

Toshihiro Shimada

List of Publications by Year in Descending Order

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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.

199
papers

4,172
citations

33
h-index

59
g-index

210
ext. papers

4,489
ext. citations

2.9
avg, IF

4.97
L-index

#	Paper	IF	Citations
199	Synthesis of Boron Nitride Nanotubes Using Plasma-Assisted CVD Catalyzed by Cu Nanoparticles and Oxygen. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
198	Large Inverse Tunnel Magnetoresistance in Magnetic Tunnel Junctions with an Fe ₃ O ₄ Electrode. <i>Physical Review Applied</i> , 2021 , 15,	4.3	5
197	Ultrahigh-Pressure Preparation and Catalytic Activity of MOF-Derived Cu Nanoparticles. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
196	DFT calculation of square MoS ₂ nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021 , 130, 114693	3	2
195	Single Crystal Growth of Conjugated Large Molecules without Solubilizing Alkyl Chains via the Naphthalene Flux Method. <i>Crystal Growth and Design</i> , 2021 , 21, 4683-4689	3.5	0
194	Intersection of Organic Molecules and Carbon Materials for Sustainable Society. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2021 , 141, 761-766	0.1	
193	Interaction between alkali metals and diamond: Etching and charge states of NV centers. <i>Carbon</i> , 2021 , 182, 585-592	10.4	1
192	Fabrication of ultra-thin g-C ₃ N ₄ nanoplates for efficient visible-light photocatalytic H ₂ O ₂ production via two-electron oxygen reduction. <i>Chemical Engineering Journal</i> , 2021 , 425, 130615	14.7	21
191	NiCo ₂ O ₄ films fabricated by reactive molecular beam epitaxy and annealing in various oxygen atmospheres. <i>Applied Physics Letters</i> , 2020 , 116, 232404	3.4	5
190	Controlling the magnetic proximity effect and anomalous Hall effect in CoFe ₂ O ₄ /Pt by ionic gating. <i>Applied Physics Express</i> , 2020 , 13, 063004	2.4	1
189	Post-annealed graphite carbon nitride nanoplates obtained by sugar-assisted exfoliation with improved visible-light photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2020 , 567, 369-378	9.3	9
188	Sugar-assisted mechanochemical exfoliation of graphitic carbon nitride for enhanced visible-light photocatalytic performance. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 8444-8455	6.7	5
187	Healing Sulfur Vacancies in Monolayer MoS ₂ by High-Pressure Sulfur and Selenium Annealing: Implication for High-Performance Transistors. <i>ACS Applied Nano Materials</i> , 2020 , 3, 10462-10469	5.6	8
186	Mechanical properties of high-crystalline diamond films grown via laser MPCVD. <i>Diamond and Related Materials</i> , 2020 , 109, 108094	3.5	2
185	Porous graphitic carbon nitride nanoplates obtained by a combined exfoliation strategy for enhanced visible light photocatalytic activity. <i>Applied Surface Science</i> , 2020 , 499, 143901	6.7	15
184	Characterization of magnetic properties of ultrathin CoFe ₂ O ₄ films by utilizing magnetic proximity effect. <i>Solid State Communications</i> , 2020 , 306, 113762	1.6	2
183	Growth Kinetics and Magnetic Property of Single-Crystal Fe Nanowires Grown via Vapor-Solid Mechanism Using Chemically Synthesized FeO Nanoparticle Catalysts. <i>Crystal Growth and Design</i> , 2019 , 19, 7257-7263	3.5	1

