

Yusuke Kozuka

List of Publications by Year in descending order

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papers

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citations

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97
all docs

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docs citations

97
times ranked

5270
citing authors

#	ARTICLE	IF	CITATIONS
1	Competing correlated states around the zero-field Wigner crystallization transition of electrons in two dimensions. <i>Nature Materials</i> , 2022, 21, 311-316.	27.5	25
2	Ensemble spin relaxation of shallow donor qubits in ZnO. <i>Physical Review B</i> , 2022, 105, .	3.2	4
3	Wide modulation of coercive fields in Mn4N ferrimagnetic thin films caused dominantly by dislocation microstructures. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 560, 169642.	2.3	7
4	Interplay of spin-orbit coupling and Coulomb interaction in ZnO-based electron system. <i>Nature Communications</i> , 2021, 12, 3180.	12.8	16
5	Observation of Nonlinear Spin-Charge Conversion in the Thin Film of Nominally Centrosymmetric Dirac Semimetal SrIrO_3 at Room Temperature. <i>Physical Review Letters</i> , 2021, 126, 236801.	7.8	11
6	Negative correlation between the linear and the nonlinear conductance in magnetic tunnel junctions. <i>Physical Review B</i> , 2021, 103, .	3.2	4
7	Deterministic Influence of Substrate-Induced Oxygen Vacancy Diffusion on Bi_2WO_6 Thin Film Growth. <i>Crystal Growth and Design</i> , 2021, 21, 625-630.	3.0	9
8	Efficient current-driven magnetization switching owing to isotropic magnetism in a highly symmetric 111-oriented Mn4N epitaxial single layer. <i>AIP Advances</i> , 2021, 11, .	1.3	10
9	Multiple modes of a single spin torque oscillator under the non-linear region. <i>AIP Advances</i> , 2020, 10, .	1.3	0
10	Current scaling of the topological quantum phase transition between a quantum anomalous Hall insulator and a trivial insulator. <i>Physical Review B</i> , 2020, 102, .	3.2	10
11	Generation of multippeak spectrum of spin torque oscillator in non-linear regime. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	2
12	Microwave response of interacting oxide two-dimensional electron systems. <i>Physical Review B</i> , 2020, 102, .	3.2	3
13	Ballistic transport in periodically modulated MgZnO/ZnO two-dimensional electron systems. <i>Applied Physics Letters</i> , 2019, 115, 153101.	3.3	6
14	Anomalous enhancement of upper critical field in SrTiO_3 thin films. <i>Physical Review B</i> , 2019, 99, .	3.2	9
15	Quantized conductance of one-dimensional strongly correlated electrons in an oxide heterostructure. <i>Physical Review B</i> , 2019, 99, .	3.2	3
16	Publisher's Note: Topological spin-hedgehog crystals of a chiral magnet as engineered with magnetic anisotropy [Phys. Rev. B 96, 220414(R) (2017)]. <i>Physical Review B</i> , 2019, 99, .	3.2	0
17	Structural characterisation of high-mobility Cd3As2 films crystallised on SrTiO3. <i>Scientific Reports</i> , 2018, 8, 2244.	3.3	18
18	Electric-field control of anomalous and topological Hall effects in oxide bilayer thin films. <i>Nature Communications</i> , 2018, 9, 213.	12.8	152

