

# Taishi Takenobu

## List of Publications by Citations

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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.

90  
papers

4,326  
citations

33  
h-index

65  
g-index

99  
ext. papers

4,884  
ext. citations

8.5  
avg, IF

5.54  
L-index

#	Paper	IF	Citations
90	Large-area synthesis of highly crystalline WSe(2) monolayers and device applications. <i>ACS Nano</i> , <b>2014</b> , 8, 923-30	16.7	732
89	Highly flexible MoS2 thin-film transistors with ion gel dielectrics. <i>Nano Letters</i> , <b>2012</b> , 12, 4013-7	11.5	663
88	Monolayer MoSe2 grown by chemical vapor deposition for fast photodetection. <i>ACS Nano</i> , <b>2014</b> , 8, 8582-8597	11.07	413
87	High current density in light-emitting transistors of organic single crystals. <i>Physical Review Letters</i> , <b>2008</b> , 100, 066601	7.4	204
86	Highly Efficient and Stable Perovskite Solar Cells by Interfacial Engineering Using Solution-Processed Polymer Layer. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 1562-1568	3.8	135
85	Organic single-crystal light-emitting field-effect transistors. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 965-980	7.1	123
84	Hole mobility enhancement and p -doping in monolayer WSe 2 by gold decoration. <i>2D Materials</i> , <b>2014</b> , 1, 034001	5.9	104
83	Highly Flexible and High-Performance Complementary Inverters of Large-Area Transition Metal Dichalcogenide Monolayers. <i>Advanced Materials</i> , <b>2016</b> , 28, 4111-9	24	90
82	Highly Fluorescent [7]Carbohelicene Fused by Asymmetric 1,2-Dialkyl-Substituted Quinoxaline for Circularly Polarized Luminescence and Electroluminescence. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 13937-13947	3.8	86
81	Fabrication of stretchable MoS2 thin-film transistors using elastic ion-gel gate dielectrics. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 023505	3.4	75
80	Ambipolar organic single-crystal transistors based on ion gels. <i>Advanced Materials</i> , <b>2012</b> , 24, 4392-7	24	75
79	The pursuit of electrically-driven organic semiconductor lasers. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 2827	7.1	72
78	2D Materials for Large-Area Flexible Thermoelectric Devices. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 19028423	4.23	72
77	Fluorescent Ferroelectrics of Hydrogen-Bonded Pyrene Derivatives. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 1813-8	6.4	64
76	Synthetic Control of the Excited-State Dynamics and Circularly Polarized Luminescence of Fluorescent "Push-Pull" Tetrathia[9]helicenes. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 4263-73	4.8	62
75	Charge transport in ion-gated mono-, bi-, and trilayer MoS2 field effect transistors. <i>Scientific Reports</i> , <b>2014</b> , 4, 7293	4.9	52
74	Synthetic Control of Photophysical Process and Circularly Polarized Luminescence of [5]Carbohelicene Derivatives Substituted by Maleimide Units. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 7860-7869	3.8	50

73	Flexible and stretchable thin-film transistors based on molybdenum disulphide. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 14996-5006	3.6	50
72	Synthesis of Large-Area InSe Monolayers by Chemical Vapor Deposition. <i>Small</i> , <b>2018</b> , 14, e1802351	11	48
71	High current densities in a highly photoluminescent organic single-crystal light-emitting transistor. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 043307	3.4	48
70	Monolayer Transition Metal Dichalcogenides as Light Sources. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707627	24	46
69	Green light emission from the edges of organic single-crystal transistors. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 173301	3.4	45
68	Enhanced thermoelectric power in two-dimensional transition metal dichalcogenide monolayers. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	45
67	Thermoelectric properties of a semicrystalline polymer doped beyond the insulator-to-metal transition by electrolyte gating. <i>Science Advances</i> , <b>2020</b> , 6, eaay8065	14.3	40
66	Controlled Excited-State Dynamics and Enhanced Fluorescence Property of Tetrasulfone[9]helicene by a Simple Synthetic Process. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 7421-7427	3.8	40
65	Thermoelectric Detection of Multi-Subband Density of States in Semiconducting and Metallic Single-Walled Carbon Nanotubes. <i>Small</i> , <b>2016</b> , 12, 3388-92	11	40
64	Continuous Band-Filling Control and One-Dimensional Transport in Metallic and Semiconducting Carbon Nanotube Tangled Films. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 3305-3311	15.6	37
63	An Ionic Liquid That Dissolves Semiconducting Polymers: A Promising Electrolyte for Bright, Efficient, and Stable Light-Emitting Electrochemical Cells. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 6122-6129	9.6	36
62	Self-Aligned and Scalable Growth of Monolayer WSe <sub>2</sub> /MoS <sub>2</sub> Lateral Heterojunctions. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706860	15.6	36
61	Inkjet printing of single-walled carbon nanotube thin-film transistors patterned by surface modification. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 183106	3.4	36
60	Protonation-induced red-coloured circularly polarized luminescence of [5]carbohelicene fused by benzimidazole. <i>Organic and Biomolecular Chemistry</i> , <b>2016</b> , 14, 6738-43	3.9	34
59	Effect of postannealing on the performance of pentacene single-crystal ambipolar transistors. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 073301	3.4	34
58	Enhancement of luminescence intensity in TMPY/perylene co-single crystals. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 17662		33
57	Electron-hole doping asymmetry of Fermi surface reconstructed in a simple Mott insulator. <i>Nature Communications</i> , <b>2016</b> , 7, 12356	17.4	32
56	Optically pumped amplified spontaneous emission in an ionic liquid-based polymer light-emitting electrochemical cell. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 263301	3.4	32