182	Synthesis of Carbon Nanotubes by Plasma-Enhanced Chemical Vapor Deposition Using Fe _{1-x} Mn _x O Nanoparticles as Catalysts: How Does the Catalytic Activity of Graphitization Affect the Yields and Morphology?. <i>Journal of Carbon Research</i> , 2019 , 5, 46	3.3	5
181	Synthesis of carbon-doped boron nitride nanosheets and enhancement of their room-temperature ferromagnetic properties. <i>Journal of Alloys and Compounds</i> , 2019 , 792, 1206-1212	5.7	8
180	Single crystal growth, structural analysis and electronic band structure of a nitrogen-containing polyacene Benzo[<i>i</i>]benzo[6,7]quinoxalino[2,3:9,10]phenanthro[4,5- <i>abc</i>]phenazine. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, SBBG08	1.4	1
179	Search for new nitrogen-doped carbon materials by compressing molecular crystals. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, SBBG13	1.4	2
178	Tunnel magnetoresistance effect in a magnetic tunnel junction with a B ₂ -Fe ₃ Sn electrode. <i>AIP Advances</i> , 2019 , 9, 085322	1.5	7
177	Synthesis of Mo _{1-x} Nb _x S ₂ thin films by separate-flow chemical vapor deposition with chloride sources. <i>Thin Solid Films</i> , 2018 , 649, 171-176	2.2	3
176	Semitransparent conductive carbon films synthesized by sintering spin-coated sp ³ -based network polymer. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 030302	1.4	
175	Catalytic chemical vapor deposition and structural analysis of MoS ₂ nanotubes. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 030304	1.4	5
174	Rich interfacial chemistry and properties of carbon-doped hexagonal boron nitride nanosheets revealed by electronic structure calculations. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 04FL11	1.4	3
173	Morphology and mechanical behavior of diamond films fabricated by IH-MPCVD.. <i>RSC Advances</i> , 2018 , 8, 16061-16068	3.7	8
172	Synthesis of metastable B ₂ -type Fe _n alloy epitaxial films and study of their magnetic properties. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 120302	1.4	9
171	A thermocouple-based remote temperature controller of an electrically-floated sample for plasma CVD of nanocarbons with bias voltage. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017 , 102, 244-248	4.6	2
170	Inverse Tunnel Magnetocapacitance in Fe/Al-oxide/FeO. <i>Scientific Reports</i> , 2017 , 7, 2682	4.9	11
169	Switching of the products by changing the size and shape of catalytic nanoparticles during CVD growth of MoS ₂ nanotubes. <i>CrystEngComm</i> , 2017 , 19, 3915-3920	3.3	11
168	Pinpoint-fluorinated polycyclic aromatic hydrocarbons (F-PAHs): Syntheses of difluorinated subfamily and their properties. <i>Journal of Fluorine Chemistry</i> , 2017 , 203, 173-184	2.1	20
167	Prediction of Ternary Liquidus Temperatures by Statistical Modeling of Binary and Ternary Ag-Al-Sn-Zn Systems. <i>ACS Omega</i> , 2017 , 2, 5271-5282	3.9	
166	Fabrication of Epitaxial FeO Film on a Si(111) Substrate. <i>Scientific Reports</i> , 2017 , 7, 7009	4.9	4
165	N ₂ plasma etching processes of microscopic single crystals of cubic boron nitride. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 06HF01	1.4	

