

# Abdelmadjid Anane

## List of Publications by Year in descending order

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87  
papers

6,129  
citations

87888

38  
h-index

66911

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g-index

90  
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90  
docs citations

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times ranked

6728  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nearly total spin polarization in La <sub>2</sub> /3Sr <sub>1</sub> /3MnO <sub>3</sub> from tunneling experiments. Applied Physics Letters, 2003, 82, 233-235.	3.3	673
2	Opportunities and challenges for spintronics in the microelectronics industry. Nature Electronics, 2020, 3, 446-459.	26.0	471
3	Highly efficient spin transport in epitaxial graphene on SiC. Nature Physics, 2012, 8, 557-561.	16.7	392
4	Matching domain-wall configuration and spin-orbit torques for efficient domain-wall motion. Physical Review B, 2013, 87, .	3.2	333
5	Evidence for Room-Temperature Multiferroicity in a Compound with a Giant Axial Ratio. Physical Review Letters, 2009, 102, 217603.	7.8	331
6	Magnetic semiconductors based on cobalt substituted ZnO. Journal of Applied Physics, 2003, 93, 7676-7678.	2.5	218
7	Generation of coherent spin-wave modes in yttrium iron garnet microdiscs by spin-orbit torque. Nature Communications, 2016, 7, 10377.	12.8	206
8	Inverse spin Hall effect in nanometer-thick yttrium iron garnet/Pt system. Applied Physics Letters, 2013, 103, 082408.	3.3	194
9	Magnetic thin-film insulator with ultra-low spin wave damping for coherent nanomagnonics. Scientific Reports, 2014, 4, 6848.	3.3	189
10	Vertical-current-induced domain-wall motion in MgO-based magnetic tunnel junctions with low current densities. Nature Physics, 2011, 7, 626-630.	16.7	156
11	Ultra-low damping insulating magnetic thin films get perpendicular. Nature Communications, 2018, 9, 3355.	12.8	144
12	Full Control of the Spin-Wave Damping in a Magnetic Insulator Using Spin-Orbit Torque. Physical Review Letters, 2014, 113, 197203.	7.8	143
13	Graphene-Passivated Nickel as an Oxidation-Resistant Electrode for Spintronics. ACS Nano, 2012, 6, 10930-10934.	14.6	138
14	Approaching soft X-ray wavelengths in nanomagnet-based microwave technology. Nature Communications, 2016, 7, 11255.	12.8	137
15	Magnetic tunnel junctions with monolayer hexagonal boron nitride tunnel barriers. Applied Physics Letters, 2016, 108, .	3.3	118
16	Magnetization oscillations and waves driven by pure spin currents. Physics Reports, 2017, 673, 1-31.	25.6	113
17	Spintronics with graphene. MRS Bulletin, 2012, 37, 1245-1254.	3.5	112
18	Sub-nanometer Atomic Layer Deposition for Spintronics in Magnetic Tunnel Junctions Based on Graphene Spin-Filtering Membranes. ACS Nano, 2014, 8, 7890-7895.	14.6	109

