

# Yuji Matsumoto

## List of Publications by Year in descending order

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268  
papers

8,681  
citations

76326

40  
h-index

48315

88  
g-index

271  
all docs

271  
docs citations

271  
times ranked

8142  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct visualization of kinetic reversibility of crystallization and dissolution behavior at solution growth interface of SiC in Si-Cr solvent. <i>Surfaces and Interfaces</i> , 2022, 28, 101664.	3.0	5
2	Room-Temperature Preparation of Ta Ions-Containing Ionic Liquid and its Vapor Deposition toward Ta-Oxide Film Coating. <i>Journal of the Electrochemical Society</i> , 2022, 169, 013504.	2.9	2
3	Electric Double Layer Action of High-quality Ionic Liquid Crystal Thin Films. <i>Chemistry Letters</i> , 2022, 51, 162-165.	1.3	6
4	Compositionally graded crystals as a revived approach for new crystal engineering for the exploration of novel functionalities. <i>CrystEngComm</i> , 2022, 24, 2359-2369.	2.6	2
5	$\frac{\partial \rho}{\partial t} + \nabla \cdot (\rho \mathbf{v}) = -\nabla \cdot \mathbf{q} + \dot{q}$ Reaction in Momentum Range	7.8	15
6	Direct visualization of high-temperature dissolution dynamics of $\text{Al}_2\text{O}_3$ with an oxide-based melt flux of Sn:BiOx. <i>Chemical Physics Letters</i> , 2022, 803, 139869.	2.6	0
7	Vapor-liquid-solid growth of 4H-SiC single crystal films with extremely low carrier densities in chemical vapor deposition with a Pt-Si alloy flux and X-ray topography analysis of their dislocation propagation behaviors. <i>CrystEngComm</i> , 2021, 23, 5039-5044.	2.6	1
8	Vapor-liquid-solid-like growth of high-quality and uniform $3\text{C-SiC}$ heteroepitaxial films on $\text{Al}_2\text{O}_3$ (001) substrates. <i>CrystEngComm</i> , 2021, 23, 1709-1717.	2.6	2
9	Establishment of a Modern Experimental Technique of a ( $\Sigma$ ) Scattering Experiment at J-PARC. , 2021, , .		0
10	Study of ( $\Sigma$ ) Identification Method by the ( $\pi$ ) Reaction for a ( $\Sigma$ ) Scattering Experiment at J-PARC. , 2021, , .		0
11	Surface thermal fluctuation spectroscopy study of ultra-thin ionic liquid films on quartz. <i>Applied Physics Express</i> , 2021, 14, 075503.	2.4	1
12	Epitaxial pillar-matrix nanocomposite thin films of $\text{BiTiFeO}$ and $\text{CoFe}_2\text{O}_4$ grown on $\text{SrTiO}_3$ (110). <i>Journal of Applied Physics</i> , 2021, 130, 084101.	2.5	1
13	Artificially Designed Compositionally Graded Sr-Doped $\text{NaTaO}_3$ Single-Crystalline Thin Films and the Dynamics of Their Photoexcited Electron-Hole Pairs. <i>Chemistry of Materials</i> , 2021, 33, 226-233.	6.7	9
14	Sequential variation of super periodic structures emerged in Bi-layered perovskite pillar-matrix epitaxial nanocomposite films with spinel ferrites. <i>CrystEngComm</i> , 2021, 23, 8404-8410.	2.6	0
15	In-vacuum electropolymerization of vapor-deposited source molecules into polymer films in ionic liquid. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 33-38.	3.7	2
16	Flux-Mediated Doping of Bi into $(\text{La,Sr})\text{MnO}_3$ Films Grown on $\text{NdGdO}_3$ (110) Substrates. <i>ACS Applied Electronic Materials</i> , 2020, 2, 3658-3666.	4.3	3
17	Nanogels Constituted of Polyurea Filled with an Ionic Liquid as an Electrolyte for Electric Double-Layer Transistors. <i>ACS Applied Nano Materials</i> , 2020, 3, 9610-9615.	5.0	5
18	A New Route to Carbon Film Coating by Anodic Electrodeposition from Ionic Liquid Containing Different Phenylsilane Derivatives. <i>Chemistry Letters</i> , 2020, 49, 1349-1352.	1.3	1

