

# Taishi Takenobu

## List of Publications by Year in descending order

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109  
papers

10,494  
citations

81134

38  
h-index

31060

100  
g-index

117  
all docs

117  
docs citations

117  
times ranked

17530  
citing authors

#	ARTICLE	IF	CITATIONS
1	Análisis de los hábitos nutricionales entre los principales agentes sanitarios en promoción de la salud (médicos/as y enfermeros/as) de los servicios de urgencias en tiempos de la COVID-19. Semergen, 2022, 48, 154-162.	0.4	1
2	Admission Points Score to Predict Undergraduate Performance - Comparing Quantity Surveying vs. Real Estate. Lecture Notes in Networks and Systems, 2022, , 1186-1192.	0.2	0
3	Existential and General Statements. , 2022, , 174-187.		0
4	Classifications of the Reservoir Space of Tight Sandstone Based on Pore Structure, Connectivity, and Fractal Character: A Case Study from the Chang 7 Member of the Triassic Yanchang Formation in the Ordos Basin, China. ACS Omega, 2022, 7, 10627-10637.	3.6	4
5	Metallic Conduction and Carrier Localization in Two-Dimensional BEDO-TTF Charge-Transfer Solid Crystals. Crystals, 2022, 12, 23.	2.3	2
6	Novel functional devices of transition metal dichalcogenide monolayers. , 2022, , .		0
7	Air-stable and efficient electron doping of monolayer MoS <sub>2</sub> by salt "crown ether treatment. Nanoscale, 2021, 13, 8784-8789.	5.7	12
8	One-dimensionality of thermoelectric properties of semiconducting nanomaterials. Physical Review Materials, 2021, 5, .	2.5	3
9	<i>Penta</i> -PdPSe: A New 2D Pentagonal Material with Highly In-Plane Optical, Electronic, and Optoelectronic Anisotropy. Advanced Materials, 2021, 33, e2102541.	24.0	83
10	Electric Double Layer Doping of Charge-Ordered Insulators $\hat{\pm}$ -(BEDT-TTF) <sub>2</sub> I <sub>3</sub> and $\hat{\pm}$ -(BETS) <sub>2</sub> I <sub>3</sub> . Crystals, 2021, 11, 791.	2.3	3
11	Regulation of Photovoltaic Response in ZSO-Based Multiferroic BFCO/BFCNT Heterojunction Photoelectrodes via Magnetization and Polarization. ACS Applied Materials & Interfaces, 2021, 13, 35657-35663.	8.2	12
12	Behavior of Methane Hydrate-in-Water Slurries from Shut-in to Flow Restart. Energy & Fuels, 2021, 35, 13086-13097.	5.2	4
13	Room-Temperature Chiral Light-Emitting Diode Based on Strained Monolayer Semiconductors. Advanced Materials, 2021, 33, e2100601.	24.0	22
14	A Soft and Absorbable Temporary Epicardial Pacing Wire. Advanced Materials, 2021, 33, e2101447.	24.0	28
15	Space Environment Effect on Polymeric Nano-Composite Materials. Aerotecnica Missili & Spazio, 2021, 100, 25-32.	1.0	1
16	Structure and thermoelectric properties of electrochemically doped polythiophene thin films: Effect of side chain density. Applied Physics Letters, 2021, 119, .	3.2	3
17	Modeling and analysis of a high- <i>T<sub>c</sub></i> superconducting polarization-manipulating single-sideband mixer for terahertz communications. Journal of Applied Physics, 2021, 130, .	2.3	3
18	Electronic structure and stability of Cs <sub>2</sub> TiX <sub>6</sub> and Cs <sub>2</sub> ZrX <sub>6</sub> (X = Br, I) vacancy ordered double perovskites. Applied Physics Letters, 2021, 119, .	3.2	32

