

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	Ultrafast heating as a sufficient stimulus for magnetization reversal in a ferrimagnet. Nature Communications, 2012, 3, 666.	12.8	588
2	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
3	Ultrafast Spin Dynamics in Multisublattice Magnets. Physical Review Letters, 2012, 108, 057202.	7.8	217
4	Ultrafast and reversible control of the exchange interaction in Mott insulators. Nature Communications, 2015, 6, 6708.	12.8	184
5	Ultrafast optical modification of exchange interactions in iron oxides. Nature Communications, 2015, 6, 8190.	12.8	164
6	Terahertz-Driven Nonlinear Spin Response of Antiferromagnetic Nickel Oxide. Physical Review Letters, 2016, 117, 197201.	7.8	103
7	Stable and fast semi-implicit integration of the stochastic Landau-Lifshitz equation. Journal of Physics Condensed Matter, 2010, 22, 176001.	1.8	87
8	Ultrafast and Distinct Spin Dynamics in Magnetic Alloys. Spin, 2015, 05, 1550004.	1.3	81
9	Observation of fluctuation-mediated picosecond nucleation of a topological phase. Nature Materials, 2021, 20, 30-37.	27.5	68
10	Ultrafast Quenching of the Exchange Interaction in a Mott Insulator. Physical Review Letters, 2014, 113, 057201.	7.8	55
11	Manipulating magnetism by ultrafast control of the exchange interaction. Journal of Physics Condensed Matter, 2017, 29, 453001.	1.8	52
12	All-thermal switching of amorphous Gd-Fe alloys: Analysis of structural properties and magnetization dynamics. Physical Review B, 2015, 92, .	3.2	41
13	Laser-driven quantum magnonics and terahertz dynamics of the order parameter in antiferromagnets. Physical Review B, 2019, 100, .	3.2	37
14	Quantum many-body dynamics of the Einstein-de Haas effect. Physical Review B, 2019, 99, .	3.2	27
15	Investigating ultrafast quantum magnetism with machine learning. SciPost Physics, 2019, 7, .	4.9	24
16	Deterministic Generation and Guided Motion of Magnetic Skyrmions by Focused He ⁺ -Ion Irradiation. Nano Letters, 2022, 22, 4028-4035.	9.1	24
17	Ultrafast kinetics of the antiferromagnetic-ferromagnetic phase transition in FeRh. Nature Communications, 2022, 13, .	12.8	22
18	Frequency response and design parameters for differential microbarometers. Journal of the Acoustical Society of America, 2011, 130, 33-41.	1.1	19