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19	Vacuum Electrochemistry Approach to Investigate Electrical Double-Layer Capacitances of Ionic Liquid for Epitaxial Thin-Film Electrodes of TiO <sub>2</sub> and SrO on Niobium-Doped (001)SrTiO <sub>3</sub> . <i>ChemElectroChem</i> , 2020, 7, 3253-3259.	3.4	2
20	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
21	In situ vacuum ellipsometry approach to investigation of glass transition behavior in ionic liquid thin films. <i>Chemical Physics Letters</i> , 2020, 754, 137691.	2.6	1
22	Platinum additive impacts on vapor-liquid-solid growth chemical interface for high-quality SiC single crystal films. <i>Materials Today Chemistry</i> , 2020, 16, 100266.	3.5	3
23	Vapor-liquid-solid-like growth of thin film SiC by nanoscale alternating deposition of SiC and NiSi <sub>2</sub> . <i>Applied Surface Science</i> , 2020, 530, 147153.	6.1	2
24	In situ diagnosis of vacuum-deposited nanoscale ionic liquid [emim][TFSA], Li salt [Li][TFSA] and their solution films through a combination of ellipsometry and impedance spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2020, 59, 085001.	1.5	2
25	Homogeneous reduced moment in a gapful scalar chiral kagome antiferromagnet. <i>Physical Review B</i> , 2019, 100, .	3.2	6
26	Epitaxial Film Growth of LiBH <sub>4</sub> via Molecular Unit Evaporation. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1792-1796.	4.3	11
27	Ionic liquid wettability of CVD-grown graphene on Cu/±-Al <sub>2</sub> O <sub>3</sub> (001) characterized by in situ contact angle measurement in a vacuum. <i>Chemical Physics Letters</i> , 2019, 735, 136781.	2.6	5
28	Pulsed laser deposition with rapid beam deflection by a galvanometer mirror scanner. <i>Review of Scientific Instruments</i> , 2019, 90, 093901.	1.3	9
29	Ionic liquid-assisted vapor deposition and polymorphs control of 2,2',5',2''-terthiophene crystals. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 085503.	1.5	4
30	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.	1.8	6
31	Ionic liquid/ZnO(0001), single crystal and epitaxial film interfaces studied through a combination of electrochemical measurements and a pulsed laser deposition process under vacuum. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 25506-25512.	2.8	6
32	In Situ Wettability Characterization of Chemically Heterogeneous Surfaces Probed by Ionic Liquid Contact Angle in Vacuum: Pentacene on Single-Crystal SrTiO <sub>3</sub> (001). <i>Journal of Physical Chemistry C</i> , 2018, 122, 8390-8395.	3.1	6
33	Ionic Conductivity in Ionic Liquid Nano Thin Films. <i>ACS Nano</i> , 2018, 12, 10509-10517.	14.6	31
34	Electrodeposition of metallic Cu from CuCl gas source transported into ionic liquid in a vacuum. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018, 36, 031516.	2.1	2
35	In situ AFM study of low-temperature polymerization and network formation of thin film polyurea in ionic liquid. <i>European Polymer Journal</i> , 2018, 105, 421-425.	5.4	4
36	Molecular Interactions between Pentacene and Imidazolium Ionic Liquids: A Molecular Dynamics Study. <i>Chemistry Letters</i> , 2018, 47, 1154-1157.	1.3	5



