

Sebastian Gliga

List of Publications by Year in descending order

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61
papers

2,988
citations

147801

31
h-index

155660

55
g-index

65
all docs

65
docs citations

65
times ranked

4613
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast Nanomagnetic Toggle Switching of Vortex Cores. Physical Review Letters, 2007, 98, 117201.	7.8	286
2	Three-dimensional magnetization structures revealed with X-ray vector nanotomography. Nature, 2017, 547, 328-331.	27.8	221
3	Beating the Walker Limit with Massless Domain Walls in Cylindrical Nanowires. Physical Review Letters, 2010, 104, 057201.	7.8	200
4	Exclusive electroproduction of J/ψ mesons at HERA. Nuclear Physics B, 2004, 695, 3-37.	2.5	164
5	Evidence for a narrow baryonic state decaying to $K^0_S \pi^0$ and $K^0_S \pi^+$, in deep inelastic scattering at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 591, 7-22.	4.1	162
6	Measurement of deeply virtual Compton scattering at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 573, 46-62.	4.1	143
7	Spectral Analysis of Topological Defects in an Artificial Spin-Ice Lattice. Physical Review Letters, 2013, 110, 117205.	7.8	127
8	Current-induced magnetic vortex core switching in a Permalloy nanodisk. Applied Physics Letters, 2007, 91, .	3.3	103
9	Measurement of $D^* \Lambda$ production in deep inelastic scattering at DESY HERA. Physical Review D, 2004, 69, .	4.7	94
10	Element-Specific X-Ray Phase Tomography of 3D Structures at the Nanoscale. Physical Review Letters, 2015, 114, 115501.	7.8	80
11	Search for single-top production in ep collisions at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 559, 153-170.	4.1	79
12	Time-resolved imaging of three-dimensional nanoscale magnetization dynamics. Nature Nanotechnology, 2020, 15, 356-360.	31.5	67
13	Element-Specific Magnetic Hysteresis of Individual 18 nm Fe Nanocubes. Nano Letters, 2011, 11, 1710-1715.	9.1	64
14	Reconfigurable wave band structure of an artificial square ice. Physical Review B, 2016, 93, .	3.2	64
15	Emergent dynamic chirality in a thermally driven artificial spin ratchet. Nature Materials, 2017, 16, 1106-1111.	27.5	61
16	Magnetization dynamics in spin torque nano-oscillators: Vortex state versus uniform state. Physical Review B, 2009, 80, .	3.2	57
17	Dynamics of reconfigurable artificial spin ice: Toward magnonic functional materials. APL Materials, 2020, 8, .	5.1	52
18	Measurement of high-Q 2 charged current cross sections in e + p deep inelastic scattering at HERA. European Physical Journal C, 2003, 32, 1-16.	3.9	50

#	ARTICLE	IF	CITATIONS
19	High- Q^2 neutral current cross sections in $e+p$ deep inelastic scattering at $s=318 \text{ GeV}$. <i>Physical Review D</i> , 2004, 70, .	4.7	50
20	Measurement of the open-charm contribution to the diffractive proton structure function. <i>Nuclear Physics B</i> , 2003, 672, 3-35.	2.5	43
21	Ultrafast dynamics of a magnetic antivortex: Micromagnetic simulations. <i>Physical Review B</i> , 2008, 77, .	3.2	42
22	Experimental observation of vortex rings in a bulk magnet. <i>Nature Physics</i> , 2021, 17, 316-321.	16.7	42
23	Measurement of beauty production in deep inelastic scattering at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004, 599, 173-189.	4.1	38
24	Broken vertex symmetry and finite zero-point entropy in the artificial square ice ground state. <i>Physical Review B</i> , 2015, 92, .	3.2	38
25	Search for resonance decays to lepton+jet at DESY HERA and limits on leptoquarks. <i>Physical Review D</i> , 2003, 68, .	4.7	37
26	Tomographic reconstruction of a three-dimensional magnetization vector field. <i>New Journal of Physics</i> , 2018, 20, 083009.	2.9	35
27	Influence of the dynamic dipolar interaction on the current-induced core switch in vortex pairs. <i>Physical Review B</i> , 2009, 79, .	3.2	34
28	Thermally induced magnetic relaxation in building blocks of artificial kagome spin ice. <i>Physical Review B</i> , 2014, 89, .	3.2	34
29	Tailoring Spin-Wave Channels in a Reconfigurable Artificial Spin Ice. <i>Physical Review Applied</i> , 2020, 13, .	3.8	34
30	Leading proton production in $e+p$ collisions at HERA. <i>Nuclear Physics B</i> , 2003, 658, 3-46.	2.5	33
31	Nanoscale switch for vortex polarization mediated by Bloch core formation in magnetic hybrid systems. <i>Nature Communications</i> , 2015, 6, 7836.	12.8	32
32	Measurement of subjet multiplicities in neutral current deep inelastic scattering at HERA and determination of $\hat{\Gamma}_{\pm}$ s. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003, 558, 41-58.	4.1	31
33	Bottom photoproduction measured using decays into muons in dijet events in ep collisions at $s=318 \text{ GeV}$. <i>Physical Review D</i> , 2004, 70, .	4.7	31
34	Nanoscale control of competing interactions and geometrical frustration in a dipolar trident lattice. <i>Nature Communications</i> , 2017, 8, 995.	12.8	31
35	Search for contact interactions, large extra dimensions and finite quark radius in ep collisions at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004, 591, 23-41.	4.1	30
36	Scaling violations and determination of $\hat{\Gamma}_{\pm}$ s from jet production in $\hat{\Gamma}^3p$ interactions at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003, 560, 7-23.	4.1	25

