

Michel Hehn

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4426226/michel-hehn-publications-by-citations.pdf>

Version: 2024-04-29

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

247
papers

6,302
citations

40
h-index

71
g-index

261
ext. papers

7,160
ext. citations

4.8
avg, IF

5.4
L-index

#	Paper	IF	Citations
247	Engineered materials for all-optical helicity-dependent magnetic switching. <i>Nature Materials</i> , 2014 , 13, 286-92	27	401
246	All-optical control of ferromagnetic thin films and nanostructures. <i>Science</i> , 2014 , 345, 1337-40	33.3	393
245	Nanoscale Magnetic Domains in Mesoscopic Magnets. <i>Science</i> , 1996 , 272, 1782-5	33.3	336
244	Giant Magnetoresistive Effects in a Single Element Magnetic Thin Film. <i>Physical Review Letters</i> , 1996 , 77, 1580-1583	7.4	265
243	Nanoscale magnetic domain structures in epitaxial cobalt films. <i>Physical Review B</i> , 1996 , 54, 3428-3433	3.3	219
242	Interlayer magnetic coupling interactions of two ferromagnetic layers by spin polarized tunneling. <i>Physical Review Letters</i> , 2002 , 89, 107206	7.4	204
241	High tunnel magnetoresistance in epitaxial Fe/MgO/Fe tunnel junctions. <i>Applied Physics Letters</i> , 2003 , 82, 4507-4509	3.4	146
240	Light-induced magnetization reversal of high-anisotropy TbCo alloy films. <i>Applied Physics Letters</i> , 2012 , 101, 162408	3.4	134
239	Interfacial resonance state probed by spin-polarized tunneling in epitaxial Fe/MgO/Fe tunnel junctions. <i>Physical Review Letters</i> , 2004 , 93, 106602	7.4	123
238	The defining length scales of mesomagnetism: a review. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, R1175-R1262	1.8	117
237	Giant spin-dependent thermoelectric effect in magnetic tunnel junctions. <i>Nature Communications</i> , 2012 , 3, 744	17.4	102
236	Artificial kagome arrays of nanomagnets: a frozen dipolar spin ice. <i>Physical Review Letters</i> , 2011 , 106, 057209	7.4	96
235	Two types of all-optical magnetization switching mechanisms using femtosecond laser pulses. <i>Physical Review B</i> , 2016 , 94,	3.3	94
234	Magnetic and structural anisotropies of Co ₂ FeAl Heusler alloy epitaxial thin films. <i>Physical Review B</i> , 2011 , 84,	3.3	87
233	Fragmentation of magnetism in artificial kagome dipolar spin ice. <i>Nature Communications</i> , 2016 , 7, 11446	7.4	76
232	Experimental study of spin-wave dispersion in Py/Pt film structures in the presence of an interface Dzyaloshinskii-Moriya interaction. <i>Physical Review B</i> , 2015 , 91,	3.3	75
231	Ultrafast angular momentum transfer in multisublattice ferrimagnets. <i>Nature Communications</i> , 2014 , 5, 3466	17.4	73

230	Spin tunnelling phenomena in single-crystal magnetic tunnel junction systems. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 165201	1.8	72
229	Wide range and tunable linear magnetic tunnel junction sensor using two exchange pinned electrodes. <i>Applied Physics Letters</i> , 2009 , 95, 112502	3.4	69
228	Hot-Electron-Induced Ultrafast Demagnetization in Co/Pt Multilayers. <i>Physical Review Letters</i> , 2016 , 117, 147203	7.4	69
227	Evidence of a symmetry-dependent metallic barrier in fully epitaxial MgO based magnetic tunnel junctions. <i>Physical Review Letters</i> , 2007 , 99, 187202	7.4	63
226	Creation of Magnetic Skyrmion Bubble Lattices by Ultrafast Laser in Ultrathin Films. <i>Nano Letters</i> , 2018 , 18, 7362-7371	11.5	56
225	Correlation between micromagnetism and tunnel magnetoresistance in magnetic tunnel junctions using artificial ferrimagnets. <i>Physical Review B</i> , 2000 , 61, 580-593	3.3	53
224	Spin-orbit torque-induced switching in ferrimagnetic alloys: Experiments and modeling. <i>Applied Physics Letters</i> , 2018 , 112, 062401	3.4	52
223	Epitaxial MgO layer for low-resistance and coupling-free magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2002 , 81, 1035-1037	3.4	52
222	Domain size criterion for the observation of all-optical helicity-dependent switching in magnetic thin films. <i>Physical Review B</i> , 2016 , 94,	3.3	49
221	Unidirectional thermal effects in current-induced domain wall motion. <i>Physical Review Letters</i> , 2012 , 109, 106601	7.4	49
220	Large and robust electrical spin injection into GaAs at zero magnetic field using an ultrathin CoFeB/MgO injector. <i>Physical Review B</i> , 2014 , 90,	3.3	47
219	Tantalum oxide as an alternative low height tunnel barrier in magnetic junctions. <i>Applied Physics Letters</i> , 2001 , 78, 3274-3276	3.4	47
218	Ultrafast Magnetization Manipulation Using Single Femtosecond Light and Hot-Electron Pulses. <i>Advanced Materials</i> , 2017 , 29, 1703474	24	45
217	High bias voltage effect on spin-dependent conductivity and shot noise in carbon-doped Fe(001)/MgO(001)/Be(001) magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2007 , 91, 132504	3.4	45
216	Static and dynamic aspects of spin tunnelling in crystalline magnetic tunnel junctions. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 941-956	1.8	44
215	Tunnel barrier parameters and magnetoresistance in the parabolic band model. <i>Physical Review B</i> , 2001 , 64,	3.3	44
214	Fe/MgO interface engineering for high-output-voltage device applications. <i>Applied Physics Letters</i> , 2006 , 88, 062512	3.4	43
213	Helicity-dependent all-optical domain wall motion in ferromagnetic thin films. <i>Physical Review B</i> , 2018 , 97,	3.3	42

