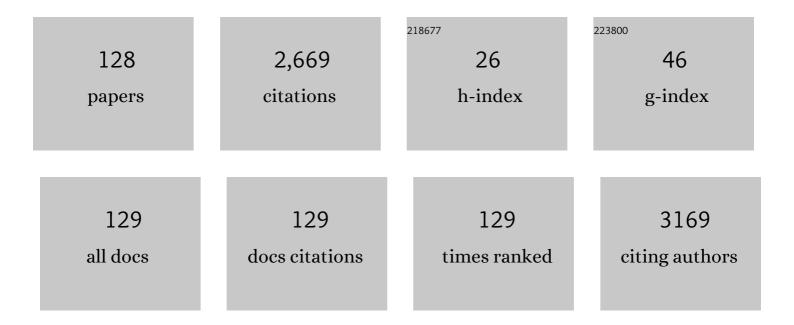
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Simple Saltâ€Coordinated nâ€Type Nanocarbon Materials Stable in Air. Advanced Functional Materials, 2016, 26, 3021-3028.	14.9	232
2	Origin of the highest occupied band position in pentacene films from ultraviolet photoelectron spectroscopy: Hole stabilization versus band dispersion. Physical Review B, 2006, 73, .	3.2	184
3	From materials to device design of a thermoelectric fabric for wearable energy harvesters. Journal of Materials Chemistry A, 2017, 5, 12068-12072.	10.3	120
4	Light-driven molecular switch for reconfigurable spin filters. Nature Communications, 2019, 10, 2455.	12.8	109
5	Structural and electrical characterization of pentacene films on SiO2 grown by molecular beam deposition. Thin Solid Films, 2004, 464-465, 398-402.	1.8	85
6	Analysis of barrier height at crystalline domain boundary and in-domain mobility in pentacene polycrystalline films on SiO2. Applied Physics Letters, 2008, 92, .	3.3	84
7	Potential mapping of pentacene thin-film transistors using purely electric atomic-force-microscope potentiometry. Applied Physics Letters, 2005, 86, 122112.	3.3	71
8	High-Performance, Vertical-Type Organic Transistors with Built-In Nanotriode Arrays. Advanced Materials, 2007, 19, 525-530.	21.0	71
9	Ambipolar field-effect transistor characteristics of (BEDT-TTF)(TCNQ) crystals and metal-like conduction induced by a gate electric field. Physical Review B, 2007, 76, .	3.2	70
10	High-Performance Bottom-Contact Organic Thin-Film Transistors with Controlled Molecule-Crystal/Electrode Interface. Advanced Materials, 2007, 19, 371-375.	21.0	65
11	Molecular arrangement of copper phthalocyanine on hydrogen-terminated Si(111): Influence of surface roughness. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1996, 14, 1109.	1.6	55
12	Fabrication and device characterization of organic light emitting transistors. Thin Solid Films, 2003, 438-439, 330-333.	1.8	49
13	Surface Instability of Sn-Based Hybrid Perovskite Thin Film, CH ₃ NH ₃ SnI ₃ : The Origin of Its Material Instability. Journal of Physical Chemistry Letters, 2018, 9, 2293-2297.	4.6	45
14	Direct measurement of density of states in pentacene thin film transistors. Physical Review B, 2011, 84, .	3.2	42
15	Conductivity fluctuation within a crystalline domain and its origin in pentacene thin-film transistors. Applied Physics Letters, 2007, 91, .	3.3	41
16	Existence of a stable intermixing phase for monolayer Ge on Si(001). Surface Science, 1997, 381, L533-L539.	1.9	39
17	Optical properties of SrMoO3 thin film. Journal of Applied Physics, 2000, 87, 4617-4619.	2.5	39
18	Crystal order in pentacene thin films grown on SiO2 and its influence on electronic band structure. Organic Electronics, 2011, 12, 195-201.	2.6	37

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19	Epitaxial growth of α-copper phthalocyanine crystal on Si(001) substrate by organic molecular beam deposition. Thin Solid Films, 1995, 256, 262-267.	1.8	35
20	Local charge accumulation and trapping in grain boundaries of pentacene thin film transistors. Organic Electronics, 2010, 11, 1729-1735.	2.6	35
21	Designing organic and inorganic ambipolar thin-film transistors and inverters: Theory and experiment. Organic Electronics, 2012, 13, 2816-2824.	2.6	35
22	Comprehensive Understanding and Controlling the Defect Structures: An Effective Approach for Organic-Inorganic Hybrid Perovskite-Based Solar-Cell Application. Frontiers in Energy Research, 2018, 6, .	2.3	35
