

# Tomoyuki Koganezawa

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6846584/publications.pdf>

Version: 2024-02-01

196  
papers

5,384  
citations

126708

33  
h-index

98622

67  
g-index

198  
all docs

198  
docs citations

198  
times ranked

5971  
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient inverted polymer solar cells employing favourable molecular orientation. <i>Nature Photonics</i> , 2015, 9, 403-408.	15.6	769
2	Synthesis, Characterization, and Transistor and Solar Cell Applications of a Naphthobisthiadiazole-Based Semiconducting Polymer. <i>Journal of the American Chemical Society</i> , 2012, 134, 3498-3507.	6.6	323
3	Implication of Fluorine Atom on Electronic Properties, Ordering Structures, and Photovoltaic Performance in Naphthobisthiadiazole-Based Semiconducting Polymers. <i>Journal of the American Chemical Society</i> , 2016, 138, 10265-10275.	6.6	319
4	Naphthodithiophene- $\pi$ -Naphthobisthiadiazole Copolymers for Solar Cells: Alkylation Drives the Polymer Backbone Flat and Promotes Efficiency. <i>Journal of the American Chemical Society</i> , 2013, 135, 8834-8837.	6.6	301
5	Thiophene- $\pi$ -Thiazolothiazole Copolymers: Significant Impact of Side Chain Composition on Backbone Orientation and Solar Cell Performances. <i>Advanced Materials</i> , 2014, 26, 331-338.	11.1	275
6	Drastic Change of Molecular Orientation in a Thiazolothiazole Copolymer by Molecular Weight Control and Blending with PC <sub>61</sub> BM Leads to High Efficiencies in Solar Cells. <i>Advanced Materials</i> , 2012, 24, 425-430.	11.1	157
7	New Random Copolymer Acceptors Enable Additive-Free Processing of 10.1% Efficient All-Polymer Solar Cells with Near-Unity Internal Quantum Efficiency. <i>ACS Energy Letters</i> , 2019, 4, 1162-1170.	8.8	134
8	Terazulene Isomers: Polarity Change of OFETs through Molecular Orbital Distribution Contrast. <i>Journal of the American Chemical Society</i> , 2016, 138, 11335-11343.	6.6	132
9	Naphthodithiophene-Based Donor- $\pi$ -Acceptor Polymers: Versatile Semiconductors for OFETs and OPVs. <i>ACS Macro Letters</i> , 2012, 1, 437-440.	2.3	128
10	All-Polymer Solar Cells with 9.4% Efficiency from Naphthalene Diimide-Biselenophene Copolymer Acceptor. <i>Chemistry of Materials</i> , 2018, 30, 6540-6548.	3.2	88
11	Fe- $\pi$ -Ni composition dependence of magnetic anisotropy in artificially fabricated L1 <sub>0</sub> -ordered FeNi films. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 064207.	0.7	82
12	Crystallization Dynamics of Organolead Halide Perovskite by Real-Time X-ray Diffraction. <i>Nano Letters</i> , 2015, 15, 5630-5634.	4.5	77
13	End-On Orientation of Semiconducting Polymers in Thin Films Induced by Surface Segregation of Fluoroalkyl Chains. <i>Journal of the American Chemical Society</i> , 2013, 135, 9644-9647.	6.6	71
14	Quinacridone-Based Semiconducting Polymers: Implication of Electronic Structure and Orientational Order for Charge Transport Property. <i>Chemistry of Materials</i> , 2012, 24, 1235-1243.	3.2	68
15	Novel dibenzo[a,e]pentalene-based conjugated polymers. <i>Journal of Materials Chemistry C</i> , 2014, 2, 64-70.	2.7	63
16	Control of Molecular Orientation in Organic Semiconductor Films using Weak Hydrogen Bonds. <i>Advanced Materials</i> , 2019, 31, e1808300.	11.1	62
17	Artificial Fabrication and Order Parameter Estimation of L10-ordered FeNi Thin Film Grown on a AuNi Buffer Layer. <i>Journal of the Magnetics Society of Japan</i> , 2011, 35, 370-373.	0.5	60
18	Regioisomer effects of [70]fullerene mono-adduct acceptors in bulk heterojunction polymer solar cells. <i>Chemical Science</i> , 2017, 8, 181-188.	3.7	52