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19	Andreev Reflection at the Interface with an Oxide in the Quantum Hall Regime. Journal of the Physical Society of Japan, 2018, 87, 124712.	1.6	8
20	A cascade of phase transitions in an orbitally mixed half-filled Landau level. Science Advances, 2018, 4, eaat8742.	10.3	27
21	Coherence Properties of Shallow Donor Qubits in ZnO . Physical Review Applied, 2018, 10, .	3.8	21
22	Ferroelectric field control of charge density in oxide films with polarization reversal by electric double layer. Applied Physics Letters, 2018, 113, .	3.3	8
23	Composite fermion liquid to Wigner solid transition in the lowest Landau level of zinc oxide. Nature Communications, 2018, 9, 4356.	12.8	11
24	Topological quantum phase transition in magnetic topological insulator upon magnetization rotation. Physical Review B, 2018, 98, .	3.2	23
25	Gate-tuned quantum Hall states in Dirac semimetal $(Cd_{1-x}Zn_x)Te$. Physical Review Letters, 2018, 121, 077201.	10.3	48
26	Electrical conduction on the surface of ferroelectric PbTiO ₃ thin film induced by electrolyte gating. Applied Physics Letters, 2018, 112, .	3.3	7
27	Negative magnetoresistance suppressed through a topological phase transition in $CdTe$ thin films. Physical Review B, 2018, 97, .	3.2	12
28	All-in-all-out magnetic domain inversion in $TbMnO_3$ with molecular fields antiparallel to external fields. Physical Review Materials, 2018, 2, .	2.4	12
29	Hall field-induced resistance oscillations in MgZnO/ZnO heterostructures. Physical Review B, 2017, 95, .	3.2	12
30	A magnetic heterostructure of topological insulators as a candidate for an axion insulator. Nature Materials, 2017, 16, 516-521.	27.5	276
31	Observation of anomalous Hall effect in a non-magnetic two-dimensional electron system. Nature Communications, 2017, 8, 14777.	12.8	35
32	Alloy disorder modulated electron transport at Mg _x Zn _{1-x} O/ZnO heterointerface. AIP Advances, 2017, 7, 015029.	1.3	2
33	Nonlinear response of a MgZnO/ZnO heterostructure close to zero bias. Physical Review B, 2017, 96, .	3.2	1
34	Visualizing ferroic domains in an all-in-all-out antiferromagnet thin film. Physical Review B, 2017, 96, .	3.2	5
35	Topological spin-hedgehog crystals of a chiral magnet as engineered with magnetic anisotropy. Physical Review B, 2017, 96, .	3.2	25
36	Quantum Hall states observed in thin films of Dirac semimetal Cd ₃ As ₂ . Nature Communications, 2017, 8, 2274.	12.8	130

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37	Observation of the quantum Hall effect in $\hat{\nu}$ -doped SrTiO ₃ . Nature Communications, 2016, 7, 11631.	12.8	62
38	All-in-all-out magnetic domain size in pyrochlore iridate thin films as probed by local magnetotransport. Applied Physics Letters, 2016, 108, .	3.3	23
39	Epitaxially Stabilized Oxide Composed of Twisted Triangular-Lattice Layers. Chemistry of Materials, 2016, 28, 1165-1169.	6.7	2
40	Evolution of Insulator–Metal Phase Transitions in Epitaxial Tungsten Oxide Films during Electrolyte-Gating. ACS Applied Materials & Interfaces, 2016, 8, 22330-22336.	8.0	32
41	Direct observation of anisotropic magnetic field response of the spin helix in FeGe thin films. Physical Review B, 2016, 94, .	3.2	24
42	Observation of microwave induced resistance and photovoltage oscillations in MgZnO/ZnO heterostructures. Physical Review B, 2016, 93, .	3.2	30
43	Effective carrier doping and metallization in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \rangle \text{La} \langle / \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{S} \langle / \text{mml:mi} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:math} \rangle$ Physical Review B, 2016, 93, .	3.2	30
44	All-in-all-out magnetic domain wall conduction in a pyrochlore iridate heterointerface. Physical Review B, 2016, 93, .	3.2	26
45	MgZnO/ZnO heterostructures with electron mobility exceeding $1 \times 10^6 \text{ cm}^2/\text{Vs}$. Scientific Reports, 2016, 6, 26598.	3.3	71
46	Topological Hall effect in thin films of the Heisenberg ferromagnet EuO. Physical Review B, 2015, 91, .	3.2	63
47	Spin-Selective Electron Quantum Transport in Nonmagnetic $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{MgZnO} \langle / \text{mml:mi} \rangle \langle \text{mml:mo} \rangle / \langle / \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{ZnO} \langle / \text{mml:mi} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:math} \rangle$ Physical Review Letters, 2015, 115, 197601.	7.8	12
48	Field-direction control of the type of charge carriers in nonsymmorphic $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:msub} \langle \text{mml:mi} \rangle \text{IrO} \langle / \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle / \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:mi} \rangle \text{O} \langle / \text{mml:mi} \rangle \langle / \text{mml:msub} \rangle \langle / \text{mml:math} \rangle$ Physical Review B, 2015, 91, .	3.2	12
49	Magnetic properties of spin frustrated spinel ZnFe ₂ O ₄ /ZnCr ₂ O ₄ superlattices. Journal of Applied Physics, 2015, 118, 193901.	2.5	12
50	Magnetic modulation doping in topological insulators toward higher-temperature quantum anomalous Hall effect. Applied Physics Letters, 2015, 107, .	3.3	260
51	Formation of In-plane Skyrmions in Epitaxial MnSi Thin Films as Revealed by Planar Hall Effect. Journal of the Physical Society of Japan, 2015, 84, 104708.	1.6	40
52	Thermal Generation of Spin Current in an Antiferromagnet. Physical Review Letters, 2015, 115, 266601.	7.8	223
53	Microwave magnetoplasma resonances of two-dimensional electrons in MgZnO/ZnO heterojunctions. Physical Review B, 2015, 91, .	3.2	22
54	Calibration and control of in-plane Mg doping distribution in Mg _x Zn _{1-x} O/ZnO heterostructures grown by molecular beam epitaxy. Japanese Journal of Applied Physics, 2015, 54, 028004.	1.5	2

