Matisse Wei-Yuan Tu

List of Publications by Year
in descending order

23 papers	1,578 citations	759233 12 h-index	677142 22 g-index
24 all docs	24 docs citations	24 times ranked	2464 citing authors

#	Article	IF	Citations
1	Giant tunneling magnetoresistance in spin-filter van der Waals heterostructures. Science, 2018, 360, 1214-1218.	12.6	871
2	General Non-Markovian Dynamics of Open Quantum Systems. Physical Review Letters, 2012, 109, 170402.	7.8	272
3	Voltage Control of a van der Waals Spin-Filter Magnetic Tunnel Junction. Nano Letters, 2019, 19, 915-920.	9.1	129
4	Non-equilibrium quantum theory for nanodevices based on the Feynmanâ€“Vernon influence functional. New Journal of Physics, 2010, 12, 083013.	2.9	95
5	Non-Markovianity measure using two-time correlation functions. Physical Review A, 2015, 92, .	2.5	41
6	Gate tuning from exciton superfluid to quantum anomalous Hall in van der Waals heterobilayer. Science Advances, 2019, 5, eaau6120.	10.3	23
7	Exact master equation and non-markovian decoherence for quantum dot quantum computing. Quantum Information Processing, 2009, 8, 631-646.	2.2	22
8	Transient quantum transport in double-dot Aharonov-Bohm interferometers. Physical Review B, 2012, 86, .	3.2	22
9	Intrinsic coherence dynamics and phase localization in nanoscale Aharonov-Bohm interferometers. Physical Review B, 2011, 83, .	3.2	16
10	Dynamically stabilized decoherence-free states in non-Markovian open fermionic systems. Physical Review A, 2012, 86, .	2.5	16
11	Spin photovoltaic effect in magnetic van der Waals heterostructures. Science Advances, 2021, 7, eabg8094.	10.3	15
12	Transient probing of the symmetry and the asymmetry of electron interference. Physical Review B, 2016, 93, .	3.2	13
13	Real-time dynamics of spin-dependent transport through a double-quantum-dot Aharonov-Bohm interferometer with spin-orbit interaction. Physical Review B, 2014, 90, .	3.2	9
14	Coherent control of double-dot molecules using Aharonov-Bohm magnetic flux. Physical Review B, 2012, 86, .	3.2	6
15	Non-adiabatic Hall effect at Berry curvature hot spot. 2D Materials, 2020, 7, 045004.	4.4	6
16	Quantum coherence of the molecular states and their corresponding currents in nanoscale Aharonov-Bohm interferometers. Physical Review B, 2016, 94, .	3.2	5
17	Switchable valley functionalities of an n â€‰â€‰â^'â€‰â€‰ n ^{â^'} â€‰â€‰â^'â€‰â€‰ n junction crystals. 2D Materials, 2017, 4, 025109.	4.4	5
18	Precision control of charge coherence in parallel double dot systems through spin-orbit interaction. Journal of Chemical Physics, 2013, 139, 064706.	3.0	4

#	Article	IF	Citations
19	Theory of wave-packet transport under narrow gaps and spatial textures: Nonadiabaticity and semiclassicality. Physical Review B, 2020, 102, .	3.2	4
20	Giant Spin Transfer Torque in Atomically Thin Magnetic Bilayers. Chinese Physics Letters, 2020, 37, 107201.	3.3	2
21	ZhangetÂal.Reply:. Physical Review Letters, 2015, 115, 168902.	7.8	1
22	Revealing the non-adiabatic and non-Abelian multiple-band effects via anisotropic valley Hall conduction in bilayer graphene. 2D Materials, 2021, 8, 045012.	4.4	1
23	Non-Markovian decoherence dynamics of electrons in a double quantum dot system. , 2008, , .		0