

Kohei Yoshimatsu

List of Publications by Year in descending order

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71
papers

1,679
citations

304368

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h-index

301761

39
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72
all docs

72
docs citations

72
times ranked

2610
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-dimensional superconductivity in single-band correlated H-NbO_2 thin films. Physical Review B, 2022, 105, .	1.1	4
2	Direct Synthesis of Metastable $\hat{\Gamma}$ -Phase Ti_3O_5 Films on LaAlO_3 (110) Substrates at High Temperatures. Crystal Growth and Design, 2022, 22, 703-710.	1.4	7
3	Development of a versatile micro-focused angle-resolved photoemission spectroscopy system with Kirkpatrick-Baez mirror optics. Review of Scientific Instruments, 2022, 93, 033906.	0.6	21
4	Electronic band structure of Ti_2O_3 thin films studied by angle-resolved photoemission spectroscopy. Physical Review B, 2022, 105, .	1.1	4
5	Superconducting Dome Underlying Bipolaronic Insulating State in Charge-doped Ti_4O_7 Epitaxial Films. Journal of the Physical Society of Japan, 2021, 90, 023705.	0.7	1
6	Epitaxial Stabilization of Complete Solid-solution $\hat{\Gamma}^2\text{-(Al}_x\text{Ga}_{1-x})_2\text{O}_3$ (100) Films by Pulsed-laser Deposition. Crystal Growth and Design, 2021, 21, 2844-2849.	1.4	13
7	SrTiO_3 films studied by <i>in situ</i> photoemission spectroscopy: Screening for a transparent electrode. Physical Review B, 2021, 104, .	1.1	6
8	Resonant tunneling driven metal-insulator transition in double quantum-well structures of strongly correlated oxide. Nature Communications, 2021, 12, 7070.	5.8	6
9	Heavy-fermion metallic state and Mott transition induced by Li-ion intercalation in LiV_2O_4 epitaxial films. Physical Review B, 2021, 104, .	1.1	4
10	p-type transparent superconductivity in a layered oxide. Science Advances, 2020, 6, eabb8570.	4.7	14
11	Thickness dependence of electronic structures in VO_2 ultrathin films: Suppression of the cooperative Mott-Peierls transition. Physical Review B, 2020, 102, .	1.1	12
12	Optical and structural investigations on titanium oxynitride films for visible-UV photocatalytic applications. Journal of Applied Physics, 2020, 127, .	1.1	3
13	Metallic ground states of undoped Ti_2O_3 films induced by elongated c-axis lattice constant. Scientific Reports, 2020, 10, 22109.	1.6	12
14	High Concentration N-Doping into Ga_2O_3 Films by Using Pulsed-Laser Deposition with NO Plasma. , 2019, , .		0
15	Suppression of Parallel Conduction at the Interface in $\beta\text{-Ga}_2\text{O}_3$ Homoepitaxial Layer Using Semi-Insulating Intermediate Layer. , 2019, , .		0
16	Magnetic and electronic properties of B-site -ordered double-perovskite oxide $\text{LaL}_2\text{CrMnO}_6$. Physical Review B, 2019, 100, .	1.1	10
17	High-pressure Study of Superconductivity in Ti_4O_7 Film. Journal of the Physical Society of Japan, 2019, 88, 035001.	0.7	5
18	Anisotropic spin-density distribution and magnetic anisotropy of strained $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ thin films: angle-dependent x-ray magnetic circular dichroism. Npj Quantum Materials, 2018, 3, .	1.8	23