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19	Improvement of mRNA Delivery Efficiency to a T Cell Line by Modulating PEG-Lipid Content and Phospholipid Components of Lipid Nanoparticles. <i>Pharmaceutics</i> , 2021, 13, 2097.	4.5	14
20	2D Materials for Large-Area Flexible Thermoelectric Devices. <i>Advanced Energy Materials</i> , 2020, 10, 1902842.	21.9	167
21	Endo/Lysosome-Escapable Delivery Depot for Improving BBB Transcytosis and Neuron Targeted Therapy of Alzheimer's Disease. <i>Advanced Functional Materials</i> , 2020, 30, 1909999.	16.3	82
22	Triethylene Glycol Substituted Diketopyrrolopyrrole- and Isoindigo-Dye Based Donor-Acceptor Copolymers for Organic Light-Emitting Electrochemical Cells and Transistors. <i>Advanced Electronic Materials</i> , 2020, 6, 1901414.	5.3	21
23	A helical inner scaffold provides a structural basis for centriole cohesion. <i>Science Advances</i> , 2020, 6, eaaz4137.	10.8	128
24	Editing a $\beta$ -globin repressor binding site restores fetal hemoglobin synthesis and corrects the sickle cell disease phenotype. <i>Science Advances</i> , 2020, 6, .	10.8	97
25	Highly Efficient Microscopic Charge Transport within Crystalline Domains in a Furan-Flanked Diketopyrrolopyrrole-Based Conjugated Copolymer. <i>Advanced Functional Materials</i> , 2020, 30, 2000389.	16.3	11
26	CVD growth of large-area InS atomic layers and device applications. <i>Nanoscale</i> , 2020, 12, 9366-9374.	5.7	12
27	Charge and thermoelectric transport mechanism in donor-acceptor copolymer films. <i>Physical Review Research</i> , 2020, 2, .	3.6	5
28	Design principles for biochemical oscillations with limited energy resources. <i>Physical Review Research</i> , 2020, 2, .	3.6	7
29	Magnetic excitations in an ionic spin-chain system with a nonmagnetic ferroelectric instability. <i>Physical Review Research</i> , 2020, 2, .	3.6	4
30	A versatile structure of light-emitting electrochemical cells for printed electronics. <i>Applied Physics Express</i> , 2020, 13, 084002.	2.4	1
31	Exciton Polarization and Renormalization Effect for Optical Modulation in Monolayer Semiconductors. <i>ACS Nano</i> , 2019, 13, 9218-9226.	15.1	9
32	Microscopic observation of efficient charge transport processes across domain boundaries in donor-acceptor-type conjugated polymers. <i>Communications Physics</i> , 2019, 2, .	5.3	24
33	Giant power factors in p- and n-type large-area graphene films on a flexible plastic substrate. <i>Npj 2D Materials and Applications</i> , 2019, 3, .	8.2	32
34	Non-Fermi-liquid behavior and doping asymmetry in an organic Mott insulator interface. <i>Physical Review B</i> , 2019, 100, .	3.3	6
35	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> , 2019, 3, .	8.2	24
36	Electrolyte-Gating-Induced Metal-Like Conduction in Nonstoichiometric Organic Crystalline Semiconductors under Simultaneous Bandwidth Control. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900162.	2.4	1

