

Ssu-Yen Huang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/446620/publications.pdf>

Version: 2024-02-01

56
papers

2,376
citations

361045

20
h-index

197535

49
g-index

56
all docs

56
docs citations

56
times ranked

2145
citing authors

#	ARTICLE	IF	CITATIONS
1	Transport Magnetic Proximity Effects in Platinum. Physical Review Letters, 2012, 109, 107204.	2.9	434
2	Inverse Spin Hall Effect in a Ferromagnetic Metal. Physical Review Letters, 2013, 111, 066602.	2.9	265
3	Intrinsic Spin Seebeck Effect in $\text{Au}/\text{Pt}/\text{YIG}$. Physical Review Letters, 2013, 110, 067206.	2.9	246
4	Intrinsic Spin-Dependent Thermal Transport. Physical Review Letters, 2011, 107, 216604.	2.9	231
5	Pt Magnetic Polarization on $\text{Y}_3\text{Fe}_5\text{O}_{12}$ and Mn_2Sb . Physical Review Letters, 2013, 110, 147207.	2.9	200
6	Physical Origins of the New Magnetoresistance in Pt/YIG . Physical Review Letters, 2014, 112, 236601.	2.9	117
7	Absence of Evidence of Electrical Switching of the Antiferromagnetic Néel Vector. Physical Review Letters, 2019, 123, 227203.	2.9	105
8	Hybrid magnetoresistance in the proximity of a ferromagnet. Physical Review B, 2013, 87, .	1.1	90
9	Self-consistent determination of spin Hall angles in selected metals by thermal spin injection. Physical Review B, 2014, 89, .		87
10	Enhancement of the anomalous Nernst effect in ferromagnetic thin films. Physical Review B, 2017, 96, .	1.1	77
11	Inverse spin Hall effect in Cr: Independence of antiferromagnetic ordering. Physical Review B, 2015, 92, .	1.1	64
12	Manipulation of pure spin current in ferromagnetic metals independent of magnetization. Physical Review B, 2016, 94, .	1.1	53
13	Electrical detection of direct and alternating spin current injected from a ferromagnetic insulator into a ferromagnetic metal. Physical Review B, 2014, 89, .	1.1	42
14	Absence of anomalous Nernst effect in spin Seebeck effect of Pt/YIG. AIP Advances, 2016, 6, .	0.6	37
15	Inverse spin Hall effect in $\text{Au}/\text{Pt}/\text{YIG}$. Physical Review Letters, 2013, 110, 067206.	1.1	26
16	Robust spin current generated by the spin Seebeck effect. Physical Review Materials, 2017, 1, .	0.9	24
17	Incoherent spin pumping from YIG single crystals. Physical Review B, 2019, 99, .	1.1	23
18	Absence of the Thermal Hall Effect in Anomalous Nernst and Spin Seebeck Effects. Physical Review Letters, 2016, 117, 247201.	2.9	20

#	ARTICLE	IF	CITATIONS
19	Linear magnetization between surface and bulk $Y ₃F _e ₅L$ Longitudinal spin Seebeck effect in a half-metallic http://www.w3.org/1998/Math/MathML	1.1	20
20	Enhancing Thermoelectric Properties of 2D Bi ₂ Se ₃ by 1D Texturing with Graphene. ACS Applied Energy Materials, 2019, 2, 8411-8415.	1.1	20
21	Pure spin current phenomena. Applied Physics Letters, 2020, 117, .	2.5	15
22	Magnetization-dependent spin Hall effect in a perpendicular magnetized film. Physical Review Research, 2020, 2, .	1.5	15
23	Demonstration of edge roughness effect on the magnetization reversal of spin valve submicron wires. Applied Physics Letters, 2010, 97, 022109.	1.3	12
24	Two-dimensional to three-dimensional crossover and magnetic penetration depth study in NbTi/Co multilayers. Journal of Applied Physics, 2001, 89, 7493-7495.	1.5	11
25	Two-Dimensional Mechano-thermoelectric Heterojunctions for Self-Powered Strain Sensors. Nano Letters, 2021, 21, 6990-6997.	1.1	10
26	Spectra broadening of point-contact Andreev reflection measurement on GaMnAs. Journal of Applied Physics, 2009, 105, .	4.5	10
27	Room-temperature Ferromagnetism of Single-layer MoS ₂ Induced by Antiferromagnetic Proximity of Yttrium Iron Garnet. Advanced Quantum Technologies, 2021, 4, 2000104.	1.1	9
28	Exploiting Spin Fluctuations for Enhanced Pure Spin Current. Physical Review Letters, 2022, 128, .	1.8	9
29	Quantitative analysis of interface resistance in Co/Nb multilayers for normal and superconducting Nb. Journal of Applied Physics, 2003, 93, 8212-8214.	2.9	8
30	Room temperature ferromagnetic behavior in cluster free, Co doped Y ₂ O ₃ dilute magnetic oxide films. Applied Physics Letters, 2012, 101, 162403.	1.1	7
31	Strong crystal anisotropy of magneto-transport property in Fe ₃ Si epitaxial film. Journal of Crystal Growth, 2011, 323, 372-375.	1.5	7
32	Field dependence of antiferromagnetic domain switching in epitaxial Fe/CoO/MgO(001) systems. Physical Review B, 2017, 96, .	0.7	6
33	Anomalous magnetic moments in Co/Nb multilayers. Journal of Magnetism and Magnetic Materials, 2002, 239, 301-303.	1.1	6
34	Properties of superconductivity for decoupled ferromagnet/superconductor trilayers and multilayers in Fe/Nb system. Journal of Magnetism and Magnetic Materials, 2006, 304, e81-e83.	1.0	5
35	Dimensional crossover and flux pinning of decoupled Cu ₅₀ Ni ₅₀ -Nb multilayers. Journal of Applied Physics, 2008, 103, 07C704.	1.0	5
36	Dimensional crossover and flux pinning of decoupled Cu ₅₀ Ni ₅₀ -Nb multilayers. Journal of Applied Physics, 2008, 103, 07C704.	1.1	5