#	ARTICLE	IF	CITATIONS
19	Enhancement of Out-of-plane Mobility in P3HT Film by Rubbing: Aggregation and Planarity Enhanced with Low Regioregularity. <i>Journal of Physical Chemistry C</i> , 2015, 119, 7987-7995.	1.5	49
20	Epitaxial Growth of an Organic p-n Heterojunction: C <sub>60</sub> on Single-Crystal Pentacene. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 13499-13505.	4.0	49
21	Impact of the molecular quadrupole moment on ionization energy and electron affinity of organic thin films: Experimental determination of electrostatic potential and electronic polarization energies. <i>Physical Review B</i> , 2018, 97, .	1.1	47
22	Performance of Si/PEDOT:PSS Hybrid Solar Cell Controlled by PEDOT:PSS Film Nanostructure. <i>Journal of Physical Chemistry C</i> , 2016, 120, 19043-19048.	1.5	46
23	Crystallization-Induced Energy Level Change of [6,6]-Phenyl-C <sub>61</sub> -Butyric Acid Methyl Ester (PCBM) Film: Impact of Electronic Polarization Energy. <i>Journal of Physical Chemistry C</i> , 2015, 119, 23-28.	1.5	44
24	Alternative Face-on Thin Film Structure of Pentacene. <i>Scientific Reports</i> , 2019, 9, 579.	1.6	40
25	Impact of Noncovalent Sulfur-Fluorine Interaction Position on Properties, Structures, and Photovoltaic Performance in Naphthobisthiadiazole-Based Semiconducting Polymers. <i>Advanced Energy Materials</i> , 2020, 10, 1903278.	10.2	39
26	The effect of the 2D internal strain state on the critical current in GdBCO coated conductors. <i>Superconductor Science and Technology</i> , 2012, 25, 054014.	1.8	38
27	Structure and magnetoresistance of current-perpendicular-to-plane pseudo spin valves using Co <sub>2</sub> Mn(Ga <sub>0.25</sub> Ge <sub>0.75</sub> ) Heusler alloy. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	38
28	Magnetic Anisotropy and Chemical Order of Artificially Synthesized L1 <sub>0</sub> -Ordered FeNi Films on Au-Cu-Ni Buffer Layers. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 010204.	0.8	37
29	Contrasting Effect of Alkylation on the Ordering Structure in Isomeric Naphthodithiophene-Based Polymers. <i>Macromolecules</i> , 2014, 47, 3502-3510.	2.2	36
30	A single cis-2 regioisomer of ethylene-tethered indene dimer-fullerene adduct as an electron-acceptor in polymer solar cells. <i>Chemical Communications</i> , 2015, 51, 8233-8236.	2.2	36
31	Efficient light-harvesting, energy migration, and charge transfer by nanographene-based nonfullerene small-molecule acceptors exhibiting unusually long excited-state lifetime in the film state. <i>Chemical Science</i> , 2020, 11, 3250-3257.	3.7	35
32	Synthesis and Isolation of cis-2 Regiospecific Ethylene-Tethered Indene Dimer-[70]Fullerene Adduct for Polymer Solar Cell Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 16676-16685.	4.0	34
33	Sequentially Different AB Diblock and ABA Triblock Copolymers as P3HT:PCBM Interfacial Compatibilizers for Bulk-Heterojunction Photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 5484-5492.	4.0	34
34	Synthesis and Characterization of ABC-Type Asymmetric Star Polymers Comprised of Poly(3-hexylthiophene), Polystyrene, and Poly(2-vinylpyridine) Segments. <i>Macromolecules</i> , 2015, 48, 245-255.	2.2	33
35	Solution-Processable Organic Semiconductors Featuring S-Shaped Dinaphthothienothiophene (S-DNTT): Effects of Alkyl Chain Length on Self-Organization and Carrier Transport Properties. <i>Chemistry of Materials</i> , 2020, 32, 5350-5360.	3.2	33
36	Thienothiophene-C <sub>2</sub> S <sub>2</sub> Dione-Based Donor-Acceptor Polymers: Improved Synthesis and Influence of the Donor Units on Ambipolar Charge Transport Properties. <i>Advanced Electronic Materials</i> , 2015, 1, 1500039.	2.6	32

#	ARTICLE	IF	CITATIONS
37	Designing High Performance Nonfullerene Electron Acceptors with Rylene Imides for Efficient Organic Photovoltaics. <i>Chemistry of Materials</i> , 2020, 32, 195-204.	3.2	32
38	Ionic Conductivity in Ionic Liquid Nano Thin Films. <i>ACS Nano</i> , 2018, 12, 10509-10517.	7.3	31
39	Side-chain engineering in a thermal precursor approach for efficient photocurrent generation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14003-14011.	5.2	29
40	Synthesis and Deformable Hierarchical Nanostructure of Intrinsically Stretchable ABA Triblock Copolymer Composed of Poly(3-hexylthiophene) and Polyisobutylene Segments. <i>ACS Applied Polymer Materials</i> , 2019, 1, 315-320.	2.0	29
41	Bending strain analysis considering a shift of the neutral axis for YBCO coated conductors with and without a Cu stabilizing layer. <i>Superconductor Science and Technology</i> , 2011, 24, 075019.	1.8	28
42	Addition of Co to L1<sub>0</sub>-ordered FeNi films: influences on magnetic properties and ordered structures. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 425001.	1.3	27
43	Small band gap polymers incorporating a strong acceptor, thieno[3,2-b]thiophene-2,5-dione, with p-channel and ambipolar charge transport characteristics. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2307-2312.	2.7	27
44	Enhanced vertical carrier mobility in poly(3-alkylthiophene) thin films sandwiched between self-assembled monolayers and surface-segregated layers. <i>Chemical Communications</i> , 2014, 50, 3627-3630.	2.2	27
45	Conjugated Polyelectrolyte Blend with Polyethyleneimine Ethoxylated for Thickness-Insensitive Electron Injection Layers in Organic Light-Emitting Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 17318-17326.	4.0	27
46	Square-centimeter-sized High-efficiency Polymer Solar Cells: How the Processing Atmosphere and Film Quality Influence Performance at Large Scale. <i>Advanced Energy Materials</i> , 2016, 6, 1600290.	10.2	26
47	Uniaxial orientation of P3HT film prepared by soft friction transfer method. <i>Scientific Reports</i> , 2017, 7, 5141.	1.6	26
48	<i>In Situ</i> Real-Time X-Ray Diffraction During Thin Film Growth of Pentacene. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 566, 18-21.	0.4	25
49	The influence of branched alkyl side chains in A&D oligothiophenes on the photovoltaic performance and morphology of solution-processed bulk-heterojunction solar cells. <i>Organic Chemistry Frontiers</i> , 2017, 4, 1561-1573.	2.3	24
50	Enhancement of Out-of-Plane Mobilities of Three Poly(3-alkylthiophene)s and Associated Mechanism. <i>Journal of Physical Chemistry C</i> , 2016, 120, 23351-23357.	1.5	23
51	Elucidating the impact of molecular weight on morphology, charge transport, photophysics and performance of all-polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21070-21083.	5.2	23
52	Layer-by-Layer Growth Control of Metal-Organic Framework Thin Films Assembled on Polymer Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 50784-50792.	4.0	22
53	Molecular engineering of benzothienoisindigo copolymers allowing highly preferential face-on orientations. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21578-21585.	5.2	21
54	Crystallization and Polymorphism of Organic Semiconductor in Thin Film Induced by Surface Segregated Monolayers. <i>Scientific Reports</i> , 2018, 8, 481.	1.6	21

