Davi R Rodrigues

List of Publications by Year
in descending order

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17 papers	300 citations	1040056 9 h-index	888059 17 g-index
17 all docs	17 docs citations	17 times ranked	393 citing authors

#	Article	IF	Citations
1	The role of temperature and drive current in skyrmion dynamics. Nature Electronics, 2020, 3, 30-36.	26.0	98
2	Characterizing breathing dynamics of magnetic skyrmions and antiskyrmions within the Hamiltonian formalism. Physical Review B, 2019, 99, .	3.2	31
3	Spin eigenexcitations of an antiferromagnetic skyrmion. Physical Review B, 2019, 99, .	3.2	28
4	Spin-transfer torque driven motion, deformation, and instabilities of magnetic skyrmions at high currents. Physical Review B, 2020, 101, .	3.2	25
5	Skyrmion pinning energetics in thin film systems. Nature Communications, 2022, 13, .	12.8	25
6	Current-driven periodic domain wall creation in ferromagnetic nanowires. Physical Review B, 2016, 94, .	3.2	16
7	Spin texture motion in antiferromagnetic and ferromagnetic nanowires. Physical Review B, 2017, 95, .	3.2	16
8	Effective description of domain wall strings. Physical Review B, 2018, 97, .	3.2	16
9	Spin-Wave Driven Bidirectional Domain Wall Motion in Kagome Antiferromagnets. Physical Review Letters, 2021, 127, 157203.	7.8	11
10	Chiral excitations of magnetic droplet solitons driven by their own inertia. Physical Review B, 2020, 101, .	3.2	9
11	Nonlinear Dynamics of Topological Ferromagnetic Textures for Frequency Multiplication. Physical Review Applied, 2021, 16, .	3.8	7
12	Nonzero Skyrmion Hall Effect in Topologically Trivial Structures. Physical Review Applied, 2022, 17, .	3.8	6
13	A deeper look into natural sciences with physics-based and data-driven measures. IScience, 2021, 24, 102171.	4.1	5
14	Current-induced H-shaped-skyrmion creation and their dynamics in the helical phase. Journal Physics D: Applied Physics, 2021, 54, 404003.	2.8	3
15	Facilitating domain wall injection in magnetic nanowires by electrical means. Physical Review B, 2020, 101, .	3.2	2
16	Scalable computational measures for entropic detection of latent relations and their applications to magnetic imaging. Communications in Applied Mathematics and Computational Science, 2021, 16, 267-297.	1.8	1
17	Dzyaloshinskii-Moriya induced spin-transfer torques in kagome antiferromagnets. Physical Review B, 2022, 105, .	3.2	1