

Shun Watanabe

List of Publications by Year in descending order

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143
papers

7,645
citations

57758

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149
docs citations

149
times ranked

8054
citing authors

#	ARTICLE	IF	CITATIONS
1	Neutral Mechanical Plane Shifting in Bending Elastomer Film Revealed by Quantification of Internal Strain. <i>Advanced Engineering Materials</i> , 2022, 24, 2101041.	3.5	3
2	Scattering mechanism of hole carriers in organic molecular semiconductors deduced from analyses of terahertz absorption spectra using Drude's Anderson model. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	3
3	Scalable printing of two-dimensional single crystals of organic semiconductors towards high-end device applications. <i>Applied Physics Express</i> , 2022, 15, 030101.	2.4	9
4	Nitrogen-Containing Perylene Diimides: Molecular Design, Robust Aggregated Structures, and Advances in n-Type Organic Semiconductors. <i>Accounts of Chemical Research</i> , 2022, 55, 660-672.	15.6	38
5	Hyper 100 Å°C Langmuir-Blodgett (Langmuir-Schaefer) Technique for Organized Ultrathin Film of Polymeric Semiconductors. <i>Langmuir</i> , 2022, 38, 5237-5247.	3.5	14
6	Regioselective Functionalization of Nitrogen-Embedded Perylene Diimides for High-Performance Organic Electron-Transporting Materials. <i>Bulletin of the Chemical Society of Japan</i> , 2022, 95, 953-960.	3.2	2
7	Mixed-Orbital Charge Transport in N-Shaped Benzene- and Pyrazine-Fused Organic Semiconductors. <i>Journal of the American Chemical Society</i> , 2022, 144, 11159-11167.	13.7	14
8	Doped semiconducting polymer nanoantennas for tunable organic plasmonics. <i>Communications Materials</i> , 2022, 3, .	6.9	9
9	Nanoscale Analysis of Surface Bending Strain in Film Substrates for Preventing Fracture in Flexible Electronic Devices. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001662.	3.7	20
10	Role of Perfluorophenyl Group in the Side Chain of Small-Molecule n-Type Organic Semiconductors in Stress Stability of Single-Crystal Transistors. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2095-2101.	4.6	10
11	Nano-Ground Glass as a Superhydrophilic Template for Printing High-Performance Organic Single-Crystal Thin Films. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100033.	3.7	5
12	Surface Bending Strain: Nanoscale Analysis of Surface Bending Strain in Film Substrates for Preventing Fracture in Flexible Electronic Devices (<i>Adv. Mater. Interfaces</i> 5/2021). <i>Advanced Materials Interfaces</i> , 2021, 8, 2170026.	3.7	0
13	Strongly correlated superconductivity in a copper-based metal-organic framework with a perfect kagome lattice. <i>Science Advances</i> , 2021, 7, .	10.3	44
14	Stabilizing solution-processed metal oxide thin-film transistors via trilayer organic-inorganic hybrid passivation. <i>AIP Advances</i> , 2021, 11, .	1.3	8
15	Supramolecular cocrystals built through redox-triggered ion intercalation in π -conjugated polymers. <i>Communications Materials</i> , 2021, 2, .	6.9	16
16	Electronic excitation spectra of organic semiconductor/ionic liquid interface by electrochemical attenuated total reflectance spectroscopy. <i>Communications Chemistry</i> , 2021, 4, .	4.5	7
17	<i>Operando</i> atomic force microscopy study of electric double-layer transistors based on ionic liquid/rubrene single crystal interfaces. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	5
18	Band mobility exceeding $10^6 \text{ cm}^2 \text{ V}^{-1} \text{ s}^{-1}$ assessed by field-effect and chemical double doping in semicrystalline polymeric semiconductors. <i>Applied Physics Letters</i> , 2021, 119, 013302.	3.3	8

