

Shinobu Ohya

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.

73
papers

1,243
citations

19
h-index

32
g-index

82
ext. papers

1,397
ext. citations

5.5
avg, IF

4.52
L-index

#	Paper	IF	Citations
73	Theoretical analysis of the inverse Edelstein effect at the LaAlO ₃ /SrTiO ₃ interface with an effective tight-binding model: important role of the second d _{xy} subband. <i>Applied Physics Express</i> , 2022 , 15, 013005 ⁴	2.4	0
72	Spin-orbit torque magnetization switching in a perpendicularly magnetized full Heusler alloy Co ₂ FeSi. <i>AIP Advances</i> , 2021 , 11, 115014	1.5	0
71	Thickness-dependent quantum transport of Weyl fermions in ultra-high-quality SrRuO ₃ films. <i>Applied Physics Letters</i> , 2021 , 118, 092408	3.4	9
70	Structural and transport properties of highly Ru-deficient SrRu _{0.7} O ₃ thin films prepared by molecular beam epitaxy: Comparison with stoichiometric SrRuO ₃ . <i>AIP Advances</i> , 2021 , 11, 035226	1.5	5
69	Unconventional bias dependence of tunnel magnetoresistance induced by the Coulomb blockade effect. <i>AIP Advances</i> , 2021 , 11, 125029	1.5	
68	Suppression of the field-like torque for efficient magnetization switching in a spin-orbit ferromagnet. <i>Nature Electronics</i> , 2020 , 3, 751-756	28.4	9
67	High-Mobility 2D Hole Gas at a SrTiO Interface. <i>Advanced Materials</i> , 2020 , 32, e1906003	24	10
66	Temperature dependence of magnetic anisotropy in heavily Fe-doped ferromagnetic semiconductor (Ga,Fe)Sb. <i>Journal of Applied Physics</i> , 2020 , 127, 023904	2.5	3
65	Efficient intrinsic spin-to-charge current conversion in an all-epitaxial single-crystal perovskite-oxide heterostructure of La _{0.67} Sr _{0.33} MnO ₃ /LaAlO ₃ /SrTiO ₃ . <i>Physical Review Research</i> , 2020 , 2,	3.9	14
64	Room-temperature perpendicular magnetic anisotropy of Pt/Co/AlO _x trilayers on SrTiO ₃ (001). <i>AIP Advances</i> , 2020 , 10, 105010	1.5	
63	Direct observation of the magnetic ordering process in the ferromagnetic semiconductor Ga _{1-x} Mn _x As via soft x-ray magnetic circular dichroism. <i>Journal of Applied Physics</i> , 2020 , 128, 213902	2.5	1
62	Large tunnel magnetoresistance in a fully epitaxial double-barrier magnetic tunnel junction of Fe/MgO/Fe/Al ₂ O ₃ /Nb-doped SrTiO ₃ . <i>AIP Advances</i> , 2020 , 10, 085115	1.5	3
61	Enhancement of the Spin Hall Angle by Interdiffusion of Atoms in Co ₂ FeAl _{0.5} Si _{0.5} /n-Ge Heterostructures. <i>Physical Review Applied</i> , 2020 , 14,	4.3	3
60	Ferromagnetic resonance and control of magnetic anisotropy by epitaxial strain in the ferromagnetic semiconductor (Ga _{0.8} ,Fe _{0.2})Sb at room temperature. <i>Physical Review B</i> , 2019 , 99,	3.3	17
59	Efficient full spin-orbit torque switching in a single layer of a perpendicularly magnetized single-crystalline ferromagnet. <i>Nature Communications</i> , 2019 , 10, 2590	17.4	35
58	Evidence for Spin-Triplet Electron Pairing in the Proximity-Induced Superconducting State of an Fe-Doped InAs Semiconductor. <i>Physical Review Letters</i> , 2019 , 122, 107001	7.4	6
57	Room-temperature side-gate-induced current modulation in a magnetic tunnel junction with an oxide-semiconductor barrier for vertical spin MOSFET operation. <i>Applied Physics Express</i> , 2019 , 12, 023009 ⁴	2.4	4

