolar Transistors. *Advanced Materials*, **2019**, 31, e1805761	24	48
245	Copolymers of Bis-Diketopyrrolopyrrole and Benzothiadiazole Derivatives for High-Performance Ambipolar Field-Effect Transistors on Flexible Substrates. *ACS Applied Materials & Interfaces*, **2018**, 10, 25858-25865	9.5	19
244	Controlling Fundamental Fluctuations for Reproducible Growth of Large Single-Crystal Graphene. *ACS Nano*, **2018**, 12, 1778-1784	16.7	24
243	n-Type organic light-emitting transistors with high mobility and improved air stability. *Journal of Materials Chemistry C*, **2018**, 6, 535-540	7.1	16
242	Highly Organized Epitaxy of Dirac Semimetallic PtTe Crystals with Extrahigh Conductivity and Visible Surface Plasmons at Edges. *ACS Nano*, **2018**, 12, 9405-9411	16.7	38
241	Organic Field-Effect Transistors: Triple Acceptors in a Polymeric Architecture for Balanced Ambipolar Transistors and High-Gain Inverters (Adv. Mater. 32/2018). *Advanced Materials*, **2018**, 30, 1870241	24	

240	Black Arsenic: A Layered Semiconductor with Extreme In-Plane Anisotropy. *Advanced Materials*, **2018**, 30, e1800754	24	109
239	NIR polymers and phototransistors. *Journal of Materials Chemistry C*, **2018**, 6, 13049-13058	7.1	19
238	Neuromorphic Devices: A Ferroelectric/Electrochemical Modulated Organic Synapse for Ultraflexible, Artificial Visual-Perception System (Adv. Mater. 46/2018). *Advanced Materials*, **2018**, 30, 1870349	24	5
237	A Ferroelectric/Electrochemical Modulated Organic Synapse for Ultraflexible, Artificial Visual-Perception System. *Advanced Materials*, **2018**, 30, e1803961	24	191
236	Insight into High-Performance Conjugated Polymers for Organic Field-Effect Transistors. *CheM*, **2018**, 4, 2748-2785	16.2	176
235	Triple Acceptors in a Polymeric Architecture for Balanced Ambipolar Transistors and High-Gain Inverters. *Advanced Materials*, **2018**, 30, e1801951	24	22
234	Asymmetrical Small Molecule Acceptor Enabling Nonfullerene Polymer Solar Cell with Fill Factor Approaching 79%. *ACS Energy Letters*, **2018**, 3, 1760-1768	20.1	90
233	Sequence of Silicon Monolayer Structures Grown on a Ru Surface: from a Herringbone Structure to Silicene. *Nano Letters*, **2017**, 17, 1161-1166	11.5	67
232	Novel benzo[c][1,2,5]oxadiazole-naphthalenediimide based copolymer for high-performance air-stable n-type field-effect transistors exhibiting high electron mobility of 2.43 cm2 V1 s1. *Journal of Materials Chemistry C*, **2017**, 5, 2892-2898	7.1	19
231	One-pot homopolymerization of thiophene-fused isoindigo for ambient-stable ambipolar organic field-effect transistors. *RSC Advances*, **2017**, 7, 25009-25018	3.7	8
230	Water-assisted growth of large-sized single crystal hexagonal boron nitride grains. *Materials Chemistry Frontiers*, **2017**, 1, 1836-1840	7.8	27
229	A two-dimensional molecule with a large conjugation degree: synthesis, two-photon absorption and charge transport ability. *Journal of Materials Chemistry C*, **2017**, 5, 5199-5206	7.1	19
228	A Retina-Like Dual Band Organic Photosensor Array for Filter-Free Near-Infrared-to-Memory Operations. *Advanced Materials*, **2017**, 29, 1701772	24	73
227	Van der Waals Epitaxial Growth of Atomic Layered HfS Crystals for Ultrasensitive Near-Infrared Phototransistors. *Advanced Materials*, **2017**, 29, 1700439	24	73
226	Tailoring graphene layer-to-layer growth. *Nanotechnology*, **2017**, 28, 265101	3.4	11
225	Bis-Diketopyrrolopyrrole Moiety as a Promising Building Block to Enable Balanced Ambipolar Polymers for Flexible Transistors. *Advanced Materials*, **2017**, 29, 1606162	24	82
224	High-Performance, Air-Stable Field-Effect Transistors Based on Heteroatom-Substituted Naphthalenediimide-Benzothiadiazole Copolymers Exhibiting Ultrahigh Electron Mobility up to 8.5 cm V s. *Advanced Materials*, **2017**, 29, 1602410	24	158
223	N-Alkylation vs O-Alkylation: Influence on the Performance of a Polymeric Field-Effect Transistors Based on a Tetracyclic Lactam Building Block. *Macromolecules*, **2017**, 50, 8497-8504	5.5	13

222	Extended Isoindigo-Based Derivative: A Promising Electron-Deficient Building Block for Polymer Semiconductors. *ACS Applied Materials & Interfaces*, **2017**, 9, 40549-40555	9.5	26
221	Photosensors: A Retina-Like Dual Band Organic Photosensor Array for Filter-Free Near-Infrared-to-Memory Operations (Adv. Mater. 32/2017). *Advanced Materials*, **2017**, 29,	24	6