#	ARTICLE	IF	CITATIONS
55	Structural and magnetic properties of FeNi thin films fabricated on amorphous substrates. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	20
56	Performance of Si/PEDOT:PSS Solar Cell Controlled by Dipole Moment of Additives. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20130-20135.	1.5	20
57	Time evolution studies of dithieno[3,2-b:2â€™,3â€™-d]pyrrole-based Aâ€™-Dâ€™-A oligothiophene bulk heterojunctions during solvent vapor annealing towards optimization of photocurrent generation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1005-1013.	5.2	19
58	Understanding Comparable Charge Transport Between Edge-on and Face-on Polymers in a Thiazolothiazole Polymer System. <i>ACS Applied Polymer Materials</i> , 2019, 1, 1257-1262.	2.0	18
59	A hydrogen storage layer on the surface of silicon nitride films. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	17
60	Relation Between the Crystal Axis and the Strain Dependence of Critical Current Under Tensile Strain for GdBCO Coated Conductors. <i>IEEE Transactions on Applied Superconductivity</i> , 2013, 23, 8400304-8400304.	1.1	17
61	Microstructures of BPDA-PPD polyimide thin films with different thicknesses. <i>Polymer</i> , 2013, 54, 2435-2439.	1.8	17
62	Formation of epitaxial Ti-Si-C Ohmic contact on 4H-SiC C face using pulsed-laser annealing. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	17
63	Epitaxial Growth of C<sub>60</sub> on Rubrene Single Crystals for a Highly Ordered Organic Donor/Acceptor Interface. <i>Crystal Growth and Design</i> , 2017, 17, 4622-4627.	1.4	17
64	Widely Dispersed Intermolecular Valence Bands of Epitaxially Grown Perfluoropentacene on Pentacene Single Crystals. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1312-1318.	2.1	17
65	Effects of a Fluorinated Donor Polymer on the Morphology, Photophysics, and Performance of All-Polymer Solar Cells Based on Naphthalene Diimideâ€™-Arylene Copolymer Acceptors. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 16490-16502.	4.0	17
66	A comparative study of honeycomb-like 2D ï€-conjugated metalâ€™-organic framework chemiresistors: conductivity and channels. <i>Dalton Transactions</i> , 2021, 50, 13236-13245.	1.6	17
67	Extended ï€-Electron Delocalization in Quinoid-Based Conjugated Polymers Boosts Intrachain Charge Carrier Transport. <i>Chemistry of Materials</i> , 2021, 33, 8183-8193.	3.2	17
68	New finding of coherent hybrid structure of BaTiO3 single crystal in the room temperature phase. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 353, 250-254.	0.9	16
69	Hard x-ray photoelectron spectroscopy equipment developed at beamline BL46XU of SPring-8 for industrial researches. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	16
70	Organic Solar Cells with Controlled Nanostructures Based on Microphase Separation of Fullerene-Attached Thiophene-Selenophene Heteroblock Copolymers. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 4758-4768.	4.0	16
71	Engineering Thin Films of a Tetrabenzoporphyrin toward Efficient Charge-Carrier Transport: Selective Formation of a Brickwork Motif. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 8211-8218.	4.0	16
72	Correlation between Distribution of Polymer Orientation and Cell Structure in Organic Photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 32420-32425.	4.0	16

