

# Martin Claassen

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

2,798  
citations

394421

19  
h-index

501196

28  
g-index

29  
all docs

29  
docs citations

29  
times ranked

3795  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum spin Hall state in monolayer 1T'-WTe <sub>2</sub> . Nature Physics, 2017, 13, 683-687.	16.7	596
2	Correlated electronic phases in twisted bilayer transition metal dichalcogenides. Nature Materials, 2020, 19, 861-866.	27.5	544
3	Moiré heterostructures as a condensed-matter quantum simulator. Nature Physics, 2021, 17, 155-163.	16.7	317
4	Theory of Floquet band formation and local pseudospin textures in pump-probe photoemission of graphene. Nature Communications, 2015, 6, 7047.	12.8	203
5	Colloquium: Nonthermal pathways to ultrafast control in quantum materials. Reviews of Modern Physics, 2021, 93, .	45.6	175
6	Dynamical time-reversal symmetry breaking and photo-induced chiral spin liquids in frustrated Mott insulators. Nature Communications, 2017, 8, 1192.	12.8	100
7	Quantum quench of Kondo correlations in optical absorption. Nature, 2011, 474, 627-630.	27.8	92
8	One-dimensional flat bands in twisted bilayer germanium selenide. Nature Communications, 2020, 11, 1124.	12.8	80
9	Position-Momentum Duality and Fractional Quantum Hall Effect in Chern Insulators. Physical Review Letters, 2015, 114, 236802.	7.8	73
10	All-optical materials design of chiral edge modes in transition-metal dichalcogenides. Nature Communications, 2016, 7, 13074.	12.8	71
11	Dynamic Nuclear Spin Polarization in the Resonant Laser Excitation of an InGaAs Quantum Dot. Physical Review Letters, 2012, 108, 197403.	7.8	63
12	Effects of Magnetic Doping on Weak Antilocalization in Narrow Bi <sub>2</sub> Se <sub>3</sub> Nanoribbons. Nano Letters, 2012, 12, 4355-4359.	9.1	59
13	Many-Body Dynamics of Exciton Creation in a Quantum Dot by Optical Absorption: A Quantum Quench towards Kondo Correlations. Physical Review Letters, 2011, 106, 107402.	7.8	58
14	Realization of nearly dispersionless bands with strong orbital anisotropy from destructive interference in twisted bilayer MoS <sub>2</sub> . Nature Communications, 2021, 12, 5644.	12.8	57
15	Band structure engineering of ideal fractional Chern insulators. Physical Review B, 2017, 96, .	3.2	52
16	Universal optical control of chiral superconductors and Majorana modes. Nature Physics, 2019, 15, 766-770.	16.7	48
17	Origin of the low critical observing temperature of the quantum anomalous Hall effect in V-doped (Bi, Sb) <sub>2</sub> Te <sub>3</sub> film. Scientific Reports, 2016, 6, 32732.	3.3	42
18	Theoretical understanding of photon spectroscopies in correlated materials in and out of equilibrium. Nature Reviews Materials, 2018, 3, 312-323.	48.7	38

#	ARTICLE	IF	CITATIONS
19	Producing coherent excitations in pumped Mott antiferromagnetic insulators. Physical Review B, 2017, 96, .	3.2	33
20	Light-induced $d$ -wave superconductivity through Floquet-engineered Fermi surfaces in cuprates. Physical Review B, 2019, 100, .	3.2	20
21	Light-induced topological magnons in two-dimensional van der Waals magnets. SciPost Physics, 2020, 9, .	4.9	18
22	Engineering Three-Dimensional Moiré Flat Bands. Nano Letters, 2021, 21, 7519-7526.	9.1	10
23	Optical manipulation of domains in chiral topological superconductors. Physical Review Research, 2021, 3, .	3.6	9
24	Observing photo-induced chiral edge states of graphene nanoribbons in pump-probe spectroscopies. Npj Quantum Materials, 2020, 5, .	5.2	8
25	Biexciton Condensation in Electron-Hole-Doped Hubbard Bilayers: A Sign-Problem-Free Quantum Monte Carlo Study. Physical Review Letters, 2020, 124, 077601.	7.8	8
26	Moiré engineering of spin-orbit coupling in twisted platinum diselenide. Electronic Structure, 2022, 4, 014004.	2.8	8
27	Sign-free determinant quantum Monte Carlo study of excitonic density orders in a two-orbital Hubbard-Kanamori model. Physical Review B, 2022, 105, .	3.2	4
28	Solid-State Spin-Photon Quantum Interface without Spin-Orbit Coupling. Physical Review Letters, 2010, 104, 177403.	7.8	3