55	A Versatile and Simple Approach to Generate Light Emission in Semiconductors Mediated by Electric Double Layers. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606918	24	31
54	Ultrafast photoinduced electron transfer in face-to-face charge-transfer $\pi$ -complexes of planar porphyrins and hexaazatriphenylene derivatives. <i>Chemical Science</i> , <b>2015</b> , 6, 1498-1509	9.4	30
53	High Current Injection into Dynamic p-n Homojunction in Polymer Light-Emitting Electrochemical Cells. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606392	24	29
52	Metal-Guided Selective Growth of 2D Materials: Demonstration of a Bottom-Up CMOS Inverter. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900861	24	28
51	Electron-Transfer Reduction Properties and Excited-State Dynamics of Benzo[ghi]peryleneimide and Coroneneimide Derivatives. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 7710-7720	3.8	28
50	Electron spin resonance observation of charge carrier concentration in organic field-effect transistors during device operation. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	26
49	Giant power factors in p- and n-type large-area graphene films on a flexible plastic substrate. <i>Npj 2D Materials and Applications</i> , <b>2019</b> , 3,	8.8	25
48	Ambipolar light-emitting organic single-crystal transistors with a grating resonator. <i>Scientific Reports</i> , <b>2015</b> , 5, 10221	4.9	24
47	Inkjet printing of aligned single-walled carbon-nanotube thin films. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 143107	3.4	23
46	Maximizing Field-Effect Mobility and Solid-State Luminescence in Organic Semiconductors. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 3903-3907	3.6	19
45	Characterization of New Rubrene Analogues with Heteroaryl Substituents. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 442-448	3.5	18
44	Microscopic observation of efficient charge transport processes across domain boundaries in donor-acceptor-type conjugated polymers. <i>Communications Physics</i> , <b>2019</b> , 2,	5.4	17
43	Two-dimensional magnetic interactions and magnetism of high-density charges in a polymer transistor. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 133301	3.4	17
42	Formation of environmentally stable hole-doped graphene films with instantaneous and high-density carrier doping via a boron-based oxidant. <i>Npj 2D Materials and Applications</i> , <b>2019</b> , 3,	8.8	16
41	An ester-substituted polyfluorene derivative for light-emitting electrochemical cells: bright blue emission and its application in a host-guest system. <i>Materials Chemistry Frontiers</i> , <b>2018</b> , 2, 952-958	7.8	16
40	Extraction of the contact resistance from the saturation region of rubrene single-crystal transistors. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 233301	3.4	16
39	Recent Progress on Light-Emitting Electrochemical Cells with Nonpolymeric Materials. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1908641	15.6	14
38	Controllable Electronic Structures and Photoinduced Processes of Bay-Linked Perylenediimide Dimers and a Ferrocene-Linked Triad. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 9631-41	4.8	14