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55	Discretized topological Hall effect emerging from skyrmions in constricted geometry. Physical Review B, 2015, 91, .	3.2	84
56	Band alignment and photovoltaic effect of epitaxial $\hat{\pm}$ -PbO thin films. Applied Physics Express, 2015, 8, 074001.	2.4	3
57	Odd-parity magnetoresistance in pyrochlore iridate thin films with broken time-reversal symmetry. Scientific Reports, 2015, 5, 9711.	3.3	68
58	Even-denominator fractional quantum Hall physics in ZnO. Nature Physics, 2015, 11, 347-351.	16.7	138
59	Quantum Hall effect on top and bottom surface states of topological insulator $(\text{Bi}\hat{1}\hat{x}\text{Sbx})_2\text{Te}_3$ films. Nature Communications, 2015, 6, 6627.	12.8	154
60	Optical probing of MgZnO/ZnO heterointerface confinement potential energy levels. Applied Physics Letters, 2015, 106, .	3.3	23
61	Electron scattering times in ZnO based polar heterostructures. Applied Physics Letters, 2015, 107, .	3.3	36
62	Polarization-dependent Landau level crossing in a two-dimensional electron system in a MgZnO/ZnO heterostructure. Physical Review B, 2014, 90, .	3.2	26
63	Enhanced quantum oscillatory magnetization and nonequilibrium currents in an interacting two-dimensional electron system in MgZnO/ZnO with repulsive scatterers. Physical Review B, 2014, 89, .	3.2	0
64	Electric double layer transistors with ferroelectric BaTiO ₃ channels. Applied Physics Letters, 2014, 104, .	3.3	11
65	Air-gap gating of MgZnO/ZnO heterostructures. Journal of Applied Physics, 2014, 116, 084310.	2.5	2
66	Spontaneous polarization driven Mg concentration profile reconstruction in MgZnO/ZnO heterostructures. Applied Physics Letters, 2014, 104, 242112.	3.3	3
67	Photoinduced sign inversion of the anomalous Hall effect in EuO thin films. Physical Review B, 2014, 89, .	3.2	7
68	Challenges and opportunities of ZnO-related single crystalline heterostructures. Applied Physics Reviews, 2014, 1, 011303.	11.3	118
69	Stability of two-dimensional skyrmions in thin films of Mn $\langle \text{mml:math} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \hat{\wedge} \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle x \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle \text{Fe} \langle \text{mml:math} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \hat{\wedge} \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle x \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle \text{Si}$ investigated by the topological Hall effect. Physical Review B, 2014, 89, .	3.2	73
70	Trajectory of the anomalous Hall effect towards the quantized state in a ferromagnetic topological insulator. Nature Physics, 2014, 10, 731-736.	16.7	517
71	Observation of plasma and magnetoplasma resonances of two-dimensional electrons in a single MgZnO/ZnO heterojunction. JETP Letters, 2013, 98, 223-226.	1.4	2
72	Rashba spin-orbit interaction in a Mg $\langle \text{mml:math} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \hat{\wedge} \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle x \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle \text{Zn} \langle \text{mml:math} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \hat{\wedge} \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle x \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle \text{O/ZnO}$ two-dimensional electron gas studied by electrically detected electron spin resonance. Physical Review B, 2013, 87, .	3.2	25

