

Johan H Mentink

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

2,157
citations

430874

18
h-index

454955

30
g-index

31
all docs

31
docs citations

31
times ranked

2267
citing authors

#	ARTICLE	IF	CITATIONS
1	Training and pattern recognition by an opto-magnetic neural network. Applied Physics Letters, 2022, 120, 022403.	3.3	3
2	Ultrafast dynamics of entanglement in Heisenberg antiferromagnets. Physical Review B, 2022, 105, .	3.2	2
3	Parametrically driven THz magnon-pairs: Predictions toward ultimately fast and minimally dissipative switching. Applied Physics Letters, 2022, 120, .	3.3	2
4	Deterministic Generation and Guided Motion of Magnetic Skyrmions by Focused He ⁺ -Ion Irradiation. Nano Letters, 2022, 22, 4028-4035.	9.1	24
5	Role of stochastic noise and generalization error in the time propagation of neural-network quantum states. SciPost Physics, 2022, 12, .	4.9	9
6	Ultrafast kinetics of the antiferromagnetic-ferromagnetic phase transition in FeRh. Nature Communications, 2022, 13, .	12.8	22
7	Observation of fluctuation-mediated picosecond nucleation of a topological phase. Nature Materials, 2021, 20, 30-37.	27.5	68
8	Supermagnonic Propagation in Two-Dimensional Antiferromagnets. Physical Review Letters, 2021, 127, 097202.	7.8	10
9	Laser-driven quantum magnonics and terahertz dynamics of the order parameter in antiferromagnets. Physical Review B, 2019, 100, .	3.2	37
10	Supervised learning of an opto-magnetic neural network with ultrashort laser pulses. Applied Physics Letters, 2019, 114, 192407.	3.3	15
11	Ultrafast Spin Dynamics in Photodoped Spin-Orbit Mott Insulator SrMn_2O_7 . Physical Review X, 2019, 9, .	8.9	19
12	Quantum many-body dynamics of the Einstein-de Haas effect. Physical Review B, 2019, 99, .	3.2	27
13	Optical control of competing exchange interactions and coherent spin-charge coupling in two-orbital Mott insulators. SciPost Physics, 2019, 6, .	4.9	12
14	Investigating ultrafast quantum magnetism with machine learning. SciPost Physics, 2019, 7, .	4.9	24
15	Manipulating magnetism by ultrafast control of the exchange interaction. Journal of Physics Condensed Matter, 2017, 29, 453001.	1.8	52
16	Ultrafast cooling and heating scenarios for the laser-induced phase transition in CuO. Physical Review B, 2016, 94, .	3.2	10
17	Terahertz-Driven Nonlinear Spin Response of Antiferromagnetic Nickel Oxide. Physical Review Letters, 2016, 117, 197201.	7.8	103
18	All-thermal switching of amorphous Gd-Fe alloys: Analysis of structural properties and magnetization dynamics. Physical Review B, 2015, 92, .	3.2	41

#	ARTICLE	IF	CITATIONS
19	Ultrafast and reversible control of the exchange interaction in Mott insulators. Nature Communications, 2015, 6, 6708.	12.8	184
20	Ultrafast optical modification of exchange interactions in iron oxides. Nature Communications, 2015, 6, 8190.	12.8	164
21	Ultrafast and Distinct Spin Dynamics in Magnetic Alloys. Spin, 2015, 05, 1550004.	1.3	81
22	Engineering Ultrafast Magnetism. Springer Proceedings in Physics, 2015, , 297-299.	0.2	1
23	Ultrafast Quenching of the Exchange Interaction in a Mott Insulator. Physical Review Letters, 2014, 113, 057201.	7.8	55
24	Nanoscale spin reversal by non-local angular momentum transfer following ultrafast laser excitation in ferrimagnetic GdFeCo. Nature Materials, 2013, 12, 293-298.	27.5	267
25	Ultrafast Spin Dynamics in Multisublattice Magnets. Physical Review Letters, 2012, 108, 057202.	7.8	217
26	Ultrafast heating as a sufficient stimulus for magnetization reversal in a ferrimagnet. Nature Communications, 2012, 3, 666.	12.8	588
27	Frequency response and design parameters for differential microbarometers. Journal of the Acoustical Society of America, 2011, 130, 33-41.	1.1	19
28	Stable and fast semi-implicit integration of the stochastic Landau-Lifshitz equation. Journal of Physics Condensed Matter, 2010, 22, 176001.	1.8	87
29	Two interacting atoms in an optical lattice site with anharmonic terms. Physical Review A, 2009, 79, .	2.5	8
30	Dynamics of plasma vortices: The role of the electron skin depth. Physics of Plasmas, 2005, 12, 052311.	1.9	6