

Ferran MaciÀ

List of Publications by Year in descending order

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59
papers

1,265
citations

331670

21
h-index

377865

34
g-index

61
all docs

61
docs citations

61
times ranked

1608
citing authors

#	ARTICLE	IF	CITATIONS
1	Stable magnetic droplet solitons in spin-transfer nanocontacts. Nature Nanotechnology, 2014, 9, 992-996.	31.5	79
2	Direct imaging of delayed magneto-dynamic modes induced by surface acoustic waves. Nature Communications, 2017, 8, 407.	12.8	72
3	Spin-wave interference patterns created by spin-torque nano-oscillators for memory and computation. Nanotechnology, 2011, 22, 095301.	2.6	71
4	Quantum Magnetic Deflagration in Mn12Acetate. Physical Review Letters, 2005, 95, 217205.	7.8	66
5	Direct Observation of a Localized Magnetic Soliton in a Spin-Transfer Nanocontact. Physical Review Letters, 2015, 115, 127205.	7.8	56
6	Direct observation and imaging of a spin-wave soliton with p-like symmetry. Nature Communications, 2015, 6, 8889.	12.8	52
7	Large Nonreciprocal Propagation of Surface Acoustic Waves in Epitaxial Ferromagnetic/Semiconductor Hybrid Structures. Physical Review Applied, 2020, 13, .	3.8	50
8	Generation and Imaging of Magnetoacoustic Waves over Millimeter Distances. Physical Review Letters, 2020, 124, 137202.	7.8	49
9	Engineering the frequency correlations of entangled two-photon states by achromatic phase matching. Optics Letters, 2005, 30, 314.	3.3	44
10	Direct observation of multivalent states and $4f$ charge transfer in Ce-doped yttrium iron garnet thin films. Physical Review B, 2017, 96, .	3.2	43
11	Thickness dependence of dynamic and static magnetic properties of pulsed laser deposited La _{0.7} Sr _{0.3} MnO ₃ films on SrTiO ₃ (001). Journal of Magnetism and Magnetic Materials, 2014, 369, 197-204.	2.3	40
12	Organic magneto-electroluminescence for room temperature transduction between magnetic and optical information. Nature Communications, 2014, 5, 3609.	12.8	38
13	Observation of phonon-induced magnetic deflagration in manganites. Physical Review B, 2007, 76, .	3.2	36
14	Perpendicular magnetic anisotropy in ultrathin Co/Ni multilayer films studied with ferromagnetic resonance and magnetic x-ray microspectroscopy. Journal of Magnetism and Magnetic Materials, 2012, 324, 3629-3632.	2.3	36
15	Observation of droplet soliton drift resonances in a spin-transfer-torque nanocontact to a ferromagnetic thin film. Physical Review B, 2015, 92, .	3.2	36
16	Describing synchronization and topological excitations in arrays of magnetic spin torque oscillators through the Kuramoto model. Scientific Reports, 2016, 6, 32528.	3.3	35
17	Magnetic deflagration in Gd_5SiGe_4 . Physical Review B, 2010, 81, .	3.2	29
18	Electric-Field-Adjustable Time-Dependent Magnetolectric Response in Martensitic FeRh Alloy. ACS Applied Materials & Interfaces, 2017, 9, 15577-15582.	8.0	29

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19	Propagation of Magnetic Avalanches in $Mn_{12}Ac$ at High Field Sweep Rates. Physical Review Letters, 2009, 102, 027203.	7.8	21
20	Eddy current interactions in a ferromagnet-normal metal bilayer structure, and its impact on ferromagnetic resonance lineshapes. Journal of Applied Physics, 2015, 117, .	2.5	26
21	Effects of quantum mechanics on the deflagration threshold in the molecular magnet Mn_{12} . Physical Review B, 2009, 79, .	3.2	21
22	Magnetic Fringe-Field Control of Electronic Transport in an Organic Film. Physical Review X, 2012, 2, .	8.9	21
23	Spin wave excitation patterns generated by spin torque oscillators. Nanotechnology, 2014, 25, 045303.	2.6	21
24	Glassy magnetic behavior induced by Cu^{2+} substitution in the frustrated antiferromagnet $ZnCr_2O_4$. Journal of Physics Condensed Matter, 2008, 20, 255203.	1.8	18
25	Thickness and temperature dependence of the magnetodynamic damping of pulsed laser deposited $La_{0.7}Sr_{0.3}MnO_3$ on (111)-oriented $SrTiO_3$. Journal of Magnetism and Magnetic Materials, 2016, 420, 280-284.	2.3	17
26	Onset of a Propagating Self-Sustained Spin Reversal Front in a Magnetic System. Physical Review Letters, 2013, 110, 207203.	7.8	16
27	Acoustomagnetic pulse experiments in $LiNbO_3 \hat{=} Mn_{12}$ hybrids. Applied Physics Letters, 2006, 88, 012503.	3.3	15
28	Tailoring the magnetodynamic properties of nanomagnets using magnetocrystalline and shape anisotropies. Physical Review B, 2015, 92, .	3.2	15
29	Effect of Temperature on Magnetic Solitons Induced by Spin-Transfer Torque. Physical Review Applied, 2017, 7, .	3.8	15
30	Generation and annihilation time of magnetic droplet solitons. Scientific Reports, 2018, 8, 6847.	3.3	15
31	Spin dynamics in single-molecule magnets combining surface acoustic waves and high-frequency electron paramagnetic resonance. Physical Review B, 2008, 77, .	3.2	14
32	Magnetic droplet solitons. Journal of Applied Physics, 2020, 128, .	2.5	14
33	Magnetic fingerprints of the very fast jumps of colossal magnetoresistance in the phase-separated manganite $La_{0.225}Pr_{0.40}Ca_{0.375}$.	3.2	12
34	The role of thermal coupling on avalanches in manganites. Journal of Physics Condensed Matter, 2009, 21, 406005.	1.8	12
35	Including fringe fields from a nearby ferromagnet in a percolation theory of organic magnetoresistance. Physical Review B, 2013, 87, .	3.2	12
36	Deterministic spontaneous avalanches in $MnCr$ molecular magnets. Europhysics Letters, 2006, 75, 811-817.	2.0	11