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19	Manipulations of Chiroptical Properties in Beltâ€Persistent Cycloarylenes via Desymmetrization with Heteroatom Doping. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19097-19101.	13.8	22
20	Manipulations of Chiroptical Properties in Beltâ€Persistent Cycloarylenes via Desymmetrization with Heteroatom Doping. <i>Angewandte Chemie</i> , 2021, 133, 19245-19249.	2.0	9
21	Two-dimensional hole gas in organic semiconductors. <i>Nature Materials</i> , 2021, 20, 1401-1406.	27.5	25
22	Highly air-stable, n-doped conjugated polymers achieved by dimeric organometallic dopants. <i>Journal of Materials Chemistry C</i> , 2021, 9, 4105-4111.	5.5	7
23	Surface Doping of Organic Singleâ€Crystal Semiconductors to Produce Strainâ€Sensitive Conductive Nanosheets. <i>Advanced Science</i> , 2021, 8, 2002065.	11.2	10
24	Dissociation Mechanism of a Single O ₂ Molecule Chemisorbed on Ag(110). <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9868-9873.	4.6	3
25	Strong and Atmospherically Stable Dicationic Oxidative Dopant. <i>Advanced Science</i> , 2021, 8, e2101998.	11.2	10
26	Uniaxially Oriented Electrically Conductive Metalâ€Organic Framework Nanosheets Assembled at Air/Liquid Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54570-54578.	8.0	24
27	Gate induced modulation of electronic states in monolayer organic field-effect transistor. <i>Applied Physics Letters</i> , 2021, 119, 223301.	3.3	0
28	Approaching isotropic charge transport of n-type organic semiconductors with bulky substituents. <i>Communications Chemistry</i> , 2021, 4, .	4.5	10
29	A Large Anisotropic Enhancement of the Charge Carrier Mobility of Flexible Organic Transistors with Strain: A Hall Effect and Raman Study. <i>Advanced Science</i> , 2020, 7, 1901824.	11.2	37
30	Ionic-Liquid-Originated Carrier Trapping Dynamics at the Interface in Electric Double-Layer Organic FET Revealed by Operando Interfacial Analyses. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2543-2552.	3.1	12
31	Cooperative Aggregations of Nitrogen-Containing Perylene Diimides Driven by Rigid and Flexible Functional Groups. <i>Chemistry of Materials</i> , 2020, 32, 9115-9125.	6.7	14
32	Correlation between the static and dynamic responses of organic single-crystal field-effect transistors. <i>Nature Communications</i> , 2020, 11, 4839.	12.8	24
33	Effect of Electronically Distinct Aromatic Substituents on the Molecular Assembly and Hole Transport of V-Shaped Organic Semiconductors. <i>Journal of Physical Chemistry C</i> , 2020, 124, 17503-17511.	3.1	1
34	Controlled steric selectivity in molecular doping towards closest-packed supramolecular conductors. <i>Communications Materials</i> , 2020, 1, .	6.9	11
35	Coherent Electron Transport in Airâ€Stable, Printed Singleâ€Crystal Organic Semiconductor and Application to Megahertz Transistors. <i>Advanced Materials</i> , 2020, 32, e2003245.	21.0	19
36	Electrolessâ€Plated Gold Contacts for Highâ€Performance, Low Contact Resistance Organic Thin Film Transistors. <i>Advanced Functional Materials</i> , 2020, 30, 2003977.	14.9	14