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37	Two-dimensional ground-state mapping of a Mott-Hubbard system in a flexible field-effect device. <i>Science Advances</i> , 2019, 5, eaav7282.	10.8	22
38	Metal-Guided Selective Growth of 2D Materials: Demonstration of a Bottom-Up CMOS Inverter. <i>Advanced Materials</i> , 2019, 31, e1900861.	24.0	39
39	Chemical hole doping into large-area transition metal dichalcogenide monolayers using boron-based oxidant. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 02CB15.	1.6	9
40	Self-Aligned and Scalable Growth of Monolayer $WSe_2$ – $MoS_2$ Lateral Heterojunctions. <i>Advanced Functional Materials</i> , 2018, 28, 1706860.	16.3	52
41	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> , 2018, 57, 03EF01.	1.6	1
42	Light emission from organic single crystals operated by electrolyte doping. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 03EF02.	1.6	8
43	Microscopic observation of highly mobile charge carriers in organic transistors of semicrystalline conducting polymers. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 02CA04.	1.6	3
44	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> , 2018, 2, 952-958.	5.9	19
45	GaN light-emitting device based on ionic liquid electrolyte. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 06HE05.	1.6	3
46	Synthesis of Large-Area InSe Monolayers by Chemical Vapor Deposition. <i>Small</i> , 2018, 14, e1802351.	11.0	88
47	30 Years of Lithium-Ion Batteries. <i>Advanced Materials</i> , 2018, 30, e1800561.	24.0	3,404
48	High Current Density Injection into Polymer Light-Emitting Electrochemical Cells. <i>The Review of Laser Engineering</i> , 2018, 46, 10.	0.1	0
49	Highly Efficient and Stable Perovskite Solar Cells by Interfacial Engineering Using Solution-Processed Polymer Layer. <i>Journal of Physical Chemistry C</i> , 2017, 121, 1562-1568.	3.2	172
50	High Current Injection into Dynamic p-n Homojunction in Polymer Light-Emitting Electrochemical Cells. <i>Advanced Materials</i> , 2017, 29, 1606392.	24.0	36
51	A Versatile and Simple Approach to Generate Light Emission in Semiconductors Mediated by Electric Double Layers. <i>Advanced Materials</i> , 2017, 29, 1606918.	24.0	38
52	A Bioinspired Mineral Hydrogel as a Self-Healable, Mechanically Adaptable Ionic Skin for Highly Sensitive Pressure Sensing. <i>Advanced Materials</i> , 2017, 29, 1700321.	24.0	852
53	An Ionic Liquid That Dissolves Semiconducting Polymers: A Promising Electrolyte for Bright, Efficient, and Stable Light-Emitting Electrochemical Cells. <i>Chemistry of Materials</i> , 2017, 29, 6122-6129.	6.9	44
54	Control of the electrochemical and photophysical properties of N-substituted benzo[ghi]perylene derivatives. <i>Materials Chemistry Frontiers</i> , 2017, 1, 2299-2308.	5.9	14