56	Large terahertz magnetization response in ferromagnetic nanoparticles. <i>Applied Physics Letters</i> , 2019 , 114, 062402	3-4	4
55	In-plane to perpendicular magnetic anisotropy switching in heavily-Fe-doped ferromagnetic semiconductor (Ga,Fe)Sb with high Curie temperature. <i>Physical Review Materials</i> , 2019 , 3,	3-2	10
54	Quantum size effect in an Fe quantum well detected by resonant tunneling carriers injected from a p-type Ge semiconductor electrode. <i>Applied Physics Letters</i> , 2018 , 112, 152402	3-4	4
53	Large spin-valve effect in a lateral spin-valve device based on ferromagnetic semiconductor GaMnAs. <i>Applied Physics Express</i> , 2018 , 11, 033003	2-4	3
52	Improved performance of a GaMnAs-based vertical spin electric double-layer transistor. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 090301	1-4	2
51	Intrinsic transmission magnetic circular dichroism spectra of GaMnAs. <i>AIP Advances</i> , 2018 , 8, 035009	1-5	2
50	Large current modulation and tunneling magnetoresistance change by a side-gate electric field in a GaMnAs-based vertical spin metal-oxide-semiconductor field-effect transistor. <i>Scientific Reports</i> , 2018 , 8, 7195	4-9	6
49	Ultrafast magnetization modulation induced by the electric field component of a terahertz pulse in a ferromagnetic-semiconductor thin film. <i>Scientific Reports</i> , 2018 , 8, 6901	4-9	4
48	Proximity-Induced Superconductivity in a Ferromagnetic Semiconductor (In,Fe)As. <i>Journal of Physics: Conference Series</i> , 2018 , 969, 012036	0-3	3
47	Artificial control of the bias-voltage dependence of tunnelling-anisotropic magnetoresistance using quantization in a single-crystal ferromagnet. <i>Nature Communications</i> , 2017 , 8, 15387	17-4	8
46	Origin of the large positive magnetoresistance of Ge _{1-x} Mnx granular thin films. <i>Physical Review B</i> , 2017 , 95,	3-3	8
45	Observation of the inverse spin Hall effect in the topological crystalline insulator SnTe using spin pumping. <i>Physical Review B</i> , 2017 , 96,	3-3	8
44	Hidden peculiar magnetic anisotropy at the interface in a ferromagnetic perovskite-oxide heterostructure. <i>Scientific Reports</i> , 2017 , 7, 8715	4-9	4
43	Magnetic anisotropy control by applying an electric field to the side surface of ferromagnetic films. <i>Scientific Reports</i> , 2017 , 7, 5618	4-9	14
42	Reduction of the magnetic dead layer and observation of tunneling magnetoresistance in La _{0.67} Sr _{0.33} MnO ₃ -based heterostructures with a LaMnO ₃ layer. <i>Applied Physics Letters</i> , 2017 , 110, 212406	2-4	8
41	Fe concentration dependence of tunneling magnetoresistance in magnetic tunnel junctions using group-IV ferromagnetic semiconductor GeFe. <i>AIP Advances</i> , 2017 , 7, 105202	1-5	1
40	Tunneling magnetoresistance in trilayer structures composed of group-IV-based ferromagnetic semiconductor Ge _{1-x} Fex, MgO, and Fe. <i>Applied Physics Express</i> , 2016 , 9, 123001	2-4	3
39	Electronic structure near the Fermi level in the ferromagnetic semiconductor GaMnAs studied by ultrafast time-resolved light-induced reflectivity measurements. <i>Physical Review B</i> , 2016 , 93,	3-3	8

38	Spin-dependent transport and current modulation in a current-in-plane spin-valve field-effect transistor. <i>Applied Physics Letters</i> , 2016 , 109, 152403	3.4	2
37	Sudden restoration of the band ordering associated with the ferromagnetic phase transition in a semiconductor. <i>Nature Communications</i> , 2016 , 7, 12013	17.4	14
36	Room-temperature local ferromagnetism and its nanoscale expansion in the ferromagnetic semiconductor Ge(1-x)Fex. <i>Scientific Reports</i> , 2016 , 6, 23295	4.9	14
35	Intrinsic magneto-optical spectra of GaMnAs. <i>Applied Physics Letters</i> , 2015 , 106, 222406	3.4	6
34	Spin-dependent transport properties of a GaMnAs-based vertical spin metal-oxide-semiconductor field-effect transistor structure. <i>Applied Physics Letters</i> , 2015 , 107, 242401	3.4	20
33	Electronic excitations of a magnetic impurity state in the diluted magnetic semiconductor (Ga,Mn)As. <i>Physical Review Letters</i> , 2014 , 112, 107203	7.4	16
32	Unveiling the impurity band induced ferromagnetism in the magnetic semiconductor (Ga,Mn)As. <i>Physical Review B</i> , 2014 , 89,	3.3	63
31	Recent progress in III-V based ferromagnetic semiconductors: Band structure, Fermi level, and tunneling transport. <i>Applied Physics Reviews</i> , 2014 , 1, 011102	17.3	77
30	Annealing-induced enhancement of ferromagnetism and nanoparticle formation in the ferromagnetic semiconductor GeFe. <i>Physical Review B</i> , 2014 , 90,	3.3	13
29	Important role of the non-uniform Fe distribution for the ferromagnetism in group-IV-based ferromagnetic semiconductor GeFe. <i>Journal of Applied Physics</i> , 2014 , 116, 173906	2.5	9
28	Anomalous Fermi level behavior in GaMnAs at the onset of ferromagnetism. <i>Applied Physics Letters</i> , 2013 , 103, 032411	3.4	15
27	Magnetoresistance enhanced by inelastic cotunneling in a ferromagnetic MnAs nanoparticle sandwiched by nonmagnetic electrodes. <i>Journal of Applied Physics</i> , 2012 , 111, 063716	2.5	2
26	Valence-band structure of ferromagnetic semiconductor (In,Ga,Mn)As. <i>Physical Review B</i> , 2012 , 86,	3.3	19
25	Spin-dependent tunneling transport in a ferromagnetic GaMnAs and un-doped GaAs double-quantum-well heterostructure. <i>Applied Physics Letters</i> , 2012 , 100, 162409	3.4	8
24	Nearly non-magnetic valence band of the ferromagnetic semiconductor GaMnAs. <i>Nature Physics</i> , 2011 , 7, 342-347	16.2	107
23	Long spin-relaxation time in a single metal nanoparticle. <i>Nature Nanotechnology</i> , 2010 , 5, 593-6	28.7	44
22	Quantum-level control in a III V -based ferromagnetic-semiconductor heterostructure with a GaMnAs quantum well and double barriers. <i>Applied Physics Letters</i> , 2010 , 96, 052505	3.4	14
21	Valence-band structure of the ferromagnetic semiconductor GaMnAs studied by spin-dependent resonant tunneling spectroscopy. <i>Physical Review Letters</i> , 2010 , 104, 167204	7.4	40