37	Two-dimensional ground-state mapping of a Mott-Hubbard system in a flexible field-effect device. <i>Science Advances</i> , <b>2019</b> , 5, eaav7282	14.3	13
36	Control of the electrochemical and photophysical properties of N-substituted benzo[ghi]perylene derivatives. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 2299-2308	7.8	12
35	Photodetection in p <sub>n</sub> junctions formed by electrolyte-gated transistors of two-dimensional crystals. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 201107	3.4	12
34	Triethylene Glycol Substituted Diketopyrrolopyrrole- and Isoindigo-Dye Based Donor-Acceptor Copolymers for Organic Light-Emitting Electrochemical Cells and Transistors. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 1901414	6.4	11
33	Direct observation of electrically induced Pauli paramagnetism in single-layer graphene using ESR spectroscopy. <i>Scientific Reports</i> , <b>2016</b> , 6, 34966	4.9	10
32	Simultaneous enhancement of conductivity and Seebeck coefficient in an organic Mott transistor. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 233301	3.4	9
31	Light emission from organic single crystals operated by electrolyte doping. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 03EF02	1.4	8
30	Wafer-Scale Growth of One-Dimensional Transition-Metal Telluride Nanowires. <i>Nano Letters</i> , <b>2021</b> , 21, 243-249	11.5	8
29	Chemical hole doping into large-area transition metal dichalcogenide monolayers using boron-based oxidant. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 02CB15	1.4	6
28	Non-Fermi-liquid behavior and doping asymmetry in an organic Mott insulator interface. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	5
27	Highly Efficient Microscopic Charge Transport within Crystalline Domains in a Furan-Flanked Diketopyrrolopyrrole-Based Conjugated Copolymer. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2000389	15.6	5
26	Electrical investigation of the interface band structure in rubrene single-crystal/nickel junction. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 043505	3.4	5
25	Realization of ohmic-like contact between ferromagnet and rubrene single crystal. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 073501	3.4	5
24	Strategy for improved frequency response of electric double-layer capacitors. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 153505	3.4	4
23	Air-stable and efficient electron doping of monolayer MoS by salt-crown ether treatment. <i>Nanoscale</i> , <b>2021</b> , 13, 8784-8789	7.7	4
22	Room-Temperature Chiral Light-Emitting Diode Based on Strained Monolayer Semiconductors. <i>Advanced Materials</i> , <b>2021</b> , 33, e2100601	24	4
21	GaN light-emitting device based on ionic liquid electrolyte. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 06HE05	1.4	3
20	Exciton Polarization and Renormalization Effect for Optical Modulation in Monolayer Semiconductors. <i>ACS Nano</i> , <b>2019</b> , 13, 9218-9226	16.7	3

19	Charge and thermoelectric transport mechanism in donor-acceptor copolymer films. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	3
18	CVD growth of large-area InS atomic layers and device applications. <i>Nanoscale</i> , <b>2020</b> , 12, 9366-9374	7.7	3
17	Microscopic observation of highly mobile charge carriers in organic transistors of semicrystalline conducting polymers. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 02CA04	1.4	2
16	Electrical transport properties in a single-walled carbon nanotube network. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2012</b> , 9, 183-186		2
15	Nanowire-to-Nanoribbon Conversion in Transition-Metal Chalcogenides: Implications for One-Dimensional Electronics and Optoelectronics. <i>ACS Applied Nano Materials</i> , <b>2022</b> , 5, 1775-1782	5.6	2
14	Electrolyte-Gating-Induced Metal-Like Conduction in Nonstoichiometric Organic Crystalline Semiconductors under Simultaneous Bandwidth Control. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2019</b> , 13, 1900162	2.5	1
13	Polarized emission from light-emitting electrochemical cells using uniaxially oriented polymer thin films of poly(9,9-dioctylfluorene-co-bithiophene). <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 03EF01	1.4	1
12	Semiconductors: Ambipolar Organic Single-Crystal Transistors Based on Ion Gels (Adv. Mater. 32/2012). <i>Advanced Materials</i> , <b>2012</b> , 24, 4463-4463	24	1
11	Structure and thermoelectric properties of electrochemically doped polythiophene thin films: Effect of side chain density. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 183304	3.4	1
10	2D Materials: Metal-Guided Selective Growth of 2D Materials: Demonstration of a Bottom-Up CMOS Inverter (Adv. Mater. 18/2019). <i>Advanced Materials</i> , <b>2019</b> , 31, 1970132	24	0
9	Electric Double Layer Doping of Charge-Ordered Insulators $\alpha$ (BEDT-TTF) <sub>2</sub> I <sub>3</sub> and $\alpha$ (BETS) <sub>2</sub> I <sub>3</sub> . <i>Crystals</i> , <b>2021</b> , 11, 791	2.3	0
8	Metallic Conduction and Carrier Localization in Two-Dimensional BEDO-TTF Charge-Transfer Solid Crystals. <i>Crystals</i> , <b>2022</b> , 12, 23	2.3	0
7	Single-Crystal Organic Field-Effect Transistors <b>2013</b> , 301-318		
6	Novel Functional Devices of Single-walled Carbon Nanotubes. <i>Molecular Science</i> , <b>2015</b> , 9, A0080	0	
5	Carbon Nanotube Thin-Film Transistors <b>2015</b> , 117-132		
4	High Current Density Injection into Polymer Light-Emitting Electrochemical Cells. <i>The Review of Laser Engineering</i> , <b>2018</b> , 46, 10	0	
3	A versatile structure of light-emitting electrochemical cells for printed electronics. <i>Applied Physics Express</i> , <b>2020</b> , 13, 084002	2.4	
2	Nonpolymeric LECs: Recent Progress on Light-Emitting Electrochemical Cells with Nonpolymeric Materials (Adv. Funct. Mater. 33/2020). <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2070223	15.6	

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