

Kohei Fujiwara

List of Publications by Year in descending order

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64
papers

1,228
citations

430874

18
h-index

395702

33
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64
all docs

64
docs citations

64
times ranked

1928
citing authors

#	ARTICLE	IF	CITATIONS
1	Resistance Switching and Formation of a Conductive Bridge in Metal/Binary Oxide/Metal Structure for Memory Devices. Japanese Journal of Applied Physics, 2008, 47, 6266.	1.5	146
2	Accumulation and Depletion Layer Thicknesses in Organic Field Effect Transistors. Japanese Journal of Applied Physics, 2003, 42, L1408-L1410.	1.5	105
3	5d iridium oxide as a material for spin-current detection. Nature Communications, 2013, 4, 2893.	12.8	104
4	Inhomogeneous chemical states in resistance-switching devices with a planar-type Pt/CuO/Pt structure. Applied Physics Letters, 2009, 95, .	3.3	94
5	Giant magneto-optical responses in magnetic Weyl semimetal Co ₃ Sn ₂ S ₂ . Nature Communications, 2020, 11, 4619.	12.8	92
6	Highly conductive PdCoO ₂ ultrathin films for transparent electrodes. APL Materials, 2018, 6, .	5.1	45
7	Anomalous State Sandwiched between Fermi Liquid and Charge Ordered Mott-insulating Phases of Ti_4O_7 . Physical Review Letters, 2010, 104, 106401.	7.8	29
8	Enhanced electron mobility at the two-dimensional metallic surface of BaSnO ₃ electric-double-layer transistor at low temperatures. Applied Physics Letters, 2017, 110, .	3.3	26
9	Ferromagnetic Co ₃ Sn ₂ S ₂ thin films fabricated by co-sputtering. Japanese Journal of Applied Physics, 2019, 58, 050912.	1.5	26
10	Fe-Sn nanocrystalline films for flexible magnetic sensors with high thermal stability. Scientific Reports, 2019, 9, 3282.	3.3	26
11	Critical thickness for the emergence of Weyl features in Co ₃ Sn ₂ S ₂ thin films. Communications Materials, 2021, 2, .	6.9	23
12	First-principles investigation of magnetic and transport properties in hole-doped shandite compounds Co_2S_2 . Physical Review B, 2021, 103, .	3.3	20
13	Tuning metal-insulator transition by one dimensional alignment of giant electronic domains in artificially size-controlled epitaxial VO ₂ wires. Applied Physics Letters, 2012, 101, 263111.	3.3	20
14	Nanowall-Shaped MgO Substrate with Flat (100) Sidesurface: A New Route to Three-Dimensional Functional Oxide Nanostructured Electronics. Japanese Journal of Applied Physics, 2013, 52, 015001.	1.5	20
15	Thin-film stabilization of LiNbO ₃ -type ZnSnO ₃ and MgSnO ₃ by molecular-beam epitaxy. APL Materials, 2019, 7, .	5.1	20
16	Anomalous Hall effect at the spontaneously electron-doped polar surface of $PdCo_2O_7$ ultrathin films. Physical Review Research, 2020, 2, .	3.6	20
17	Identification of Giant Mott Phase Transition of Single Electric Nanodomain in Manganite Nanowall Wire. Nano Letters, 2015, 15, 4322-4328.	9.1	19
18	Dual field effects in electrolyte-gated spinel ferrite: electrostatic carrier doping and redox reactions. Scientific Reports, 2014, 4, 5818.	3.3	18