#	ARTICLE	IF	CITATIONS
73	Fabrication of $\text{L1-FeNi}$ by pulsed-laser deposition. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	16
74	In situ structural characterization of picene thin films by X-ray scattering: Vacuum versus $\text{O}_2$ atmosphere. <i>Chemical Physics Letters</i> , 2012, 544, 34-38.	1.2	15
75	Temperature Dependent Epitaxial Growth of $\text{C}_{60}$ Overlayers on Single Crystal Pentacene. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800084.	1.9	15
76	Fabrication of $\text{L10-FeNi}$ phase by sputtering with rapid thermal annealing. <i>Journal of Alloys and Compounds</i> , 2018, 750, 164-170.	2.8	15
77	Semiconducting silicon-tin alloy nanocrystals with direct bandgap behavior for photovoltaic devices. <i>Materials Today Energy</i> , 2018, 7, 87-97.	2.5	15
78	Naphthobispyrazine Bisimide: A Strong Acceptor Unit for Conjugated Polymers Enabling Highly Coplanar Backbone, Short $\pi$ - $\pi$ Stacking, and High Electron Transport. <i>Chemistry of Materials</i> , 2022, 34, 2717-2729.	3.2	15
79	Design optimization of highly accurate elliptical mirrors for hard-x-ray microfocusing probes at SPring-8. , 2009, , .		14
80	Interface-induced crystallization and nanostructure formation of [6,6]-phenyl- $\text{C}_{61}$ -butyric acid methyl ester (PCBM) in polymer blend films and its application in photovoltaics. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3335-3341.	5.2	14
81	Crystallinity of the epitaxial heterojunction of $\text{C}_{60}$ on single crystal pentacene. <i>Journal of Crystal Growth</i> , 2017, 468, 770-773.	0.7	14
82	In situ residual stress analysis in a phenolic resin and copper composite material during curing. <i>Polymer</i> , 2019, 182, 121857.	1.8	14
83	Reinterpretation of the unit cell evolution of $\text{BaTiO}_3$ . <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 367, 394-401.	0.9	13
84	Development of a CdTe pixel detector with a window comparator ASIC for high energy X-ray applications. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 650, 88-91.	0.7	13
85	Hole mobility enhancement of MEH-PPV film by heat treatment at $T$ . <i>AIP Advances</i> , 2015, 5, .	0.6	13
86	Formation of (100)-oriented large polycrystalline silicon thin films with multiline beam continuous-wave laser lateral crystallization. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 031302.	0.8	13
87	Epitaxial $\text{L1-FeNi}$ films with high degree of order and large uniaxial magnetic anisotropy fabricated by denitriding $\text{FeNiN}$ films. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	13
88	Hard X-ray Photoemission Spectroscopy at Beamline BL46XU of SPring-8. <i>Journal of Surface Analysis (Online)</i> , 2015, 21, 121-129.	0.1	13
89	Magnetic Anisotropy and Chemical Order of Artificially Synthesized $\text{L1}_{0<sub>0</sub>}$ -Ordered $\text{FeNi}$ Films on $\text{Au/Cu/Ni}$ Buffer Layers. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 010204.	0.8	13
90	The effect of pinning centers in Zn-doped $\text{CuBa}_2\text{Ca}_3\text{Cu}_4\text{O}_{12}$ high-temperature superconductors. <i>Journal of Physics and Chemistry of Solids</i> , 2002, 63, 1073-1076.	1.9	12

