

# Kin L Wong

## List of Publications by Year in descending order

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73  
papers

4,629  
citations

136740

32  
h-index

98622

67  
g-index

74  
all docs

74  
docs citations

74  
times ranked

4960  
citing authors

#	ARTICLE	IF	CITATIONS
1	Switching of perpendicular magnetization by spin-orbit torques in the absence of external magnetic fields. <i>Nature Nanotechnology</i> , 2014, 9, 548-554.	15.6	753
2	Room-Temperature Creation and Spin-Orbit Torque Manipulation of Skyrmions in Thin Films with Engineered Asymmetry. <i>Nano Letters</i> , 2016, 16, 1981-1988.	4.5	275
3	A Homomolecular Porous Network at a Cu(111) Surface. <i>Science</i> , 2006, 313, 961-962.	6.0	244
4	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-x)[PbTiO <sub>3</sub> ] <sub>x</sub> heterostructure. <i>Applied Physics Letters</i> , 2011, 98, 012504.	1.5	236
5	Electric-field control of spin-orbit torque in a magnetically doped topological insulator. <i>Nature Nanotechnology</i> , 2016, 11, 352-359.	15.6	212
6	Néel-type skyrmion in WTe <sub>2</sub> /Fe <sub>3</sub> GeTe <sub>2</sub> van der Waals heterostructure. <i>Nature Communications</i> , 2020, 11, 3860.	5.8	208
7	Domain engineered switchable strain states in ferroelectric (011) [Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> ](1-x)-[PbTiO <sub>3</sub> ] <sub>x</sub> (PMN-PT, x=0.32) single crystals. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	157
8	Electrical control of reversible and permanent magnetization reorientation for magnetoelectric memory devices. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	153
9	Electric-field-induced spin wave generation using multiferroic magnetoelectric cells. <i>Applied Physics Letters</i> , 2014, 104, 082403.	1.5	144
10	Robust bi-stable memory operation in single-layer graphene ferroelectric memory. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	140
11	Room-Temperature Spin-Orbit Torque from Topological Surface States. <i>Physical Review Letters</i> , 2019, 123, 207205.	2.9	129
12	Magnetization switching through spin-Hall-effect-induced chiral domain wall propagation. <i>Physical Review B</i> , 2014, 89, .	1.1	121
13	A Surface Coordination Network Based on Substrate-Derived Metal Adatoms with Local Charge Excess. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8442-8445.	7.2	110
14	Enhancement of voltage-controlled magnetic anisotropy through precise control of Mg insertion thickness at CoFeB/MgO interface. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	92
15	Unidirectional Adsorbate Motion on a High-Symmetry Surface: "Walking" Molecules Can Stay the Course. <i>Physical Review Letters</i> , 2005, 95, 166101.	2.9	88
16	Spin-Orbit Torque Switching of a Nearly Compensated Ferrimagnet by Topological Surface States. <i>Advanced Materials</i> , 2019, 31, e1901681.	11.1	81
17	Magneto-optical investigation of spin-orbit torques in metallic and insulating magnetic heterostructures. <i>Nature Communications</i> , 2015, 6, 8958.	5.8	80
18	Strain-induced modulation of perpendicular magnetic anisotropy in Ta/CoFeB/MgO structures investigated by ferromagnetic resonance. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	79

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19	Nanofabricated model catalysts. Manufacturing and model studies. Faraday Discussions, 1996, 105, 237.	1.6	73
20	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
21	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> ] <sub>(1-x)</sub> -[PbTiO <sub>3</sub> ] <sub>x</sub> heterostructure. Journal of Applied Physics, 2011, 109, 07D732.	1.1	67
22	Magnetic memory driven by topological insulators. Nature Communications, 2021, 12, 6251.	5.8	67
23	Chiral Symmetry Breaking for Deterministic Switching of Perpendicular Magnetization by Spin-Orbit Torque. Nano Letters, 2021, 21, 515-521.	4.5	64
24	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
25	Deterministic Spin-Orbit Torque Switching by a Light-Metal Insertion. Nano Letters, 2020, 20, 3703-3709.	4.5	52
26	Spin-orbit torque from a ferromagnetic metal. Physical Review B, 2019, 99, .	1.1	49
27	Joule Heating Effect on Field-Free Magnetization Switching by Spin-Orbit Torque in Exchange-Biased Systems. Physical Review Applied, 2017, 7, .	1.5	48
28	Field-Free Spin-Orbit Torque Switching of Perpendicular Magnetization by the Rashba Interface. ACS Applied Materials & Interfaces, 2019, 11, 39369-39375.	4.0	45
29	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
30	Strain-induced magnetization change in patterned ferromagnetic nickel nanostructures. Journal of Applied Physics, 2011, 109, 123903.	1.1	36
31	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
32	A Quantitative Approach to Hydrogen Bonding at a Metal Surface. Journal of the American Chemical Society, 2007, 129, 12056-12057.	6.6	35
33	Work functions, ionization potentials, and in between: Scaling relations based on the image-charge model. Physical Review B, 2003, 67, .	1.1	34
34	Measuring cluster temperatures via kinetic-energy release. Physical Review A, 1999, 59, 495-502.	1.0	32
35	MnGe magnetic nanocolumns and nanowells. Nanotechnology, 2010, 21, 255602.	1.3	31
36	Electrical and Mechanical Manipulation of Ferromagnetic Properties in Polycrystalline Nickel Thin Film. IEEE Magnetics Letters, 2011, 2, 6000104-6000104.	0.6	30