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55	Magnetization of Yb-Based Mixed-Valent Compounds at Megagauss Fields. , 2014, , .		1
56	Evidence for the intrinsic nature of band-gap states electrochemically observed on atomically flat TiO <sub>2</sub> (110) surfaces. Physical Chemistry Chemical Physics, 2014, 16, 24784-24789.	2.8	16
57	Nondestructive and repeatable capacitance-voltage and current-voltage measurements across the oxide/electrolyte interface by UHV-electrochemistry approach. Applied Physics Express, 2014, 7, 095802.	2.4	4
58	Growth rate and surface morphology of 4H-SiC crystals grown from Si-Cr-C and Si-Cr-Al-C solutions under various temperature gradient conditions. Journal of Crystal Growth, 2014, 401, 681-685.	1.5	58
59	Growth behaviours of pentacene films confined in engineered shapes of ionic-liquid in vacuum. CrystEngComm, 2014, 16, 684-689.	2.6	15
60	Deterministic arbitrary switching of polarization in a ferroelectric thin film. Nature Communications, 2014, 5, 4971.	12.8	35
61	Search for Pentaquark $\tilde{\Sigma}^+$ in Hadronic Reaction at J-PARC. Few-Body Systems, 2013, 54, 955-960.	1.5	2
62	J-PARC E27 Experiment to Search for a Nuclear Kaon Bound State $K \tilde{\Lambda}^0$ pp. Few-Body Systems, 2013, 54, 1191-1194.	1.5	11
63	Combinatorial Nanoscience and Technology for Solid-State Materials. , 2013, , 1103-1124.		8
64	In-situ observations of flux growth of NaTaO <sub>3</sub> crystals on tantalum substrate. CrystEngComm, 2013, 15, 4058.	2.6	5
65	Epitaxial Bi <sub>5</sub> Ti <sub>3</sub> FeO <sub>15</sub> -CoFe <sub>2</sub> O <sub>4</sub> Pillar-Matrix Multiferroic Nanostructures. ACS Nano, 2013, 7, 11079-11086.	14.6	55
66	High-Throughput Screening of Ni Flux for SiC Solution Growth Using a High-Temperature Laser Microscope Observation and Secondary Ion Mass Spectroscopy Depth Profiling. ACS Combinatorial Science, 2013, 15, 287-290.	3.8	6
67	Development of an Ionic Liquid-Assisted Vacuum Deposition Technique for Organic Crystalline Thin Films. Hyomen Kagaku, 2013, 34, 198-203.	0.0	0
68	What are Essential Problems in Reproducibility of Photocatalysis in Surface Science?. Hyomen Kagaku, 2013, 34, 368-373.	0.0	0
69	Photo-Electrochemical Synthesis of Silver-Oxide Clathrate Ag <sub>7</sub> O <sub>8</sub> NO <sub>3</sub> on SrTiO <sub>3</sub> . Electrochemical and Solid-State Letters, 2012, 15, E19.	2.2	4
70	Spin-Filter Tunnel Junction with Matched Fermi Surfaces. Physical Review Letters, 2012, 109, 076602.	7.8	25
71	Development of a new laser heating system for thin film growth by chemical vapor deposition. Review of Scientific Instruments, 2012, 83, 094701.	1.3	8
72	Non-linear electric field response of permittivity of atomically smooth TiO <sub>2</sub> (rutile) single crystals studied by an electrochemical approach. Journal of the Ceramic Society of Japan, 2012, 120, 366-369.	1.1	1

