

Masaki Uchida

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.

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	Intrinsic coupling between spatially-separated surface Fermi-arcs in Weyl orbit quantum Hall states. <i>Nature Communications</i> , 2021 , 12, 2572	17.4	1
76	Molecular beam deposition of a new layered pnictide with distorted Sb square nets. <i>APL Materials</i> , 2021 , 9, 051107	5.7	0
75	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
74	Above-ordering-temperature large anomalous Hall effect in a triangular-lattice magnetic semiconductor.. <i>Science Advances</i> , 2021 , 7, eabl5381	14.3	1
73	Characterization of Sr ₂ RuO ₄ Josephson junctions made of epitaxial films. <i>Physical Review B</i> , 2020 , 101,	3.3	2
72	Superconductivity in Uniquely Strained RuO ₂ Films. <i>Physical Review Letters</i> , 2020 , 125, 147001	7.4	8
71	Quantized surface transport in topological Dirac semimetal films. <i>Nature Communications</i> , 2019 , 10, 25647.4	7.4	20
70	Anomalous enhancement of upper critical field in Sr ₂ RuO ₄ thin films. <i>Physical Review B</i> , 2019 , 99,	3.3	5
69	Molecular beam epitaxy of three-dimensionally thick Dirac semimetal Cd ₃ As ₂ films. <i>APL Materials</i> , 2019 , 7, 071109	5.7	11
68	Ballistic transport in periodically modulated MgZnO/ZnO two-dimensional electron systems. <i>Applied Physics Letters</i> , 2019 , 115, 153101	3.4	2
67	Ferromagnetic state above room temperature in a proximitized topological Dirac semimetal. <i>Physical Review B</i> , 2019 , 100,	3.3	9
66	Topological properties and functionalities in oxide thin films and interfaces. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 143001	3	24
65	Structural characterisation of high-mobility CdAs films crystallised on SrTiO ₃ . <i>Scientific Reports</i> , 2018 , 8, 2244	4.9	12
64	Electric-field control of anomalous and topological Hall effects in oxide bilayer thin films. <i>Nature Communications</i> , 2018 , 9, 213	17.4	113
63	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
62	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
61	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

60	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
59	Signatures of charge-order correlations in transport properties of electron-doped cuprate superconductors. <i>Physical Review B</i> , 2018 , 98,	3.3	5
58	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
57	Differential Cross Section and Photon-Beam Asymmetry for the $\bar{p}-\bar{K}^+(1232)$ 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
56	Gate-tuned quantum Hall states in Dirac semimetal (Cd Zn)As. <i>Science Advances</i> , 2018 , 4, eaar5668	14.3	31
55	Alloy disorder modulated electron transport at Mg _x Zn _{1-x} O/ZnO heterointerface. <i>AIP Advances</i> , 2017 , 7, 015029	1.5	2
54	Visualizing ferroic domains in an all-in-all-out antiferromagnet thin film. <i>Physical Review B</i> , 2017 , 96,	3.3	5
53	Molecular beam epitaxy growth of superconducting Sr ₂ RuO ₄ films. <i>APL Materials</i> , 2017 , 5, 106108	5.7	21
52	Quantum Hall states observed in thin films of Dirac semimetal CdAs. <i>Nature Communications</i> , 2017 , 8, 2274	17.4	82
51	Adsorption-controlled growth of La-doped BaSnO ₃ by molecular-beam epitaxy. <i>APL Materials</i> , 2017 , 5, 116107	5.7	98
50	Effective carrier doping and metallization in La _x Sr _{2-x} Bi ₂ IrO ₄ thin films. <i>Physical Review B</i> , 2016 , 93,	3.3	9
49	All-in-all-out magnetic domain wall conduction in a pyrochlore iridate heterointerface. <i>Physical Review B</i> , 2016 , 93,	3.3	23
48	Strain Control of Fermiology and Many-Body Interactions in Two-Dimensional Ruthenates. <i>Physical Review Letters</i> , 2016 , 116, 197003	7.4	56
47	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
46	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
45	MgZnO/ZnO heterostructures with electron mobility exceeding 1×10^6 cm ² /Vs. <i>Scientific Reports</i> , 2016 , 6, 26598	4.9	56
44	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
43	Epitaxially Stabilized Oxide Composed of Twisted Triangular-Lattice Layers. <i>Chemistry of Materials</i> , 2016 , 28, 1165-1169	9.6	