23	Enhancement of thermoelectric properties of carbon nanotube composites by inserting biomolecules at nanotube junctions. Applied Physics Express, 2014, 7, 065102.	2.4	32
24	Molecular arrangement of copper phthalocyanine on Si(001)-(2 × 1)-H: a high-resolution frictional force microscopy and molecular mechanics study. Surface Science, 1998, 398, 143-153.	1.9	31
25	Universality of the giant Seebeck effect in organic small molecules. Materials Chemistry Frontiers, 2018, 2, 1276-1283.	5.9	31
26	High-Speed Operation of Vertical Type Organic Transistors Utilizing Step-Edge Structures. Applied Physics Express, 0, 2, 071501.	2.4	29
27	Extrinsic limiting factors of carrier transport in organic field-effect transistors. Applied Physics A: Materials Science and Processing, 2009, 95, 73-80.	2.3	28
28	Significant THz absorption in CH3NH2 molecular defect-incorporated organic-inorganic hybrid perovskite thin film. Scientific Reports, 2019, 9, 5811.	3.3	26
29	Control of in-plane orientation of phthalocyanine molecular columns using vicinal Si(001)-(2×1)-H. Journal of Applied Physics, 2001, 89, 7860-7865.	2.5	25
30	Fabrication and Electrical Characterization of Tetrathiafulvalene-tetracyanoquinodimethane Molecular Wires. Japanese Journal of Applied Physics, 2003, 42, 2488-2491.	1.5	25
31	Vertical electrical conduction in pentacene polycrystalline thin films mediated by Au-induced gap states at grain boundaries. Applied Physics A: Materials Science and Processing, 2009, 95, 225-232.	2.3	25
32	Scaling limits of organic digital circuits. Organic Electronics, 2014, 15, 461-469.	2.6	25
33	Giant Seebeck effect in pure fullerene thin films. Applied Physics Express, 2015, 8, 121301.	2.4	25
34	Investigation and Control of Charge Transport Anisotropy in Highly Oriented Friction-Transferred Polythiophene Thin Films. ACS Applied Materials & Interfaces, 2020, 12, 11876-11883.	8.0	25
35	Organic nano-transistor fabricated by co-evaporation method under alternating electric field. Synthetic Metals, 2005, 153, 293-296.	3.9	23
36	Self-organized growth of tetrathiafulvalene–tetracyanoquinodimethane molecular wires using the coevaporation method under a static electric field. Journal of Applied Physics, 2005, 97, 053509.	2.5	22

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37	Development of AFM potentiometry for potential mapping of organic conductors. Synthetic Metals, 2003, 137, 887-888.	3.9	20
38	Unique phonon modes of a CH3NH3PbBr3 hybrid perovskite film without the influence of defect structures: an attempt toward a novel THz-based application. NPG Asia Materials, 2020, 12, .	7.9	20
39	Organic Static Induction Transistors with Nano-Hole Arrays Fabricated by Colloidal Lithography. E-Journal of Surface Science and Nanotechnology, 2005, 3, 327-331.	0.4	19
40	Organic nanochannel field-effect transistor with organic conductive wires. Applied Physics Letters, 2007, 90, 062101.	3.3	19
41	Reduction of interfaceâ€state density by F2treatment in a metalâ€oxideâ€semiconductor diode prepared from a photochemical vapor deposited SiO2film. Applied Physics Letters, 1989, 55, 2402-2404.	3.3	18
42	Extreme Orientational Uniformity in Large-Area Floating Films of Semiconducting Polymers for Their Application in Flexible Electronics. ACS Applied Materials & Interfaces, 2021, 13, 38534-38543.	8.0	18
43	The Overlayer Structure on the Si(001)-(2×3)-Ag Surface Determined by X-ray Photoelectron Diffraction. Surface Review and Letters, 1998, 05, 953-958.	1.1	17