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73	Charge-spin-coupled electrical transport properties in EuMoO ₃ /SrTiO ₃ Single-valley quantum Hall ferromagnet in a dilute Mg-doped ZnO heterostructure. Physical Review B, 2012, 85, .	3.2	4
74	Intrinsic spin-orbit coupling in superconducting doped SrTiO ₃ . Physical Review B, 2012, 85, .	3.2	36
75	Temperature-Dependent Magnetotransport around ZnO Heterostructures. Physical Review Letters, 2012, 108, 186803.	3.2	49
76	High Crystallinity CuScO ₂ Delafossite Films Exhibiting Ultraviolet Photoluminescence Grown by Vapor-Liquid-Solid Tri-phase Epitaxy. Applied Physics Express, 2012, 5, 011201.	7.8	31
77	Correlation-Enhanced Effective Mass of Two-Dimensional Electrons in ZnO/ZnO Heterostructures. Physical Review Letters, 2012, 109, 246401.	2.4	3
78	Epitaxially Stabilized EuMoO ₃ : A New Itinerant Ferromagnet. Chemistry of Materials, 2012, 24, 3746-3750.	6.7	21
79	Ultrafast optical control of magnetization in EuO thin films. Physical Review B, 2012, 86, .	3.2	14
80	Precise calibration of Mg concentration in Mg _x Zn _{1-x} O thin films grown on ZnO substrates. Journal of Applied Physics, 2012, 112, .	2.5	16
81	Magnesium Doping Controlled Density and Mobility of Two-Dimensional Electron Gas in Mg _x Zn _{1-x} O/ZnO Heterostructures. Applied Physics Express, 2011, 4, 091101.	2.4	72
82	Magnetic and electronic properties of ordered double-perovskite La ₂ VMnO ₇ of common origin of the circular-dichroism pattern in angle-resolved photoemission spectroscopy. Physical Review B, 2011, 84, .	3.2	28
83	Mg _x Cu _{1-x} Bi ₂ Superconductivity in Low-Density High-Mobility Fermi Surface and Superconductivity in Low-Density High-Mobility Fermi Surface and Superconductivity in Low-Density High-Mobility Fermi Surface. Physical Review Letters, 2011, 107, 070701.	7.8	33
84	Mg _x Zn _{1-x} O/ZnO Heterostructures. Physical Review Letters, 2011, 107, 106801.	3.2	29
85	Doped SrTiO ₃ . Physical Review Letters, 2011, 107, 106801.	7.8	46
86	Enhancing the electron mobility via delta-doping in SrTiO ₃ . Applied Physics Letters, 2010, 97, .	3.3	52
87	Dramatic mobility enhancements in doped SrTiO ₃ thin films by defect management. Applied Physics Letters, 2010, 97, .	3.3	88
88	Dominant Mobility Modulation by the Electric Field Effect at the LaAlO ₃ /SrTiO ₃ Interface. Physical Review Letters, 2009, 103, 226802.	7.8	246
89	Two-dimensional normal-state quantum oscillations in a superconducting heterostructure. Nature, 2009, 462, 487-490.	27.8	222

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91	Vanishing Hall Coefficient in the Extreme Quantum Limit in Photocarrier-Doped SrTiO_3 . Physical Review Letters, 2008, 101, 096601.	7.8	25
92	Characterization of the Schottky barrier in $\text{SrRuO}_3\hat{\cdot}\text{Nb}:\text{SrTiO}_3$ junctions. Applied Physics Letters, 2007, 90, 143507.	3.3	71
93	Temperature-dependent polarity reversal in $\text{Au}/\text{Nb}:\text{SrTiO}_3/\text{Schottky}$ junctions. Applied Physics Letters, 2007, 90, 143507.	3.2	52
94	Optically tuned dimensionality crossover in photocarrier-doped SrTiO_3 . Physical Review B, 2007, 76, .	3.2	27
95	Rectifying $\text{NdNiO}_3\hat{\cdot}\text{Nb}:\text{SrTiO}_3$ junctions as a probe of the surface electronic structure of NdNiO_3 . Applied Physics Letters, 2006, 88, 142111.	3.3	17