

# 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	Efficient spin pumping into metallic SrVO <sub>3</sub> epitaxial films. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 546, 168871.	2.3	1
2	Innenr¼cktitelbild: Zur Promotion katalytischer Reaktionen durch akustische OberflÄchenwellen ( <i>Angew. Chem.</i> 45/2020). <i>Angewandte Chemie</i> , 2020, 132, 20423-20423.	2.0	0
3	On the Promotion of Catalytic Reactions by Surface Acoustic Waves. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20224-20229.	13.8	9
4	Zur Promotion katalytischer Reaktionen durch akustische OberflÄchenwellen. <i>Angewandte Chemie</i> , 2020, 132, 20399-20405.	2.0	1
5	Magnetic droplet solitons. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	14
6	Effect of the Zhang-Li torque on spin-torque nano-oscillators. <i>Physical Review B</i> , 2020, 102, .	3.2	1
7	Generation and Imaging of Magnetoacoustic Waves over Millimeter Distances. <i>Physical Review Letters</i> , 2020, 124, 137202.	7.8	49
8	Large Nonreciprocal Propagation of Surface Acoustic Waves in Epitaxial Ferromagnetic/Semiconductor Hybrid Structures. <i>Physical Review Applied</i> , 2020, 13, .	3.8	50
9	Preface to Special Issue on Magneto-Elastic Effects. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 190301.	1.8	1
10	Multiple magnetic droplet soliton modes. <i>Physical Review B</i> , 2019, 99, .	3.2	9
11	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
12	Generation and annihilation time of magnetic droplet solitons. <i>Scientific Reports</i> , 2018, 8, 6847.	3.3	15
13	Subnanosecond magnetization dynamics driven by strain waves. <i>MRS Bulletin</i> , 2018, 43, 854-859.	3.5	8
14	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
15	Generation and stability of dynamical skyrmions and droplet solitons. <i>Nanotechnology</i> , 2018, 29, 325302.	2.6	8
16	Electric-Field-Adjustable Time-Dependent Magnetolectric Response in Martensitic FeRh Alloy. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 15577-15582.	8.0	29
17	Twinned-domain-induced magnonic modes in epitaxial LSMO/STO films. <i>New Journal of Physics</i> , 2017, 19, 063002.	2.9	5
18	Effect of Temperature on Magnetic Solitons Induced by Spin-Transfer Torque. <i>Physical Review Applied</i> , 2017, 7, .	3.8	15

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19	Direct observation of multivalent states and charge transfer in Ce-doped yttrium iron garnet thin films. <i>Physical Review B</i> , 2017, 96, .	12.8	72
20	Direct imaging of delayed magneto-dynamic modes induced by surface acoustic waves. <i>Nature Communications</i> , 2017, 8, 407.	12.8	72
21	Thickness and temperature dependence of the magnetodynamic damping of pulsed laser deposited La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> on (111)-oriented SrTiO <sub>3</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 420, 280-284.	2.3	17
22	Describing synchronization and topological excitations in arrays of magnetic spin torque oscillators through the Kuramoto model. <i>Scientific Reports</i> , 2016, 6, 32528.	3.3	35
23	Tailoring the magnetodynamic properties of nanomagnets using magnetocrystalline and shape anisotropies. <i>Physical Review B</i> , 2015, 92, .	3.2	15
24	Observation of droplet soliton drift resonances in a spin-transfer-torque nanocontact to a ferromagnetic thin film. <i>Physical Review B</i> , 2015, 92, .	3.2	36
25	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
26	Direct Observation of a Localized Magnetic Soliton in a Spin-Transfer Nanocontact. <i>Physical Review Letters</i> , 2015, 115, 127205.	7.8	56
27	Direct observation and imaging of a spin-wave soliton with p-like symmetry. <i>Nature Communications</i> , 2015, 6, 8889.	12.8	52
28	Spin reversal in Fe <sub>8</sub> under fast pulsed magnetic fields. <i>New Journal of Physics</i> , 2015, 17, 073006.	2.9	3
29	Eddy current interactions in a ferromagnet-normal metal bilayer structure, and its impact on ferromagnetic resonance lineshapes. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	26
30	Zero-field quantum tunneling relaxation of the molecular spin in Fe <sub>8</sub> observed by <sup>57</sup> Fe Mössbauer spectrometry. <i>Europhysics Letters</i> , 2014, 108, 47004.	2.0	2
31	Stable magnetic droplet solitons in spin-transfer nanocontacts. <i>Nature Nanotechnology</i> , 2014, 9, 992-996.	31.5	79
32	Partial spin reversal in magnetic deflagration. <i>Physical Review B</i> , 2014, 89, .	3.2	6
33	Spin wave excitation patterns generated by spin torque oscillators. <i>Nanotechnology</i> , 2014, 25, 045303.	2.6	21
34	Thickness dependence of dynamic and static magnetic properties of pulsed laser deposited La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> films on SrTiO <sub>3</sub> (001). <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 369, 197-204.	2.3	40
35	Organic magneto-electroluminescence for room temperature transduction between magnetic and optical information. <i>Nature Communications</i> , 2014, 5, 3609.	12.8	38
36	Hysteretic control of organic conductance due to remanent magnetic fringe fields. <i>Applied Physics Letters</i> , 2013, 102, 042408.	3.3	8