#	ARTICLE	IF	CITATIONS
91	Microscopic structure and electrical transport property of sputter-deposited amorphous indium-gallium-zinc oxide semiconductor films. <i>Journal of Physics: Conference Series</i> , 2014, 518, 012001.	0.3	12
92	Synthesis of 1,3,4-thiadiazole-based donor-acceptor alternating copolymers for polymer solar cells with high open-circuit voltage. <i>Polymer Journal</i> , 2015, 47, 513-521.	1.3	12
93	Photoprecursor Approach Enables Preparation of Well-Performing Bulk-Heterojunction Layers Comprising a Highly Aggregating Molecular Semiconductor. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 8644-8651.	4.0	11
94	Magnetic Anisotropy and Damping for Monolayer-Controlled Co   Ni Epitaxial Multilayer. <i>Journal of the Physical Society of Japan</i> , 2017, 86, 074710.	0.7	11
95	Stable ultrathin surfactant-free surface-engineered silicon nanocrystal solar cells deposited at room temperature. <i>Energy Science and Engineering</i> , 2017, 5, 184-193.	1.9	11
96	Molecular orientation control of semiconducting molecules using a metal layer formed by wet processing. <i>Organic Electronics</i> , 2018, 63, 47-51.	1.4	11
97	Selective growth of $\text{Fe}_2\text{O}_3$ , $\text{Fe}_2\text{O}_3$ and $\text{Fe}_3\text{O}_4$ at low temperatures and under ambient pressure. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 095504.	0.8	11
98	Epitaxial growth of $\text{CH}_3\text{NH}_3\text{PbI}_3$ on rubrene single crystal. <i>APL Materials</i> , 2020, 8, .	2.2	11
99	Evaluation and Control of Strain in Si Induced by Patterned SiN Stressor. <i>Electrochemical and Solid-State Letters</i> , 2009, 12, H117.	2.2	10
100	Regioisomer effects of [70]PCBM on film structures and photovoltaic properties of composite films with a crystalline conjugated polymer P3HT. <i>RSC Advances</i> , 2017, 7, 45697-45704.	1.7	10
101	Orbital-Energy Modulation of Tetrabenzoporphyrin-Derived Non-Fullerene Acceptors for Improved Open-Circuit Voltage in Organic Solar Cells. <i>Journal of Organic Chemistry</i> , 2020, 85, 168-178.	1.7	10
102	Efficient Exciton Diffusion in Micrometer-Sized Domains of Nanographene-Based Nonfullerene Acceptors with Long Exciton Lifetimes in Blend Films with Conjugated Polymer. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 39236-39244.	4.0	10
103	Improvement of CVD $\text{SiO}_2$ by Post Deposition Microwave Plasma Treatment. <i>ECS Transactions</i> , 2009, 19, 45-51.	0.3	9
104	Synthesis of regiorandom copolythiophene by Negishi catalyst-transfer polycondensation using $\text{Bu}_2\text{Zn} \cdot 2\text{LiCl}$ . <i>Polymer Chemistry</i> , 2017, 8, 6143-6149.	1.9	9
105	Electronic and Crystallographic Examinations of the Homoepitaxially Grown Rubrene Single Crystals. <i>Materials</i> , 2020, 13, 1978.	1.3	9
106	High-Throughput and Autonomous Grazing Incidence X-ray Diffraction Mapping of Organic Combinatorial Thin-Film Library Driven by Machine Learning. <i>ACS Combinatorial Science</i> , 2020, 22, 348-355.	3.8	9
107	Comparative Study of Selenophene- and Thiophene-Containing n-Type Semiconducting Polymers for High Performance All-Polymer Solar Cells. <i>ACS Applied Polymer Materials</i> , 2021, 3, 49-59.	2.0	9
108	Synthesis and FET characterization of novel ambipolar and low-bandgap naphthalene-diimide-based semiconducting polymers. <i>Journal of Polymer Science Part A</i> , 2016, 54, 359-367.	2.5	8

#	ARTICLE	IF	CITATIONS
109	A Series of Lithium Pyridyl Phenolate Complexes with a Pendant Pyridyl Group for Electron-Injection Layers in Organic Light-Emitting Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 40541-40548.	4.0	8
110	Molecular Aggregation States of Imogolite/P3HT Nanofiber Hybrid. <i>Journal of Physics: Conference Series</i> , 2011, 272, 012021.	0.3	7
111	Strain Dependence of Superconducting Properties for GdBCO Coated Conductor in High Field Under Tensile Load. <i>IEEE Transactions on Applied Superconductivity</i> , 2012, 22, 6600504-6600504.	1.1	7
112	A HAXPES measurement system up to 15 keV developed at BL46XU of SPring-8. <i>Journal of Physics: Conference Series</i> , 2014, 502, 012006.	0.3	7
113	Relationship between photostability and nanostructures in DTS(FBTTh <sub>2</sub> ):fullerene bulk-heterojunction films. <i>Solar Energy Materials and Solar Cells</i> , 2016, 151, 96-101.	3.0	7
114	Evolution of crystallinity at a well-defined molecular interface of epitaxial C <sub>60</sub> on the single crystal rubrene. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 154001.	0.7	7
115	High-temperature reliability of Ni/Nb ohmic contacts on 4H-SiC for harsh environment applications. <i>Thin Solid Films</i> , 2019, 669, 306-314.	0.8	7
116	Direct Correlation of Nanoscale Morphology and Device Performance to Study Photocurrent Generation in Donor-Enriched Phases of Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 28404-28415.	4.0	7
117	Interface Structures and Electronic States of Epitaxial Tetraazaphthalene on Single-Crystal Pentacene. <i>Materials</i> , 2021, 14, 1088.	1.3	7
118	Effects of Annealing on Rubbed Polyimide Surface Studied by Grazing-Incidence X-Ray Diffraction. <i>IEICE Transactions on Electronics</i> , 2009, E92-C, 1376-1381.	0.3	7
119	Quasi-Homoepitaxial Junction of Organic Semiconductors: A Structurally Seamless but Electronically Abrupt Interface between Rubrene and Bis(trifluoromethyl)dimethylrubrene. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11430-11437.	2.1	7
120	Exploring Charge Transport in High-Temperature Polymorphism of ITIC Derivatives in Simple Processed Unipolar Bottom Contact Organic Field-Effect Transistor. <i>Advanced Electronic Materials</i> , 2022, 8, .	2.6	7
121	Fabrication of Fully-Epitaxial Co <sub>2</sub> MnSi/Ag/Co <sub>2</sub> MnSi Giant Magnetoresistive Devices by Elevated Temperature Deposition. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 5464-5468.	1.2	6
122	Effect of Oxygen-Containing Functional Side Chains on the Electronic Properties and Photovoltaic Performances in a Thiophene-Thiazolothiazole Copolymer System. <i>Heteroatom Chemistry</i> , 2014, 25, 556-564.	0.4	6
123	Crystal structure of oligothiophene thin films characterized by two-dimensional grazing incidence X-ray diffraction. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 01AD01.	0.8	6
124	Synthesis, characterization, and application to polymer solar cells of polythiophene derivatives with ester- or ketone-substituted phenyl side groups. <i>Journal of Polymer Science Part A</i> , 2015, 53, 875-887.	2.5	6
125	Effects of applying bias voltage on metal-coated pentacene films on SiO <sub>2</sub> studied by hard X-ray photoelectron spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 03DD09.	0.8	6
126	π-Conjugation Effects of Oligo(thienylenevinylene) Side Chains in Semiconducting Polymers on Photovoltaic Performance. <i>Macromolecules</i> , 2017, 50, 3557-3564.	2.2	6