212	Anisotropies, cone states, and stripe domains in Co/Pt multilayers. <i>Journal of Applied Physics</i> , 1997 , 81, 4751-4753	2.5	42
211	Electrical characterization of all-optical helicity-dependent switching in ferromagnetic Hall crosses. <i>Applied Physics Letters</i> , 2016 , 108, 092405	3.4	42
210	Role of critical spin fluctuations in ultrafast demagnetization of transition-metal rare-earth alloys. <i>Physical Review B</i> , 2013 , 87,	3.3	41
209	Very low 1/f noise at room temperature in fully epitaxial Fe/MgO/Fe magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2007 , 91, 232504	3.4	41
208	Subpicosecond magnetization dynamics in TbCo alloys. <i>Physical Review B</i> , 2014 , 89,	3.3	40
207	Magnetoresistive effects in perpendicularly magnetized Tb-Co alloy based thin films and spin valves. <i>Journal of Applied Physics</i> , 2012 , 111, 083904	2.5	39
206	Large inverse magnetoresistance in fully epitaxial Fe/Fe ₃ O ₄ /MgO/Co magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2008 , 92, 053508	3.4	38
205	Magnetoresistance of ferromagnetic tunnel junctions with Al ₂ O ₃ barriers formed by rf sputter etching in Ar/O ₂ plasma. <i>Applied Physics Letters</i> , 1998 , 73, 698-700	3.4	37
204	Magnetic field SAW sensors based on magnetostrictive-piezoelectric layered structures: FEM modeling and experimental validation. <i>Sensors and Actuators A: Physical</i> , 2016 , 240, 41-49	3.9	36
203	Chiral nature of magnetic monopoles in artificial spin ice. <i>New Journal of Physics</i> , 2013 , 15, 035026	2.9	36
202	Determining the interfacial barrier height and its relation to tunnel magnetoresistance. <i>Physical Review B</i> , 2002 , 65,	3.3	36
201	Behavior of platinum/tantalum as interdigital transducers for SAW devices in high-temperature environments. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011 , 58, 603-10	3.2	34
200	Single-Shot Multi-Level All-Optical Magnetization Switching Mediated by Spin Transport. <i>Advanced Materials</i> , 2018 , 30, e1804004	2.4	34
199	Unipolar and Bipolar High-Magnetic-Field Sensors Based on Surface Acoustic Wave Resonators. <i>Physical Review Applied</i> , 2017 , 8,	4.3	33
198	Magnetic origin of enhanced top exchange biasing in Py/IrMn/Py multilayers. <i>Physical Review B</i> , 2003 , 68,	3.3	33
197	Thermal Contribution to the Spin-Orbit Torque in Metallic-Ferrimagnetic Systems. <i>Physical Review Applied</i> , 2018 , 9,	4.3	33
196	Measurement of the dynamical dipolar coupling in a pair of magnetic nanodisks using a ferromagnetic resonance force microscope. <i>Physical Review Letters</i> , 2012 , 109, 247602	7.4	32
195	Materials and devices for all-optical helicity-dependent switching. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 133002	3	31