44	Thin Film Transistors with Oriented Copper Phthalocyanine Crystals Fabricated by Physical Vapor Deposition under DC Electric Field. Japanese Journal of Applied Physics, 2004, 43, 2362-2365.	1.5	17
45	Flexible organic field-effect transistor fabricated by thermal press process. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1353-1357.	1.8	17
46	Significant THz-wave absorption property in mixed <i>δ</i> - and <i>α</i> -FAPbI ₃ hybrid perovskite flexible thin film formed by sequential vacuum evaporation. Applied Physics Express, 2019, 12, 051003.	2.4	17
47	Thickness dependence of mobility of pentacene planar bottom-contact organic thin-film transistors. Thin Solid Films, 2008, 516, 2776-2778.	1.8	16
48	Influence of film thickness on the molecular arrangement of copper phthalocyanine on hydrogen-terminated Si(111). Applied Surface Science, 1997, 113-114, 316-321.	6.1	15
49	Structural ordering versus energy band alignment: Effects of self-assembled monolayers on the metal/semiconductor interfaces of small molecule organic thin-film transistors. Organic Electronics, 2014, 15, 3723-3728.	2.6	15
50	Vertical type organic light emitting device using thin-film ZnO electrode. Synthetic Metals, 2005, 154, 149-152.	3.9	14
51	Factors influencing local potential drop in bottom-contact organic thin-film transistor using solution-processible tetrabenzoporphyrin. Organic Electronics, 2008, 9, 439-444.	2.6	14
52	High-Speed Operation of Step-Edge Vertical-Channel Organic Transistors with Pentacene and 6,13-Bis(triisopropyl-silylethynyl) Pentacene. Japanese Journal of Applied Physics, 2010, 49, 04DK03.	1.5	14
53	Molecular-scale structures of Langmuir–Blodgett films of fatty acids observed by atomic force microscopy (II) – cation dependence. Thin Solid Films, 1998, 331, 170-175.	1.8	13
54	Thermally stimulated current of pentacene Schottky diode. Synthetic Metals, 2003, 137, 895-896.	3.9	13

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55	Enhanced performance of solution-processed regioregular poly(3-hexylthiophene) thin-film transistors using planar bottom-contact architecture. Applied Physics Letters, 2007, 90, 223512.	3.3	13
56	Formation of CH ₃ NH ₂ -incorporated intermediate state in CH ₃ NH ₃ PbI ₃ hybrid perovskite thin film formed by sequential vacuum evaporation. Applied Physics Express, 2019, 12, 015501.	2.4	13
57	Infrared Characterization of Interface State Reduction by F2Treatment in SiO2/Si Structure using Photo-CVD SiO2Film. Japanese Journal of Applied Physics, 1990, 29, L687-L689.	1.5	12
58	Low-Temperature Growth of SiO2Thin Film by Photo-Induced Chemical Vapor Deposition Using Synchrotron Radiation. Japanese Journal of Applied Physics, 1992, 31, 1972-1978.	1.5	12
59	Fluorine Termination of Silicon Surface by F2and Succeeding Reaction with Water. Japanese Journal of Applied Physics, 1993, 32, 3125-3130.	1.5	12
60	Characterization of organic nano-transistors using a conductive AFM probe. Thin Solid Films, 2003, 438-439, 360-364.	1.8	12
61	Surface Degradation Mechanism on CH3NH3PbBr3 Hybrid Perovskite Single Crystal by a Grazing E-Beam Irradiation. Nanomaterials, 2020, 10, 1253.	4.1	12
62	Carrier Mobility in Organic Thin-film Transistors: Limiting Factors and Countermeasures. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2014, 27, 307-316.	0.3	11
63	Recent progress in the macroscopic orientation of semiconducting polymers by floating film transfer method. Japanese Journal of Applied Physics, 2022, 61, SB0801.	1.5	11