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37	Low-voltage complementary inverters using solution-processed, high-mobility organic single-crystal transistors fabricated by polymer-blend printing. <i>Applied Physics Letters</i> , 2020, 117, 033301.	3.3	12
38	Band-like transporting and thermally durable V-shaped organic semiconductors with a phenyl key block. <i>Journal of Materials Chemistry C</i> , 2020, 8, 14172-14179.	5.5	7
39	Alkyl-Substituted Selenium-Bridged V-Shaped Organic Semiconductors Exhibiting High Hole Mobility and Unusual Aggregation Behavior. <i>Journal of the American Chemical Society</i> , 2020, 142, 14974-14984.	13.7	25
40	Evaluations of nonlocal electron-phonon couplings in tetracene, rubrene, and C10 [~] DNBDT [~] NW based on density functional theory. <i>Physical Review B</i> , 2020, 102, .	3.2	11
41	Robust, high-performance n-type organic semiconductors. <i>Science Advances</i> , 2020, 6, eaaz0632.	10.3	135
42	Synergistic Use of Pyridine and Selenophene in a Diketopyrrolopyrrole [~] -Based Conjugated Polymer Enhances the Electron Mobility in Organic Transistors. <i>Advanced Functional Materials</i> , 2020, 30, 2000489.	14.9	43
43	Damage-free Metal Electrode Transfer to Monolayer Organic Single Crystalline Thin Films. <i>Scientific Reports</i> , 2020, 10, 4702.	3.3	17
44	Rapid improvements in charge carrier mobility at ionic liquid/pentacene single crystal interfaces by self-cleaning. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 6131-6135.	2.8	6
45	Charge mobility calculation of organic semiconductors without use of experimental single-crystal data. <i>Scientific Reports</i> , 2020, 10, 2524.	3.3	13
46	High-performance, semiconducting membrane composed of ultrathin, single-crystal organic semiconductors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 80-85.	7.1	32
47	Sub-molecular structural relaxation at a physisorbed interface with monolayer organic single-crystal semiconductors. <i>Communications Physics</i> , 2020, 3, .	5.3	10
48	Solution-processed flexible metal-oxide thin-film transistors operating beyond 20 MHz. <i>Flexible and Printed Electronics</i> , 2020, 5, 015003.	2.7	25
49	Tuning Spin Current Injection at Ferromagnet-Nonmagnet Interfaces by Molecular Design. <i>Physical Review Letters</i> , 2020, 124, 027204.	7.8	19
50	High [~] Speed Organic Single [~] Crystal Transistor Responding to Very High Frequency Band. <i>Advanced Functional Materials</i> , 2020, 30, 1909501.	14.9	57
51	Bent-Shaped <i>p</i> -Type Small-Molecule Organic Semiconductors: A Molecular Design Strategy for Next-Generation Practical Applications. <i>Journal of the American Chemical Society</i> , 2020, 142, 9083-9096.	13.7	108
52	100 Å [~] C-Langmuir [~] Blodgett Method for Fabricating Highly Oriented, Ultrathin Films of Polymeric Semiconductors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56522-56529.	8.0	37
53	Patterned Quantum Dot Photosensitive FETs for Medium Frequency Optoelectronics. <i>Advanced Materials Technologies</i> , 2019, 4, 1900054.	5.8	10
54	Evaluating intrinsic mobility from transient terahertz conductivity spectra of microcrystal samples of organic molecular semiconductors. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	3