194	Long-Range Phase Coherence in Double-Barrier Magnetic Tunnel Junctions with a Large Thick Metallic Quantum Well. <i>Physical Review Letters</i> , 2015 , 115, 157204	7.4	30
193	Artificial antiferromagnetic tunnel junction sensors based on Co/Ru/Co sandwiches. <i>Journal of Applied Physics</i> , 1999 , 85, 5276-5278	2.5	30
192	Localized states in advanced dielectrics from the vantage of spin- and symmetry-polarized tunnelling across MgO. <i>Nature Communications</i> , 2014 , 5, 4547	17.4	29
191	Investigating the role of superdiffusive currents in laser induced demagnetization of ferromagnets with nanoscale magnetic domains. <i>Scientific Reports</i> , 2014 , 4, 4658	4.9	28
190	Engineering magnetic responses in hcp cobalt thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 1997 , 165, 520-523	2.8	28
189	Nonuniversality of artificial frustrated spin systems. <i>Physical Review B</i> , 2014 , 90,	3.3	27
188	Kinetic pathways to the magnetic charge crystal in artificial dipolar spin ice. <i>Physical Review B</i> , 2014 , 90,	3.3	26
187	Stochastic and complex depinning dynamics of magnetic domain walls. <i>Physical Review B</i> , 2011 , 83,	3.3	26
186	Reorientational magnetic transition in mesoscopic cobalt dots. <i>Applied Physics Letters</i> , 1997 , 71, 2833-2835	3.4	26
185	Nanoscale magnetic domains in mesoscopic dots: Experimental and theoretical investigations of zero field domain structures. <i>Journal of Magnetism and Magnetic Materials</i> , 1997 , 165, 5-8	2.8	26
184	A tunable magnetic metamaterial based on the dipolar four-state Potts model. <i>Nature Materials</i> , 2018 , 17, 1076-1080	27	26
183	Reversal mechanism, switching field distribution, and dipolar frustrations in Co/Pt bit pattern media based on auto-assembled anodic alumina hexagonal nanobump arrays. <i>Physical Review B</i> , 2014 , 89,	3.3	25
182	Seebeck nanoantennas for solar energy harvesting. <i>Applied Physics Letters</i> , 2014 , 105, 093108	3.4	25
181	Static and dynamic magnetic properties of epitaxial Co ₂ FeAl Heusler alloy thin films. <i>Journal of Applied Physics</i> , 2011 , 109, 07D324	2.5	25
180	Magnetic properties of postoxidized Pt/Co/Al layers with perpendicular anisotropy. <i>Applied Physics Letters</i> , 2007 , 90, 192506	3.4	25
179	Size distribution of magnetic charge domains in thermally activated but out-of-equilibrium artificial spin ice. <i>Scientific Reports</i> , 2014 , 4, 5702	4.9	24
178	From Multiple- to Single-Pulse All-Optical Helicity-Dependent Switching in Ferromagnetic Co/Pt Multilayers. <i>Physical Review Applied</i> , 2019 , 12,	4.3	23
177	Tunneling magnetoresistance and induced domain structure in Al ₂ O ₃ -based junctions. <i>Physical Review B</i> , 2000 , 61, 11643-11648	3.3	23

176	Magnetic domain structures in arrays of submicron Co dots studied with magnetic force microscopy. <i>Journal of Applied Physics</i> , 2000 , 87, 5111-5113	2.5	23
175	Independence of spin-orbit torques from the exchange bias direction in Ni ₈₁ Fe ₁₉ /IrMn bilayers. <i>Physical Review B</i> , 2018 , 98,	3.3	23
174	Experimental evidence of interface resonance states in single-crystal magnetic tunnel junctions. <i>Physical Review B</i> , 2008 , 78,	3.3	22
173	Picosecond acoustic-excitation-driven ultrafast magnetization dynamics in dielectric Bi-substituted yttrium iron garnet. <i>Physical Review B</i> , 2018 , 98,	3.3	22
172	Electrical spin injection into InGaAs/GaAs quantum wells: A comparison between MgO tunnel barriers grown by sputtering and molecular beam epitaxy methods. <i>Applied Physics Letters</i> , 2014 , 105, 012404	3.4	21
171	Spin-orbit torque switching of a ferromagnet with picosecond electrical pulses. <i>Nature Electronics</i> , 2020 , 3, 680-686	28.4	20
170	Current-Induced Spin Torques on Single GdFeCo Magnetic Layers. <i>Advanced Materials</i> , 2021 , 33, e2007047	4.7	20
169	Interfacial Spin-Orbit Coupling: A Platform for Superconducting Spintronics. <i>Physical Review Applied</i> , 2020 , 13,	4.3	19
168	Periodic arrays of magnetic nanostructures by depositing Co/Pt multilayers on the barrier layer of ordered anodic alumina templates. <i>Applied Physics Letters</i> , 2012 , 101, 013110	3.4	19
167	Impact of electron-electron interactions induced by disorder at interfaces on spin-dependent tunneling in Co-Fe-B/MgO/Co-Fe-B magnetic tunnel junctions. <i>Physical Review B</i> , 2010 , 82,	3.3	19
166	Magnetic domain wall propagation in a submicron spin-valve stripe: Influence of the pinned layer. <i>Applied Physics Letters</i> , 2008 , 92, 032508	3.4	19
165	Controlling shot noise in double-barrier magnetic tunnel junctions. <i>Physical Review Letters</i> , 2012 , 109, 066601	7.4	17
164	Tunneling in double barrier junctions with "hot spots". <i>Physical Review Letters</i> , 2010 , 105, 047207	7.4	17
163	Seebeck nanoantennas for the detection and characterization of infrared radiation. <i>Optics Express</i> , 2014 , 22 Suppl 6, A1538-46	3.3	16
162	Spin-orbit coupling effect by minority interface resonance states in single-crystal magnetic tunnel junctions. <i>Physical Review B</i> , 2012 , 86,	3.3	16
161	360° domain wall generation in the soft layer of magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2008 , 92, 072501	3.4	16
160	Using antiferromagnetic/ferromagnetic bilayers as detection layers in magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2003 , 83, 4372-4374	3.4	16
159	Structural and magnetic study of submicronic single crystal cobalt box arrays. <i>Journal of Applied Physics</i> , 1996 , 79, 5068	2.5	16