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73	Organic single crystal transistor characteristics of single-crystal phase pentacene grown by ionic liquid-assisted vacuum deposition. <i>Applied Physics Letters</i> , 2012, 101, 083303.	3.3	51
74	Ionic liquid-mediated epitaxy of high-quality C60 crystallites in a vacuum. <i>CrystEngComm</i> , 2012, 14, 4939.	2.6	24
75	Effects of V-Ion Doping on the Photoelectrochemical Properties of Epitaxial TiO <sub>2</sub> (110) Thin Films on Nb-Doped TiO <sub>2</sub> (110) Single Crystals. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16951-16956.	3.1	14
76	Large Tunnel Magnetoresistance in Epitaxial Oxide Spin-Filter Tunnel Junctions. <i>Advanced Functional Materials</i> , 2012, 22, 4471-4475.	14.9	13
77	Field-effect transistors of the block co-oligomers based on thiophene and pyridine. <i>Thin Solid Films</i> , 2012, 520, 4445-4448.	1.8	3
78	Synthesis and Characterization of Thin Films of a Half-Metallic Oxide, Sr <sub>2</sub> FeMoO <sub>6</sub> , by Combinatorial Techniques. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 01BE13.	1.5	0
79	Growth of Single-Crystal Phase Pentacene in Ionic Liquids by Vacuum Deposition. <i>Crystal Growth and Design</i> , 2011, 11, 2273-2278.	3.0	62
80	Electron Beam Irradiation-Induced Reduction of SnO <sub>2</sub> Deposited on TiO <sub>2</sub> (110) Surfaces. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6618-6621.	3.1	6
81	Quantum Criticality Without Tuning in the Mixed Valence Compound $\text{YbAlB}_4$ . <i>Science</i> , 2011, 331, 316-319.	12.6	199
82	Modulation of the ferromagnetic insulating phase in Pr <sub>0.8</sub> Ca <sub>0.2</sub> MnO <sub>3</sub> by Co substitution. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011, 5, 34-36.	2.4	7
83	Electron beam irradiation-induced reduction of Sn on epitaxial rutile Sn <sub>x</sub> Ti <sub>1-x</sub> O <sub>2</sub> alloy thin films. <i>Thin Solid Films</i> , 2011, 519, 2555-2558.	1.8	2
84	NMR/NQR and Specific Heat Studies of Iron Pnictide Superconductor KFe <sub>2</sub> As <sub>2</sub> . <i>Journal of the Physical Society of Japan</i> , 2011, 80, SA118.	1.6	25
85	Nanoscale oxygen nonstoichiometry in epitaxial TiO <sub>2</sub> films grown by pulsed laser deposition. <i>Journal of Applied Physics</i> , 2011, 110, 103513.	2.5	15
86	Electrochemical impedance analysis of electric field dependence of the permittivity of SrTiO <sub>3</sub> and TiO <sub>2</sub> single crystals. <i>Journal of Applied Physics</i> , 2011, 109, 014112.	2.5	14
87	Influence of substrates on epitaxial growth of B-site-ordered perovskite La <sub>2</sub> NiMnO <sub>6</sub> thin films. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	17
88	Development of compact CW-IR laser deposition system for high-throughput growth of organic single crystals. <i>Science and Technology of Advanced Materials</i> , 2011, 12, 054210.	6.1	13
89	Electrochemical Characterization of Pentacene Thin Films in Vacuum with an Ionic Liquid as Electrolyte. <i>Applied Physics Express</i> , 2011, 4, 051602.	2.4	6
90	High-throughput CW-IR laser deposition and laser microscope imaging of binary ionic liquids in vacuum. <i>Science and Technology of Advanced Materials</i> , 2011, 12, 054204.	6.1	2

