Wei-Cheng Lee

List of Publications by Year in Descending Order

34 papers	552 citations	11 h-index	22 g-index
37 ext. papers	632 ext. citations	4.4 avg, IF	3.77 L-index

#	Paper	IF	Citations
34	Impact of titanium doping and pulsing conditions on the analog temporal response of hafnium oxide based memristor synapses. *Journal of Applied Physics*, **2022**, 131, 204901	2.5	5
33	Role of V-V dimers on structural, electronic, magnetic, and vibrational properties of VO2 by first-principles simulations and Raman spectroscopic analysis. *Physical Review B*, **2021**, 103,	3.3	3
32	Structural Phase Transitions of NbO2: Bulk versus Surface. *Chemistry of Materials*, **2021**, 33, 1416-1425	9.6	4
31	Simultaneous Structural and Electronic Transitions in Epitaxial VO_{2}/TiO_{2}(001). *Physical Review Letters*, **2020**, 124, 196402	7.4	18
30	Field-induced resistance peak in a superconducting niobium thin film proximity coupled to a surface reconstructed SrTiO3. *Npj Quantum Materials*, **2020**, 5,	5	3
29	Directly measuring the structural transition pathways of strain-engineered VO thin films. *Nanoscale* , **2020**, 12, 18857-18863	7.7	8
28	Emergent charge order near the doping-induced Mott-insulating quantum phase transition in Sr3Ru2O7. *Communications Physics*, **2019**, 2,	5.4	5
27	Real-space visualization of quantum phase transitions by network topology. *Physical Review E*, **2019** , 100, 012304	2.4	2
26	Direct observation of delithiation as the origin of analog memristance in LixNbO2. *APL Materials*, **2019**, 7, 071103	5.7	7
25	Evidence of a second-order Peierls-driven metal-insulator transition in crystalline NbO2. *Physical Review Materials*, **2019**, 3,	3.2	10
24	Cooperative effects of strain and electron correlation in epitaxial VO 2 and NbO 2. *Journal of Applied Physics*, **2019**, 125, 082539	2.5	10
23	Importance of orbital fluctuations for the magnetic dynamics in the heavy-fermion compound SmB6. *Physical Review B*, **2018**, 97,	3.3	2
22	Antiferromagnetism in the Hubbard model using a cluster slave-spin method. *Physical Review B*, **2017**, 96,	3.3	3
21	Recent progress of probing correlated electron states by point contact spectroscopy. *Reports on Progress in Physics*, **2016**, 79, 094502	14.4	5
20	Tuning a strain-induced orbital selective Mott transition in epitaxial VO2. *Physical Review B*, **2016**, 93,	3.3	24
19	Resonant plasmon-axion excitations induced by charge density wave order in a Weyl semimetal. *Physical Review B*, **2016**, 93,	3.3	9
18	Structural and magnetic field effects on spin fluctuations in Sr3Ru2O7. *Physical Review B*, **2016**, 94,	3.3	3

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17	Microscopic Theory of the Thermodynamic Properties of Sr 3 Ru 2 O 7. *Chinese Physics Letters*, **2016** , 33, 037201	1.8	2
16	Superconductivity-induced changes in density-density correlation function enabled by Umklapp processes. *Physical Review B*, **2015**, 91,	3.3	3
15	Characterizing featureless Mott insulating state by quasiparticle interference: A dynamical mean field theory view. *Physical Review B*, **2015**, 92,	3.3	1
14	Theory of point contact spectroscopy in correlated materials. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 651-6	11.5	13
13	ELEMENTARY EXCITATIONS DUE TO ORBITAL DEGREES OF FREEDOM IN IRON-BASED SUPERCONDUCTORS. *International Journal of Modern Physics B*, **2013**, 27, 1330014	1.1	11
12	Orbital resonance mode in superconducting iron pnictides. *Europhysics Letters*, **2013**, 103, 57003	1.6	7
11	Impact of dynamic orbital correlations on magnetic excitations in the normal state of iron-based superconductors. *Physical Review B*, **2012**, 86,	3.3	20
10	Spectral weight transfer in multiorbital Mott systems. *Physical Review B*, **2011**, 84,	3.3	9
9	F-wave pairing of cold atoms in optical lattices. *Physical Review A*, **2010**, 82,	2.6	20
8	Anisotropic-Fermi-liquid theory of ultracold fermionic polar molecules: Landau parameters and collective modes. *Physical Review A*, **2010**, 81,	2.6	60
7	Quasiparticle interference in the unconventional metamagnetic compound Sr3Ru2O7. *Physical Review B*, **2010**, 81,	3.3	24
6	Quasiparticle interference on the surface of the topological insulator Bi2Te3. *Physical Review B*, **2009**, 80,	3.3	90
5	Quantum wells in polar-nonpolar oxide heterojunction systems. *Physical Review B*, **2009**, 79,	3.3	2
4	Pairing state with a time-reversal symmetry breaking in FeAs-based superconductors. *Physical Review Letters*, **2009**, 102, 217002	7.4	117
3	Spectroscopic imaging scanning tunneling microscopy as a probe of orbital structures and ordering. *Physical Review Letters*, **2009**, 103, 176101	7.4	32
2	Theory of reduced superfluid density in underdoped cuprate superconductors. *Physical Review B*, **2008**, 77,	3.3	17
1	CoPhy -PGNN: Learning Physics-guided Neural Networks with Competing Loss Functions for Solving Eigenvalue Problems. *ACM Transactions on Intelligent Systems and Technology*,	8	1