164	Adhesives for Vacuum Sealing and Sample Fixation in Surface Science Experiments. <i>Hyomen Kagaku</i> , 2017 , 38, 89-90		
163	The magnetic properties of Fe ₃ O ₄ /nonmagnetic metal/Fe hybrid systems. <i>Applied Physics Letters</i> , 2017 , 110, 212402	3.4	2
162	Chemical Vapor Deposition of NbS ₂ from a Chloride Source with H ₂ Flow: Orientation Control of Ultrathin Crystals Directly Grown on SiO ₂ /Si Substrate and Charge Density Wave Transition. <i>Crystal Growth and Design</i> , 2016 , 16, 4467-4472	3.5	25
161	Carbon-Doped Hexagonal Boron Nitride: Analysis as π -Conjugate Molecules Embedded in Two Dimensional Insulator. <i>Journal of Carbon Research</i> , 2016 , 2, 2	3.3	6
160	Accurate and stable equal-pressure measurements of water vapor transmission rate reaching the 10 g m day range. <i>Scientific Reports</i> , 2016 , 6, 35408	4.9	8
159	Chemical Vapor Deposition of MoS ₂ : Insight Into the Growth Mechanism by Separated Gas Flow Experiments. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 3223-7	1.3	6
158	Formation of bismuth-core-carbon-shell nanoparticles by bismuth immersion during plasma CVD synthesis of thin diamond films. <i>Diamond and Related Materials</i> , 2016 , 69, 127-132	3.5	4
157	Gate-controlled generation of optical pulse trains using individual carbon nanotubes. <i>Nature Communications</i> , 2015 , 6, 6335	17.4	16
156	Fabrication of Fe nanowires on yttrium-stabilized zirconia single crystal substrates by thermal CVD methods. <i>Journal of Applied Physics</i> , 2015 , 117, 17D506	2.5	13
155	Investigation of epitaxial growth and tunnel magnetoresistance effects in magnetic tunnel junctions including spinel ferrite layers. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 118003	1.4	27
154	Colorful Carbon Nanopopcorns Formed by Codepositing C ₆₀ with Diamond-like Carbon Followed by Reaction with Water Vapor. <i>Chemistry Letters</i> , 2015 , 44, 1205-1207	1.7	3
153	P-126: Stable Measurement of 10 ⁻⁶ gm ⁻² day ⁻¹ Water Vapor Transmission Rate in Barrier Materials by Intermittent Accumulation and Release by a Cold Trap. <i>Digest of Technical Papers SID International Symposium</i> , 2015 , 46, 1639-1642	0.5	1
152	Localized Guided-Mode and Cavity-Mode Double Resonance in Photonic Crystal Nanocavities. <i>Physical Review Applied</i> , 2015 , 3,	4.3	13
151	Multilayered MoS ₂ nanoflakes bound to carbon nanotubes as electron acceptors in bulk heterojunction inverted organic solar cells. <i>Organic Electronics</i> , 2015 , 17, 275-280	3.5	20
150	Spontaneous Mixing of Molecules at the Organic Semiconductor pn Junction Fabricated by Sequential Deposition. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2015 , 135, 160-163	0.1	
149	Electrostatic Model of a Solid State Capacitor with Ionizable Charge Traps for Flexible Device Applications. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2015 , 135, 164-167	0.1	
148	Formation of graphite zigzag edges by cathodic electrochemical etching in acidic solution. <i>Carbon</i> , 2014 , 67, 300-303	10.4	7
147	Fe whisker growth revisited: effect of Au catalysis for [02] oriented nanowires with 100 nm diameter. <i>RSC Advances</i> , 2014 , 4, 27620-27624	3.7	4

