

Benjamin Krueger

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

4,271
citations

257429

24
h-index

197805

49
g-index

50
all docs

50
docs citations

50
times ranked

3241
citing authors

#	ARTICLE	IF	CITATIONS
1	Distribution of light inside three-dimensional scattering slabs: Comparison of radiative transfer and electromagnetic theory. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022, 277, 107987.	2.3	5
2	Two-dimensional simulation of optical coherence tomography images. <i>Scientific Reports</i> , 2019, 9, 12189.	3.3	8
3	Energy density distribution of light inside two-dimensional randomly scattering slabs illuminated by a plane wave. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 235, 40-48.	2.3	6
4	Phase-optimization wavefront shaping simulations in two-dimensional scattering media based on Maxwell's equations. , 2019, , .		0
5	Magnetic Skyrmion as a Nonlinear Resistive Element: A Potential Building Block for Reservoir Computing. <i>Physical Review Applied</i> , 2018, 9, .	3.8	191
6	Skyrmion Hall effect revealed by direct time-resolved X-ray microscopy. <i>Nature Physics</i> , 2017, 13, 170-175.	16.7	607
7	Field-free deterministic ultrafast creation of magnetic skyrmions by spin-orbit torques. <i>Nature Nanotechnology</i> , 2017, 12, 1040-1044.	31.5	215
8	Switching by Domain-Wall Automotion in Asymmetric Ferromagnetic Rings. <i>Physical Review Applied</i> , 2017, 7, .	3.8	24
9	Multiscale simulations of topological transformations in magnetic-skyrmion spin structures. <i>Physical Review B</i> , 2017, 96, .	3.2	26
10	Effective field analysis using the full angular spin-orbit torque magnetometry dependence. <i>Physical Review B</i> , 2017, 95, .	3.2	27
11	Solution of the inhomogeneous Maxwell's equations using a Born series. <i>Optics Express</i> , 2017, 25, 25165.	3.4	30
12	Domain wall spin structures in mesoscopic Fe rings probed by high resolution SEMPA. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 425004.	2.8	6
13	Localized domain wall nucleation dynamics in asymmetric ferromagnetic rings revealed by direct time-resolved magnetic imaging. <i>Physical Review B</i> , 2016, 94, .	3.2	17
14	Local Domain-Wall Velocity Engineering via Tailored Potential Landscapes in Ferromagnetic Rings. <i>Physical Review Applied</i> , 2016, 5, .	3.8	10
15	Multiscale model approach for magnetization dynamics simulations. <i>Physical Review B</i> , 2016, 94, .	3.2	15
16	Topological Defects in Nanostructures—Chiral Domain Walls and Skyrmions. <i>Springer Series in Materials Science</i> , 2016, , 199-218.	0.6	3
17	Observation of room-temperature magnetic skyrmions and their current-driven dynamics in ultrathin metallic ferromagnets. <i>Nature Materials</i> , 2016, 15, 501-506.	27.5	1,331
18	Accurate calculation of the transverse anisotropy of a magnetic domain wall in perpendicularly magnetized multilayers. <i>Physical Review B</i> , 2015, 92, .	3.2	12