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19	Controlled fabrication of artificial ferromagnetic (Fe,Mn) ₃ O ₄ nanowall-wires by a three-dimensional nanotemplate pulsed laser deposition method. Nanotechnology, 2012, 23, 485308.	2.6	16
20	High field-effect mobility at the (Sr,Ba)SnO ₃ /BaSnO ₃ interface. AIP Advances, 2016, 6, 085014.	1.3	16
21	Spatial Redistribution of Oxygen Ions in Oxide Resistance Switching Device after Forming Process. Japanese Journal of Applied Physics, 2010, 49, 060215.	1.5	15
22	Electric field-induced transport modulation in VO ₂ FETs with high- <i>k</i> oxide/organic parylene-C hybrid gate dielectric. Applied Physics Letters, 2016, 108, 053503.	3.3	15
23	Magnetic-field-induced topological phase transition in Fe-doped S _{1-x} Se _x thin films. Physical Review Materials, 2020, 4, .	2.4	15
24	Electric-field breakdown of the insulating charge-ordered state in LuFe ₂ O ₄ thin films. Journal Physics D: Applied Physics, 2013, 46, 155108.	2.8	14
25	Nonvolatile Transport States in Ferrite Thin Films Induced by Field-Effect Involving Redox Processes. Advanced Materials Interfaces, 2014, 1, 1300108.	3.7	14
26	Fabrication of three-dimensional epitaxial (Fe,Zn) ₃ O ₄ nanowall wire structures and their transport properties. Applied Physics Express, 2014, 7, 045201.	2.4	14
27	Formation of distorted rutile-type NbO ₂ , MoO ₂ , and WO ₂ films by reactive sputtering. Journal of Applied Physics, 2019, 125, .	2.5	14
28	V-V dimerization effects on bulk-sensitive hard x-ray photoemission spectra for Magn ⁺ Li phase vanadium oxides. Physical Review B, 2010, 81, .	3.2	13
29	Observation of rebirth of metallic paths during resistance switching of metal nanowire. Applied Physics Letters, 2013, 103, 193114.	3.3	13
30	Fermi-level tuning of the Dirac surface state in (Bi _{1-x} Sb _x) ₂ Se ₃ thin films. Journal of Physics Condensed Matter, 2018, 30, 085501.	1.8	13
31	Enhancement of superconducting transition temperature in FeSe electric-double-layer transistor with multivalent ionic liquids. Physical Review Materials, 2018, 2, .	2.4	13
32	Three dimensional nano-seeding assembly of ferromagnetic Fe/LaSrFeO ₄ nano-hetero dot array. Journal of Applied Physics, 2012, 112, 024320.	2.5	12
33	Fabrication of tetragonal FeSe ⁺ FeS alloy films with high sulfur contents by alternate deposition. Japanese Journal of Applied Physics, 2017, 56, 100308.	1.5	11
34	3D-Architected and Integrated Metal Oxide Nanostructures and Beyond Produced by Three-Dimensional Nanotemplate Pulsed Laser Deposition. E-Journal of Surface Science and Nanotechnology, 2015, 13, 279-283.	0.4	10
35	Proximate thin-film alloys BaS _{1-x} P _x O ₃ . Physical Review Materials, 2020, 4, .	3.2	10
36	Emergence of spin-orbit coupled ferromagnetic surface state derived from Zak phase in a nonmagnetic insulator FeSi. Science Advances, 2021, 7, eabj0498.	10.3	10