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37	Observation of isolated high-ET photons in deep inelastic scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 595, 86-100.	4.1	22
38	Dijet angular distributions in photoproduction of charm at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 565, 87-101.	4.1	21
39	Switching a magnetic antivortex core with ultrashort field pulses. Journal of Applied Physics, 2008, 103, 07B115.	2.5	19
40	Dynamic domain wall chirality rectification by rotating magnetic fields. Applied Physics Letters, 2015, 106, .	3.3	18
41	Energy thresholds in the magnetic vortex core reversal. Journal of Physics: Conference Series, 2011, 303, 012005.	0.4	16
42	Architectural structures open new dimensions in magnetism. Materials Today, 2019, 26, 100-101.	14.2	16
43	Search for QCD-instanton induced events in deep inelastic ep scattering at HERA. European Physical Journal C, 2004, 34, 255-265.	3.9	15
44	Photoproduction of D_s^{\pm} mesons associated with a leading neutron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 590, 143-160.	4.1	15
45	Study of the pion trajectory in the photoproduction of leading neutrons at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 610, 199-211.	4.1	15
46	Substructure dependence of jet cross sections at HERA and determination of. Nuclear Physics B, 2004, 700, 3-50.	2.5	13
47	Numerical micromagnetism of strong inhomogeneities. Journal of Magnetism and Magnetic Materials, 2014, 362, 7-13.	2.3	13
48	Stray-Field Imaging of a Chiral Artificial Spin Ice during Magnetization Reversal. ACS Nano, 2019, 13, 13910-13916.	14.6	12
49	Isolated tau leptons in events with large missing transverse momentum at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 583, 41-58.	4.1	11
50	Bose-Einstein correlations in one and two dimensions in deep inelastic scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 583, 231-246.	4.1	10
51	Flipping magnetic vortex cores on the picosecond time scale. Physica B: Condensed Matter, 2008, 403, 334-337.	2.7	9
52	The dependence of dijet production on photon virtuality in ep collisions at HERA. European Physical Journal C, 2004, 35, 487-500.	3.9	8
53	Observation of K_S^0 resonances in deep inelastic scattering at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 578, 33-44.	4.1	8
54	Surface interactions of molecular C60 and impact on Ni(100) and Co(0001) film growth: A scanning tunneling microscopy study. Surface Science, 2011, 605, 72-80.	1.9	8

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55	Spin-Wave Dynamics and Symmetry Breaking in an Artificial Spin Ice. Nano Letters, 2021, 21, 2382-2389.	9.1	7
56	Magnetization Reversal of Micron-Scale Cobalt Structures With a Nanoconstriction. IEEE Transactions on Magnetics, 2007, 43, 2854-2856.	2.1	3
57	Observation of the out-of-plane magnetization in a mesoscopic ferromagnetic structure superjacent to a superconductor. Applied Physics Letters, 2018, 113, 162601.	3.3	2
58	Unexpected field-induced dynamics in magnetostrictive microstructured elements under isotropic strain. Journal of Physics Condensed Matter, 2018, 30, 314001.	1.8	2
59	Quantitative imaging of the magnetic field distribution in an artificial spin ice studied by off-axis electron holography. Journal of Magnetism and Magnetic Materials, 2022, 543, 168535.	2.3	2
60	Hard X-ray Magnetic Tomography: A New Technique For The Visualization Of Three Dimensional Magnetic Structures. Microscopy and Microanalysis, 2018, 24, 82-83.	0.4	0
61	In-situ combination of SEMPA, STM, and FIB for magnetic imaging and nanoscale structuring. , 2008, , 577-578.		0