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55	Review of advanced sensor devices employing nanoarchitectonics concepts. Beilstein Journal of Nanotechnology, 2019, 10, 2014-2030.	2.8	37
56	Scalable Fabrication of Organic Single-Crystalline Wafers for Reproducible TFT Arrays. Scientific Reports, 2019, 9, 15897.	3.3	39
57	Efficient molecular doping of polymeric semiconductors driven by anion exchange. Nature, 2019, 572, 634-638.	27.8	208
58	Transmission electron diffraction study of a uniaxially-ordered high-mobility polymeric semiconductor. Microscopy (Oxford, England), 2019, 68, 167-173.	1.5	1
59	High carrier density, electrostatic doping in organic single crystal semiconductors using electret polymers. Applied Physics Express, 2019, 12, 071001.	2.4	1
60	Air-Stable Benzo[<i>c</i>]thiophene Diimide <i>n</i> -Type π -Electron Core. Organic Letters, 2019, 21, 4448-4453.	4.6	23
61	Selective triplet exciton formation in a single molecule. Nature, 2019, 570, 210-213.	27.8	142
62	Self-assembly as a key player for materials nanoarchitectonics. Science and Technology of Advanced Materials, 2019, 20, 51-95.	6.1	322
63	Validity of the Mott formula and the origin of thermopower in π -conjugated semicrystalline polymers. Physical Review B, 2019, 100, .	3.2	26
64	Nanoarchitectonic-Based Material Platforms for Environmental and Bioprocessing Applications. Chemical Record, 2019, 19, 1891-1912.	5.8	17
65	Correlation between coherent charge transport and crystallinity in doped π -conjugated polymers. Applied Physics Express, 2019, 12, 011004.	2.4	7
66	Soft 2D nanoarchitectonics. NPG Asia Materials, 2018, 10, 90-106.	7.9	121
67	Wafer-scale, layer-controlled organic single crystals for high-speed circuit operation. Science Advances, 2018, 4, eaao5758.	10.3	237
68	Probing the density of trap states in the middle of the bandgap using ambipolar organic field-effect transistors. Journal of Applied Physics, 2018, 123, .	2.5	1
69	Organic Semiconductors: Zigzag-Elongated Fused π -Electronic Core: A Molecular Design Strategy to Maximize Charge-Carrier Mobility (Adv. Sci. 1/2018). Advanced Science, 2018, 5, 1870005.	11.2	2
70	Microscopic properties of ionic liquid/organic semiconductor interfaces revealed by molecular dynamics simulations. Physical Chemistry Chemical Physics, 2018, 20, 13075-13083.	2.8	13
71	Zigzag-Elongated Fused π -Electronic Core: A Molecular Design Strategy to Maximize Charge-Carrier Mobility. Advanced Science, 2018, 5, 1700317.	11.2	43
72	Remarkably low flicker noise in solution-processed organic single crystal transistors. Communications Physics, 2018, 1, .	5.3	23

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73	End-Capping π -Conjugated Systems with Medium-Sized Sulfur-Containing Rings: A Route Towards Solution-Processable Air-Stable Semiconductors. <i>Chemistry - A European Journal</i> , 2018, 24, 11503-11510.	3.3	5
74	Solution-crystallized n-type organic thin-film transistors: An impact of branched alkyl chain on high electron mobility and thermal durability. <i>Organic Electronics</i> , 2018, 62, 548-553.	2.6	15
75	Femtosecond formation dynamics of the spin Seebeck effect revealed by terahertz spectroscopy. <i>Nature Communications</i> , 2018, 9, 2899.	12.8	131
76	Oxygen- and Sulfur-Bridged L-shaped π -Conjugated Molecules: Synthesis, Aggregated Structures, and Charge Transporting Behavior. <i>Asian Journal of Organic Chemistry</i> , 2018, 7, 2309-2314.	2.7	6
77	Broadening of Distribution of Trap States in PbS Quantum Dot Field-Effect Transistors with High- κ Dielectrics. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4719-4724.	8.0	20
78	High performance solution-crystallized thin-film transistors based on V-shaped thieno[3,2-f:4,5-f']bis[1]benzothiophene semiconductors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1903-1909.	5.5	22
79	Control of molecular doping in conjugated polymers by thermal annealing. <i>Organic Electronics</i> , 2017, 47, 139-146.	2.6	20
80	Oxygen- and Sulfur-Bridged Bianthracene V-Shaped Organic Semiconductors. <i>Bulletin of the Chemical Society of Japan</i> , 2017, 90, 931-938.	3.2	28
81	Painting Integrated Complementary Logic Circuits for Single-Crystal Organic Transistors: A Demonstration of a Digital Wireless Communication Sensing Tag. <i>Advanced Electronic Materials</i> , 2017, 3, 1600456.	5.1	57
82	Enabling Ambipolar to Heavy n-Type Transport in PbS Quantum Dot Solids through Doping with Organic Molecules. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 18039-18045.	8.0	34
83	Spontaneously formed high-performance charge-transport layers of organic single-crystal semiconductors on precisely synthesized insulating polymers. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	14
84	Tuning the effective spin-orbit coupling in molecular semiconductors. <i>Nature Communications</i> , 2017, 8, 15200.	12.8	70
85	Coherent singlet fission activated by symmetry breaking. <i>Nature Chemistry</i> , 2017, 9, 983-989.	13.6	165
86	Energy-dependent relaxation time in quaternary amorphous oxide semiconductors probed by gated Hall effect measurements. <i>Physical Review B</i> , 2017, 95, .	3.2	10
87	Strain-Modulated Charge Transport in Flexible PbS Nanocrystal Field-Effect Transistors. <i>Advanced Electronic Materials</i> , 2017, 3, 1600360.	5.1	20
88	High-Yield, Highly Uniform Solution-Processed Organic Transistors Integrated into Flexible Organic Circuits. <i>Advanced Electronic Materials</i> , 2017, 3, 1600410.	5.1	31
89	Boron-Stabilized Planar Neutral π -Radicals with Well-Balanced Ambipolar Charge-Transport Properties. <i>Journal of the American Chemical Society</i> , 2017, 139, 14336-14339.	13.7	97
90	Precise engineering of quantum dot array coupling through their barrier widths. <i>Nature Communications</i> , 2017, 8, 787.	12.8	55