158	Intrinsic versus shape anisotropy in micro-structured magnetostrictive thin films for magnetic surface acoustic wave sensors. <i>Smart Materials and Structures</i> , 2019 , 28, 12LT01	3.4	15
157	On the control of spin flop in synthetic antiferromagnetic films. <i>Journal of Applied Physics</i> , 2011 , 109, 103911	2.5	15
156	Asymmetric magnetization reversal in dipolarly coupled spin valve structures with perpendicular magnetic anisotropy. <i>Physical Review B</i> , 2012 , 85,	3.3	15
155	Magnetic field-induced instabilities and irreversible evolution in modulated ferromagnetic phases of cobalt films. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 247, 147-152	2.8	15
154	The effect of annealing on magnetic properties of Co/Gd multilayers. <i>Vacuum</i> , 2015 , 120, 9-12	3.7	14
153	Real time atomic force microscopy imaging during nanogap formation by electromigration. <i>Nanotechnology</i> , 2012 , 23, 365302	3.4	14
152	Spin filtering effects in monocrystalline Fe/MgO/Fe magnetic tunnel junctions. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006 , 126, 112-119	3.1	14
151	Low-resistance magnetic tunnel junctions with an MgO/Al ₂ O ₃ composite tunnel barrier: Asymmetric transport characteristics and free electron modeling of a self-limited oxidation bilayer. <i>Physical Review B</i> , 2006 , 73,	3.3	14
150	Electrical Initialization of Electron and Nuclear Spins in a Single Quantum Dot at Zero Magnetic Field. <i>Nano Letters</i> , 2018 , 18, 2381-2386	11.5	13
149	Atomic-scale understanding of high thermal stability of the Mo/CoFeB/MgO spin injector for spin-injection in remanence. <i>Nanoscale</i> , 2018 , 10, 10213-10220	7.7	13
148	Hot-electron transport and ultrafast magnetization dynamics in magnetic multilayers and nanostructures following femtosecond laser pulse excitation. <i>European Physical Journal B</i> , 2018 , 91, 1	1.2	13
147	Angular magnetic field sensor for automotive applications based on magnetic tunnel junctions using a current loop layout configuration. <i>Sensors and Actuators A: Physical</i> , 2008 , 144, 263-266	3.9	13
146	Probing a Device@ Active Atoms. <i>Advanced Materials</i> , 2017 , 29, 1606578	24	12
145	Magnetic vortices in single crystalline Fe-V disks with four folds magnetic anisotropy. <i>Applied Physics Letters</i> , 2012 , 100, 192406	3.4	12
144	Magnetoresistance in an amorphous exchange-coupled bilayer. <i>Physical Review B</i> , 2009 , 79,	3.3	12
143	Extraction of COM parameters on Pt/LGS for high temperature SAW sensor 2008 ,		12
142	Roughness-induced instability in stripe domain patterns. <i>Physical Review B</i> , 2000 , 62, 6467-6474	3.3	12
141	Slow-Wave-Based Nanomagnonic Diode. <i>Physical Review Applied</i> , 2020 , 14,	4.3	12

140	Manipulating exchange bias using all-optical helicity-dependent switching. <i>Physical Review B</i> , 2017 , 96,	3.3	11
139	From single to multiple pulse all-optical switching in GdFeCo thin films. <i>Physical Review B</i> , 2019 , 100,	3.3	11
138	Coherent Resonant Tunneling through Double Metallic Quantum Well States. <i>Nano Letters</i> , 2019 , 19, 3019-3026	11.5	11
137	Generation and manipulation of domain walls using a thermal gradient in a ferrimagnetic TbCo wire. <i>Applied Physics Letters</i> , 2015 , 106, 242403	3.4	11
136	Temperature compensated magnetic field sensor based on love waves. <i>Smart Materials and Structures</i> , 2020 , 29, 045036	3.4	11
135	Thermally activated domain wall motion in [Co/Ni](111) superlattices with perpendicular magnetic anisotropy. <i>Applied Physics Letters</i> , 2015 , 106, 062406	3.4	11
134	Observation of an ordered new compound Co _{1-x} Ru _x prepared by MBE on a Ru buffer layer. <i>Journal of Magnetism and Magnetic Materials</i> , 1997 , 165, 176-179	2.8	11
133	Single-shot time-resolved magnetic x-ray absorption at a free-electron laser. <i>Physical Review B</i> , 2019 , 99,	3.3	10
132	Enhanced magnetoresistance by monoatomic roughness in epitaxial Fe/MgO/Fe tunnel junctions. <i>Physical Review B</i> , 2015 , 91,	3.3	10
131	Impact of buffer layer and Pt thickness on the interface structure and magnetic properties in (Co/Pt) multilayers. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 336005	1.8	10
130	Bias Dependence of the Electrical Spin Injection into GaAs from Co ₂ FeB/MgO Injectors with Different MgO Growth Processes. <i>Physical Review Applied</i> , 2017 , 8,	4.3	10
129	Extraordinary Hall effect based magnetic logic applications. <i>Applied Physics Letters</i> , 2015 , 106, 052406	3.4	10
128	Local Magnetic Anisotropy Induced by a Nano-Modulated Substrate and Application to Two-Dimensional Magnetic Sensors. <i>Applied Physics Express</i> , 2010 , 3, 073002	2.4	10
127	Nanoscale magnetic domains in mesoscopic dots: Micromagnetic investigation of magnetisation processes. <i>Journal of Magnetism and Magnetic Materials</i> , 1997 , 165, 9-12	2.8	10
126	The ferromagnetic domain wall as a GMR trilayer. <i>Journal of Magnetism and Magnetic Materials</i> , 1997 , 165, 121-124	2.8	10
125	Interlayer magnetic coupling in Fe/MgO junctions characterized by vector magnetization measurements combined with polarized neutron reflectometry. <i>Physical Review B</i> , 2008 , 78,	3.3	10
124	Magnetic studies of Fe/Cu multilayers. <i>Physica B: Condensed Matter</i> , 2008 , 403, 2509-2514	2.8	10
123	A two-axis magnetometer using a single magnetic tunnel junction. <i>IEEE Sensors Journal</i> , 2004 , 4, 313-321	10	

