

Masaki Uchida

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77
papers

2,120
citations

24
h-index

44
g-index

94
ext. papers

2,510
ext. citations

5
avg, IF

4.57
L-index

#	Paper	IF	Citations
77	The 2016 oxide electronic materials and oxide interfaces roadmap. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 433001	3	204
76	Candidate for the 2+ excited Hoyle state at $E \sim 10$ MeV in ^{12}C . <i>Physical Review C</i> , 2011 , 84,	2.7	163
75	Interplay of spin-orbit interactions, dimensionality, and octahedral rotations in semimetallic SrIrO_3 . <i>Physical Review Letters</i> , 2015 , 114, 016401	7.4	148
74	Atomic-scale control of competing electronic phases in ultrathin LaNiO_3 . <i>Nature Nanotechnology</i> , 2014 , 9, 443-7	28.7	140
73	Extremely high electron mobility in a phonon-glass semimetal. <i>Nature Materials</i> , 2013 , 12, 512-7	27	139
72	Electric-field control of anomalous and topological Hall effects in oxide bilayer thin films. <i>Nature Communications</i> , 2018 , 9, 213	17.4	113
71	Adsorption-controlled growth of La-doped BaSnO_3 by molecular-beam epitaxy. <i>APL Materials</i> , 2017 , 5, 116107	5.7	98
70	Direct Observation of Electrostatically Driven Band Gap Renormalization in a Degenerate Perovskite Transparent Conducting Oxide. <i>Physical Review Letters</i> , 2016 , 116, 027602	7.4	83
69	Quantum Hall states observed in thin films of Dirac semimetal CdAs. <i>Nature Communications</i> , 2017 , 8, 2274	17.4	82
68	Strain Control of Fermiology and Many-Body Interactions in Two-Dimensional Ruthenates. <i>Physical Review Letters</i> , 2016 , 116, 197003	7.4	56
67	MgZnO/ZnO heterostructures with electron mobility exceeding 1×10^6 cm^2/Vs . <i>Scientific Reports</i> , 2016 , 6, 26598	4.9	56
66	Growth of superconducting Sr_2RuO_4 thin films. <i>Applied Physics Letters</i> , 2010 , 97, 082502	3.4	56
65	Odd-parity magnetoresistance in pyrochlore iridate thin films with broken time-reversal symmetry. <i>Scientific Reports</i> , 2015 , 5, 9711	4.9	50
64	Topological Hall effect in thin films of the Heisenberg ferromagnet EuO . <i>Physical Review B</i> , 2015 , 91,	3.3	48
63	Pseudogap of metallic layered nickelate $\text{R}_{2-x}\text{Sr}_x\text{NiO}_4$ ($\text{R} = \text{Nd}, \text{Eu}$) crystals measured using angle-resolved photoemission spectroscopy. <i>Physical Review Letters</i> , 2011 , 106, 027001	7.4	42
62	Gate-tuned quantum Hall states in Dirac semimetal $(\text{Cd Zn})\text{As}$. <i>Science Advances</i> , 2018 , 4, eaar5668	14.3	31
61	Evolution of electronic correlations across the rutile, perovskite, and Ruddelsden-Popper iridates with octahedral connectivity. <i>Physical Review B</i> , 2016 , 94,	3.3	30