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91	Molecular doping in organic semiconductors: fully solution-processed, vacuum-free doping with metal-organic complexes in an orthogonal solvent. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12023-12030.	5.5	46
92	Homogeneous dewetting on large-scale microdroplet arrays for solution-processed electronics. <i>NPG Asia Materials</i> , 2017, 9, e409-e409.	7.9	31
93	Coexistence of ultra-long spin relaxation time and coherent charge transport in organic single-crystal semiconductors. <i>Nature Physics</i> , 2017, 13, 994-998.	16.7	126
94	Alkylated oxygen-bridged V-shaped molecules: impacts of the substitution position and length of the alkyl chains on the crystal structures and fundamental properties in aggregated forms. <i>Polymer Journal</i> , 2017, 49, 215-221.	2.7	2
95	The emergence of charge coherence in soft molecular organic semiconductors via the suppression of thermal fluctuations. <i>NPG Asia Materials</i> , 2016, 8, e252-e252.	7.9	19
96	Tunable doping in PbS nanocrystal field-effect transistors using surface molecular dipoles. <i>APL Materials</i> , 2016, 4, 116105.	5.1	10
97	Enhancement of the Exciton Coherence Size in Organic Semiconductor by Alkyl Chain Substitution. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7941-7948.	3.1	20
98	On the Extraction of Charge Carrier Mobility in High-Mobility Organic Transistors. <i>Advanced Materials</i> , 2016, 28, 151-155.	21.0	178
99	High performance oxygen-bridged N-shaped semiconductors with a stabilized crystal phase and blue luminescence. <i>RSC Advances</i> , 2016, 6, 28966-28969.	3.6	15
100	2D coherent charge transport in highly ordered conducting polymers doped by solid state diffusion. <i>Nature Materials</i> , 2016, 15, 896-902.	27.5	346
101	Stable growth of large-area single crystalline thin films from an organic semiconductor/polymer blend solution for high-mobility organic field-effect transistors. <i>Organic Electronics</i> , 2016, 39, 127-132.	2.6	33
102	Organometallic Bonding in an Ullmann-Type On-Surface Chemical Reaction Studied by High-Resolution Atomic Force Microscopy. <i>Small</i> , 2016, 12, 5303-5311.	10.0	52
103	Suppressing molecular vibrations in organic semiconductors by inducing strain. <i>Nature Communications</i> , 2016, 7, 11156.	12.8	105
104	Spontaneous Patterning of High-Resolution Electronics via Parallel Vacuum Ultraviolet. <i>Advanced Materials</i> , 2016, 28, 6568-6573.	21.0	60
105	Mobility Exceeding $10 \text{ cm}^2/\text{Vs}$ in Donor-Acceptor Polymer Transistors with Band-like Charge Transport. <i>Chemistry of Materials</i> , 2016, 28, 420-424.	6.7	147
106	Microscopic hole-transfer efficiency in organic thin-film transistors studied with charge-modulation spectroscopy. <i>Physical Review B</i> , 2015, 91, .	3.2	9
107	Short-Channel Solution-Processed Organic Semiconductor Transistors and their Application in High-Speed Organic Complementary Circuits and Organic Rectifiers. <i>Advanced Electronic Materials</i> , 2015, 1, 1500178.	5.1	32
108	High-speed organic transistors with three-dimensional organic channels and organic rectifiers based on them operating above 20MHz. <i>Organic Electronics</i> , 2015, 20, 119-124.	2.6	49