#	ARTICLE	IF	CITATIONS
19	Noise Probe of the Dynamic Phase Separation in $\text{La}_{2/3}\text{Ca}_{1/3}\text{MnO}_3$ . <i>Physical Review Letters</i> , 2000, 84, 4485-4488.	7.8	108
20	Colossal resistive relaxation effects in $\text{aPr}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$ single crystal. <i>Physical Review B</i> , 1999, 59, 77-80.	3.2	98
21	Influence of controlled oxygen vacancies on the magnetotransport and magnetostructural phenomena in $\text{La}_{0.85}\text{Sr}_{0.15}\text{MnO}_3$ single crystals. <i>Physical Review B</i> , 1997, 56, 6031-6035.	3.2	95
22	Spin-wave propagation in ultra-thin YIG based waveguides. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	91
23	Insulator-to-Metallic Spin-Filtering in 2D-Magnetic Tunnel Junctions Based on Hexagonal Boron Nitride. <i>ACS Nano</i> , 2018, 12, 4712-4718.	14.6	88
24	Are $\text{Al}_2\text{O}_3$ and $\text{MgO}$ tunnel barriers suitable for spin injection in graphene?. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	82
25	High-efficiency control of spin-wave propagation in ultra-thin yttrium iron garnet by the spin-orbit torque. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	79
26	2D-MTJs: introducing 2D materials in magnetic tunnel junctions. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 203002.	2.8	68
27	Measurement of the intrinsic damping constant in individual nanodisks of $\text{Y}_3\text{Fe}_5\text{O}_{12}$ and $\text{Y}_3\text{Fe}_5\text{O}_{12}$   Pt. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	65
28	Protecting nickel with graphene spin-filtering membranes: A single layer is enough. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	65
29	Weak ferromagnetism in. <i>European Physical Journal B</i> , 1999, 11, 401.	1.5	64
30	Magnetism of $(\text{Zn},\text{Co})\text{O}$ thin films probed by x-ray absorption spectroscopies. <i>Applied Physics Letters</i> , 2008, 92, 012509.	3.3	60
31	Ultrafast spin-currents and charge conversion at $\text{d}/\text{s-d}$ interfaces probed by time-domain terahertz spectroscopy. <i>Applied Physics Reviews</i> , 2020, 7, .	11.3	57
32	Transport properties and magnetic behaviour of $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ single crystals. <i>Journal of Physics Condensed Matter</i> , 1995, 7, 7015-7021.	1.8	53
33	Jahn-Teller effect and ferromagnetic ordering in $\text{La}_{0.875}\text{Sr}_{0.125}\text{MnO}_3$ : A reentrant behaviour. <i>Physica B: Condensed Matter</i> , 1997, 234-236, 856-858.	2.7	49
34	Emission of Coherent Propagating Magnons by Insulator-Based Spin-Orbit-Torque Oscillators. <i>Physical Review Applied</i> , 2018, 10, .	3.8	44
35	Spin-orbit-torque magnonics. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	41
36	Current-induced motion and pinning of domain walls in spin-valve nanowires studied by XMCD-PEEM. <i>Physical Review B</i> , 2010, 81, .	3.2	40

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37	High domain wall velocities via spin transfer torque using vertical current injection. Scientific Reports, 2013, 3, 1829.	3.3	39
38	Electrical properties of epitaxial yttrium iron garnet ultrathin films at high temperatures. Physical Review B, 2018, 97, .	3.2	39
39	Room-Temperature Antiferromagnetic Resonance and Inverse Spin-Hall Voltage in Canted Antiferromagnets. Physical Review Letters, 2021, 126, 187201.	7.8	39
40	Growth and characterization of TiO <sub>2</sub> as a barrier for spin-polarized tunneling. Applied Physics Letters, 2003, 82, 3269-3271.	3.3	38
41	Nonlinear spin conductance of yttrium iron garnet thin films driven by large spin-orbit torque. Physical Review B, 2018, 97, .	3.2	35
42	Spin wave amplification using the spin Hall effect in permalloy/platinum bilayers. Applied Physics Letters, 2016, 108, .	3.3	34
43	Large intrinsic anomalous Hall effect in SrIrO <sub>3</sub> induced by magnetic proximity effect. Nature Communications, 2021, 12, 3283.	12.8	34
44	Magnetic domain wall motion by spin transfer. Comptes Rendus Physique, 2011, 12, 309-317.	0.9	30
45	Direct observation of dynamic modes excited in a magnetic insulator by pure spin current. Scientific Reports, 2016, 6, 32781.	3.3	30
46	Investigating magnetic proximity effects at ferrite/Pt interfaces. Applied Physics Letters, 2017, 111, .	3.3	28
47	Homogeneous pinhole free 1â€%nm Al <sub>2</sub> O <sub>3</sub> tunnel barriers on graphene. Applied Physics Letters, 2012, 101, .	3.3	25
48	Nutation Spectroscopy of a Nanomagnet Driven into Deeply Nonlinear Ferromagnetic Resonance. Physical Review X, 2019, 9, .	8.9	24
49	Evidence for spin current driven Bose-Einstein condensation of magnons. Nature Communications, 2021, 12, 6541.	12.8	21
50	Thermally activated magnetization reversal in nanometer-size iron particles. Physical Review B, 2000, 63, .	3.2	19
51	Experimental studies of colossal magnetoresistance manganites: effects of oxygen non-stoichiometry, <sup>55</sup> Mn nuclear magnetic resonance, slow relaxation near the metal-insulator phase transition. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1999, 63, 22-29.	3.5	18
52	Frequency Filtering with a Magnonic Crystal Based on Nanometer-Thick Yttrium Iron Garnet Films. ACS Applied Nano Materials, 2021, 4, 121-128.	5.0	18
53	Enhancement of the magnetoresistance due to structural transition in Mgâ€%doped perovskite Mn oxides. Applied Physics Letters, 1996, 69, 1160-1162.	3.3	17
54	Voltage-Controlled Reconfigurable Magnonic Crystal at the Sub-micrometer Scale. ACS Nano, 2021, 15, 9775-9781.	14.6	15