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55	Financial Accounting and Reporting by Continuing Care Retirement Communities. , 2017, , 311-328.		0
56	Controllable Electronic Structures and Photoinduced Processes of Bayâ€Linked Perylenediimide Dimers and a Ferroceneâ€Linked Triad. Chemistry - A European Journal, 2016, 22, 9631-9641.	3.8	21
57	Thermoelectric Detection of Multiâ€Subband Density of States in Semiconducting and Metallic Singleâ€Walled Carbon Nanotubes. Small, 2016, 12, 3388-3392.	11.0	45
58	Highly Flexible and Highâ€Performance Complementary Inverters of Largeâ€Area Transition Metal Dichalcogenide Monolayers. Advanced Materials, 2016, 28, 4111-4119.	24.0	118
59	Simultaneous enhancement of conductivity and Seebeck coefficient in an organic Mott transistor. Applied Physics Letters, 2016, 109, .	3.2	15
60	Direct observation of electrically induced Pauli paramagnetism in single-layer graphene using ESR spectroscopy. Scientific Reports, 2016, 6, 34966.	3.4	13
61	Photodetection in pâ€n junctions formed by electrolyte-gated transistors of two-dimensional crystals. Applied Physics Letters, 2016, 109, .	3.2	16
62	Acoustic charge transport induced by the surface acoustic wave in chemical doped graphene. Applied Physics Letters, 2016, 109, .	3.2	29
63	Optical find of hypersonic surface acoustic waves in bulk transparent materials. Physical Review B, 2016, 94, .	3.3	7
64	Electronâ€hole doping asymmetry of Fermi surface reconstructed in a simple Mott insulator. Nature Communications, 2016, 7, 12356.	13.0	38
65	Protonation-induced red-coloured circularly polarized luminescence of [5]carbohelicene fused by benzimidazole. Organic and Biomolecular Chemistry, 2016, 14, 6738-6743.	2.8	40
66	Controlled Excited-State Dynamics and Enhanced Fluorescence Property of Tetrasulfone[9]helicene by a Simple Synthetic Process. Journal of Physical Chemistry C, 2016, 120, 7421-7427.	3.2	56
67	Synthetic Control of the Excitedâ€State Dynamics and Circularly Polarized Luminescence of Fluorescent â€Pushâ€Pullâ€Tetrathia[9]helicenes. Chemistry - A European Journal, 2016, 22, 4263-4273.	3.8	87
68	Synthetic Control of Photophysical Process and Circularly Polarized Luminescence of [5]Carbohelicene Derivatives Substituted by Maleimide Units. Journal of Physical Chemistry C, 2016, 120, 7860-7869.	3.2	66
69	Ambipolar light-emitting organic single-crystal transistors with a grating resonator. Scientific Reports, 2015, 5, 10221.	3.4	26
70	Strategy for improved frequency response of electric double-layer capacitors. Applied Physics Letters, 2015, 107, .	3.2	4
71	Novel Functional Devices of Single-walled Carbon Nanotubes. Molecular Science, 2015, 9, A0080.	0.2	0
72	Highly Fluorescent [7]Carbohelicene Fused by Asymmetric 1,2-Dialkyl-Substituted Quinoxaline for Circularly Polarized Luminescence and Electroluminescence. Journal of Physical Chemistry C, 2015, 119, 13937-13947.	3.2	107

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73	Carbon Nanotube Thin-Film Transistors. , 2015, , 117-132.		0
74	Ultrafast photoinduced electron transfer in face-to-face charge-transfer $\pi$ -complexes of planar porphyrins and hexaazatriphenylene derivatives. Chemical Science, 2015, 6, 1498-1509.	7.7	33
75	Fluorescent Ferroelectrics of Hydrogen-Bonded Pyrene Derivatives. Journal of Physical Chemistry Letters, 2015, 6, 1813-1818.	4.8	80
76	Characterization of New Rubrene Analogues with Heteroaryl Substituents. Crystal Growth and Design, 2015, 15, 442-448.	3.2	26
77	Hole mobility enhancement and $p$ -doping in monolayer $WSe_2$ by gold decoration. 2D Materials, 2014, 1, 034001.	4.5	136
78	Organic single-crystal light-emitting field-effect transistors. Journal of Materials Chemistry C, 2014, 2, 965-980.	5.5	131
79	Large-Area Synthesis of Highly Crystalline $WSe_2$ Monolayers and Device Applications. ACS Nano, 2014, 8, 923-930.	15.1	928
80	Novel functional devices of transition metal dichalcogenide monolayers. , 2014, , .		0
81	A Tale of Two Data-Intensive Paradigms: Applications, Abstractions, and Architectures. , 2014, , .		56
82	Monolayer $MoSe_2$ Grown by Chemical Vapor Deposition for Fast Photodetection. ACS Nano, 2014, 8, 8582-8590.	15.1	534
83	Electron-Transfer Reduction Properties and Excited-State Dynamics of Benzo[ghi]peryleneimide and Coroneneimide Derivatives. Journal of Physical Chemistry C, 2014, 118, 7710-7720.	3.2	30
84	Flexible and stretchable thin-film transistors based on molybdenum disulphide. Physical Chemistry Chemical Physics, 2014, 16, 14996.	2.9	56
85	Continuous Band-Filling Control and One-Dimensional Transport in Metallic and Semiconducting Carbon Nanotube Tangled Films. Advanced Functional Materials, 2014, 24, 3305-3311.	16.3	41
86	Charge transport in ion-gated mono-, bi- and trilayer $MoS_2$ field effect transistors. Scientific Reports, 2014, 4, 7293.	3.4	65
87	Fabrication of stretchable $MoS_2$ thin-film transistors using elastic ion-gel gate dielectrics. Applied Physics Letters, 2013, 103, .	3.2	96
88	Avian host defense peptides. Developmental and Comparative Immunology, 2013, 41, 352-369.	2.2	164
89	The effect of subwavelength localization of the electromagnetic field on the surface of a circular metamaterial cylinder. Journal of Communications Technology and Electronics, 2013, 58, 691-694.	0.5	7
90	Single-Crystal Organic Field-Effect Transistors. , 2013, , 301-318.		0