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91	Screening of metal flux for SiC solution growth by a thin-film combinatorial method. Science and Technology of Advanced Materials, 2011, 12, 054209.	6.1	11
92	Enhancement of Quantum Ferroelectricity in SrTi <sub>18</sub> O <sub>3</sub> Thin Film. Applied Physics Express, 2011, 4, 091501.	2.4	3
93	Chemical trend of Fermi-level shift in transition metal-doped TiO <sub>2</sub> films. Journal of the Ceramic Society of Japan, 2010, 118, 993-996.	1.1	15
94	Device size dependence of resistance switching performance in metal/manganite/metal trilayers. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 173, 3-6.	3.5	1
95	Vacuum and Pressured Combinatorial Processings for Exploration of Environmental Catalysts. Topics in Catalysis, 2010, 53, 35-39.	2.8	3
96	Fabrication and photoelectrochemical properties of La <sub>5</sub> Ti <sub>2</sub> MS <sub>5</sub> O <sub>7</sub> (M=Ag, Cu) electrodes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 173, 275-278.	3.5	27
97	Transparent conducting amorphous ZnInSnO anode for flexible organic light-emitting diodes. Solid State Communications, 2010, 150, 223-226.	1.9	24
98	Photocatalytic Synthesis of Silver-Oxide Clathrate Ag <sub>7</sub> O <sub>8</sub> NO <sub>3</sub> . Journal of the Electrochemical Society, 2010, 157, E181.	2.9	10
99	Reduction of nonradiative recombination center for ZnO films grown under Zn-rich conditions by metal organic chemical vapor deposition. Applied Physics Letters, 2010, 97, 131913.	3.3	12
100	Molecular Beam Deposition of Nanoscale Ionic Liquids in Ultrahigh Vacuum. ACS Nano, 2010, 4, 5946-5952.	14.6	49
101	Self-Template Growth of Ferroelectric Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> Nanoplates via Flux-Mediated Epitaxy with VO <sub>x</sub> . Crystal Growth and Design, 2010, 10, 5233-5237.	3.0	9
102	Nonfaceted Growth of (111)-Oriented Epitaxial Alkali-Halide Crystals via an Ionic Liquid Flux in a Vacuum. Crystal Growth and Design, 2010, 10, 3608-3611.	3.0	19
103	Epilayer control of photodeposited materials during UV photocatalysis. Applied Physics Letters, 2009, 94, 232901.	3.3	15
104	Ferromagnetic properties of epitaxial La <sub>2</sub> NiMnO <sub>6</sub> thin films grown by pulsed laser deposition. Applied Physics Letters, 2009, 94, .	3.3	49
105	Improved wettability of Sn-based solder over the Cu <sub>60</sub> Zr <sub>30</sub> Ti <sub>10</sub> bulk metallic glass surface. Journal of Materials Research, 2009, 24, 2931-2934.	2.6	5
106	In situ Auger Electron Spectroscopy Study of the Pentacene Film Grown on the SrTiO <sub>3</sub> (001) Surface. Japanese Journal of Applied Physics, 2009, 48, 020207.	1.5	1
107	Electronic structure characterization of La <sub>2</sub> NiMnO <sub>6</sub> epitaxial thin films using synchrotron-radiation photoelectron spectroscopy and optical spectroscopy. Applied Physics Letters, 2009, 94, .	3.3	43
108	Anisotropy of magnetization-induced surface optical second harmonic generation from Co doped rutile TiO <sub>2</sub> . Applied Surface Science, 2009, 256, 1092-1095.	6.1	3