146	Spontaneous exciton dissociation in carbon nanotubes. <i>Physical Review Letters</i> , 2014 , 112, 117401	7.4	43
145	Versatile Simple Doping Technique for Diamond by Solid Dopant Source Immersion during Microwave Plasma CVD. <i>Chemistry Letters</i> , 2014 , 43, 1569-1571	1.7	3
144	Ultralow mode-volume photonic crystal nanobeam cavities for high-efficiency coupling to individual carbon nanotube emitters. <i>Nature Communications</i> , 2014 , 5, 5580	17.4	80
143	Magnetic properties of epitaxial Fe ₃ O ₄ films with various crystal orientations and tunnel magnetoresistance effect at room temperature. <i>Applied Physics Letters</i> , 2014 , 105, 102410	3.4	34
142	Diamond-like carbon doped with highly π -conjugated molecules by plasma-assisted CVD. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 010203	1.4	4
141	Electrostatic model of solid-state capacitor with ionizable charge traps. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 088004	1.4	
140	X-ray absorption and magnetic circular dichroism characterization of Fe-doped thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 333, 130-133	2.8	9
139	Estimation of Gas Permeation Characteristics of Ultrahigh Barrier Edge Sealing Materials from Asymptotic Solution of Diffusion Equation. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 05DA12	1.4	1
138	Optical control of individual carbon nanotube light emitters by spectral double resonance in silicon microdisk resonators. <i>Applied Physics Letters</i> , 2013 , 102, 161102	3.4	35
137	Cobalt epitaxial nanoparticles on CaF ₂ /Si(111): Growth process, morphology, crystal structure, and magnetic properties. <i>Physical Review B</i> , 2013 , 87,	3.3	10
136	In-Plane Orientation Control of 2,7-Diphenyl[1]benzothieno[3,2-b][1]benzothiophene Monolayer on Bismuth-Terminated Si(111) Vicinal Surfaces with Wettability Optimization. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 11555-11561	3.8	2
135	Influence of molecular structure on plasma carbonization of organic semiconductor molecules. <i>Journal of Physics: Conference Series</i> , 2013 , 441, 012041	0.3	
134	Fabrication and Physical Properties of Organic Tricolor Superlattice. <i>Electronics and Communications in Japan</i> , 2013 , 96, 32-36	0.4	
133	Fabrication and characterization of photo-responsive organic p-type/n-type/piezoelectric tricolor superlattices. <i>Applied Physics Letters</i> , 2013 , 103, 133305	3.4	2
132	Orientation Control and Angle-resolved Photoemission Studies of Organic Epitaxial Thin Films on Bismuth-terminated Silicon Surfaces. <i>Journal of the Vacuum Society of Japan</i> , 2013 , 56, 1-10		
131	Fabrication of ZnO Nanorods by Atmospheric-Pressure Solid-Source CVD Using Ethanol-Assisted Low-Temperature Vaporization. <i>Bulletin of the Chemical Society of Japan</i> , 2012 , 85, 1287-1292	5.1	1
130	Change in the Morphology of the Terrace Edges on Graphite Surfaces by Electrochemical Reduction. <i>Chemistry Letters</i> , 2012 , 41, 187-188	1.7	2
129	Transparent conductivity of fluorine-doped anatase TiO ₂ epitaxial thin films. <i>Journal of Applied Physics</i> , 2012 , 111, 093528	2.5	23

128	Oxygen-17 nuclear magnetic resonance measurements on apatite-type lanthanum silicate (La _{9.33} (SiO ₄) ₆ O ₂). <i>Solid State Ionics</i> , 2012 , 228, 64-69	3.3	11
127	Fabrication of Piezoelectric Polyurea Films by Alternating Deposition. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 041603	1.4	4
126	Enhancement of carbon nanotube photoluminescence by photonic crystal nanocavities. <i>Applied Physics Letters</i> , 2012 , 101, 141124	3.4	50
125	Solvent Effects on the Transient Characteristics of Liquid-Gate Field Effect Transistors with Silicon Substrate. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 111803	1.4	2
124	Enhanced Carrier Transport in Uniaxially (001)-Oriented Anatase Ti _{0.94} Nb _{0.06} O ₂ Films Grown on Nanosheet Seed Layers. <i>Applied Physics Express</i> , 2011 , 4, 045801	2.4	21
123	Fabrication of transparent conductive W-doped SnO ₂ thin films on glass substrates using anatase TiO ₂ seed layers. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 543-545		21
122	Gate-induced blueshift and quenching of photoluminescence in suspended single-walled carbon nanotubes. <i>Physical Review B</i> , 2011 , 84,	3.3	35
121	Strong Pressure Effect in the Sublimation from Tetracene Single Crystals and Development of Surface Cleaning Technique for Organic Semiconductors. <i>Applied Physics Express</i> , 2011 , 4, 021601	2.4	3
120	Computational Analysis of Thermal Energetic Disorder in a Pentacene Crystal: Temperature Dependence of Trap Levels and Possible Novel Thermoelectric Contribution. <i>Applied Physics Express</i> , 2011 , 4, 061601	2.4	3
119	Transport properties and electronic states of anatase Ti _{1-x} W _x O ₂ epitaxial thin films. <i>Journal of Applied Physics</i> , 2010 , 107, 023705	2.5	23
118	Electric Double Layer Gate Field-Effect Transistors Based on Si. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 04DK06	1.4	4
117	Magnetic and Transport Properties of Anatase TiO ₂ Codoped with Fe and Nb. <i>Applied Physics Express</i> , 2010 , 3, 043001	2.4	6
116	Carrier Compensation by Excess Oxygen Atoms in Anatase Ti _{0.94} Nb _{0.06} O ₂ + δ Epitaxial Thin Films. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 041102	1.4	16
115	Very high temperature annealing effect on amorphous carbon films grown on refractory oxide substrates by pulsed laser deposition. <i>Diamond and Related Materials</i> , 2010 , 19, 107-109	3.5	2
114	High Mobility Exceeding 80 cm ² V ⁻¹ s ⁻¹ in Polycrystalline Ta-Doped SnO ₂ Thin Films on Glass Using Anatase TiO ₂ Seed Layers. <i>Applied Physics Express</i> , 2010 , 3, 031102	2.4	35
113	High magnetic field effect in organic light emitting diodes. <i>Organic Electronics</i> , 2010 , 11, 1212-1216	3.5	6
112	Transparent conducting Nb-doped anatase TiO ₂ (TNO) thin films sputtered from various oxide targets. <i>Thin Solid Films</i> , 2010 , 518, 3101-3104	2.2	46
111	Fabrication of highly conductive Ta-doped SnO ₂ polycrystalline films on glass using seed-layer technique by pulse laser deposition. <i>Thin Solid Films</i> , 2010 , 518, 3093-3096	2.2	28