122	Antiferromagnetic coupling by spin polarized tunneling. <i>Journal of Applied Physics</i> , 2003 , 93, 7519-7521	2.5	10
121	Ultrafast hot-electron induced quenching of Tb 4f magnetic order. <i>Physical Review B</i> , 2017 , 96,	3.3	9
120	Element-resolved ultrafast demagnetization rates in ferrimagnetic CoDy. <i>Physical Review B</i> , 2017 , 96,	3.3	9
119	Controlling All-Optical Helicity-Dependent Switching in Engineered Rare-Earth Free Synthetic Ferrimagnets. <i>Advanced Science</i> , 2019 , 6, 1901876	13.6	9
118	Energy-Efficient Domain-Wall Motion Governed by the Interplay of Helicity-Dependent Optical Effect and Spin-Orbit Torque. <i>Physical Review Applied</i> , 2019 , 11,	4.3	9
117	Enhanced Performance Love Wave Magnetic Field Sensors With Temperature Compensation. <i>IEEE Sensors Journal</i> , 2020 , 20, 11292-11301	4	9
116	Experimental Study of Multilayer Piezo-magnetic SAW Delay Line for Magnetic Sensor. <i>Procedia Engineering</i> , 2015 , 120, 870-873		9
115	Structural defects analysis versus spin polarized tunneling in Co ₂ FeAl/MgO/CoFe magnetic tunnel junctions with thick MgO barriers. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 347, 79-85	2.8	9
114	Pump-probe experiments at the TEMPO beamline using the low-operation mode of Synchrotron SOLEIL. <i>Journal of Synchrotron Radiation</i> , 2017 , 24, 886-897	2.4	9
113	Phase diagram in exchange-coupled CoTb/[Co/Pt] multilayer-based magnetic tunnel junctions. <i>Physical Review B</i> , 2015 , 92,	3.3	9
112	Modulation of interlayer exchange coupling by ion irradiation in magnetic tunnel junctions. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 055219	1.8	9
111	A high magnetic field sensor based on magnetic tunnel junctions. <i>EPJ Applied Physics</i> , 2004 , 28, 79-81	1.1	9
110	Superconductivity-induced change in magnetic anisotropy in epitaxial ferromagnet-superconductor hybrids with spin-orbit interaction. <i>Physical Review B</i> , 2020 , 102,	3.3	9
109	Engineering Single-Shot All-Optical Switching of Ferromagnetic Materials. <i>Nano Letters</i> , 2020 , 20, 8654-8660	8.9	9
108	Evidence of Pure Spin-Current Generated by Spin Pumping in Interface-Localized States in Hybrid Metal-Silicon-Metal Vertical Structures. <i>Nano Letters</i> , 2019 , 19, 90-99	11.5	9
107	Resolving the role of magnetic circular dichroism in multishot helicity-dependent all-optical switching. <i>Physical Review B</i> , 2019 , 100,	3.3	8
106	Interfacial trapping for hot electron injection in silicon. <i>Applied Physics Letters</i> , 2013 , 103, 022407	3.4	8
105	Magnetic configurations in multilayers: Temperature dependent cone states and narrow stripe domains. <i>Journal of Magnetism and Magnetic Materials</i> , 1997 , 165, 387-390	2.8	8