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109	Signature of the insulator-metal transition of a semicrystalline conjugated polymer in ionic-liquid-gated transistors. <i>Applied Physics Express</i> , 2015, 8, 021601.	2.4	19
110	Chemical potential shift in organic field-effect transistors identified by soft X-ray <i>operando</i> nano-spectroscopy. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	18
111	Polaron spin current transport in organic semiconductors. <i>Nature Physics</i> , 2014, 10, 308-313.	16.7	170
112	Furan fused V-shaped organic semiconducting materials with high emission and high mobility. <i>Chemical Communications</i> , 2014, 50, 5342-5344.	4.1	49
113	High-Performance Solution-Processable N-Shaped Organic Semiconducting Materials with Stabilized Crystal Phase. <i>Advanced Materials</i> , 2014, 26, 4546-4551.	21.0	206
114	Transition Between Band and Hopping Transport in Polymer Field-Effect Transistors. <i>Advanced Materials</i> , 2014, 26, 8169-8173.	21.0	61
115	Highly Oriented Polymer Semiconductor Films Compressed at the Surface of Ionic Liquids for High-Performance Polymeric Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2014, 26, 6430-6435.	21.0	69
116	Microscopic Signature of Metallic State in Semicrystalline Conjugated Polymers Doped with Fluoroalkylsilane Molecules. <i>Advanced Materials</i> , 2014, 26, 2376-2383.	21.0	44
117	Facile strain analysis of largely bending films by a surface-labelled grating method. <i>Scientific Reports</i> , 2014, 4, 5377.	3.3	33
118	Polarization fatigue of organic ferroelectric capacitors. <i>Scientific Reports</i> , 2014, 4, 5075.	3.3	61
119	V-Shaped Organic Semiconductors With Solution Processability, High Mobility, and High Thermal Durability. <i>Advanced Materials</i> , 2013, 25, 6392-6397.	21.0	196
120	Dinaphtho[1,2-b:2',1'-d]chalcogenophenes: Comprehensive Investigation of the Effect of the Chalcogen Atoms in the Phenacene-Type π -Electronic Cores. <i>Chemistry of Materials</i> , 2013, 25, 3952-3956.	6.7	52
121	Study of contact resistance of high-mobility organic transistors through comparisons. <i>Organic Electronics</i> , 2013, 14, 2590-2595.	2.6	46
122	Doping of Organic Semiconductors: Impact of Dopant Strength and Electronic Coupling. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7751-7755.	13.8	186
123	Solution-processed organic spin-charge converter. <i>Nature Materials</i> , 2013, 12, 622-627.	27.5	162
124	Inch-Size Solution-Processed Single-Crystalline Films of High-Mobility Organic Semiconductors. <i>Applied Physics Express</i> , 2013, 6, 076503.	2.4	102
125	High-speed organic single-crystal transistors gated with short-channel air gaps: Efficient hole and electron injection in organic semiconductor crystals. <i>Organic Electronics</i> , 2013, 14, 1656-1662.	2.6	38
126	Organic Semiconductors: V-Shaped Organic Semiconductors With Solution Processability, High Mobility, and High Thermal Durability (<i>Adv. Mater.</i> 44/2013). <i>Advanced Materials</i> , 2013, 25, 6306-6306.	21.0	1

