

# Ssu-Yen Huang

## List of Publications by Year in descending order

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56  
papers

2,376  
citations

361045

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h-index

197535

49  
g-index

56  
all docs

56  
docs citations

56  
times ranked

2145  
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection and manipulation of the antiferromagnetic Néel vector in $\text{CrO}_3$ . Physical Review B, 2022, 105, .	1.1	1
2	Exploiting Spin Fluctuations for Enhanced Pure Spin Current. Physical Review Letters, 2022, 128, .	2.9	8
3	Generation of Concentric Space-Variant Linear Polarized Light by Dielectric Metalens. Nano Letters, 2021, 21, 562-568.	4.5	5
4	Two-Dimensional Mechano-thermoelectric Heterojunctions for Self-Powered Strain Sensors. Nano Letters, 2021, 21, 6990-6997.	4.5	10
5	Room-Temperature Ferromagnetism of Single-Layer $\text{MoS}_2$ Induced by Antiferromagnetic Proximity of Yttrium Iron Garnet. Advanced Quantum Technologies, 2021, 4, 2000104.	1.8	9
6	Demonstration of Spin Current Switch across Ferro-Antiferromagnetic Transition. Advanced Quantum Technologies, 2020, 3, 2000059.	1.8	3
7	Effect of demagnetization factors on spin current transport. Physical Review B, 2020, 102, .	1.1	4
8	Pure spin current phenomena. Applied Physics Letters, 2020, 117, .	1.5	15
9	Probing the spin-glass freezing transition in $\text{Cu}_2\text{O}$ alloy		
10	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
11	Magnetization-dependent spin Hall effect in a perpendicular magnetized film. Physical Review Research, 2020, 2, .	1.3	12
12	Incoherent spin pumping from YIG single crystals. Physical Review B, 2019, 99, .	1.1	23
13	Light-induced thermal spin current. Physical Review B, 2019, 99, .	1.1	5
14	Absence of Evidence of Electrical Switching of the Antiferromagnetic Néel Vector. Physical Review Letters, 2019, 123, 227203.	2.9	105
15	Enhancing Thermoelectric Properties of $2\text{D Bi}_2\text{Se}_3$ by 1D Texturing with Graphene. ACS Applied Energy Materials, 2019, 2, 8411-8415.	2.5	15
16	Inverse spin Hall effect in $\text{Cu}_2\text{O}$ alloy	1.1	26
17	Spin-Orbit Torque from a Magnetic Heterostructure of High-Entropy Alloy. Physical Review Applied, 2017, 8, .	1.5	2
18	Field dependence of antiferromagnetic domain switching in epitaxial $\text{Fe/CoO/MgO(001)}$ systems. Physical Review B, 2017, 96, .	1.1	6

#	ARTICLE	IF	CITATIONS
19	Longitudinal spin Seebeck effect in a half-metallic $L < \substack{a \\ S} > 0.7 < \substack{Mn} >$	1.1	20
20	Enhancement of the anomalous Nernst effect in ferromagnetic thin films. Physical Review B, 2017, 96, .	1.1	77
21	Robust spin current generated by the spin Seebeck effect. Physical Review Materials, 2017, 1, .	0.9	24
22	Absence of anomalous Nernst effect in spin Seebeck effect of Pt/YIG. AIP Advances, 2016, 6, .	0.6	37
23	Absence of the Thermal Hall Effect in Anomalous Nernst and Spin Seebeck Effects. Physical Review Letters, 2016, 117, 247201.	2.9	20
24	Noncollinear magnetization between surface and bulk $Y < \substack{F \\ e} > 3 < \substack{O} >$	1.1	20
25	Manipulation of pure spin current in ferromagnetic metals independent of magnetization. Physical Review B, 2016, 94, .	1.1	53
26	Inverse spin Hall effect in Cr: Independence of antiferromagnetic ordering. Physical Review B, 2015, 92, .	1.1	64
27	Physical Origins of the New Magnetoresistance in $Pt < \substack{YIG} >$	2.9	117
28	Reply to "Comment on "Hybrid magnetoresistance in the proximity of a ferromagnet"â€". Physical Review B, 2014, 90, .	1.1	3
29	Self-consistent determination of spin Hall angles in selected $5 < \substack{d} >$ metals by thermal spin injection. Physical Review B, 2014, 89, .		87
30	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
31	Inverse Spin Hall Effect in a Ferromagnetic Metal. Physical Review Letters, 2013, 111, 066602.	2.9	265
32	Hybrid magnetoresistance in the proximity of a ferromagnet. Physical Review B, 2013, 87, .	1.1	90
33	Ferromagnetism in cluster free, transition metal doped high $\hat{\rho}$ dilute magnetic oxides: Films and nanocrystals. Journal of Applied Physics, 2013, 113, 17C309.	1.1	4
34	Charge, Spin, and Heat Transport in the Proximity of Metal/Ferromagnet Interface. Solid State Physics, 2013, 64, 53-82.	1.3	3
35	Pt Magnetic Polarization on $Y < \substack{Fe} > 3 < \substack{O} >$ and Magnetotransport Characteristics. Physical Review Letters, 2013, 110, 147207.	2.9	200
36	Intrinsic Spin Seebeck Effect in $Au < \substack{YIG} >$	2.9	246