104	Influence of an interface domain wall on spin-valve giant magnetoresistance. <i>Applied Physics Letters</i> , 2008 , 93, 222503	3-4	8
103	Magnetic tunnel junctions with a zinc oxide/cobalt oxide composite tunnel barrier. <i>Applied Physics Letters</i> , 2005 , 86, 112505	3-4	8
102	Domain duplication in magnetic tunnel junctions studied by Kerr microscopy. <i>Physical Review B</i> , 2001 , 63,	3-3	8
101	Hot-electron three-terminal devices based on magnetic tunnel junction stacks. <i>Physical Review B</i> , 2002 , 66,	3-3	8
100	Magnetic anisotropy and domain duplication in transport properties of tunnel junctions. <i>Physical Review B</i> , 2000 , 62, 11344-11346	3-3	8
99	Perpendicularly magnetized CoFeB multilayers with tunable interlayer exchange for synthetic ferrimagnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 432, 260-265	2.8	7
98	Tunneling Spintronics across MgO Driven by Double Oxygen Vacancies. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600390	6.4	7
97	Comparison between Ir, Ir _{0.85} Rh _{0.15} and Ir _{0.7} Rh _{0.3} thin films as electrodes for surface acoustic waves applications above 800 °C in air atmosphere. <i>Sensors and Actuators A: Physical</i> , 2017 , 266, 211-218 ³⁻⁹		7
96	Spin-driven electrical power generation at room temperature. <i>Communications Physics</i> , 2019 , 2,	5-4	7
95	Laser-induced ultrafast demagnetization and perpendicular magnetic anisotropy reduction in a Co ₈₈ Tb ₁₂ thin film with stripe domains. <i>Physical Review B</i> , 2020 , 102,	3-3	7
94	Study of InAlAs/InGaAs self-switching diodes for energy harvesting applications. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 014304	1.4	7
93	Compact modeling of a magnetic tunnel junction using VHDL-AMS: computer aided design of a two-axis magnetometer		7
92	Field-dependent domain structure evolution in artificial ferrimagnets analyzed by spin-polarized tunnel transport in magnetic tunnel junctions. <i>Physical Review B</i> , 2001 , 64,	3-3	7
91	Application to dielectric, metallic, and magnetic samples of a transmission mode scanning near field optical microscope with normal force distance regulation on bent optical fibers. <i>Review of Scientific Instruments</i> , 1999 , 70, 4587-4594	1.7	7
90	Metalliclike behavior of the exchange coupling in (001) Fe/MgO/Fe junctions. <i>Physical Review B</i> , 2017 , 96,	3-3	6
89	Consolidated picture of tunnelling spintronics across oxygen vacancy states in MgO. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 305302	3	6
88	Probing the antiferromagnetic-paramagnetic transition in artificial spin ice by tuning interactions. <i>Physical Review B</i> , 2020 , 101,	3-3	6
87	Intrinsic thermally compensated field sensor based on single magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2004 , 84, 1204-1206	3-4	6

86	Development of a magnetic tunnel transistor based on a double tunnel junction. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 1097-1099	2.8	6
85	Correlation between structural quality and magnetic properties of IrMn-based multilayers. <i>Journal of Applied Physics</i> , 2005 , 98, 113903	2.5	6
84	Hot-electron transport in 3-terminal devices based on magnetic tunnel junctions. <i>Europhysics Letters</i> , 2002 , 60, 896-902	1.6	6
83	Energy Efficient Control of Ultrafast Spin Current to Induce Single Femtosecond Pulse Switching of a Ferromagnet. <i>Advanced Science</i> , 2020 , 7, 2001996	13.6	6
82	Suppression of all-optical switching in He ⁺ -irradiated Co/Pt multilayers: influence of the domain-wall energy. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 215004	3	5
81	Electrical control of interfacial trapping for magnetic tunnel transistor on silicon. <i>Applied Physics Letters</i> , 2014 , 104, 042408	3.4	5
80	Interfaces anisotropy in single crystal V/Fe/V trilayer. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 372, 233-235	2.8	5
79	Theoretical and experimental study of layered SAW magnetic sensor 2014 ,		5
78	Angular dependence of tunnel magnetoresistance in magnetic tunnel junctions and specific aspects in spin-filtering devices. <i>Journal of Applied Physics</i> , 2010 , 108, 063912	2.5	5
77	Finite tunnel magnetoresistance at the compensation point of Sm _{1-x} Gd _x Al ₂ , a ferromagnetic electrode with zero magnetization. <i>Applied Physics Letters</i> , 2011 , 98, 232504	3.4	5
76	Low-height sputter-deposited magnesium oxide tunnel barriers: experimental report and free electron modeling. <i>European Physical Journal B</i> , 2004 , 40, 19-23	1.2	5
75	Domain duplication in ferromagnetic sandwiches. <i>Journal of Applied Physics</i> , 2001 , 89, 8006-8010	2.5	5
74	Interlayer magnetic coupling in Co/Ru/CoAg and Co/Cu/CoAg trilayer films: Effect of Ag impurities on the exchange coupling. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 156, 267-268	2.8	5
73	Time-Resolved XUV Absorption Spectroscopy and Magnetic Circular Dichroism at the Ni M _{2,3} -Edges. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 325	2.6	5
72	All-optical Helicity-Independent Switching State Diagram in Gd-Fe-Co Alloys. <i>Physical Review Applied</i> , 2021 , 15,	4.3	5
71	Symmetry broken spin reorientation transition in epitaxial MgO/Fe/MgO layers with competing anisotropies. <i>Scientific Reports</i> , 2018 , 8, 9463	4.9	5
70	Statistical study of domain-wall depinning induced by magnetic field and current in an epitaxial Co/Ni-based spin-valve wire. <i>Physical Review B</i> , 2018 , 98,	3.3	5
69	Sensing Mechanism of Surface Acoustic Wave Magnetic Field Sensors Based on Ferromagnetic Films. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021 , 68, 2566-2575	3.2	5