110	Highly Sensitive and Rapid Measurement of Gas Barrier Properties of Flexible Films and Sealing Resins Based on a Low Temperature Trap and Mass Spectroscopy. <i>Applied Physics Express</i> , 2010 , 3, 021701 ^{2,4}		7
109	Large electron mass anisotropy in a d-electron-based transparent conducting oxide: Nb-doped anatase TiO ₂ epitaxial films. <i>Physical Review B</i> , 2009 , 79,	3.3	59
108	Band dispersion of quasi-single crystal thin film phase pentacene monolayer studied by angle-resolved photoelectron spectroscopy. <i>Applied Physics Letters</i> , 2009 , 95, 123308	3.4	46
107	Direct Observation of Gas Phase Nucleation during Physical Vapor Transport Growth of Organic Single Crystals Using a Transparent Furnace. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 118003	1.4	1
106	Direct growth of transparent conducting Nb-doped anatase TiO ₂ polycrystalline films on glass. <i>Journal of Applied Physics</i> , 2009 , 105, 123702	2.5	67
105	Fabrication of TiO ₂ -based transparent conducting oxide on glass and polyimide substrates. <i>Thin Solid Films</i> , 2009 , 517, 3106-3109	2.2	33
104	Very high temperature chemical vapor deposition of new carbon thin films using organic semiconductor molecular beam sources. <i>Thin Solid Films</i> , 2009 , 518, 778-780	2.2	4
103	X-ray absorption spectroscopy and magnetic circular dichroism in codeposited C ₆₀ /Co films with giant tunnel magnetoresistance. <i>Chemical Physics Letters</i> , 2009 , 470, 244-248	2.5	18
102	Fabrication of EuTiO ₃ Epitaxial Thin Films by Pulsed Laser Deposition. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 100208	1.4	9
101	Random telegraphic conductance fluctuation at Au-pentacene-Au nanojunctions. <i>Nano Letters</i> , 2009 , 9, 1442-6	11.5	11
100	Multiple-scattering approach to Ti L _{2,3} -edge XMCD analyses for Co doped TiO ₂ . <i>Journal of Physics: Conference Series</i> , 2009 , 190, 012018	0.3	2
99	Detailed investigation on the possibility of nanoparticles of various metal elements for surface-assisted laser desorption/ionization mass spectrometry. <i>Analytical Sciences</i> , 2009 , 25, 339-46	1.7	87
98	In-situ TEM observations of the crystallization process of solution-prepared MoS ₂ amorphous particles. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 6736-40	1.3	3
97	Epitaxial Growth and Photoelectron Spectroscopy of Pentacene. <i>Hyomen Kagaku</i> , 2009 , 30, 7-10		2
96	Graphoepitaxy of sexithiophene and orientation control by surface treatment. <i>Journal of Applied Physics</i> , 2008 , 103, 084313	2.5	26
95	Electronic Band Structure of Transparent Conductor: Nb-Doped Anatase TiO ₂ . <i>Applied Physics Express</i> , 2008 , 1, 111203	2.4	122
94	Carrier Compensation Mechanism of Highly Conductive Anatase Ti _{0.94} Nb _{0.06} O ₂ Epitaxial Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1074, 1		1
93	Artificial Grain Alignment of Organic Crystalline Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1150, 1		

