

# Kin L Wong

## List of Publications by Year in descending order

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73  
papers

4,629  
citations

136740

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98622

67  
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74  
all docs

74  
docs citations

74  
times ranked

4960  
citing authors

#	ARTICLE	IF	CITATIONS
1	Current-induced Néel order switching facilitated by magnetic phase transition. Nature Communications, 2022, 13, 1629.	5.8	13
2	Electrical and optical characterizations of spin-orbit torque. Applied Physics Letters, 2021, 118, 072405.	1.5	3
3	Large spin to charge conversion in antiferromagnetic Weyl semimetal Mn <sub>3</sub> Sn. APL Materials, 2021, 9, .	2.2	11
4	Enhancement of spin-to-charge conversion efficiency in topological insulators by interface engineering. APL Materials, 2021, 9, .	2.2	15
5	Chiral Symmetry Breaking for Deterministic Switching of Perpendicular Magnetization by Spin-Orbit Torque. Nano Letters, 2021, 21, 515-521.	4.5	64
6	Magnetic memory driven by topological insulators. Nature Communications, 2021, 12, 6251.	5.8	67
7	Conversion between spin and charge currents in topological-insulator/nonmagnetic-metal systems. Physical Review B, 2021, 104, .	1.1	3
8	Néel-type skyrmion in WTe <sub>2</sub> /Fe <sub>3</sub> GeTe <sub>2</sub> van der Waals heterostructure. Nature Communications, 2020, 11, 3860.	5.8	208
9	Enhancement of the spin-orbit torque efficiency in W/Cu/CoFeB heterostructures via interface engineering. Applied Physics Letters, 2020, 117, 082409.	1.5	6
10	Spin-orbit torques in structures with asymmetric damping layers. Applied Physics Letters, 2020, 117, 182403.	1.5	13
11	Interfacial spin transmission and spin-orbit torques in as-grown and annealed W/Co <sub>2</sub> FeAl/MgO multilayers. Applied Physics Letters, 2020, 117, .	1.5	8
12	High voltage-controlled magnetic anisotropy and interface magnetoelectric effect in sputtered multilayers annealed at high temperatures. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	2.0	6
13	Study of the perpendicular magnetic anisotropy, spin-orbit torque, and Dzyaloshinskii-Moriya interaction in the heavy metal/CoFeB bilayers with Ir <sub>22</sub> Mn <sub>78</sub> insertion. Applied Physics Letters, 2020, 116, 242407.	1.5	8
14	Deterministic Spin-Orbit Torque Switching by a Light-Metal Insertion. Nano Letters, 2020, 20, 3703-3709.	4.5	52
15	Anomalous Conductivity Switch Observed in Treated Hafnium Diselenide Transistors. Advanced Electronic Materials, 2020, 6, 1901246.	2.6	9
16	Spin-Orbit Torque Switching of a Nearly Compensated Ferrimagnet by Topological Surface States. Advanced Materials, 2019, 31, e1901681.	11.1	81
17	Field-Free Spin-Orbit Torque Switching of Perpendicular Magnetization by the Rashba Interface. ACS Applied Materials & Interfaces, 2019, 11, 39369-39375.	4.0	45
18	Predictive Materials Design of Magnetic Random-Access Memory Based on Nanoscale Atomic Structure and Element Distribution. Nano Letters, 2019, 19, 8621-8629.	4.5	22