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19	Anisotropic Charge Distribution Induced by Spin Polarization in La _{0.6} Sr _{0.4} MnO ₃ Thin Films Studied by X-ray Magnetic Linear Dichroism. Journal of the Physical Society of Japan, 2018, 87, 114713.	0.7	0
20	Large anisotropy in conductivity of Ti ₂ O ₃ films. APL Materials, 2018, 6, .	2.2	13
21	Band alignment at $\hat{\Gamma}^2$ -(Al _x Ga _{1-x}) ₂ O ₃ / $\hat{\Gamma}^2$ -Ga ₂ O ₃ (100) interface fabricated by pulsed-laser deposition. Applied Physics Letters, 2018, 112, 232103.	1.5	47
22	Electronic properties across metal-insulator transition in $\hat{\Gamma}^2$ -pyrochlore-type CsW ₂ O ₆ epitaxial films. Physical Review Materials, 2018, 2, .	0.9	4
23	Microwave Effects on Co ^{II} Cocatalysts Deposited on $\hat{\Gamma}^2$ -Fe ₂ O ₃ for Application to Photocatalytic Oxygen Evolution. ACS Applied Materials & Interfaces, 2017, 9, 10349-10354.	4.0	36
24	Superconductivity in Ti ₄ O ₇ and $\hat{\Gamma}^3$ -Ti ₃ O ₅ films. Scientific Reports, 2017, 7, 12544.	1.6	47
25	Epitaxial structure and electronic property of $\hat{\Gamma}^2$ -Ga ₂ O ₃ films grown on MgO (100) substrates by pulsed-laser deposition. Applied Physics Letters, 2017, 111, .	1.5	40
26	Highly oriented epitaxial CaFe ₂ O ₄ thin films on TiO ₂ substrates grown by pulsed-laser deposition. Thin Solid Films, 2017, 638, 406-409.	0.8	1
27	Effects of phase fraction on superconductivity of low-valence eutectic titanate films. Journal of Applied Physics, 2017, 122, .	1.1	17
28	Electronic Structures and Photoanodic Properties of Ilmenite-type <i>M</i> -TiO ₃ Epitaxial Films (<i>M</i> = Mn, Fe, Co, Ni). Journal of Physical Chemistry C, 2017, 121, 18717-18724.	1.5	26
29	Emergence of Quantum Critical Behavior in Metallic Quantum-Well States of Strongly Correlated Oxides. Scientific Reports, 2017, 7, 16621.	1.6	14
30	Epitaxial growth of hexagonal tungsten bronze Cs _x WO ₃ films in superconducting phase region exceeding bulk limit. Applied Physics Express, 2016, 9, 075801.	1.1	4
31	Impact of built-in potential across LaFeO ₃ /SrTiO ₃ heterojunctions on photocatalytic activity. Applied Physics Letters, 2016, 108, .	1.5	23
32	Epitaxial growth and electric properties of $\hat{\Gamma}^3$ -Al ₂ O ₃ (110) films on $\hat{\Gamma}^2$ -Ga ₂ O ₃ (010) substrates. Japanese Journal of Applied Physics, 2016, 55, 1202B6.	0.8	33
33	Insulator-to-metal transition of WO ₃ epitaxial films induced by electrochemical Li-ion intercalation. Applied Physics Express, 2016, 9, 075802.	1.1	18
34	Phonon-dressed two-dimensional carriers on the ZnO surface. Physical Review B, 2016, 94, .	1.1	23
35	Epitaxial synthesis and physical properties of double-perovskite oxide Sr ₂ CoRuO ₆ thin films. Journal of Physics Condensed Matter, 2016, 28, 436005.	0.7	6
36	Strain-induced metal-insulator transition in $\hat{\Gamma}^2$ -Ga ₂ O ₃ system of perovskite titanate $S_{m > 0.5}$	1.1	6