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37	Onset of a Propagating Self-Sustained Spin Reversal Front in a Magnetic System. Physical Review Letters, 2013, 110, 207203.	7.8	16
38	A new twist on organic spintronics: controlling transport in organic sandwich devices using fringe fields from ferromagnetic films. Proceedings of SPIE, 2013, , .	0.8	1
39	Including fringe fields from a nearby ferromagnet in a percolation theory of organic magnetoresistance. Physical Review B, 2013, 87, .	3.2	12
40	Magnetic Fringe-Field Control of Electronic Transport in an Organic Film. Physical Review X, 2012, 2, .	8.9	21
41	Perpendicular magnetic anisotropy in ultrathin multilayer films studied with ferromagnetic resonance and magnetic x-ray microspectroscopy. Journal of Magnetism and Magnetic Materials, 2012, 324, 3629-3632.	2.3	36
42	Spin-wave interference patterns created by spin-torque nano-oscillators for memory and computation. Nanotechnology, 2011, 22, 095301.	2.6	71
43	Anisotropic spin-wave patterns generated by spin-torque nano-oscillators. Journal of Applied Physics, 2011, 109, 07C733.	2.5	2
44	Magnetic deflagration in $Gd_5Ge_4$ . Physical Review B, 2010, 81, .	1.2	20
45	Effects of quantum mechanics on the deflagration threshold in the molecular magnet $Mn_{12}Ac_4$ . Physical Review B, 2009, 79, .	3.2	21
46	Propagation of Magnetic Avalanches in $Mn_{12}Ac_4$ at High Field Sweep Rates. Physical Review Letters, 2009, 102, 027203.	7.8	27
47	The role of thermal coupling on avalanches in manganites. Journal of Physics Condensed Matter, 2009, 21, 406005.	1.8	12
48	Magnetic-field-induced transition from metastable spin glass to possible antiferromagnetic-ferromagnetic phase separation in $Cd_{0.5}Cu_{0.5}Cr_2O_4$ . Journal of Magnetism and Magnetic Materials, 2009, 321, 2102-2106.	2.3	0
49	Phonon-induced quantum magnetic deflagration in. Journal of Magnetism and Magnetic Materials, 2008, 320, 1457-1463.	2.3	10
50	Spin dynamics in single-molecule magnets combining surface acoustic waves and high-frequency electron paramagnetic resonance. Physical Review B, 2008, 77, .	3.2	14
51	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
52	Magneto-optical imaging of magnetic deflagration in $Mn_{12}$ -Acetate. Europhysics Letters, 2008, 84, 67010.	2.0	9
53	Microwave detection of magnetic phase avalanches in $La_{0.225}Pr_{0.4}Ca_{0.375}MnO_3$ manganites. Europhysics Letters, 2008, 82, 37005.	2.0	3
54	Magnetic fingerprints of the very fast jumps of colossal magnetoresistance in the phase-separated manganite $La_{0.225}Pr_{0.4}Ca_{0.375}MnO_3$ .	3.2	12

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55	Observation of phonon-induced magnetic deflagration in manganites. Physical Review B, 2007, 76, .	3.2	36
56	Acoustomagnetic pulse experiments in LiNbO <sub>3</sub> •Mn <sup>2+</sup> hybrids. Applied Physics Letters, 2006, 88, 012503.	3.3	15
57	Deterministic spontaneous avalanches in MnCr molecular magnets. Europhysics Letters, 2006, 75, 811-817.	2.0	11
58	Quantum Magnetic Deflagration in Mn <sup>2+</sup> Acetate. Physical Review Letters, 2005, 95, 217205.	7.8	66
59	Engineering the frequency correlations of entangled two-photon states by achromatic phase matching. Optics Letters, 2005, 30, 314.	3.3	44