20	Single-Crystalline Ferromagnetic Alloy Semiconductor Ge _{1-x} Mn _x Grown on Ge(111). <i>Applied Physics Express</i> , 2010 , 3, 123002	2.4	7
19	In-Plane Uniaxial Magnetic Anisotropy of [(In _y Ga _{1-y}) _{1-x} Mn _x]As Characterized by Planar Hall Effect. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 023001	1.4	
18	Electromotive force and huge magnetoresistance in magnetic tunnel junctions. <i>Nature</i> , 2009 , 458, 489-930.4	30.4	146
17	GaMnAs-based magnetic tunnel junctions with an AlMnAs barrier. <i>Applied Physics Letters</i> , 2009 , 95, 242503	3	26
16	Chapter 11 Properties and Functionalities of MnAs/III-V Hybrid and Composite Structures. <i>Semiconductors and Semimetals</i> , 2008 , 82, 455-485	0.6	
15	Spin-valve effect by ballistic transport in ferromagnetic metal (MnAs)/semiconductor (GaAs) hybrid heterostructures. <i>Physical Review B</i> , 2008 , 77,	3.3	16
14	Nature of magnetic coupling between Mn ions in As-grown Ga _{1-x} Mn _x As studied by X-ray magnetic circular dichroism. <i>Physical Review Letters</i> , 2008 , 100, 247202	7.4	38
13	Planar Hall Effect and Magnetic Anisotropy in a Mn Doped GaAs/p-AlGaAs Heterostructure. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2008 , 3, 394-398	1	
12	Magnetic properties of MnAs nanoclusters embedded in a GaAs semiconductor matrix. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, 1932-1934	2.8	23
11	Properties of Heavily Mn-doped GaMnAs with Curie Temperature of 172.5 K. <i>Journal of Superconductivity and Novel Magnetism</i> , 2007 , 20, 417-420	1.5	10
10	Magneto-optical and magnetotransport properties of heavily Mn-doped GaMnAs. <i>Applied Physics Letters</i> , 2007 , 90, 112503	3.4	56
9	Quantum size effect and tunneling magnetoresistance in ferromagnetic-semiconductor quantum heterostructures. <i>Physical Review B</i> , 2007 , 75,	3.3	56
8	Spin-dependent transport properties in GaMnAs-based spin hot-carrier transistors. <i>Applied Physics Letters</i> , 2007 , 90, 162505	3.4	18
7	Tunneling magnetoresistance of MnAs thin film/GaAs/AlAs/GaAs:MnAs nanoclusters and its AlAs barrier thickness dependence. <i>Applied Physics Letters</i> , 2006 , 89, 242106	3.4	21
6	Resonant tunneling effect and tunneling magnetoresistance in GaMnAs quantum-well double-barrier heterostructures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006 , 3, 4184-4187 ⁹		
5	Spin polarized tunneling in III-V-based heterostructures with a ferromagnetic MnAs thin film and GaAs:MnAs nanoclusters. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006 , 32, 416-418	3	19
4	Tunneling magnetoresistance in GaMnAs/AlAs/GaAs/AlAs/GaMnAs double-barrier magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2005 , 87, 012105	3.4	29
3	Magneto-optical properties and Curie temperature of heavily Mn-doped quaternary alloy ferromagnetic semiconductor (InGaMn)As grown on InP. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 21, 975-977	3	

- 2 Magnetic properties of heavily Mn-doped quaternary alloy ferromagnetic semiconductor (InGaMn)As grown on InP. *Applied Physics Letters*, **2003**, 83, 2175-2177 3-4 4¹
- 1 Growth and Properties of Quaternary Alloy Magnetic Semiconductor (InGaMn)As. *Japanese Journal of Applied Physics*, **2002**, 41, L24-L27 1-4 21