

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. <i>Nature Communications</i> , 2012, 3, 666. | 12.8 | 588 |
| 2 | Nanoscale spin reversal by non-local angular momentum transfer following ultrafast laser excitation in ferrimagnetic GdFeCo. <i>Nature Materials</i> , 2013, 12, 293-298. | 27.5 | 267 |
| 3 | Ultrafast Spin Dynamics in Multisublattice Magnets. <i>Physical Review Letters</i> , 2012, 108, 057202. | 7.8 | 217 |
| 4 | Ultrafast and reversible control of the exchange interaction in Mott insulators. <i>Nature Communications</i> , 2015, 6, 6708. | 12.8 | 184 |
| 5 | Ultrafast optical modification of exchange interactions in iron oxides. <i>Nature Communications</i> , 2015, 6, 8190. | 12.8 | 164 |
| 6 | Terahertz-Driven Nonlinear Spin Response of Antiferromagnetic Nickel Oxide. <i>Physical Review Letters</i> , 2016, 117, 197201. | 7.8 | 103 |
| 7 | Stable and fast semi-implicit integration of the stochastic Landauâ€“Lifshitz equation. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 176001. | 1.8 | 87 |
| 8 | Ultrafast and Distinct Spin Dynamics in Magnetic Alloys. <i>Spin</i> , 2015, 05, 1550004. | 1.3 | 81 |
| 9 | Observation of fluctuation-mediated picosecond nucleation of a topological phase. <i>Nature Materials</i> , 2021, 20, 30-37. | 27.5 | 68 |
| 10 | Ultrafast Quenching of the Exchange Interaction in a Mott Insulator. <i>Physical Review Letters</i> , 2014, 113, 057201. | 7.8 | 55 |
| 11 | Manipulating magnetism by ultrafast control of the exchange interaction. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 453001. | 1.8 | 52 |
| 12 | All-thermal switching of amorphous Gd-Fe alloys: Analysis of structural properties and magnetization dynamics. <i>Physical Review B</i> , 2015, 92, . | 3.2 | 41 |
| 13 | Laser-driven quantum magnonics and terahertz dynamics of the order parameter in antiferromagnets. <i>Physical Review B</i> , 2019, 100, . | 3.2 | 37 |
| 14 | Quantum many-body dynamics of the Einsteinâ€“de Haas effect. <i>Physical Review B</i> , 2019, 99, . | 3.2 | 27 |
| 15 | Investigating ultrafast quantum magnetism with machine learning. <i>SciPost Physics</i> , 2019, 7, . | 4.9 | 24 |
| 16 | Deterministic Generation and Guided Motion of Magnetic Skyrmions by Focused He ^{+/-} -Ion Irradiation. <i>Nano Letters</i> , 2022, 22, 4028-4035. | 9.1 | 24 |
| 17 | Ultrafast kinetics of the antiferromagnetic-ferromagnetic phase transition in FeRh. <i>Nature Communications</i> , 2022, 13, . | 12.8 | 22 |
| 18 | Frequency response and design parameters for differential microbarometers. <i>Journal of the Acoustical Society of America</i> , 2011, 130, 33-41. | 1.1 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Ultrafast Spin Dynamics in Photodoped Spin-Orbit Mott Insulator $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Sr} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle \text{}$ | 8.9 | 19 |
| 20 | Supervised learning of an opto-magnetic neural network with ultrashort laser pulses. <i>Applied Physics Letters</i> , 2019, 114, 192407. | 3.3 | 15 |
| 21 | Optical control of competing exchange interactions and coherent spin-charge coupling in two-orbital Mott insulators. <i>SciPost Physics</i> , 2019, 6, . | 4.9 | 12 |
| 22 | Ultrafast cooling and heating scenarios for the laser-induced phase transition in CuO. <i>Physical Review B</i> , 2016, 94, . | 3.2 | 10 |
| 23 | Supermagnonic Propagation in Two-Dimensional Antiferromagnets. <i>Physical Review Letters</i> , 2021, 127, 097202. | 7.8 | 10 |
| 24 | Role of stochastic noise and generalization error in the time propagation of neural-network quantum states. <i>SciPost Physics</i> , 2022, 12, . | 4.9 | 9 |
| 25 | Two interacting atoms in an optical lattice site with anharmonic terms. <i>Physical Review A</i> , 2009, 79, . | 2.5 | 8 |
| 26 | Dynamics of plasma vortices: The role of the electron skin depth. <i>Physics of Plasmas</i> , 2005, 12, 052311. | 1.9 | 6 |
| 27 | Training and pattern recognition by an opto-magnetic neural network. <i>Applied Physics Letters</i> , 2022, 120, 022403. | 3.3 | 3 |
| 28 | Ultrafast dynamics of entanglement in Heisenberg antiferromagnets. <i>Physical Review B</i> , 2022, 105, . | 3.2 | 2 |
| 29 | Parametrically driven THz magnon-pairs: Predictions toward ultimately fast and minimally dissipative switching. <i>Applied Physics Letters</i> , 2022, 120, . | 3.3 | 2 |
| 30 | Engineering Ultrafast Magnetism. <i>Springer Proceedings in Physics</i> , 2015, , 297-299. | 0.2 | 1 |