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19	Spin-orbit torque from a ferromagnetic metal. Physical Review B, 2019, 99, .	1.1	49
20	Room-Temperature Spin-Orbit Torque from Topological Surface States. Physical Review Letters, 2019, 123, 207205.	2.9	129
21	Spin-torque ferromagnetic resonance in $W$ $Co$ $Fe$ $B$ $MgO$ structures. Applied Physics Letters, 2016, 109, .	1.5	23
22	Joule Heating Effect on Field-Free Magnetization Switching by Spin-Orbit Torque in Exchange-Biased Systems. Physical Review Applied, 2017, 7, .	1.5	48
23	Enhancement of voltage-controlled magnetic anisotropy through precise control of Mg insertion thickness at CoFeB/MgO interface. Applied Physics Letters, 2017, 110, .	1.5	92
24	Efficient Excitation of High-Frequency Exchange-Dominated Spin Waves in Periodic Ferromagnetic Structures. Physical Review Applied, 2017, 7, .	1.5	22
25	Partial spin absorption induced magnetization switching and its voltage-assisted improvement in an asymmetrical all spin logic device at the mesoscopic scale. Applied Physics Letters, 2017, 111, .	1.5	14
26	Competing effect of spin-orbit torque terms on perpendicular magnetization switching in structures with multiple inversion asymmetries. Scientific Reports, 2016, 6, 23956.	1.6	21
27	Spin-torque ferromagnetic resonance measurements utilizing spin Hall magnetoresistance in W/Co <sub>40</sub> Fe <sub>40</sub> B <sub>20</sub> /MgO structures. Applied Physics Letters, 2016, 109, .	1.5	36
28	Spin-orbit torques in perpendicularly magnetized Ir <sub>22</sub> Mn <sub>78</sub> /Co <sub>20</sub> Fe <sub>60</sub> B <sub>20</sub> /MgO multilayer. Applied Physics Letters, 2016, 109, .	1.5	58
29	Room-Temperature Creation and Spin-Orbit Torque Manipulation of Skyrmions in Thin Films with Engineered Asymmetry. Nano Letters, 2016, 16, 1981-1988.	4.5	275
30	Electric-field control of spin-orbit torque in a magnetically doped topological insulator. Nature Nanotechnology, 2016, 11, 352-359.	15.6	212
31	Magneto-optical investigation of spin-orbit torques in metallic and insulating magnetic heterostructures. Nature Communications, 2015, 6, 8958.	5.8	80
32	Strain-induced modulation of perpendicular magnetic anisotropy in Ta/CoFeB/MgO structures investigated by ferromagnetic resonance. Applied Physics Letters, 2015, 106, .	1.5	79
33	Current-driven perpendicular magnetization switching in Ta/CoFeB/[TaOx or MgO/TaOx] films with lateral structural asymmetry. Applied Physics Letters, 2014, 105, .	1.5	71
34	Electric-field-induced spin wave generation using multiferroic magnetoelectric cells. Applied Physics Letters, 2014, 104, 082403.	1.5	144
35	Switching of perpendicular magnetization by spin-orbit torques in the absence of external magnetic fields. Nature Nanotechnology, 2014, 9, 548-554.	15.6	753
36	Magnetization switching through spin-Hall-effect-induced chiral domain wall propagation. Physical Review B, 2014, 89, .	1.1	121

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37	Mapping the domain wall pinning profile by stochastic imaging reconstruction. Physical Review B, 2013, 87, .	1.1	7
38	Quantitative analysis of electric field induced change in anisotropy field in Co <sub>60</sub> Fe <sub>20</sub> B <sub>20</sub> /(011) xPb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -(1- $\hat{x}$ )PbTiO <sub>3</sub> ( $\hat{x}$ $\hat{1}$ / <sub>4</sub> 0.68) heterostructures. Applied Physics Letters, 2012, 101, .	1.5	6
39	Deviation from exponential decay for spin waves excited with a coplanar waveguide antenna. Applied Physics Letters, 2012, 101, 252409.	1.5	10
40	The influence of in-plane ferroelectric crystal orientation on electrical modulation of magnetic properties in Co <sub>60</sub> Fe <sub>20</sub> B <sub>20</sub> /SiO <sub>2</sub> /(011) xPb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -(1- $\hat{x}$ )PbTiO <sub>3</sub> heterostructures. Journal of Applied Physics, 2012, 112, 033916.	1.1	4
41	Magneto-electric tuning of the phase of propagating spin waves. Applied Physics Letters, 2012, 101, .	1.5	28
42	Spin wave functions nanofabric update. , 2011, , .		20
43	Giant electric-field-induced reversible and permanent magnetization reorientation on magnetoelectric Ni/(011) [Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> ](1- $\hat{x}$ ) [PbTiO <sub>3</sub> ] $\hat{x}$ heterostructure. Applied Physics Letters, 2011, 98, 012504.	1.5	236
44	Electric-poling-induced magnetic anisotropy and electric-field-induced magnetization reorientation in magnetoelectric Ni/(011) [Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> ](1-x)-[PbTiO <sub>3</sub> ] $\hat{x}$ heterostructure. Journal of Applied Physics, 2011, 109, 07D732.	1.1	67
45	Steric Blocking as a Tool To Control Molecular Film Geometry at a Metal Surface. Langmuir, 2011, 27, 8735-8737.	1.6	2
46	Robust bi-stable memory operation in single-layer graphene ferroelectric memory. Applied Physics Letters, 2011, 99, .	1.5	140
47	Electrical and Mechanical Manipulation of Ferromagnetic Properties in Polycrystalline Nickel Thin Film. IEEE Magnetics Letters, 2011, 2, 6000104-6000104.	0.6	30
48	Domain engineered switchable strain states in ferroelectric (011) [Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> ](1- $\hat{x}$ )-[PbTiO <sub>3</sub> ] $\hat{x}$ (PMN-PT, $\hat{x}$ $\hat{0}$ .32) single crystals. Journal of Applied Physics, 2011, 109, .	1.1	157
49	Strain-induced magnetization change in patterned ferromagnetic nickel nanostructures. Journal of Applied Physics, 2011, 109, 123903.	1.1	36
50	Electrical control of reversible and permanent magnetization reorientation for magnetoelectric memory devices. Applied Physics Letters, 2011, 98, .	1.5	153
51	Voltage-controlled ferromagnetic order in MnGe quantum dots. Nanotechnology, 2010, 21, 375606.	1.3	6
52	MnGe magnetic nanocolumns and nanowells. Nanotechnology, 2010, 21, 255602.	1.3	31
53	Tunability in Polyatomic Molecule Diffusion through Tunneling versus Pacing. Journal of the American Chemical Society, 2010, 132, 13578-13581.	6.6	19
54	Nonreciprocal amplification of spin-wave signals. , 2010, , .		0