#	ARTICLE	IF	CITATIONS
37	Analysis of the proximity effect and the interface transparency with perpendicular current in Ni/Nb system. Journal of Applied Physics, 2009, 105, 07E319.	1.1	5
38	Magnetization reversal processes of epitaxial Fe ₃ Si films on GaAs(001). Journal of Applied Physics, 2011, 109, 07D508.	1.1	5
39	Light-induced thermal spin current. Physical Review B, 2019, 99, .	1.1	5
40	Generation of Concentric Space-Variant Linear Polarized Light by Dielectric Metalens. Nano Letters, 2021, 21, 562-568.	4.5	5
41	Ferromagnetism in cluster free, transition metal doped high \hat{I}^2 dilute magnetic oxides: Films and nanocrystals. Journal of Applied Physics, 2013, 113, 17C309.	1.1	4
42	Effect of demagnetization factors on spin current transport. Physical Review B, 2020, 102, .	1.1	4
43	Probing the spin-glass freezing transition in $C_{1-x}M_x$ alloy		
44	Influence of spin relaxation length on lateral double superconductor/ferromagnet/superconductor junctions. Journal of Applied Physics, 2011, 109, 07E155.	1.1	3
45	Nb lateral Josephson junctions induced by a NiFe cross strip. Applied Physics Letters, 2012, 101, 242601.	1.5	3
46	Charge, Spin, and Heat Transport in the Proximity of Metal/Ferromagnet Interface. Solid State Physics, 2013, 64, 53-82.	1.3	3
47	Reply to "Comment on "Hybrid magnetoresistance in the proximity of a ferromagnet"â€". Physical Review B, 2014, 90, .	1.1	3
48	Demonstration of Spin Current Switch across Ferro-Antiferromagnetic Transition. Advanced Quantum Technologies, 2020, 3, 2000059.	1.8	3
49	Perpendicular interface resistance in $Co_{1-x}Nb_xTi_1$ multilayers for normal and superconducting NbTi alloy with x=0.4, 0.6. Journal of Applied Physics, 2005, 97, 10B103.	1.1	2
50	Investigation of Cu _{0.5} Ni _{0.5} /Nb interface transparency by using current-perpendicular-to-plane measurement. European Physical Journal B, 2011, 79, 153-162.	0.6	2
51	Spin-Orbit Torque from a Magnetic Heterostructure of High-Entropy Alloy. Physical Review Applied, 2017, 8, .	1.5	2
52	Thermal spin transport and applications. , 2012, , .		1
53	Detection and manipulation of the antiferromagnetic Néel vector in Cr_2O_3 . Physical Review B, 2022, 105, .	1.1	1
54	Analysis of diffusive interface resistance for measurements with perpendicular current in Fe [*] Nb multilayers. Journal of Applied Physics, 2006, 99, 08M507.	1.1	0

#	ARTICLE	IF	CITATIONS
55	Nb Lateral Josephson Junction Induced by Inverse Proximity Effect With NiFe. IEEE Transactions on Magnetics, 2012, 48, 4236-4238.	1.2	0
56	Low Current Densities Toggle Optical Polarization Switching in Pt/Yttrium Iron Garnet Magnetic Heterostructures Using Energy Resolution. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000223.	1.2	0