#	ARTICLE	IF	CITATIONS
127	Growth-temperature-dependent coalescence determines structural phase of mist-chemical-vapor-deposition-grown SnO <sub>2</sub> thin films. <i>Journal of Applied Physics</i> , 2018, 124, 125303.	1.1	6
128	Fabrication of ionic liquid polycrystalline nano thin films and their ion conducting properties accompanied by solid-liquid phase transition. <i>Thin Solid Films</i> , 2019, 677, 77-82.	0.8	6
129	Fabrication of L10-type FeCo ordered structure using a periodic Ni buffer layer. <i>AIP Advances</i> , 2019, 9, 045307.	0.6	6
130	Structural Determination of the Epitaxial C <sub>60</sub> Overlayer on the Pentacene Single Crystal by Grazing Incidence X-ray Diffraction. <i>Hyomen Kagaku</i> , 2016, 37, 429-434.	0.0	6
131	Internal strain measurement for Nb <sub>3</sub> Sn wires using synchrotron radiation. <i>Superconductor Science and Technology</i> , 2012, 25, 054004.	1.8	5
132	Control of residual strain and twin boundary by annealing under strain. <i>Superconductor Science and Technology</i> , 2013, 26, 065013.	1.8	5
133	5, 10-linked naphthodithiophenes as the building block for semiconducting polymers. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 024201.	2.8	5
134	Effects of solvent vapor annealing on organic photovoltaics with a new type of solution-processable oligothiophene-based electronic donor material. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 08RE09.	0.8	5
135	Structure control of a zinc tetraphenylporphyrin thin film by vapor annealing using fluorine containing solvent. <i>Thin Solid Films</i> , 2018, 665, 85-90.	0.8	5
136	Influence of Ni and Nb thickness on low specific contact resistance and high-temperature reliability of ohmic contacts to 4H-SiC. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 116501.	0.8	5
137	Substrate-driven switchable molecular orientation in bulk heterojunction films identified using infrared reflection absorption spectroscopy. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 559-564.	1.7	5
138	Structural investigation of ferroelectric BiFeO <sub>3</sub> –BaTiO <sub>3</sub> solid solutions near the rhombohedral–pseudocubic phase boundary. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	5
139	Prolongation of the singlet exciton lifetime of nonfullerene acceptor films by the replacement of the central benzene core with naphthalene. <i>Sustainable Energy and Fuels</i> , 2021, 5, 2028-2035.	2.5	5
140	Effect of Rubbing on Polymers for Liquid Crystal Alignment Film Studied by Grazing-Incidence X-ray Diffraction and Reflection Ellipsometry. <i>IEICE Transactions on Electronics</i> , 2007, E90-C, 2070-2075.	0.3	5
141	Effect of Terminal-Group Halogenation of Naphthalene-Based Nonfullerene Acceptors on Their Film Structure and Photophysical and Photovoltaic Properties. <i>ACS Applied Energy Materials</i> , 2021, 4, 14022-14033.	2.5	5
142	ANISOTROPY OF MULTILAYERED (<font>CU</font>,<font>C</font>)<font>BA</font><sub>2</sub><font>CA</font><sub>3</sub><font>CU</font><sub>4</sub><font>SUPERCONDUCTORS STUDIED BY TORQUE MAGNETOMETRY. <i>International Journal of Modern Physics B</i> , 2007, 21, 3285-3289.	1.0	4
143	Study of Charge Trap Sites in SiN Films by Hard X-ray Photoelectron Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 04DD11.	0.8	4
144	Separated crystallization of donor and acceptor in oligo(p-phenylenevinylene)-naphthalenediimide dyad films. <i>Synthetic Metals</i> , 2014, 197, 175-181.	2.1	4