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37	Temperature-dependent work functions of free alkali-metal nanoparticles. Physical Review B, 2002, 66, .	1.1	28
38	Magneto-electric tuning of the phase of propagating spin waves. Applied Physics Letters, 2012, 101, .	1.5	28
39	Coverage and nearest-neighbor dependence of adsorbate diffusion. Journal of Chemical Physics, 2005, 123, 201102.	1.2	26
40	Spin-Torque Ferromagnetic Resonance in $W/Co$ Multilayers. Physical Review Letters, 2003, 91, 077601.	1.5	23
41	Efficient Excitation of High-Frequency Exchange-Dominated Spin Waves in Periodic Ferromagnetic Structures. Physical Review Applied, 2017, 7, .	1.5	22
42	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
43	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
44	Spin wave functions nanofabric update. , 2011, , .		20
45	Electrical control of magnetic remanent states in a magnetoelectric layered nanostructure. Journal of Applied Physics, 2009, 106, .	1.1	19
46	Tunability in Polyatomic Molecule Diffusion through Tunneling versus Pacing. Journal of the American Chemical Society, 2010, 132, 13578-13581.	6.6	19
47	Surface Diffusive Motion in a Periodic and Asymmetric Potential. Journal of the American Chemical Society, 2008, 130, 15244-15245.	6.6	17
48	Surface dynamics of benzenethiol molecules on Cu(111). Applied Physics Letters, 2006, 88, 183106.	1.5	16
49	Determining wave vector and material property from the phase-shift of spin-wave propagation. Europhysics Letters, 2008, 84, 27009.	0.7	16
50	Enhancement of spin-to-charge conversion efficiency in topological insulators by interface engineering. APL Materials, 2021, 9, .	2.2	15
51	H-Atom Position as Pattern-Determining Factor in Arenethiol Films. Journal of the American Chemical Society, 2009, 131, 5540-5545.	6.6	14
52	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
53	Oxadiazole <sup>2+</sup> Metal Interface: from Isolated Molecules to $\pi$ -Stacking. Langmuir, 2006, 22, 857-859.	1.6	13
54	Spin-orbit torques in structures with asymmetric damping layers. Applied Physics Letters, 2020, 117, 182403.	1.5	13

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55	Current-induced Néel order switching facilitated by magnetic phase transition. Nature Communications, 2022, 13, 1629.	5.8	13
56	Large spin to charge conversion in antiferromagnetic Weyl semimetal Mn <sub>3</sub> Sn. APL Materials, 2021, 9, .	2.2	11
57	Deviation from exponential decay for spin waves excited with a coplanar waveguide antenna. Applied Physics Letters, 2012, 101, 252409.	1.5	10
58	Anomalous Conductivity Switch Observed in Treated Hafnium Diselenide Transistors. Advanced Electronic Materials, 2020, 6, 1901246.	2.6	9
59	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
60	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
61	Photoionization threshold shapes of metal clusters. Journal of Chemical Physics, 2003, 118, 7141-7143.	1.2	7
62	Mapping the domain wall pinning profile by stochastic imaging reconstruction. Physical Review B, 2013, 87, .	1.1	7
63	Voltage-controlled ferromagnetic order in MnGe quantum dots. Nanotechnology, 2010, 21, 375606.	1.3	6
64	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-x)PbTiO <sub>3</sub> (x ≈ 0.68) heterostructures. Applied Physics Letters, 2012, 101, .	1.5	6
65	Enhancement of the spin-orbit torque efficiency in W/Cu/CoFeB heterostructures via interface engineering. Applied Physics Letters, 2020, 117, 082409.	1.5	6
66	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
67	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-x)PbTiO <sub>3</sub> heterostructures. Journal of Applied Physics, 2012, 112, 033916.	1.1	4
68	Electrical and optical characterizations of spin-orbit torque. Applied Physics Letters, 2021, 118, 072405.	1.5	3
69	Conversion between spin and charge currents in topological-insulator/nonmagnetic-metal systems. Physical Review B, 2021, 104, .	1.1	3
70	Stability, evaporation, and temperature of metal clusters. Journal of Non-Crystalline Solids, 1999, 250-252, 191-198.	1.5	2
71	Steric Blocking as a Tool To Control Molecular Film Geometry at a Metal Surface. Langmuir, 2011, 27, 8735-8737.	1.6	2
72	Nonreciprocal amplification of spin-wave signals. , 2010, , .		0

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73	PHOTOIONIZATION OF ALKALI NANOPARTICLES AND CLUSTERS. , 2004, , 223-232.		0