92	Magnetotransport Properties of Fe/Pentacene/Co:TiO ₂ Junctions with Fe Top Contact Electrodes Prepared by Thermal Evaporation and Pulsed Laser Deposition. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 1184-1187	1.4	15
91	Low-temperature Fabrication of Transparent Conducting Anatase Nb-doped TiO ₂ Films by Sputtering. <i>Applied Physics Express</i> , 2008 , 1, 115001	2.4	64
90	Epitaxial Strain Effects in Ultrathin Films of Squaric Acid Studied by Temperature-Dependent Electron Reflectivity. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 1422-1425	1.4	2
89	Step-bunched Bi-terminated Si(111) surfaces as a nanoscale orientation template for quasisingle crystalline epitaxial growth of thin film phase pentacene. <i>Applied Physics Letters</i> , 2008 , 93, 223303	3.4	13
88	Structural study of TiO ₂ -based transparent conducting films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2008 , 26, 1027-1029	2.9	10
87	Heteroepitaxial growth of ferromagnetic rutile Co _x Ti _{1-x} O ₂ on GaN (0001). <i>Applied Physics Letters</i> , 2008 , 92, 042503	3.4	1
86	Structural, electrical and optical properties of sputter-deposited Nb-doped TiO ₂ (TNO) polycrystalline films. <i>Thin Solid Films</i> , 2008 , 516, 5754-5757	2.2	66
85	Ferromagnetic rutile Co _x Ti _{1-x} O ₂ heteroepitaxy on wurtzite GaN and ZnO. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 3104-3106		1
84	Nucleation on the substrate surfaces during liquid flux-mediated vacuum deposition of rubrene. <i>Journal of Crystal Growth</i> , 2008 , 311, 163-166	1.6	7
83	Femtosecond depolarization dynamics of tris(8-hydroxyquinoline) aluminum films. <i>Chemical Physics Letters</i> , 2008 , 450, 335-339	2.5	6
82	Transparent conducting properties of anatase Ti _{0.94} Nb _{0.06} O ₂ polycrystalline films on glass substrate. <i>Thin Solid Films</i> , 2008 , 516, 5750-5753	2.2	32
81	Wetting-Dewetting oscillations of liquid films during solution-mediated vacuum deposition of rubrene. <i>Langmuir</i> , 2007 , 23, 6864-8	4	21
80	Quantitative analysis of thin-film conductivity by scanning microwave microscope. <i>Applied Surface Science</i> , 2007 , 254, 757-759	6.7	5
79	Electron energy loss spectroscopy of ultrathin pentacene field effect transistors. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2007 , 154, 119-122	1.7	3
78	Anatase phase stability and doping concentration dependent refractivity in codoped transparent conducting TiO ₂ films. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 5961-5964	3	14
77	Fabrication of TiO ₂ -Based Transparent Conducting Oxide Films on Glass by Pulsed Laser Deposition. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, L86-L88	1.4	62
76	Correlation between Gap States and Off-current in Pentacene Field-effect Transistors Observed by Sub-band-gap Photocurrent Voltage Measurement. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, L817-L819	1.4	19
75	Transport properties of d-electron-based transparent conducting oxide: Anatase Ti _{1-x} Nb _x O ₂ . <i>Journal of Applied Physics</i> , 2007 , 101, 093705	2.5	111