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37	Nb lateral Josephson junctions induced by a NiFe cross strip. Applied Physics Letters, 2012, 101, 242601.	1.5	3
38	Room temperature ferromagnetic behavior in cluster free, Co doped Y2O3 dilute magnetic oxide films. Applied Physics Letters, 2012, 101, 162403.	1.5	7
39	Nb Lateral Josephson Junction Induced by Inverse Proximity Effect With NiFe. IEEE Transactions on Magnetics, 2012, 48, 4236-4238.	1.2	0
40	Thermal spin transport and applications. , 2012, , .		1
41	Transport Magnetic Proximity Effects in Platinum. Physical Review Letters, 2012, 109, 107204.	2.9	434
42	Influence of spin relaxation length on lateral double superconductor/ferromagnet/superconductor junctions. Journal of Applied Physics, 2011, 109, 07E155.	1.1	3
43	Investigation of Cu <sub>0.5</sub> Ni <sub>0.5</sub> /Nb interface transparency by using current-perpendicular-to-plane measurement. European Physical Journal B, 2011, 79, 153-162.	0.6	2
44	Strong crystal anisotropy of magneto-transport property in Fe <sub>3</sub> Si epitaxial film. Journal of Crystal Growth, 2011, 323, 372-375.	0.7	6
45	Magnetization reversal processes of epitaxial Fe <sub>3</sub> Si films on GaAs(001). Journal of Applied Physics, 2011, 109, 07D508.	1.1	5
46	Intrinsic Spin-Dependent Thermal Transport. Physical Review Letters, 2011, 107, 216604.	2.9	231
47	Demonstration of edge roughness effect on the magnetization reversal of spin valve submicron wires. Applied Physics Letters, 2010, 97, 022109.	1.5	11
48	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
49	Spectra broadening of point-contact Andreev reflection measurement on GaMnAs. Journal of Applied Physics, 2009, 105, .	1.1	9
50	Dimensional crossover and flux pinning of decoupled Cu <sub>50</sub> Ni <sub>50</sub> •Nb multilayers. Journal of Applied Physics, 2008, 103, 07C704.	1.1	5
51	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
52	Analysis of diffusive interface resistance for measurements with perpendicular current in Fe•Nb multilayers. Journal of Applied Physics, 2006, 99, 08M507.	1.1	0
53	Perpendicular interface resistance in Co•NbxTi <sub>1-x</sub> multilayers for normal and superconducting NbTi alloy with x=0.4, 0.6. Journal of Applied Physics, 2005, 97, 10B103.	1.1	2
54	Quantitative analysis of interface resistance in Co/Nb multilayers for normal and superconducting Nb. Journal of Applied Physics, 2003, 93, 8212-8214.	1.1	7

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55	Anomalous magnetic moments in Co/Nb multilayers. Journal of Magnetism and Magnetic Materials, 2002, 239, 301-303.	1.0	5
56	Two-dimensional to three-dimensional crossover and magnetic penetration depth study in NbTi/Co multilayers. Journal of Applied Physics, 2001, 89, 7493-7495.	1.1	10