60	Correlated vs. conventional insulating behavior in the Jeff=12 vs. 32 bands in the layered iridate Ba ₂ IrO ₄ . <i>Physical Review B</i> , 2014 , 90,	3.3	29
59	Evidence for topologically protected surface states and a superconducting phase in [Tl ₄](Tl(1-x)Sn(x))Te ₃ using photoemission, specific heat, and magnetization measurements, and density functional theory. <i>Physical Review Letters</i> , 2014 , 112, 017002	7.4	27
58	Thermoelectric response in the incoherent transport region near Mott transition: The case study of La _{1-x} Sr _x VO ₃ . <i>Physical Review B</i> , 2011 , 83,	3.3	26
57	CLUSTER STATES IN 13C AND 11B. <i>International Journal of Modern Physics E</i> , 2008 , 17, 2071-2075	0.7	26
56	Specific heat of the S=1 spin-dimer antiferromagnet Ba ₃ Mn ₂ O ₈ in high magnetic fields. <i>Physical Review B</i> , 2005 , 72,	3.3	25
55	Evolution of Insulator-Metal Phase Transitions in Epitaxial Tungsten Oxide Films during Electrolyte-Gating. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22330-6	9.5	25
54	Topological properties and functionalities in oxide thin films and interfaces. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 143001	3	24
53	All-in-all-out magnetic domain wall conduction in a pyrochlore iridate heterointerface. <i>Physical Review B</i> , 2016 , 93,	3.3	23
52	Charge dynamics in thermally and doping induced insulator-metal transitions of (Ti _{1-x} V _x) ₂ O ₃ . <i>Physical Review Letters</i> , 2008 , 101, 066406	7.4	22
51	Molecular beam epitaxy growth of superconducting Sr ₂ RuO ₄ films. <i>APL Materials</i> , 2017 , 5, 106108	5.7	21
50	Quantized surface transport in topological Dirac semimetal films. <i>Nature Communications</i> , 2019 , 10, 25647.4	7.4	20
49	Ground-state electric quadrupole moment of Al ₃ . <i>Physical Review C</i> , 2009 , 79,	2.7	19
48	All-in-all-out magnetic domain size in pyrochlore iridate thin films as probed by local magnetotransport. <i>Applied Physics Letters</i> , 2016 , 108, 022402	3.4	19
47	Cluster states in 13C. <i>Modern Physics Letters A</i> , 2006 , 21, 2393-2401	1.3	16
46	Negative magnetoresistance suppressed through a topological phase transition in (Cd _{1-x} Zn _x) ₃ As ₂ thin films. <i>Physical Review B</i> , 2018 , 97,	3.3	14
45	Formation and Observation of a Quasi-Two-Dimensional dxy Electron Liquid in Epitaxially Stabilized Sr(2-x)La(x)TiO ₄ Thin Films. <i>Physical Review Letters</i> , 2015 , 115, 096405	7.4	13
44	Field-direction control of the type of charge carriers in nonsymmorphic IrO ₂ . <i>Physical Review B</i> , 2015 , 91,	3.3	13
43	Structural characterisation of high-mobility CdAs films crystallised on SrTiO. <i>Scientific Reports</i> , 2018 , 8, 2244	4.9	12

42	Interference Effect between π and (1520) Production Channels in the $\bar{p}-K^+K^-p$ Reaction near Threshold. <i>Physical Review Letters</i> , 2016 , 116, 232001	7.4	11
41	Molecular beam epitaxy of three-dimensionally thick Dirac semimetal Cd ₃ As ₂ films. <i>APL Materials</i> , 2019 , 7, 071109	5.7	11
40	A tunable low-energy photon source for high-resolution angle-resolved photoemission spectroscopy. <i>Review of Scientific Instruments</i> , 2012 , 83, 113103	1.7	11
39	Pseudogap-related charge dynamics in the layered nickelate R ₂ Sr _x NiO ₄ ($x \sim 1$). <i>Physical Review B</i> , 2012 , 86,	3.3	10
38	Nuclear moments of neutron-rich aluminum isotopes. <i>European Physical Journal: Special Topics</i> , 2007 , 150, 185-186	2.3	10
37	Effective carrier doping and metallization in La _x Sr _{2-x} BayrO ₄ thin films. <i>Physical Review B</i> , 2016 , 93,	3.3	9
36	Nuclear spin maser and experimental search for ¹²⁹ Xe atomic EDM. <i>Hyperfine Interactions</i> , 2013 , 220, 59-63	0.8	9
35	Orbital characters of three-dimensional Fermi surfaces in Eu ₂ Sr _x NiO ₄ as probed by soft-x-ray angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2011 , 84,	3.3	9
34	Ferromagnetic state above room temperature in a proximitized topological Dirac semimetal. <i>Physical Review B</i> , 2019 , 100,	3.3	9
33	Controlling surface carrier density by illumination in the transparent conductor La-doped BaSnO ₃ . <i>Applied Physics Letters</i> , 2018 , 112, 181603	3.4	8
32	Superconductivity in Uniquely Strained RuO ₂ Films. <i>Physical Review Letters</i> , 2020 , 125, 147001	7.4	8
31	Charge-gap formation in the insulating states of AV ₁₀ O ₁₅ (A = Ba, Sr). <i>Physical Review B</i> , 2012 , 85,	3.3	7
30	Formation of patterns from complex networks. <i>Journal of Visualization</i> , 2007 , 10, 253-255	1.6	7
29	Spin correlation parameter C _{yy} of p+He ₃ elastic backward scattering. <i>Physical Review C</i> , 2007 , 76,	2.7	7
28	All-in-all-out magnetic domain inversion in Tb ₂ Ir ₂ O ₇ with molecular fields antiparallel to external fields. <i>Physical Review Materials</i> , 2018 , 2,	3.2	7
27	Ferroelectric field control of charge density in oxide films with polarization reversal by electric double layer. <i>Applied Physics Letters</i> , 2018 , 113, 143501	3.4	7
26	Electrical conduction on the surface of ferroelectric PbTiO ₃ thin film induced by electrolyte gating. <i>Applied Physics Letters</i> , 2018 , 112, 051602	3.4	6
25	Anomalous enhancement of upper critical field in Sr ₂ RuO ₄ thin films. <i>Physical Review B</i> , 2019 , 99,	3.3	5