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91	Electron spin resonance observation of charge carrier concentration in organic field-effect transistors during device operation. <i>Physical Review B</i> , 2013, 87, .	3.3	28
92	Inkjet printing of aligned single-walled carbon-nanotube thin films. <i>Applied Physics Letters</i> , 2013, 102, .	3.2	29
93	Two-dimensional magnetic interactions and magnetism of high-density charges in a polymer transistor. <i>Applied Physics Letters</i> , 2013, 102, .	3.2	20
94	Realization of ohmic-like contact between ferromagnet and rubrene single crystal. <i>Applied Physics Letters</i> , 2012, 101, 073501.	3.2	5
95	Optically pumped amplified spontaneous emission in an ionic liquid-based polymer light-emitting electrochemical cell. <i>Applied Physics Letters</i> , 2012, 100, 263301.	3.2	32
96	Highly Flexible MoS <sub>2</sub> Thin-Film Transistors with Ion Gel Dielectrics. <i>Nano Letters</i> , 2012, 12, 4013-4017.	9.4	765
97	Electrical transport properties in a single-walled carbon nanotube network. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012, 9, 183-186.	0.8	2
98	Ambipolar Organic Single-Crystal Transistors Based on Ion Gels. <i>Advanced Materials</i> , 2012, 24, 4392-4397.	24.0	82
99	Electron Transfer and Ionic Displacements at the Origin of the 2D Electron Gas at the LAO/STO Interface: Direct Measurements with Atomic-Column Spatial Resolution. <i>Advanced Materials</i> , 2012, 24, 3952-3957.	24.0	135
100	Maximizing Field-Effect Mobility and Solid-State Luminescence in Organic Semiconductors. <i>Angewandte Chemie</i> , 2012, 124, 3903-3907.	2.1	26
101	Development of chimeric laccases by directed evolution. <i>Biotechnology and Bioengineering</i> , 2012, 109, 2978-2986.	3.5	52
102	Enhancement of luminescence intensity in TMPY/perylene co-single crystals. <i>Journal of Materials Chemistry</i> , 2011, 21, 17662.	6.7	38
103	Extraction of the contact resistance from the saturation region of rubrene single-crystal transistors. <i>Applied Physics Letters</i> , 2011, 99, 233301.	3.2	19
104	Electrical investigation of the interface band structure in rubrene single-crystal/nickel junction. <i>Applied Physics Letters</i> , 2011, 99, 043505.	3.2	5
105	Inkjet printing of single-walled carbon nanotube thin-film transistors patterned by surface modification. <i>Applied Physics Letters</i> , 2011, 99, .	3.2	43
106	Green light emission from the edges of organic single-crystal transistors. <i>Applied Physics Letters</i> , 2010, 97, 173301.	3.2	52
107	High current densities in a highly photoluminescent organic single-crystal light-emitting transistor. <i>Applied Physics Letters</i> , 2010, 97, .	3.2	54
108	Effect of postannealing on the performance of pentacene single-crystal ambipolar transistors. <i>Applied Physics Letters</i> , 2008, 93, 073301.	3.2	37

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109	High Current Density in Light-Emitting Transistors of Organic Single Crystals. Physical Review Letters, 2008, 100, 066601.	8.0	216