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37	Quantification of propagating and standing surface acoustic waves by stroboscopic X-ray photoemission electron microscopy. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 184-193.	2.4	11
38	Phonon-induced quantum magnetic deflagration in. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, 1457-1463.	2.3	10
39	Magneto-optical imaging of magnetic deflagration in Mn ¹² -Acetate. <i>Europhysics Letters</i> , 2008, 84, 67010.	2.0	9
40	Multiple magnetic droplet soliton modes. <i>Physical Review B</i> , 2019, 99, .	3.2	9
41	On the Promotion of Catalytic Reactions by Surface Acoustic Waves. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20224-20229.	13.8	9
42	Hysteretic control of organic conductance due to remanent magnetic fringe fields. <i>Applied Physics Letters</i> , 2013, 102, 042408.	3.3	8
43	Subnanosecond magnetization dynamics driven by strain waves. <i>MRS Bulletin</i> , 2018, 43, 854-859.	3.5	8
44	Generation and stability of dynamical skyrmions and droplet solitons. <i>Nanotechnology</i> , 2018, 29, 325302.	2.6	8
45	Partial spin reversal in magnetic deflagration. <i>Physical Review B</i> , 2014, 89, .	3.2	6
46	Twinned-domain-induced magnonic modes in epitaxial LSMO/STO films. <i>New Journal of Physics</i> , 2017, 19, 063002.	2.9	5
47	Microwave detection of magnetic phase avalanches in La _{0.225} Pr _{0.4} Ca _{0.375} MnO ₃ manganites. <i>Europhysics Letters</i> , 2008, 82, 37005.	2.0	3
48	Spin reversal in Fe ₈ under fast pulsed magnetic fields. <i>New Journal of Physics</i> , 2015, 17, 073006.	2.9	3
49	Anisotropic spin-wave patterns generated by spin-torque nano-oscillators. <i>Journal of Applied Physics</i> , 2011, 109, 07C733.	2.5	2
50	Zero-field quantum tunneling relaxation of the molecular spin in Fe ₈ observed by ⁵⁷ Fe Mössbauer spectrometry. <i>Europhysics Letters</i> , 2014, 108, 47004.	2.0	2
51	Singlet-to-triplet interconversion using hyperfine as well as ferromagnetic fringe fields. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140326.	3.4	2
52	A new twist on organic spintronics: controlling transport in organic sandwich devices using fringe fields from ferromagnetic films. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1
53	Ex vivo assessment and in vivo validation of non-invasive stent monitoring techniques based on microwave spectrometry. <i>Scientific Reports</i> , 2018, 8, 14808.	3.3	1
54	Preface to Special Issue on Magneto-Elastic Effects. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 190301.	1.8	1

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55	Zur Promotion katalytischer Reaktionen durch akustische Oberflächenwellen. Angewandte Chemie, 2020, 132, 20399-20405.	2.0	1
56	Effect of the Zhang-Li torque on spin-torque nano-oscillators. Physical Review B, 2020, 102, .	3.2	1
57	Efficient spin pumping into metallic SrVO3 epitaxial films. Journal of Magnetism and Magnetic Materials, 2022, 546, 168871.	2.3	1
58	Magnetic-field-induced transition from metastable spin glass to possible antiferromagnetic-ferromagnetic phase separation in Cd _{0.5} Cu _{0.5} Cr ₂ O ₄ . Journal of Magnetism and Magnetic Materials, 2009, 321, 2102-2106.	2.3	0
59	Innen-1/4-cktitelbild: Zur Promotion katalytischer Reaktionen durch akustische Oberflächenwellen (Angew. Chem. 45/2020). Angewandte Chemie, 2020, 132, 20423-20423.	2.0	0