64	Vertical- and lateral-type organic FET using pentacene evaporated films. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2004, 149, 43-48.	0.4	10
65	Electrostatic Force Microscopy. Nanoscience and Technology, 2007, , 43-51.	1.5	10
66	Evaluation of Thermopower of Organic Materials Toward Flexible Thermoelectric Power Generators. Materials Research Society Symposia Proceedings, 2009, 1197, 72.	0.1	10
67	Ferroelectriclike dielectric response and metal-insulator transition in organic Mott insulator-gate insulator interface. Journal of Applied Physics, 2010, 107, .	2.5	10
68	Visible effects of static electric field on physical vapor growth of lead phthalocyanine crystals. Journal of Applied Physics, 2011, 109, 054309.	2.5	10
69	Origin of mobility enhancement by chemical treatment of gate-dielectric surface in organic thin-film transistors: Quantitative analyses of various limiting factors in pentacene thin films. Journal of Applied Physics, 2015, 118, .	2.5	10
70	Thermoelectric and Thermal Transport Properties in Sumanene Crystals. Chemistry Letters, 2018, 47, 524-527.	1.3	10
71	Diffusion and influence on photovoltaic characteristics of p-type dopants in organic photovoltaics for energy harvesting from blue-light. Organic Electronics, 2018, 52, 17-21.	2.6	10
72	Unusual terahertz-wave absorptions in δ/α-mixed-phase FAPbI3 single crystals: interfacial phonon vibration modes. NPG Asia Materials, 2021, 13, .	7.9	10

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73	Carbon Nanotube/Biomolecule Composite Yarn for Wearable Thermoelectric Applications. ACS Applied Energy Materials, 2022, 5, 3698-3705.	5.1	10
74	Investigation of mesoscopic domains in thin organic films using near-field optical absorption mapping. Ultramicroscopy, 1998, 71, 281-285.	1.9	9
75	Orientational control of pentacene crystals on SiO2 by graphoepitaxy to improve lateral carrier transport. Organic Electronics, 2012, 13, 864-869.	2.6	9
76	THz-wave absorption by field-induced carriers in pentacene thin-film transistors for THz imaging sensors. Organic Electronics, 2013, 14, 1157-1162.	2.6	9
77	Characterization of ohmic contacts in polymer organic field-effect transistors. Organic Electronics, 2016, 37, 491-497.	2.6	9
78	Strong Linear Correlation between CH3NH2 Molecular Defect and THz-Wave Absorption in CH3NH3PbI3 Hybrid Perovskite Thin Film. Nanomaterials, 2020, 10, 721.	4.1	9
79	Round Robin Study on the Thermal Conductivity/Diffusivity of a Gold Wire with a Diameter of 30 μm Tested via Five Measurement Methods. Journal of Thermal Science, 2022, 31, 1037-1051.	1.9	9
80	Fabrication of Field-Effect Transistor Using Charge-Transfer-Complex Langmuir-Blodgett Films. Japanese Journal of Applied Physics, 2002, 41, 2727-2729.	1.5	8
81	Combining Photosynthesis and Photovoltaics: A Hybrid Energy-Harvesting System Using Optical Antennas. ACS Applied Materials & Interfaces, 2020, 12, 40261-40268.	8.0	8
82	Band-Gap-Engineered Transparent Perovskite Solar Modules to Combine Photovoltaics with Photosynthesis. ACS Applied Materials & Interfaces, 2021, 13, 39230-39238.	8.0	8
83	Perfectness of the main-chain alignment in the conjugated polymer films prepared by the floating film transfer method. Applied Physics Letters, 2022, 120, .	3.3	8
84	Control of FET Characteristics by Electric Field During Charge Transfer Complex Deposition. Japanese Journal of Applied Physics, 2002, 41, 2720-2723.	1.5	7
85	Fabrication and characterization of ultra-thin film transistor using TMPD-CnTCNQ LB films. Thin Solid Films, 2003, 438-439, 326-329.	1.8	7