74	Analysis of charge transport in a polycrystalline pentacene thin film transistor by temperature and gate bias dependent mobility and conductance. <i>Journal of Applied Physics</i> , 2007 , 102, 023706	2.5	59
73	Visualization of induced charge in an organic thin-film transistor by cross-sectional potential mapping. <i>Journal of Applied Physics</i> , 2007 , 101, 094509	2.5	24
72	Metal-induced Urbach tail at the gold/pentacene interface of top-contact organic field effect transistors. <i>Journal of Applied Physics</i> , 2007 , 102, 064510	2.5	3
71	Fabrication of Low Resistivity Nb-doped TiO ₂ Transparent Conductive Polycrystalline Films on Glass by Reactive Sputtering. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 5275-5277	1.4	79
70	Oriented Film Growth of Organic Semiconductor Sexithiophene on Artificial Periodic Grooves and Electrical Conduction Properties of the Films. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1059, 1		1
69	Fabrication of highly conductive Ti _{1-x} Nb _x O ₂ polycrystalline films on glass substrates via crystallization of amorphous phase grown by pulsed laser deposition. <i>Applied Physics Letters</i> , 2007 , 90, 212106	3.4	138
68	Interaction between surface migrating pentacene molecules and chemically modified surfaces of silicon oxides studied by pulsed molecular beam scattering. <i>Surface Science</i> , 2006 , 600, 236-239	1.8	7
67	Novel transparent conducting oxide: Anatase Ti _{1-x} Nb _x O ₂ . <i>Thin Solid Films</i> , 2006 , 496, 157-159	2.2	85
66	Orientation Control of Standing Epitaxial Pentacene Monolayers Using Surface Steps and In-plane Band Dispersion Analysis by Angle Resolved Photoelectron Spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 965, 1		3
65	Enhancement of Magneto-Optical Properties of Anatase Co:TiO ₂ Co-Doped with Nb. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, L387-L389	1.4	6
64	Pulsed molecular beam scattering of a planar-shaped organic molecule on regularly stepped surfaces of hydrogen-terminated Si(111). <i>Applied Physics Letters</i> , 2006 , 89, 141912	3.4	3
63	Thickness Dependent Characteristics of a Copper Phthalocyanine Thin-Film Transistor Investigated by in situ FET Measurement System. <i>Molecular Crystals and Liquid Crystals</i> , 2006 , 455, 347-351	0.5	9
62	Intrinsic Faraday spectra of ferromagnetic rutile Ti _{1-x} Co _x O ₂ . <i>Applied Physics Letters</i> , 2006 , 88, 252508	3.4	18
61	Graphoepitaxy of sexithiophene on thermally oxidized silicon surface with artificial periodic grooves. <i>Applied Physics Letters</i> , 2006 , 88, 251905	3.4	27
60	Carrier induced ferromagnetism in Nb doped Co:TiO ₂ and Fe:TiO ₂ epitaxial thin film. <i>Journal of Applied Physics</i> , 2006 , 99, 08M121	2.5	25
59	Magnetic Properties of Rutile Ti _{1-x} Fe _x O ₂ Epitaxial Thin Films. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, L114-L116	1.4	13
58	Electron Spectroscopy of Dye-Sensitized Anatase(001) Surfaces Under Illumination. <i>Molecular Crystals and Liquid Crystals</i> , 2006 , 455, 317-325	0.5	3
57	Development of high-throughput combinatorial terahertz time-domain spectrometer and its application to ternary composition-spread film. <i>Applied Surface Science</i> , 2006 , 252, 2622-2627	6.7	6

56	Post-processing of spin-coated organic thin films in solvent vapors: Vapor pressure monitoring by infrared absorption and the effect of electric fields. <i>Thin Solid Films</i> , 2006 , 515, 1568-1572	2.2	6
55	Ta-doped Anatase TiO ₂ Epitaxial Film as Transparent Conducting Oxide. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, L1063-L1065	1.4	132
54	A transparent metal: Nb-doped anatase TiO ₂ . <i>Applied Physics Letters</i> , 2005 , 86, 252101	3.4	674
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