220	Engineering of Amorphous Polymeric Insulators for Organic Field-Effect Transistors. *Advanced Electronic Materials*, **2017**, 3, 1700157	6.4	32
219	Isoindigo-Based Polymers with Small Effective Masses for High-Mobility Ambipolar Field-Effect Transistors. *Advanced Materials*, **2017**, 29, 1702115	24	91
218	Synthesis and properties of a series of quinoxaline-based copolymers: an example to understand the effect of the structure of the mainchain and sidechain on the charge transport ability of the polymers. *Materials Chemistry Frontiers*, **2017**, 1, 2085-2093	7.8	8
217	Direct Four-Probe Measurement of Grain-Boundary Resistivity and Mobility in Millimeter-Sized Graphene. *Nano Letters*, **2017**, 17, 5291-5296	11.5	48
216	Regioregular Bis-Pyridal[2,1,3]thiadiazole-Based Semiconducting Polymer for High-Performance Ambipolar Transistors. *Journal of the American Chemical Society*, **2017**, 139, 17735-17738	16.4	83
215	Design and effective synthesis methods for high-performance polymer semiconductors in organic field-effect transistors. *Materials Chemistry Frontiers*, **2017**, 1, 2423-2456	7.8	80
214	Substrate-Induced Synthesis of Nitrogen-Doped Holey Graphene Nanocapsules for Advanced Metal-Free Bifunctional Electrocatalysts. *Particle and Particle Systems Characterization*, **2017**, 34, 1600207	3.1	15
213	Synthesis, Structural Characterization, and Field-Effect Transistor Properties of n-Channel Semiconducting Polymers Containing Five-Membered Heterocyclic Acceptors: Superiority of Thiadiazole Compared with Oxadiazole. *ACS Applied Materials & Interfaces*, **2016**, 8, 33051-33059	9.5	19
212	Benzopyrazinoisoindigo or Its Reduced Form? Synthesis, Clarification, and Application in Field-Effect Transistors. *European Journal of Organic Chemistry*, **2016**, 2016, 2603-2607	3.2	1
211	Scalable Production of a Few-Layer MoS2/WS2 Vertical Heterojunction Array and Its Application for Photodetectors. *ACS Nano*, **2016**, 10, 573-80	16.7	283
210	Three-Component Integrated Ultrathin Organic Photosensors for Plastic Optoelectronics. *Advanced Materials*, **2016**, 28, 624-30	24	43
209	Dielectric Engineering of a Boron Nitride/Hafnium Oxide Heterostructure for High-Performance 2D Field Effect Transistors. *Advanced Materials*, **2016**, 28, 2062-9	24	48
208	Anisotropic Charge-Carrier Transport in High-Mobility Donor-Acceptor Conjugated Polymer Semiconductor Films. *Chemistry - an Asian Journal*, **2016**, 11, 2725-2729	4.5	4
207	Active Morphology Control for Concomitant Long Distance Spin Transport and Photoresponse in a Single Organic Device. *Advanced Materials*, **2016**, 28, 2609-15	24	46
206	An isoindigo-bithiazole-based acceptor-acceptor copolymer for balanced ambipolar organic thin-film transistors. *Science China Chemistry*, **2016**, 59, 679-683	7.9	10
205	Enhancing the organic thin-film transistor performance of diketopyrrolopyrrole–benzodithiophene copolymers via the modification of both conjugated backbone and side chain. *Polymer Chemistry*, **2015**, 6, 5369-5375	4.9	17

204	Scalable synthesis of freestanding sandwich-structured graphene/polyaniline/graphene nanocomposite paper for flexible all-solid-state supercapacitor. *Scientific Reports*, **2015**, 5, 9359	4.9	135
203	Organic printed photonics: From microring lasers to integrated circuits. *Science Advances*, **2015**, 1, e1500257	24	131
202	Growth and Etching Kinetics: Growth and Etching of Monolayer Hexagonal Boron Nitride (Adv. Mater. 33/2015). *Advanced Materials*, **2015**, 27, 4948-4948	24	2
201	Investigation of Abnormal Long-Wavelength Fluorescence Emissions Occurring in Binary Organic Nanoparticle Films. *Particle and Particle Systems Characterization*, **2015**, 32, 962-969	3.1	5
200	Organic Solar Cells Based on a 2D Benzo[1,2-b:4,5-b']difuran-Conjugated Polymer with High-Power Conversion Efficiency. *Advanced Materials*, **2015**, 27, 6969-75	24	137
199	Graphene–Silicon Layered Structures on Single-Crystalline Ir(111) Thin Films. *Advanced Materials Interfaces*, **2015**, 2, 1400543	4.6	11
198	Growth and Etching of Monolayer Hexagonal Boron Nitride. *Advanced Materials*, **2015**, 27, 4858-64	24	75
197	Design of High-Mobility Diketopyrrolopyrrole-Based π-Conjugated Copolymers for Organic Thin-Film Transistors. *Advanced Materials*, **2015**, 27, 3589-606	24	304
196	Governing Rule for Dynamic Formation of Grain Boundaries in Grown Graphene. *ACS Nano*, **2015**, 9, 5792-8	13.7	59