42	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
41	The 2016 oxide electronic materials and oxide interfaces roadmap. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 433001	3	204
40	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
39	Band alignment and photovoltaic effect of epitaxial PbO thin films. <i>Applied Physics Express</i> , 2015 , 8, 074001	2.4	2
38	Odd-parity magnetoresistance in pyrochlore iridate thin films with broken time-reversal symmetry. <i>Scientific Reports</i> , 2015 , 5, 9711	4.9	50
37	Topological Hall effect in thin films of the Heisenberg ferromagnet EuO. <i>Physical Review B</i> , 2015 , 91,	3.3	48
36	Formation and Observation of a Quasi-Two-Dimensional dxy Electron Liquid in Epitaxially Stabilized $\text{Sr}(2-x)\text{La}(x)\text{TiO}_4$ Thin Films. <i>Physical Review Letters</i> , 2015 , 115, 096405	7.4	13
35	Field-direction control of the type of charge carriers in nonsymmorphic IrO_2 . <i>Physical Review B</i> , 2015 , 91,	3.3	13
34	Magnetic properties of spin frustrated spinel $\text{ZnFe}_2\text{O}_4/\text{ZnCr}_2\text{O}_4$ superlattices. <i>Journal of Applied Physics</i> , 2015 , 118, 193901	2.5	5
33	Calibration and control of in-plane Mg doping distribution in $\text{Mg}_x\text{Zn}_{1-x}\text{O}/\text{ZnO}$ heterostructures grown by molecular beam epitaxy. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 028004	1.4	2
32	Interplay of spin-orbit interactions, dimensionality, and octahedral rotations in semimetallic SrIrO_3 . <i>Physical Review Letters</i> , 2015 , 114, 016401	7.4	148
31	Evidence for topologically protected surface states and a superconducting phase in $[\text{Tl}_4](\text{Tl}(1-x)\text{Sn}(x))\text{Te}_3$ using photoemission, specific heat, and magnetization measurements, and density functional theory. <i>Physical Review Letters</i> , 2014 , 112, 017002	7.4	27
30	Correlated vs. conventional insulating behavior in the Jeff=12 vs. 32 bands in the layered iridate Ba_2IrO_4 . <i>Physical Review B</i> , 2014 , 90,	3.3	29
29	Time-of-Propagation Counter for the LEPS. <i>IEEE Transactions on Nuclear Science</i> , 2014 , 61, 2601-2607	1.7	0
28	Atomic-scale control of competing electronic phases in ultrathin LaNiO_3 . <i>Nature Nanotechnology</i> , 2014 , 9, 443-7	28.7	140
27	Recent Results on Hadron Spectroscopy at Belle. <i>Few-Body Systems</i> , 2013 , 54, 947-953	1.6	2
26	Search for Alpha Inelastic Condensed State in ^{24}Mg . <i>Few-Body Systems</i> , 2013 , 54, 93-97	1.6	3
25	Extremely high electron mobility in a phonon-glass semimetal. <i>Nature Materials</i> , 2013 , 12, 512-7	27	139

24	Nuclear spin maser and experimental search for ^{129}Xe atomic EDM. <i>Hyperfine Interactions</i> , 2013 , 220, 59-63	0.8	9
23	Charge Dynamics in Layered Nickelates with Charge-Ordering Instability. <i>Springer Theses</i> , 2013 , 65-99	0.1	
22	Charge Dynamics in a Doped Valence-Bond Solid System. <i>Springer Theses</i> , 2013 , 43-63	0.1	
21	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
20	Charge-gap formation in the insulating states of $\text{AV}10\text{O}15$ ($\text{A} = \text{Ba}, \text{Sr}$). <i>Physical Review B</i> , 2012 , 85,	3.3	7
19	Pseudogap-related charge dynamics in the layered nickelate $\text{R}_2\text{Sr}_x\text{NiO}_4$ ($x \sim 1$). <i>Physical Review B</i> , 2012 , 86,	3.3	10
18	Candidate for the $2+$ excited Hoyle state at $E_x \sim 10$ MeV in ^{12}C . <i>Physical Review C</i> , 2011 , 84,	2.7	163
17	Orbital characters of three-dimensional Fermi surfaces in $\text{Eu}_2\text{Sr}_x\text{NiO}_4$ as probed by soft-x-ray angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2011 , 84,	3.3	9
16	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
15	Thermoelectric response in the incoherent transport region near Mott transition: The case study of $\text{La}_1\text{Sr}_x\text{VO}_3$. <i>Physical Review B</i> , 2011 , 83,	3.3	26
14	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
13	Growth of superconducting Sr_2RuO_4 thin films. <i>Applied Physics Letters</i> , 2010 , 97, 082502	3.4	56
12	Ground-state electric quadrupole moment of Al^{31} . <i>Physical Review C</i> , 2009 , 79,	2.7	19
11	STUDY OF NEUTRON-RICH NUCLEI THROUGH STATIC ELECTROMAGNETIC MOMENTS. <i>International Journal of Modern Physics E</i> , 2009 , 18, 2020-2024	0.7	2
10	CLUSTER STATES IN ^{13}C AND ^{11}B . <i>International Journal of Modern Physics E</i> , 2008 , 17, 2071-2075	0.7	26
9	Charge dynamics in thermally and doping induced insulator-metal transitions of $(\text{Tl}_{1-x}\text{V}_x)_2\text{O}_3$. <i>Physical Review Letters</i> , 2008 , 101, 066406	7.4	22
8	Optical-coupling nuclear spin maser under highly stabilized low static field. <i>Hyperfine Interactions</i> , 2008 , 181, 111-114	0.8	3
7	Nuclear moments of neutron-rich aluminum isotopes. <i>European Physical Journal: Special Topics</i> , 2007 , 150, 185-186	2.3	10

6	Formation of patterns from complex networks. <i>Journal of Visualization</i> , 2007 , 10, 253-255	1.6	7
5	Electric quadrupole moments of neutron-rich nuclei ^{32}Al and ^{31}Al . <i>Hyperfine Interactions</i> , 2007 , 180, 61-64	0.8	3
4	Spin correlation parameter C_{yy} of $p+\text{He}3$ elastic backward scattering. <i>Physical Review C</i> , 2007 , 76,	2.7	7
3	$2\text{H} + t$ cluster state in ^{11}B . <i>Modern Physics Letters A</i> , 2006 , 21, 2383-2392	1.3	2
2	Cluster states in ^{13}C . <i>Modern Physics Letters A</i> , 2006 , 21, 2393-2401	1.3	16
1	Specific heat of the $S=1$ spin-dimer antiferromagnet $\text{Ba}_3\text{Mn}_2\text{O}_8$ in high magnetic fields. <i>Physical Review B</i> , 2005 , 72,	3.3	25