24	Visualizing ferroic domains in an all-in/all-out antiferromagnet thin film. <i>Physical Review B</i> , 2017 , 96,	3.3	5
23	Magnetic properties of spin frustrated spinel ZnFe ₂ O ₄ /ZnCr ₂ O ₄ superlattices. <i>Journal of Applied Physics</i> , 2015 , 118, 193901	2.5	5
22	Signatures of charge-order correlations in transport properties of electron-doped cuprate superconductors. <i>Physical Review B</i> , 2018 , 98,	3.3	5
21	Enhancement of spin-orbit coupling in Dirac semimetal Cd ₃ As ₂ films by Sb doping. <i>Physical Review B</i> , 2021 , 103,	3.3	4
20	Differential Cross Section and Photon-Beam Asymmetry for the $\bar{p} - \bar{n} \rightarrow \pi^+ \pi^+$ (1232) Reaction at Forward θ^* Angles for $E_{\bar{p}} = 1.5-2.95$ GeV. <i>Physical Review Letters</i> , 2018 , 120, 202004	7.4	4
19	Search for Alpha Inelastic Condensed State in ²⁴ Mg. <i>Few-Body Systems</i> , 2013 , 54, 93-97	1.6	3
18	ISOSPIN SYMMETRY OF $T_z = \pm 3/2 - \pm 1/2$ GAMOW-TELLER TRANSITIONS IN A = 37 AND A = 41 NUCLEI. <i>Modern Physics Letters A</i> , 2010 , 25, 1976-1979	1.3	3
17	Electric quadrupole moments of neutron-rich nuclei ³² Al and ³¹ Al. <i>Hyperfine Interactions</i> , 2007 , 180, 61-64	0.8	3
16	Optical-coupling nuclear spin maser under highly stabilized low static field. <i>Hyperfine Interactions</i> , 2008 , 181, 111-114	0.8	3
15	Alloy disorder modulated electron transport at Mg _x Zn _{1-x} O/ZnO heterointerface. <i>AIP Advances</i> , 2017 , 7, 015029	1.5	2
14	Band alignment and photovoltaic effect of epitaxial δ -PbO thin films. <i>Applied Physics Express</i> , 2015 , 8, 074001	2.4	2
13	Characterization of Sr ₂ RuO ₄ Josephson junctions made of epitaxial films. <i>Physical Review B</i> , 2020 , 101,	3.3	2
12	Ballistic transport in periodically modulated MgZnO/ZnO two-dimensional electron systems. <i>Applied Physics Letters</i> , 2019 , 115, 153101	3.4	2
11	Recent Results on Hadron Spectroscopy at Belle. <i>Few-Body Systems</i> , 2013 , 54, 947-953	1.6	2
10	Calibration and control of in-plane Mg doping distribution in Mg _x Zn _{1-x} O/ZnO heterostructures grown by molecular beam epitaxy. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 028004	1.4	2
9	STUDY OF NEUTRON-RICH NUCLEI THROUGH STATIC ELECTROMAGNETIC MOMENTS. <i>International Journal of Modern Physics E</i> , 2009 , 18, 2020-2024	0.7	2
8	$2\bar{n} + t$ cluster state in ¹¹ B. <i>Modern Physics Letters A</i> , 2006 , 21, 2383-2392	1.3	2
7	Intrinsic coupling between spatially-separated surface Fermi-arcs in Weyl orbit quantum Hall states. <i>Nature Communications</i> , 2021 , 12, 2572	17.4	1

6	Above-ordering-temperature large anomalous Hall effect in a triangular-lattice magnetic semiconductor.. <i>Science Advances</i> , 2021 , 7, eabl5381	14.3	1
5	Time-of-Propagation Counter for the LEPS. <i>IEEE Transactions on Nuclear Science</i> , 2014 , 61, 2601-2607	1.7	0
4	Molecular beam deposition of a new layered pnictide with distorted Sb square nets. <i>APL Materials</i> , 2021 , 9, 051107	5.7	0
3	Charge Dynamics in Layered Nickelates with Charge-Ordering Instability. <i>Springer Theses</i> , 2013 , 65-99	0.1	
2	Charge Dynamics in a Doped Valence-Bond Solid System. <i>Springer Theses</i> , 2013 , 43-63	0.1	
1	Epitaxially Stabilized Oxide Composed of Twisted Triangular-Lattice Layers. <i>Chemistry of Materials</i> , 2016 , 28, 1165-1169	9.6	