#	ARTICLE	IF	CITATIONS
145	A new instrumentation for <i>in situ</i> characterization of the charge transport and crystallographic properties in co-evaporated organic thin film transistor. <i>Molecular Crystals and Liquid Crystals</i> , 2016, 636, 168-175.	0.4	4
146	Amide-bridged terphenyl and dithienylbenzene units for semiconducting polymers. <i>RSC Advances</i> , 2016, 6, 16437-16447.	1.7	4
147	Organic Photovoltaic Devices Based on Oriented <i>n</i> -Type Molecular Films Deposited on Oriented Polythiophene Films. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 2702-2710.	0.9	4
148	Morphological Study of Blend Thin Films of Poly(3-hexylthiophene)- <i>block</i> -polyisobutylene- <i>block</i> -poly(3-hexylthiophene):Poly(3-hexylthiophene) and Their Application to Photovoltaics. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2019, 32, 741-746.	0.1	4
149	Substrate-Independent Control of Polymorphs in Tetraphenylporphyrin Thin Films by Varying the Solvent Evaporation Time Using a Simple Spin-Coating Technique. <i>Crystal Growth and Design</i> , 2021, 21, 5116-5125.	1.4	4
150	Heteroepitaxy of Perfluoropentacene (C <sub>22</sub> F <sub>14</sub> ) on the Single Crystal Surface of Pentacene (C <sub>22</sub> H <sub>14</sub> ). <i>Hyomen Kagaku</i> , 2017, 38, 324-329.	0.0	4
151	In situ high-temperature X-ray diffraction measurements of Pb(Zr <sub>0.58</sub> Ti <sub>0.42</sub> )O <sub>3</sub> epitaxial thin films grown on Si substrates. <i>Japanese Journal of Applied Physics</i> , 2022, 61, SN1012.	0.8	4
152	Exploration of Alkyl Group Effects on the Molecular Packing of 5,15-Disubstituted Tetrabenzoporphyrins toward Efficient Charge-Carrier Transport. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 32319-32329.	4.0	4
153	Improvement in Stability of Spring-8 Standard X-Ray Monochromators with Water-Cooled Crystals. <i>AIP Conference Proceedings</i> , 2010, , .	0.3	3
154	Evaluation of Properties of SiO <sub>2</sub> Films Fabricated by Plasma Oxidation. <i>ECS Transactions</i> , 2011, 41, 169-175.	0.3	3
155	Oriented Thin Films of the Low-Band-Gap Polymer PTB7 by Friction Transfer Method. <i>Molecular Crystals and Liquid Crystals</i> , 2015, 621, 118-123.	0.4	3
156	Influence of 4-fluorophenyl pendants in thieno[3,4- <i>b</i> ]thiophene- <i>b</i> -benzo[1,2- <i>b</i> :4,5- <i>b'</i> :2']dithiophene-based polymers on the performance of photovoltaics. <i>Journal of Polymer Science Part A</i> , 2015, 53, 1586-1593.	2.5	3
157	Thermal stabilization of organic photovoltaic cells using [6,6]-phenyl C61-butyric acid methyl ester analogs: Effects of alkyl substituents on the nanostructures of bulk heterojunction films and their stabilities. <i>Synthetic Metals</i> , 2016, 221, 61-66.	2.1	3
158	Surface crystallographic structures of cellulose nanofiber films and overlayers of pentacene. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 03EE02.	0.8	3
159	Insights into Microscopic Crystal Growth Dynamics of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> under a Laser Deposition Process Revealed by <i>In Situ</i> X-ray Diffraction. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 22559-22566.	4.0	3
160	Thickness of Crystalline Layer of Rubbed Polyimide Film Characterized by Grazing Incidence X-ray Diffractions with Multi Incident Angles. <i>IEICE Transactions on Electronics</i> , 2014, E97.C, 1089-1092.	0.3	3
161	Crystallographic coherent lengths of J-aggregates and their absorption spectra. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 321, 275-280.	2.3	2
162	Two Dimensional Grazing Incidence X-Ray Diffraction of TIPS-Pentacene Thin Films. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 568, 134-138.	0.4	2