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37	Isotropic Kink and Quasiparticle Excitations in the Three-Dimensional Perovskite Manganite $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$. Physical Review Letters, 2016, 116, 076401.	2.9	16
38	Formation of indium-tin oxide ohmic contacts for $\text{In}_2\text{Ga}_2\text{O}_3$. Japanese Journal of Applied Physics, 2016, 55, 1202B7.	0.8	36
39	Fabrication and Characterization of Semiconductor Photoelectrodes with Orientation-Controlled Fe_2O_3 Thin Films. Journal of Physical Chemistry C, 2016, 120, 2747-2752.	1.5	20
40	Correlated electronic states of SrVO ₃ revealed by angle-resolved photoemission spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2016, 208, 11-16.	0.8	17
41	Thickness-dependent magnetic properties and strain-induced orbital magnetic moment in SrRuO_3 films. Physical Review B, 2015, 92, .	1.5	15
42	Origin of the Anomalous Mass Renormalization in Metallic Quantum Well States of Strongly Correlated Oxide SrVO_3 . Physical Review Letters, 2015, 115, 076801.	2.9	26
43	Reversible superconductor-insulator transition in LiTi_2O_4 induced by Li-ion electrochemical reaction. Scientific Reports, 2015, 5, 16325.	1.6	17
44	Direct growth of metallic TiH_2 thin films by pulsed laser deposition. Applied Physics Express, 2015, 8, 035801.	1.1	8
45	Synthesis and magnetic properties of double-perovskite oxide $\text{La}_{1-x}\text{Ca}_x\text{Mn}_2\text{O}_{10}$. Photoemission and x-ray absorption studies of the isostructural to Fe-based superconductors diluted magnetic semiconductor.	1.3	9
46	$\text{BaMn}_2\text{O}_{10}$.		

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55	Epitaxial Synthesis and Electronic Properties of Double-Perovskite Sr ₂ TiRuO ₆ Films. Applied Physics Express, 2013, 6, 105502.	1.1	8
56	Determination of the surface and interface phase shifts in metallic quantum well structures of perovskite oxides. Physical Review B, 2013, 88, .	1.1	12
57	Origin of metallic states of Co-doped perovskite manganite Pr _x Ca _{1-x} MnO ₃ . Physical Review B, 2012, 86, .	1.1	13
58	Development of Cryocooled YBCO Vector Magnet System with Three-axial Super-high Vacuum Bores. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 2013, 48, 233-238.	0.1	1
59	Self-Energy on the Low- to High-Energy Electronic Structure of Correlated Metal SrVO ₃ . Physical Review Letters, 2012, 109, 056401.	2.9	62
60	Core level and valence band spectroscopy of SrRuO ₃ : Electron correlation and covalence effects. Physical Review B, 2012, 86, .	1.1	17
61	Epitaxially Stabilized EuMoO ₃ : A New Itinerant Ferromagnet. Chemistry of Materials, 2012, 24, 3746-3750.	3.2	21
62	Magnetic and electronic properties of ordered double-perovskite La ₂ VMnO ₆ thin films. Physical Review B, 2011, 84, .	1.1	28
63	Metallic Quantum Well States in Artificial Structures of Strongly Correlated Oxide. Science, 2011, 333, 319-322.	6.0	125
64	Competition between instabilities of Peierls transition and Mott transition in W-doped VO ₂ thin films. Physical Review B, 2011, 84, .	1.1	47
65	Dimensional-Crossover-Driven Metal-Insulator Transition in SrVO ₃ Ultrathin Films. Physical Review Letters, 2010, 104, 147601.	2.9	171
66	Pressure-induced change in the electronic structure of epitaxially strained La _{1-x} Sr _x MnO ₃ films. Physical Review B, 2009, 80, .	1.1	13
67	Chemical stability and transport properties of ultrathin La _{1.2} Sr _{1.8} Mn ₂ O ₇ Ruddlesden-Popper films. Applied Physics Letters, 2009, 95, 152110.	1.5	5
68	Thickness dependent electronic structure of La _{0.6} Sr _{0.4} MnO ₃ layer in SrTiO ₃ /La _{0.6} Sr _{0.4} MnO ₃ /SrTiO ₃ heterostructures studied by hard x-ray photoemission spectroscopy. Applied Physics Letters, 2009, 94, .	1.5	16
69	Yoshimatsu et al. Reply. Physical Review Letters, 2009, 102, .	2.9	3
70	Carrier Compensation Mechanism of Highly Conductive Anatase Ti _{0.94} Nb _{0.06} O ₂ Epitaxial Thin Films. Materials Research Society Symposia Proceedings, 2008, 1074, 1.	0.1	1
71	Origin of Metallic States at the Heterointerface between the Band Insulators LaAlO ₃ and SrTiO ₃ . Physical Review Letters, 2008, 101, 026802.	2.9	146