68	Domain-wall motion induced by spin transfer torque delivered by helicity-dependent femtosecond laser. <i>Physical Review B</i> , 2019 , 99,	3.3	4
67	MgO magnetic tunnel junctions of enduring F-type upon annealing. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 435004	3	4
66	ELECTRONIC, STRUCTURAL AND MAGNETIC PROPERTIES OF Co ₂ FeAl THIN FILMS FOR POTENTIAL SPINTRONIC APPLICATIONS. <i>Spin</i> , 2014 , 04, 1440022	1.3	4
65	Fe/MgO/Fe (100) textured tunnel junctions exhibiting spin polarization features of single crystal junctions. <i>Applied Physics Letters</i> , 2012 , 100, 072408	3.4	4
64	Influence of a TiO ₂ buffer layer on the magnetic properties of anatase Co:TiO ₂ thin films. <i>Journal of Applied Physics</i> , 2012 , 111, 083917	2.5	4
63	New measurement method to characterize piezoelectric saw substrates at very high temperature 2008 ,		4
62	Domain walls unmasked during domain duplication in ferromagnetic tunnel junctions. <i>Physical Review B</i> , 2004 , 69,	3.3	4
61	Magnetostatic interactions in artificial ferrimagnet based magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2001 , 89, 6811-6813	2.5	4
60	A phase shift in the coupling in Co/sub 1-x/Ag/sub x/Cu/Co/sub 1-x/Ag/sub x/ systems. <i>IEEE Transactions on Magnetics</i> , 1995 , 31, 3924-3926	2	4
59	Magnetic tunnel transistor with a perpendicular Co/Ni multilayer sputtered on a Si/Cu(1 0 0) Schottky diode. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 355003	3	4
58	Ultrafast demagnetization in buried Co ₈₀ Dy ₂₀ as fingerprint of hot-electron transport. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 485, 320-324	2.8	3
57	Stability of a pinned magnetic domain wall as a function of its internal configuration. <i>Journal of Applied Physics</i> , 2015 , 117, 023909	2.5	3
56	Thickness and angular dependence of the magnetocurrent of hot electrons in a magnetic tunnel transistor with crossed anisotropies. <i>Physical Review B</i> , 2017 , 96,	3.3	3
55	Terahertz harvesting with shape-optimized InAlAs/InGaAs self-switching nanodiodes. <i>AIP Advances</i> , 2015 , 5, 117238	1.5	3
54	Computational analysis of a spiral thermoelectric nanoantenna for solar energy harvesting applications 2014 ,		3
53	Energy-resolved magnetic domain imaging in TbCo alloys by valence band photoemission magnetic circular dichroism. <i>Physical Review B</i> , 2013 , 88,	3.3	3
52	Impact of the interface magnetic disorder on the exchange bias between ferromagnetic and antiferromagnetic layers. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 3385-3391	1.8	3
51	Magnetic-roughness-induced magnetostatic interactions in magnetic tunnel junctions. <i>European Physical Journal B</i> , 2002 , 26, 431-434	1.2	3

50	Flux-gate like 2D magnetometer based on a single magnetic tunnel junction. <i>EPJ Applied Physics</i> , 2005 , 30, 113-116	1.1	3
49	Magnetic properties of self-organized epitaxial cobalt structures. <i>Journal of Applied Physics</i> , 1999 , 85, 5498-5500	2.5	3
48	Dependence of the interlayer exchange coupling on the constitution of the magnetic layers. <i>Journal of Applied Physics</i> , 1996 , 79, 4528	2.5	3
47	Strong Reduction of 1/f Noise by Carbon Doping in Epitaxial Fe/MgO(100) 12 ML/Fe Magnetic Tunnel Junctions with Barrier Defects. <i>Acta Physica Polonica A</i> , 2012 , 121, 981-984	0.6	3
46	Microstructured Multilayered Surface-Acoustic-Wave Device for Multifunctional Sensing. <i>Physical Review Applied</i> , 2020 , 14,	4.3	3
45	Direct Imaging of Chiral Domain Walls and Néel-Type Skyrmionium in Ferrimagnetic Alloys. <i>Advanced Functional Materials</i> , 2021 , 31, 2102307	15.6	3
44	Origins of large light induced voltage in magnetic tunnel junctions grown on semiconductor substrates. <i>Journal of Applied Physics</i> , 2016 , 119, 023907	2.5	3
43	Oxygen-vacancy driven tunnelling spintronics across MgO 2016 ,		3
42	Superconductivity assisted change of the perpendicular magnetic anisotropy in V/MgO/Fe junctions. <i>Scientific Reports</i> , 2021 , 11, 19041	4.9	3
41	Observation of Micromagnetic Configurations in Mesoscopic Magnetic Elements 2001 , 332-378		3
40	Ultrafast magnetic scattering on ferrimagnets enabled by a bright Yb-based soft x-ray source. <i>Optica</i> , 2022 , 9, 399	8.6	3
39	Optoelectronic domain-wall motion for logic computing. <i>Applied Physics Letters</i> , 2020 , 116, 252403	3.4	2
38	Reversible response of a magnetic surface acoustic wave device with perpendicular magnetization. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 305002	3	2
37	Notice of Removal: SAW resonators for magnetic field sensing with (TbCo ₂ /FeCo) multilayered IDTs as sensitive layer 2017 ,		2
36	Energy levels of interacting curved nanomagnets in a frustrated geometry: increasing accuracy when using finite difference methods. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 296001	1.8	2
35	Indirect localization of a magnetic domain wall mediated by quasi walls. <i>Scientific Reports</i> , 2015 , 5, 9815	4.9	2
34	Domain Confinement in Mesoscopic Epitaxial Cobalt Patches 1997 , 485-497		2
33	Compositional control of interlayer magnetic coupling in Co/Ru/Co(Ag) and Co/Cu/Co(Ag) trilayer films. <i>Journal of Magnetism and Magnetic Materials</i> , 1997 , 165, 465-467	2.8	2