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109	Fabrication of cosputtered ZnInSnO films and their applications to organic light-emitting diodes. Solid State Communications, 2009, 149, 1731-1734.	1.9	25
110	Combinatorial fabrication and magnetic properties of homoepitaxial Co and Li co-doped NiO thin-film nanostructures. Journal of Magnetism and Magnetic Materials, 2009, 321, 3595-3599.	2.3	11
111	In situ analysis of the thermal behavior in the Zr-based multi-component metallic thin film by pulsed laser deposition combined with UHV-laser microscope system. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 148, 179-182.	3.5	4
112	Magnetization-induced optical second harmonic generation from the surface of Co-doped rutile TiO <sub>2</sub> (110). Surface and Interface Analysis, 2008, 40, 1692-1695.	1.8	1
113	Epitaxial insulator for bottom-gate field-effect devices based on TiO <sub>2</sub> . Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 148, 19-21.	3.5	7
114	Composition-spread thin films of pentacene and 6,13-pentacenequinone fabricated by using continuous-wave laser molecular beam epitaxy. Applied Surface Science, 2008, 254, 2336-2341.	6.1	12
115	Field-induced resistance switching at metal/perovskite manganese oxide interface. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 148, 13-15.	3.5	5
116	Modification of reflection high-energy electron diffraction system for in situ monitoring of oxide epitaxy at high oxygen pressure. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 148, 16-18.	3.5	3
117	Electrode dependence and film resistivity effect in the electric-field-induced resistance-switching phenomena in epitaxial NiO films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 148, 40-42.	3.5	15
118	Brazing of Cu with Pd-based metallic glass filler. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 148, 128-131.	3.5	7
119	Trap-controlled space-charge-limited current mechanism in resistance switching at Al <sup>+</sup> Pr <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> interface. Applied Physics Letters, 2008, 92, .	3.3	106
120	Epitaxial growth and surface metallic nature of LaNiO <sub>3</sub> thin films. Applied Physics Letters, 2008, 92, .	3.3	52
121	Molecular Layer-by-Layer Growth of C <sub>60</sub> Thin Films by Continuous-Wave Infrared Laser Deposition. Applied Physics Express, 2008, 1, 015005.	2.4	39
122	High quality anatase TiO <sub>2</sub> film: Field-effect transistor based on anatase TiO <sub>2</sub> . Applied Physics Letters, 2008, 92, .	3.3	40
123	Photochemical switching of ultrathin PbTiO <sub>3</sub> films. Applied Physics Letters, 2008, 92, 112901.	3.3	58
124	Inorganic Impurity Effect on the Photoinduced Hydrophilic Conversion on Ultrasmooth SrTiO <sub>3</sub> and TiO <sub>2</sub> Single Crystal Surfaces. Japanese Journal of Applied Physics, 2007, 46, L562-L564.	1.5	2
125	Anomalous thickness and dopant effects on photochemical deposition of Ag on epitaxial TiO <sub>2</sub> (110)-Nb:TiO <sub>2</sub> (110) heterostructures. Applied Physics Letters, 2007, 91, 061928.	3.3	8
126	Ceramic liquid droplets stabilized in vacuum. Journal of Applied Physics, 2007, 101, 033511.	2.5	10



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127	Continuous wave infrared laser deposition of organic thin films. Journal of Physics: Conference Series, 2007, 59, 520-525.	0.4	10
128	Photodecomposition of Pentacene Films on Atomically Controlled SrTiO <sub>3</sub> (001) Surfaces. Journal of Physical Chemistry C, 2007, 111, 10523-10527.	3.1	11
129	High-Throughput Characterization of Metal Electrode Performance for Electric-Field-Induced Resistance Switching in Metal/Pr <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> /Metal Structures. Advanced Materials, 2007, 19, 1711-1713.	21.0	88
130	Direct observation of vortex lattice in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\delta$ by low temperature STM/STS. Physica C: Superconductivity and Its Applications, 2007, 460-462, 734-735.	1.2	0
131	Photo-catalysis effect of III-V nitride film. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 2642-2645.	0.8	0
132	Scanning Tunneling Microscopy/Spectroscopy of Heavily Overdoped Bi <sub>2</sub> Sr <sub>2</sub> CuO <sub>y</sub> Single Crystals. AIP Conference Proceedings, 2006, , .	0.4	1
133	Development of UHV-LT MFM Operating in Magnetic Field. AIP Conference Proceedings, 2006, , .	0.4	0
134	Correlation between Vortex Distribution and Electronic Inhomogeneity in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\delta$ as Probed by STM/STS. AIP Conference Proceedings, 2006, , .	0.4	0
135	Combinatorial synthesis of Li-doped NiO thin films and their transparent conducting properties. Applied Surface Science, 2006, 252, 2524-2528.	6.1	82
136	High-throughput characterization of Bi <sub>x</sub> Y <sub>3-<math>\delta</math></sub> xFe <sub>5</sub> O <sub>12</sub> combinatorial thin films by magneto-optical imaging technique. Applied Surface Science, 2006, 252, 2628-2633.	6.1	4
137	Design and development of an ultra-compact drum-shaped chamber for combinatorial pulsed laser deposition. Applied Surface Science, 2006, 252, 2461-2465.	6.1	1
138	High-throughput characterization of local conductivity of Nd <sub>0.9</sub> Ca <sub>0.1</sub> Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> thin film by the low-temperature scanning microwave microscope. Applied Surface Science, 2006, 252, 2615-2621.	6.1	5
139	Combinatorial discovery of anomalous substrate effect on the photochemical properties of transition metal-doped epitaxial SrTiO <sub>3</sub> heterostructures. Applied Surface Science, 2006, 252, 2603-2607.	6.1	17
140	A combinatorial approach to the discovery and optimization of YCa <sub>4</sub> O(BO <sub>3</sub> ) <sub>3</sub> -based luminescent materials. Applied Surface Science, 2006, 252, 2493-2496.	6.1	8
141	Combinatorial exploration of flux material for Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> single crystal film growth. Applied Surface Science, 2006, 252, 2477-2481.	6.1	14
142	Flux-mediated epitaxy for ferroelectric Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> single crystal film growth. Journal of Electroceramics, 2006, 17, 189-195.	2.0	0
143	Perfect Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> Single-Crystal Films via Flux-Mediated Epitaxy. Advanced Functional Materials, 2006, 16, 485-491.	14.9	39
144	High-Mobility C60 Field-Effect Transistors Fabricated on Molecular- Wetting Controlled Substrates. Advanced Materials, 2006, 18, 1713-1716.	21.0	213