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127	Hall-Effect Measurements Probing the Degree of Charge-Carrier Delocalization in Solution-Processed Crystalline Molecular Semiconductors. <i>Physical Review Letters</i> , 2011, 107, 066601.	7.8	101
128	Patternable Solution-Crystallized Organic Transistors with High Charge Carrier Mobility. <i>Advanced Materials</i> , 2011, 23, 1626-1629.	21.0	337
129	Solution-Crystallized Organic Field-Effect Transistors with Charge-Acceptor Layers: High-Mobility and Low-Threshold-Voltage Operation in Air. <i>Advanced Materials</i> , 2011, 23, 3309-3314.	21.0	156
130	High Electron Mobility in Air for N,N'-Hexyl-1-Hexylperfluorobutyldicyanoperylene Carboxydiimide Solution-Crystallized Thin-Film Transistors on Hydrophobic Surfaces. <i>Advanced Materials</i> , 2011, 23, 3681-3685.	21.0	119
131	Electron Spin Resonance of Charge Carriers in Organic Field-Effect Devices. <i>Applied Magnetic Resonance</i> , 2009, 36, 357-370.	1.2	11
132	ESR studies of ambipolar charge carriers in metal-insulator-semiconductor diodes of regioregular poly(3-hexylthiophene)/PCBM composites. <i>Synthetic Metals</i> , 2009, 159, 893-896.	3.9	9
133	Organic field-effect transistors using single crystals. <i>Science and Technology of Advanced Materials</i> , 2009, 10, 024314.	6.1	332
134	Very High Mobility in Solution-Processed Organic Thin-Film Transistors of Highly Ordered [1]Benzothieno[3,2-b]benzothiophene Derivatives. <i>Applied Physics Express</i> , 2009, 2, 111501.	2.4	254
135	Template- and Vacuum-Ultraviolet- Assisted Fabrication of a Ag-Nanoparticle Array on Flexible and Rigid Substrates. <i>Advanced Materials</i> , 2007, 19, 1267-1271.	21.0	73
136	Hall Effect of Quasi-Hole Gas in Organic Single-Crystal Transistors. <i>Japanese Journal of Applied Physics</i> , 2005, 44, L1393-L1396.	1.5	154
137	Theoretical analysis of the bias-voltage dependence of the apparent barrier height. <i>Physical Review B</i> , 2004, 70, .	3.2	5
138	Self-Consistent Density Functional Calculation of Field Emission Currents from Metals. <i>Physical Review Letters</i> , 2000, 85, 1750-1753.	7.8	74
139	Atomic and electronic structure of the Si(111)- $\sqrt{3}\times\sqrt{3}$ -Ag surface reexamined using first-principles calculations. <i>Science and Technology of Advanced Materials</i> , 2000, 1, 167-172.	6.1	12
140	Jahn-Teller Distortion in Dangling-Bond Linear Chains Fabricated on a Hydrogen-Terminated Si(100)-2 \times 1 Surface. <i>Physical Review Letters</i> , 1999, 82, 4034-4037.	7.8	98
141	Direct Observation of One-Dimensional Ga-Atom Migration on a Si(100)-(2 \times 1)-H Surface: A Local Probe of Adsorption Energy Variation. <i>Physical Review Letters</i> , 1999, 83, 4116-4119.	7.8	15
142	Ferromagnetism in Hubbard models for Quantum Atomic Wires. <i>Journal of the Magnetism Society of Japan</i> , 1999, 23, 676-678.	0.4	0
143	Thin and Flexible Printed Antenna Designed for Curved Metal Surfaces. <i>Flexible and Printed Electronics</i> , 0, , .	2.7	2