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55	Electrical control of magnetic remanent states in a magnetoelectric layered nanostructure. Journal of Applied Physics, 2009, 106, .	1.1	19
56	H-Atom Position as Pattern-Determining Factor in Arenethiol Films. Journal of the American Chemical Society, 2009, 131, 5540-5545.	6.6	14
57	A Surface Coordination Network Based on Substrate-Derived Metal Adatoms with Local Charge Excess. Angewandte Chemie - International Edition, 2008, 47, 8442-8445.	7.2	110
58	Surface Diffusive Motion in a Periodic and Asymmetric Potential. Journal of the American Chemical Society, 2008, 130, 15244-15245.	6.6	17
59	Determining wave vector and material property from the phase-shift of spin-wave propagation. Europhysics Letters, 2008, 84, 27009.	0.7	16
60	A Quantitative Approach to Hydrogen Bonding at a Metal Surface. Journal of the American Chemical Society, 2007, 129, 12056-12057.	6.6	35
61	Oxadiazole-Metal Interface: from Isolated Molecules to $\pi$ -Stacking. Langmuir, 2006, 22, 857-859.	1.6	13
62	A Homomolecular Porous Network at a Cu(111) Surface. Science, 2006, 313, 961-962.	6.0	244
63	Surface dynamics of benzenethiol molecules on Cu(111). Applied Physics Letters, 2006, 88, 183106.	1.5	16
64	Coverage and nearest-neighbor dependence of adsorbate diffusion. Journal of Chemical Physics, 2005, 123, 201102.	1.2	26
65	Unidirectional Adsorbate Motion on a High-Symmetry Surface: "Walking" Molecules Can Stay the Course. Physical Review Letters, 2005, 95, 166101.	2.9	88
66	Effect of Halo Substitution on the Geometry of Arenethiol Films on Cu(111). Journal of the American Chemical Society, 2004, 126, 7762-7763.	6.6	42
67	PHOTOIONIZATION OF ALKALI NANOPARTICLES AND CLUSTERS. , 2004, , 223-232.		0
68	Work functions, ionization potentials, and in between: Scaling relations based on the image-charge model. Physical Review B, 2003, 67, .	1.1	34
69	Photoionization threshold shapes of metal clusters. Journal of Chemical Physics, 2003, 118, 7141-7143.	1.2	7
70	Temperature-dependent work functions of free alkali-metal nanoparticles. Physical Review B, 2002, 66, .	1.1	28
71	Measuring cluster temperatures via kinetic-energy release. Physical Review A, 1999, 59, 495-502.	1.0	32
72	Stability, evaporation, and temperature of metal clusters. Journal of Non-Crystalline Solids, 1999, 250-252, 191-198.	1.5	2

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73	Nanofabricated model catalysts. Manufacturing and model studies. Faraday Discussions, 1996, 105, 237.	1.6	73