#	ARTICLE	IF	CITATIONS
19	Magnetic configurations in nanostructured Co ₂ MnGa thin film elements. <i>New Journal of Physics</i> , 2015, 17, 083030.	2.9	10
20	Imaging spin dynamics on the nanoscale using X-Ray microscopy. <i>Frontiers in Physics</i> , 2015, 3, .	2.1	51
21	Dynamics and inertia of skyrmionic spin structures. <i>Nature Physics</i> , 2015, 11, 225-228.	16.7	304
22	Nonadiabatic spin-transfer torque of magnetic vortex structures in a permalloy square. <i>Physical Review B</i> , 2014, 89, .	3.2	15
23	Domain wall transformations and hopping in La _{0.7} Sr _{0.3} MnO ₃ nanostructures imaged with high resolution x-ray magnetic microscopy. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 456003.	1.8	5
24	Magnetic Anisotropy Engineering in Thin Film Ni Nanostructures by Magnetoelastic Coupling. <i>Physical Review Applied</i> , 2014, 1, .	3.8	85
25	Synchronous precessional motion of multiple domain walls in a ferromagnetic nanowire by perpendicular field pulses. <i>Nature Communications</i> , 2014, 5, 3429.	12.8	64
26	Fast and Accurate Calculation of the Demagnetization Tensor for Systems With Periodic Boundary Conditions. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 4749-4755.	2.1	6
27	Influence of the winding number on field- and current driven dynamics of magnetic vortices and antivortices. <i>Journal of Applied Physics</i> , 2012, 112, 013917.	2.5	5
28	Inertia and Chiral Edge Modes of a Skyrmion Magnetic Bubble. <i>Physical Review Letters</i> , 2012, 109, 217201.	7.8	165
29	Thermal effects in spin-torque assisted domain wall depinning. <i>Physical Review B</i> , 2012, 86, .	3.2	4
30	The interaction of transverse domain walls. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 024209.	1.8	12
31	Route towards cylindrical cloaking at visible frequencies using an optimization algorithm. <i>Physical Review B</i> , 2012, 86, .	3.2	4
32	Nonlinear magnetic vortex gyration. <i>Physical Review B</i> , 2012, 85, .	3.2	36
33	A Fast Finite-Difference Method for Micromagnetics Using the Magnetic Scalar Potential. <i>IEEE Transactions on Magnetics</i> , 2012, 48, 1105-1109.	2.1	31
34	Influence of temperature on the gyrotropic eigenmode of magnetic vortices. <i>Physical Review B</i> , 2011, 83, .	3.2	21
35	Proposal of a Robust Measurement Scheme for the Nonadiabatic Spin Torque Using the Displacement of Magnetic Vortices. <i>Physical Review Letters</i> , 2010, 104, 077201.	7.8	23
36	Analytical modeling and x-ray imaging of oscillations of a single magnetic domain wall. <i>Physical Review B</i> , 2010, 81, .	3.2	11

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37	Magnetic domain-wall depinning with reduced current density by short pulse rise time. Applied Physics Letters, 2010, 97, .	3.3	8
38	Current- and field-driven magnetic antivortices for nonvolatile data storage. Applied Physics Letters, 2009, 94, 062504.	3.3	32
39	Dependence of Magnetic Domain-Wall Motion on a Fast Changing Current. Physical Review Letters, 2009, 103, 197204.	7.8	43
40	Proposal for a standard problem for micromagnetic simulations including spin-transfer torque. Journal of Applied Physics, 2009, 105, .	2.5	38
41	Current-induced domain-wall depinning in curved Permalloy nanowires. Journal of Applied Physics, 2009, 105, .	2.5	20
42	Time-Resolved X-Ray Microscopy of Spin-Torque-Induced Magnetic Vortex Gyration. Physical Review Letters, 2008, 100, 176601.	7.8	124
43	Current- and field-driven magnetic antivortices. Physical Review B, 2008, 77, .	3.2	23
44	Current controlled random-access memory based on magnetic vortex handedness. Applied Physics Letters, 2008, 93, .	3.3	170
45	Time-resolved imaging of current-induced domain-wall oscillations. Physical Review B, 2008, 78, .	3.2	47
46	Vortices and antivortices as harmonic oscillators. Journal of Applied Physics, 2008, 103, 07A501.	2.5	29
47	Harmonic oscillator model for current- and field-driven magnetic vortices. Physical Review B, 2007, 76, .	3.2	86
48	Current-driven domain-wall dynamics in curved ferromagnetic nanowires. Physical Review B, 2007, 75, .	3.2	44
49	Current-induced domain-wall motion in permalloy semi rings. Journal of Magnetism and Magnetic Materials, 2007, 316, e966-e968.	2.3	2
50	Direct Imaging of Stochastic Domain-Wall Motion Driven by Nanosecond Current Pulses. Physical Review Letters, 2007, 98, 187202.	7.8	220