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37	Pulsed-laser deposition of InSe thin films for the detection of thickness-dependent bandgap modification. Applied Physics Letters, 2018, 113, .	3.3	9
38	Doping-induced enhancement of anomalous Hall coefficient in Fe-Sn nanocrystalline films for highly sensitive Hall sensors. APL Materials, 2019, 7, .	5.1	9
39	Electrical detection of the antiferromagnetic transition in MnTiO ₃ ultrathin films by spin Hall magnetoresistance. Journal of Applied Physics, 2020, 127, 103903.	2.5	8
40	Three-dimensional sensing of the magnetic-field vector by a compact planar-type Hall device. Communications Materials, 2021, 2, .	6.9	8
41	Electrode-Geometry Control of the Formation of a Conductive Bridge in Oxide Resistance Switching Devices. Applied Physics Express, 2009, 2, 081401.	2.4	7
42	Effect of the depletion region in topological insulator heterostructures for ambipolar field-effect transistors. Physical Review B, 2018, 98, .	3.2	7
43	Low-frequency noise measurements on Fe ²⁺ /Sn Hall sensors. Applied Physics Express, 2019, 12, 123001.	2.4	7
44	Robust perpendicular magnetic anisotropy of $\text{Co}_{2.4}\text{S}_2$ phase in sulfur deficient sputtered thin films. Physical Review Materials, 2021, 5, .	2.4	7
45	Two-dimensionality of metallic surface conduction in Co ₃ Sn ₂ S ₂ thin films. Communications Physics, 2021, 4, .	5.3	7
46	Unstrained Epitaxial Zn-Substituted Fe ₃ O ₄ Films for Ferromagnetic Field-Effect Transistors. Japanese Journal of Applied Physics, 2013, 52, 068002.	1.5	6
47	Estimation of dc transport dynamics in strongly correlated (La,Pr,Ca)MnO ₃ film using an insulator-metal composite model for terahertz conductivity. Applied Physics Letters, 2014, 105, .	3.3	6
48	Artificial three dimensional oxide nanostructures for high performance correlated oxide nanoelectronics. Japanese Journal of Applied Physics, 2014, 53, 05FA10.	1.5	6
49	Discrimination between gate-induced electrostatic and electrochemical characteristics in insulator-to-metal transition of manganite thin films. Applied Physics Express, 2015, 8, 073201.	2.4	6
50	High-mobility field-effect transistor based on crystalline ZnSnO ₃ thin films. AIP Advances, 2018, 8, .	1.3	6
51	In-Plane Oblique Pulsed-Laser Deposition and Its Application to the Fabrication of Metal Oxide Nanoconstrictions. Applied Physics Express, 2013, 6, 035201.	2.4	5
52	Impact of parylene-C thickness on performance of KTaO ₃ field-effect transistors with high- <i>k</i> /oxide/parylene-C hybrid gate dielectric. Journal of Applied Physics, 2016, 119, .	2.5	5
53	Stabilization of a honeycomb lattice of IrO ₆ octahedra by formation of ilmenite-type superlattices in MnTiO ₃ . Communications Materials, 2020, 1, .	6.9	5
54	Insulator-to-Metal Transition of Cr ₂ O ₃ Thin Films via Isovalent Ru ³⁺ Substitution. Chemistry of Materials, 2020, 32, 5272-5279.	6.7	5

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55	Growth control of corundum-derivative MnSnO ₃ thin films by pulsed-laser deposition. AIP Advances, 2019, 9, 035210.	1.3	4
56	Tuning scalar spin chirality in ultrathin films of the kagome-lattice ferromagnet Fe ₃ Sn. Communications Materials, 2021, 2, .	6.9	4
57	Formation of ilmenite-type single-crystalline MgTiO ₃ thin films by pulsed-laser deposition. AIP Advances, 2021, 11, .	1.3	4
58	Improving resistance change with temperature and thermal stability in Fe ₃ O ₄ films for high-temperature resistors. Applied Physics Express, 2019, 12, 011003.	2.4	3
59	Electrical switching to probe complex phases in a frustrated manganite. Solid State Communications, 2014, 187, 64-67.	1.9	1
60	Improvement of the detectivity in an Fe ²⁺ /Sn magnetic-field sensor with a large current injection. Japanese Journal of Applied Physics, 2022, 61, SC1069.	1.5	1
61	Electrostatic carrier doping of charge-ordered YbFe ₂ O ₄ thin films using ionic liquids. Applied Physics Express, 2021, 14, 083001.	2.4	0
62	Oxide Field-Effect Transistor with Polymer-Based Gate Insulator. IEEJ Transactions on Electronics, Information and Systems, 2019, 139, 207-210.	0.2	0
63	A large unidirectional magnetoresistance in Fe-Sn heterostructure devices. Japanese Journal of Applied Physics, 0, , .	1.5	0
64	<i>L</i> ₁ ordering of Co ₂ FeSn thin films promoted by high-temperature annealing. AIP Advances, 2022, 12, 065030.	1.3	0