#	ARTICLE	IF	CITATIONS
163	Face-On Oriented $\pi$ -Conjugated Polymers Containing 1,3,4-Thiadiazole Moiety Investigated with Synchrotron GIXS Measurements: Relationship between Morphology and PSC Performance. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2014, 27, 351-356.	0.1	2
164	Effect of chemical ordering on 90° interlayer coupling in epitaxial Co/Fe/Cr/Co/Fe thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 369, 211-218.	1.0	2
165	Oriented thin films of mixture of a low-bandgap polymer and a fullerene derivative prepared by friction-transfer method. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 02CA06.	0.8	2
166	In situ characterization of the film coverage and the charge transport in the alkylated-organic thin film transistor. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 03EG14.	0.8	2
167	Improvement in interlayer structure of n-type organic solar cells with the use of fullerene-linked tetrabenzoporphyrin as additive. <i>RSC Advances</i> , 2018, 8, 35237-35245.	1.7	2
168	CF <sub>4</sub> :O <sub>2</sub> surface etching for the improvement of contact resistance and high-temperature reliability in Ni/Nb ohmic contacts on n-type 4H-SiC. <i>Japanese Journal of Applied Physics</i> , 2020, 59, 056501.	0.8	2
169	Monitoring of Crystallization Process in Solution-Processed Pentacene Thin Films by Chemical Conversion Reactions. <i>Journal of Physical Chemistry C</i> , 2021, 125, 2437-2445.	1.5	2
170	Characterization of selectively oriented polycrystalline silicon thin films formed by multiline beam continuous-wave laser lateral crystallization with overlapping. <i>Japanese Journal of Applied Physics</i> , 2020, 59, 115504.	0.8	2
171	Synthesis of a novel A-b(B-co-C)-type terpolymer with a regioregular poly(3-hexylthiophene) segment and its application to intrinsically stretchable transistor memory. <i>Materials Chemistry and Physics</i> , 2022, 281, 125911.	2.0	2
172	Phase determination by wavelength-modulated diffraction. I. Centrosymmetric case. <i>Journal of Synchrotron Radiation</i> , 2001, 8, 1035-1039.	1.0	1
173	Effects of Rubbing Condition and Soaking Time on Surface Crystallization of Rubbed Polyimide Film by Soaking into Acetone. <i>IEICE Transactions on Electronics</i> , 2008, E91-C, 1593-1598.	0.3	1
174	Characterization of Liquid Crystal Alignment on Rubbed Polyimide Film by Grazing-Incidence X-Ray Diffraction. <i>IEICE Transactions on Electronics</i> , 2009, E92-C, 1371-1375.	0.3	1
175	Suppression Mechanism of Volume Shrinkage for SOG Film by Plasma Treatment. <i>ECS Transactions</i> , 2010, 28, 347-354.	0.3	1
176	In situ Structural Study of Organic Semiconductor Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1402, 54.	0.1	1
177	In-situ Observation of 2-Dimensional X-ray Diffraction of Organic Thin-film Growth by Synchrotron Radiation. <i>Hyomen Kagaku</i> , 2014, 35, 190-195.	0.0	1
178	The effect of air exposure on the crystal structure of oligo-thiophene thin films investigated using in situ X-ray diffraction. <i>Journal of Crystal Growth</i> , 2017, 468, 816-820.	0.7	1
179	Surface morphology of vacuum-evaporated pentacene film on Si substrate studied by in situ grazing-incidence small-angle X-ray scattering: I. The initial stage of formation of pentacene film. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 03EG12.	0.8	1
180	Thickness dependencies of SiO <sub>2</sub> /BaO <sub>x</sub> layers on interfacial properties of a layered gate dielectric on 4H-SiC. <i>Materials Science in Semiconductor Processing</i> , 2021, 121, 105343.	1.9	1

#	ARTICLE	IF	CITATIONS
181	Analytical System for Simultaneous Operando Measurements of Electrochemical Reaction Rate and Hard X-ray Photoemission Spectroscopy. Journal of the Electrochemical Society, 2021, 168, 054506.	1.3	1
182	Molecular arrangement in diphenylanthracene derivative films deposited under vacuum on in-plane oriented polythiophene films. Japanese Journal of Applied Physics, 2021, 60, 085504.	0.8	1
183	Epitaxial pillar matrix nanocomposite thin films of TiO <sub>2</sub> and CoFe <sub>2</sub> O <sub>4</sub> grown on SrTiO <sub>3</sub> (110). Journal of Applied Physics, 2021, 130, 084101.	1.1	1
184	Characterization of Vertical Alignment Film by X-Ray Reflectivity. IEICE Transactions on Electronics, 2011, E94-C, 1755-1759.	0.3	1
185	In Situ Residual Stress Analysis in a Glass-Fiber-Reinforced Phenolic Resin and Copper Composite Material During Curing. Journal of the Adhesion Society of Japan, 2019, 55, 421-426.	0.0	1
186	Improved ultraviolet stability of fullerene-based organic solar cells through light-induced enlargement and crystallization of fullerene domains. Thin Solid Films, 2022, 757, 139394.	0.8	1
187	Wavelength-Modulated Diffraction System. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 1053-1056.	0.7	0
188	A Diffraction System with an X-ray Beam of a Band of Wavelengths. AIP Conference Proceedings, 2004, , .	0.3	0
189	A wide-bandpass multilayer monochromator and its application to the determination of absolute structure. Journal of Applied Crystallography, 2004, 37, 136-142.	1.9	0
190	Evaluation and Control of Strain in Si Induced by Patterned SiN Stressor. ECS Transactions, 2008, 13, 263-269.	0.3	0
191	Dependence of Kind of Solvents for Washing on Surface of Rubbed Polyimide Film. IEICE Transactions on Electronics, 2008, E91-C, 1587-1592.	0.3	0
192	Impact of Film Structure on Ionization Energy of Titanyl-Phthalocyanine in Thin Films. Materials Research Society Symposia Proceedings, 2013, 1605, 1.	0.1	0
193	Optimization of Ni/Nb Ratio for High-Temperature-Reliable Ni/Nb Silicide Ohmic Contact on 4H-SiC. Materials Science Forum, 0, 963, 498-501.	0.3	0
194	Molecular Orientation: Control of Molecular Orientation in Organic Semiconductor Films using Weak Hydrogen Bonds (Adv. Mater. 18/2019). Advanced Materials, 2019, 31, 1970131.	11.1	0
195	Development of a high-precision slit for x-ray beamline at SPring-8. Proceedings of SPIE, 2009, , .	0.8	0
196	Orientation of Crystalline and Non-crystalline PMDA-ODA Polymers at Rubbed Film Surface. IEICE Transactions on Electronics, 2012, E95.C, 1749-1751.	0.3	0