86	Enhancement of Short-Range Ordering of Low-Bandgap Donor–Acceptor Conjugated Polymer in Polymer/Polymer Blend Films. Macromolecules, 2020, 53, 6630-6639.	4.8	7
87	Scanning probe microscopy study of the molecular arrangement of CuPc crystal on Si(001)-(2 × 1)-H. Surface Science, 1997, 377-379, 85-89.	1.9	6
88	Fabrication of organic static induction transistors with higher order structures. Applied Surface Science, 2005, 244, 603-606.	6.1	6
89	Assisted alignment of conjugated polymers in floating film transfer method using polymer blend. Thin Solid Films, 2021, 734, 138814.	1.8	6
90	Gas phase doping of pre-fabricated CNT yarns for enhanced thermoelectric properties. Synthetic Metals, 2021, 280, 116874.	3.9	6

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91	Evaluation of SiO2Films and SiO2/Si Interfaces by Graded Etching. Japanese Journal of Applied Physics, 2002, 41, 805-809.	1.5	5
92	Fabrication and characterization of alternately multilayered films consisting of organic ultrathin layer using self-assembly and spin-coating method. Electronics and Communications in Japan, 2004, 87, 18-25.	0.2	5
93	Poly(3-hexylthiophene) Field-Effect Transistor with Controllable Threshold Voltage. Japanese Journal of Applied Physics, 2005, 44, 621-625.	1.5	5
94	Spontaneous Activation Process for Self-aligned Organic Nanochannel Transistors. Applied Physics Express, 0, 1, 081802.	2.4	5
95	Effect of gate insulating layer on organic static induction transistor characteristics. Thin Solid Films, 2009, 518, 514-517.	1.8	5
96	Solvent-Assisted Friction Transfer Method for Fabricating Large-Area Thin Films of Semiconducting Polymers with Edge-On Oriented Extended Backbones. ACS Applied Materials & Interfaces, 2020, 12, 55033-55043.	8.0	5
97	Fabrication and Device Simulation of Single Nano-Scale Organic Static Induction Transistors. IEICE Transactions on Electronics, 2006, E89-C, 1765-1770.	0.6	5
98	Nanoscale Observation of the Influence of Solvent Additives on All-Polymer Blend Solar Cells by Photoconductive Atomic Force Microscopy. ACS Applied Polymer Materials, 2022, 4, 169-178.	4.4	5
99	Organic Complementary Inverters Based on Step-Edge Vertical Channel Organic Field-Effect Transistors. Applied Physics Express, 2011, 4, 054203.	2.4	4
100	Clean interface without any intermixed state between ultra-thin P3 polymer and CH3NH3PbI3 hybrid perovskite thin film. Scientific Reports, 2019, 9, 10853.	3.3	4
101	Fabrication of Active Light-Emitting Device Combined with ZnO Transistors. Japanese Journal of Applied Physics, 2009, 48, 04C167.	1.5	3
102	CMOS Circuits Based on a Stacked Structure Using Silicone-Resin as Dielectric Layers. IEICE Transactions on Electronics, 2011, E94-C, 136-140.	0.6	3
103	Fabrication of organic conductive wires and molecular break junction. Journal of Physics: Conference Series, 2012, 358, 012011.	0.4	3
104	In-situ observation of electric-field-induced acceleration in crystal growth of tetrathiafulvalene-tetracyanoquinodimethane. Journal of Applied Physics, 2013, 113, 153513.	2.5	3
105	Fabrication of ribbon-like films of orientation-controlled carbon nanotube/polymer composite using a robotic dispenser. Applied Physics Express, 2020, 13, 065503.	2.4	3
106	Bias effect on surface chemical states of CH3NH3PbBr3 hybrid perovskite single crystal: Decreasing CH3NH2 molecular defect. Applied Surface Science, 2021, 542, 148536.	6.1	3
107	Electron Transport in Thin Films of Polymer and Small-Molecule Acceptors Visualized by Conductive Atomic Force Microscopy. Journal of Physical Chemistry C, 2021, 125, 13741-13748.	3.1	3