32	Spin polarized tunneling as a probe for quantitative analysis of field dependent domain structure in magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2001 , 89, 6668-6670	2.5	2
31	To which extent is the influence of each electrode of a magnetic tunnel junction separable?. <i>Journal of Applied Physics</i> , 2002 , 91, 7020	2.5	2
30	Tunnel magnetoresistance versus micromagnetism in magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2000 , 87, 4676-4678	2.5	2
29	Enhanced robustness and tunnel magnetoresistance in artificial ferrimagnet based tunnel junctions. <i>Journal of Applied Physics</i> , 2000 , 87, 4685-4687	2.5	2
28	Generation of spin waves via spin-phonon interaction in a buried dielectric thin film. <i>Physical Review B</i> , 2021 , 103,	3.3	2
27	Symmetry-state features in a global analysis of the temperature-dependent spin transport in Fe/MgO/Fe junctions. <i>Physical Review B</i> , 2018 , 98,	3.3	2
26	Epitaxial growth of TbFe on piezoelectric LiNbO Z-cut. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 235803	1.8	1
25	Towards Thermal Reading of Magnetic States in Hall Crosses. <i>Physical Review Applied</i> , 2018 , 9,	4.3	1
24	Tunneling anisotropic magnetoresistance in fully epitaxial magnetic tunnel junctions with different barriers. <i>Applied Physics Letters</i> , 2018 , 112, 242404	3.4	1
23	Kerr and Faraday microscope for space- and time-resolved studies. <i>European Physical Journal B</i> , 2014 , 87, 1	1.2	1
22	Engineering of spin filtering in double epitaxial tunnel junctions. <i>Journal of Applied Physics</i> , 2006 , 99, 08A903	2.5	1
21	Structure and magnetic properties of epitaxial cobalt islands. <i>European Physical Journal B</i> , 2002 , 25, 167-176	1.7	1
20	Magnetic singularities in self-organized epitaxial cobalt structures. <i>IEEE Transactions on Magnetics</i> , 1998 , 34, 1084-1086	2	1
19	Artifacts in magnetic force microscopy under in-plane applied magnetic field: Magnetic bubble as a case study. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 500, 166296	2.8	1
18	Tunable Stochasticity in an Artificial Spin Network. <i>Advanced Materials</i> , 2021 , 33, e2008135	2.4	1
17	Magnetic correlations in polycrystalline Tb _{0.15} Co _{0.85} . <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 335302	2.5	1
16	Low-Energy Spin Precession in the Molecular Field of a Magnetic Thin Film. <i>Annalen Der Physik</i> , 2021 , 533, 2000470	2.6	1
15	Spin-transport Mediated Single-shot All-optical Magnetization Switching of Metallic Films. <i>Journal of the Physical Society of Japan</i> , 2021 , 90, 081009	1.5	1

14	Wireless Multifunctional Surface Acoustic Wave Sensor for Magnetic Field and Temperature Monitoring. <i>Advanced Materials Technologies</i> , 2100860	6.8	o
13	Tailoring femtosecond hot-electron pulses for ultrafast spin manipulation. <i>Applied Physics Letters</i> , 2020 , 117, 222408	3.4	o
12	Laser induced ultrafast 3d and 4f spin dynamics in CoDy ferrimagnetic alloys as a function of temperature. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 530, 167883	2.8	o
11	Ferrimagnet GdFeCo Characterization for Spin-Orbitronics: Large Field-Like and Damping-Like Torques. <i>Physica Status Solidi - Rapid Research Letters</i> , 2200035	2.5	o
10	Atomic scale structure and local chemistry of CoFeB-MgO perpendicular spin injector 2016 , 1060-1061		
9	Shot Noise in Epitaxial Double-Barrier Magnetic Tunnel Junctions. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 4347-4350	2	
8	Magneto-Resistance and Induced Domain Structure in Tunnel Junctions. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 674, 1		
7	Nanoscale magnetic domains in mesoscopic dots: Experimental and theoretical investigations of zero field domain structures. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 163, 5-8	2.8	
6	Nanoscale magnetic domains in mesoscopic dots: Micromagnetic investigation of magnetisation processes. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 164, 9-12	2.8	
5	Boosting Room Temperature Tunnel Magnetoresistance in Hybrid Magnetic Tunnel Junctions Under Electric Bias. <i>Advanced Electronic Materials</i> , 2100805	6.4	
4	Magnetoresistive properties of cobalt thin films grown by plasma-assisted atomic layer deposition. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 105002	3	
3	Element- and time-resolved dynamics in rare-earth/transition metals alloys. <i>Springer Proceedings in Physics</i> , 2015 , 310-312	0.2	
2	All-Optical Switching in CoTb Alloys: Composition and Thickness Dependent Studies. <i>Springer Proceedings in Physics</i> , 2015 , 244-247	0.2	
1	Spin-polarized resonant surface state in (1 1 1) Sm Gd Al, a zero-magnetization ferromagnet. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 435501	1.8	