195	Highly sensitive thin film phototransistors based on a copolymer of benzodithiophene and diketopyrrolopyrrole. *Journal of Materials Chemistry C*, **2015**, 3, 1942-1948	7.1	21
194	Encapsulating Pd nanoparticles in double-shelled graphene@carbon hollow spheres for excellent chemical catalytic property. *Scientific Reports*, **2014**, 4, 4053	4.9	97
193	Hierarchical nanoporous gold-platinum with heterogeneous interfaces for methanol electrooxidation. *Scientific Reports*, **2014**, 4, 4370	4.9	54
192	Layer-stacking growth and electrical transport of hierarchical graphene architectures. *Advanced Materials*, **2014**, 26, 3218-24	24	30
191	Self-Aligned Single-Crystal Graphene Grains. *Advanced Functional Materials*, **2014**, 24, 1664-1670	15.6	43
190	Facile Synthesis of 3D MnO_2–Graphene and Carbon Nanotube–Graphene Composite Networks for High-Performance, Flexible, All-Solid-State Asymmetric Supercapacitors. *Advanced Energy Materials*, **2014**, 4, 1400064	21.8	330
189	Regioselective Deposition–Method to Pattern Silver Electrodes Facilely and Efficiently with High Resolution: Towards All-Solution-Processed, High-Performance, Bottom-Contacted, Flexible, Polymer-Based Electronics. *Advanced Functional Materials*, **2014**, 24, 3783-3789	15.6	29
188	Monolayer hexagonal boron nitride films with large domain size and clean interface for enhancing the mobility of graphene-based field-effect transistors. *Advanced Materials*, **2014**, 26, 1559-64	24	178
187	Near-equilibrium chemical vapor deposition of high-quality single-crystal graphene directly on various dielectric substrates. *Advanced Materials*, **2014**, 26, 1348-53	24	115

186	Graphene: Near-Equilibrium Chemical Vapor Deposition of High-Quality Single-Crystal Graphene Directly on Various Dielectric Substrates (Adv. Mater. 9/2014). *Advanced Materials*, **2014**, 26, 1471-1471	24	1
185	Graphene: Layer-Stacking Growth and Electrical Transport of Hierarchical Graphene Architectures (Adv. Mater. 20/2014). *Advanced Materials*, **2014**, 26, 3355-3355	24	
184	Benzothieno[2,3-b]thiophene semiconductors: synthesis, characterization and applications in organic field-effect transistors. *Journal of Materials Chemistry C*, **2014**, 2, 8804-8810	7.1	7
183	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
182	Heteroatom substituted organic/polymeric semiconductors and their applications in field-effect transistors. *Advanced Materials*, **2014**, 26, 6898-904	24	64
181	Flexible, low-voltage and high-performance polymer thin-film transistors and their application in photo/thermal detectors. *Advanced Materials*, **2014**, 26, 3631-6	24	97
180	Organic Electronics: Regioselective Deposition Method to Pattern Silver Electrodes Facilely and Efficiently with High Resolution: Towards All-Solution-Processed, High-Performance, Bottom-Contacted, Flexible, Polymer-Based Electronics (Adv. Funct. Mater. 24/2014). *Advanced Functional Materials*, **2014**, 24, 3782-3782	15.6	3
179	Field-Effect Transistors: Heteroatom Substituted Organic/Polymeric Semiconductors and their Applications in Field-Effect Transistors (Adv. Mater. 40/2014). *Advanced Materials*, **2014**, 26, 6802-6802	24	
178	Transistors: Inkjet Printing Short-Channel Polymer Transistors with High-Performance and Ultrahigh Photoresponsivity (Adv. Mater. 27/2014). *Advanced Materials*, **2014**, 26, 4752-4752	24	0
177	Field-Effect Transistors: Monolayer Hexagonal Boron Nitride Films with Large Domain Size and Clean Interface for Enhancing the Mobility of Graphene-Based Field-Effect Transistors (Adv. Mater. 10/2014). *Advanced Materials*, **2014**, 26, 1474-1474	24	2
176	Small-Molecule Solar Cells with Fill Factors up to 0.75 via a Layer-by-Layer Solution Process. *Advanced Energy Materials*, **2014**, 4, 1300626	21.8	84
175	25th anniversary article: recent advances in n-type and ambipolar organic field-effect transistors. *Advanced Materials*, **2013**, 25, 5372-91	24	541
174	Solution-processed core-extended naphthalene diimides toward organic n-type and ambipolar semiconductors. *Journal of Materials Chemistry C*, **2013**, 1, 2688	7.1	28
173	Bitrialkylsilylethynyl thienoacenes: synthesis, molecular conformation and crystal packing, and their field-effect properties. *Journal of Materials Chemistry C*, **2013**, 1, 6403	7.1	6
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