108	Terahertz Wave Absorption Property of all Mixed Organic–Inorganic Hybrid Perovskite Thin Film MA(Sn, Pb)(Br, I)3 Fabricated by Sequential Vacuum Evaporation Method. Frontiers in Chemistry, 2021, 9, 753141.	3.6	3

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109	Anisotropy of electrical conductivity in a pentacene crystal grain on SiO2 evaluated by atomic-force-microscope potentiometry and electrostatic simulation. Applied Physics Letters, 2010, 96, .	3.3	2
110	Gate-Induced Thermally Stimulated Current on the Ferroelectric-like Dielectric Properties of (BEDT-TTF)(TCNQ) Crystalline Field Effect Transistor. Crystals, 2012, 2, 730-740.	2.2	2
111	Characterization of Organic Static Induction Transistors with Nano-Gap Gate Fabricated by Electron Beam Lithography. IEICE Transactions on Electronics, 2008, E91-C, 1852-1855.	0.6	2
112	Correlation of THz-wave absorption properties by different halogen elements in FAPb(Br, I)-based hybrid perovskite thin films. Applied Physics Express, 2021, 14, 121002.	2.4	2
113	Influence of Substrate on In-Plane Electrical Conduction of CuPc Nano-Crystals. Materials Research Society Symposia Proceedings, 2002, 738, 8111.	0.1	1
114	Optimization of the CuPc active layer thickness of static induction transistors. , 0, , .		1
115	Device preparation and characterization of drain current transients in static induction micro transistors. Microelectronics Journal, 2006, 37, 884-887.	2.0	1
116	Carbon Nanotubes: Simple Salt-Coordinated n-Type Nanocarbon Materials Stable in Air (Adv. Funct.) Tj ETQq0 0	0 rgBT /Ov £4.9	verlock 10 Tf
117	Influence of Substrate on In-Plane Electrical Conduction of CuPc Nano-Crystals. Materials Research Society Symposia Proceedings, 2002, 761, 1.	0.1	0
118	Ultrathin Multilayered Films Using CuPcSAS and Polyaniline. Synthetic Metals, 2003, 137, 889-890.	3.9	0
119	Fabrication of Ultra-Thin Film Transistor Using Charge-Transfer-Complex LB Films. IEEJ Transactions on Electronics, Information and Systems, 2003, 123, 1027-1028.	0.2	0
120	"Self-Assembled" Organic Nano-Transistors Hyomen Kagaku, 2003, 24, 77-82.	0.0	0
121	Recent Advances in Molecular Electronics and Bioelectronics. Japanese Journal of Applied Physics, 2014, 53, 01A001.	1.5	0
122	Potential Fluctuation of the Carrier Transporting Levels in Organic Field-Effect Transistors and Its Application to Terahertz-Wave Sensors. Journal of the Vacuum Society of Japan, 2015, 58, 97-103.	0.3	0
123	An origin of the irreproducibility of hole injection barrier from Au top-contact electrodes and its influence on device performance in top-contact organic field-effect transistors. Organic Electronics, 2019, 69, 92-97.	2.6	0
124	Novel Materials and Device Design for Wearable Energy Harvesters. , 2021, , 41-57.		0
125	Vertical and Lateral-Type Organic FET Using Pentacene Evaporated Films. IEEJ Transactions on Electronics, Information and Systems, 2003, 123, 853-857.	0.2	Ο

¹²⁶Organic Nano-transistors Wired by Oriented Charge Transfer Complex Crystal. IEEJ Transactions on
Electronics, Information and Systems, 2004, 124, 1224-1228.0.20

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127	Mobility Limiting Factors in Practical Polycrystalline Organic Thin Films. Springer Series in Materials Science, 2015, , 185-225.	0.6	0
128	Investigation of Organic-Based Thermoelectric Materials for Flexible Thermoelectric Generators. Vacuum and Surface Science, 2020, 63, 239-244.	0.1	0