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145	Direct Observation of Interlayer Josephson Vortices in Heavily Pb-Doped Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>y</sub> by Scanning Superconducting Quantum Interference Device Microscopy. Japanese Journal of Applied Physics, 2006, 45, L490-L492.	1.5	0
146	Photochemical Approach to Analysis of Ferroelectric Transition in Ba <sub>x</sub> Sr <sub>1-x</sub> TiO <sub>3</sub> Epitaxial Films. Japanese Journal of Applied Physics, 2006, 45, L339-L342.	1.5	7
147	Combinatorial Experimentation and Materials Informatics. MRS Bulletin, 2006, 31, 999-1003.	3.5	20
148	Epitaxial Growth of C60 Thin Films using Continuous-wave Laser Molecular Beam Epitaxy. Materials Research Society Symposia Proceedings, 2006, 965, 1.	0.1	0
149	Molecular-Wetting Control by Ultrasoother Pentacene Buffer for High-crystallinity Organic Field-Effect Transistors. Materials Research Society Symposia Proceedings, 2006, 965, 1.	0.1	0
150	Epitaxial ScAlMgO <sub>4</sub> (0001) films grown on sapphire substrates by flux-mediated epitaxy. Applied Physics Letters, 2006, 89, 191910.	3.3	9
151	Large magnetic anisotropy in highly c-axis-oriented Ru(Eu <sub>1.5</sub> Ce <sub>0.5</sub> )Sr <sub>2</sub> Cu <sub>2</sub> O <sub>10</sub> epitaxial films. Physical Review B, 2006, 74, .	3.2	5
152	Correlation between flux pinning and inhomogeneous electronic distribution of Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> directly probed by scanning tunneling microscopy/spectroscopy. Physical Review B, 2006, 73, .	3.2	4
153	Field-effect transistor based on atomically flat rutile TiO <sub>2</sub> . Applied Physics Letters, 2006, 89, 242103.	3.3	47
154	Nanoskyscrapers of ferroelectric Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> . Applied Physics Letters, 2006, 88, 152904.	3.3	17
155	Electronic inhomogeneity of heavily overdoped Bi <sub>2-x</sub> PbxSr <sub>2</sub> CuO <sub>y</sub> studied by low-temperature scanning tunneling microscopy/spectroscopy. Physical Review B, 2006, 73, .	3.2	37
156	RECa <sub>4</sub> O(BO <sub>3</sub> ) <sub>3</sub> thin films as new Luminescent materials screened by the combinatorial method. Journal of Physics and Chemistry of Solids, 2005, 66, 2112-2115.	4.0	2
157	Flux-mediated epitaxy: general application in vapor phase epitaxy to single crystal quality of complex oxide films. Journal of Crystal Growth, 2005, 275, 325-330.	1.5	25
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