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55	Conductivity and magnetoresistance of $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ and $\text{La}_{1-x}\text{Sr}_x\text{Mn}_{1-y}\text{Mg}_y\text{O}_3$ single crystals. <i>Journal of Magnetism and Magnetic Materials</i> , 1997, 165, 377-379.	2.3	14
56	Electrical noise from phase separation in $\text{Pr}_{2/3}\text{Ca}_{1/3}\text{MnO}_3$ single crystal. <i>Journal of Applied Physics</i> , 2000, 87, 5025-5027.	2.5	14
57	Anomalous and planar Righi-Leduc effects in $\text{Ni}_{80}\text{Fe}_{20}$ ferromagnets. <i>Physical Review B</i> , 2016, 94, .	3.2	14
58	Thermal spin torques in magnetic insulators. <i>Physical Review B</i> , 2017, 95, .	3.2	13
59	Ferromagnetic tunnel contacts to graphene: Contact resistance and spin signal. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	12
60	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.	9.1	12
61	Resonant translational, breathing, and twisting modes of transverse magnetic domain walls pinned at notches. <i>Physical Review B</i> , 2016, 93, .	3.2	11
62	Design optimization for a SmCo-biased colossal magnetoresistive thin film device. <i>Journal of Applied Physics</i> , 2000, 87, 5350-5352.	2.5	10
63	Tracking picosecond strain pulses in heterostructures that exhibit giant magnetostriction. <i>Structural Dynamics</i> , 2019, 6, 024302.	2.3	10
64	Optical Frequency Up-Conversion of the Ferromagnetic Resonance in an Ultrathin Garnet Mediated by Magnetoelastic Coupling. <i>Physical Review Letters</i> , 2021, 127, 077203.	7.8	10
65	Giant nonlinear self-phase modulation of large-amplitude spin waves in microscopic YIG waveguides. <i>Scientific Reports</i> , 2022, 12, 7246.	3.3	8
66	Current-induced resonant depinning of a transverse magnetic domain wall in a spin valve nanostrip. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	7
67	Temperature dependence of the Gilbert damping of $\text{La}_{0.4}\text{Mn}_{0.7}\text{O}_3$ thin films. <i>Physical Review Materials</i> , 2022, 6, .	2.4	7
68	Electrical measurement of magnetic-field-impeded polarity switching of a ferromagnetic vortex core. <i>Physical Review B</i> , 2016, 94, .	3.2	6
69	Dispersionless Propagation of Ultrashort Spin-Wave Pulses in Ultrathin Yttrium Iron Garnet Waveguides. <i>Physical Review Applied</i> , 2021, 16, .	3.8	6
70	Spin pumping in $d$ -wave superconductor-ferromagnet hybrids. <i>Physical Review B</i> , 2021, 104, .	3.2	6
71	Electrical noise as evidence for phase separation in manganites. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 290-291, 1168-1171.	2.3	5
72	Spin Seebeck effect in nanometer-thick YIG micro-fabricated strips. <i>AIP Advances</i> , 2017, 7, 055924.	1.3	5

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73	Nanometer scale mapping of cobalt in Al-doped ferromagnetic Zn <sub>0.7</sub> Co <sub>0.3</sub> O thin film. EPJ Applied Physics, 2006, 33, 109-113.	0.7	4
74	Magnetic Proximity Effect Free Spin Hall Magnetoresistance in YIG/Pd. Spin, 2017, 07, 1740005.	1.3	4
75	Active Ferromagnetic Metasurface with Topologically Protected Spin Texture for Spectral Filters. Advanced Functional Materials, 0, , 2203466.	14.9	4
76	Magnetotransport in microstripes patterned in ultrathin cobalt films. Journal of Magnetism and Magnetic Materials, 1997, 165, 349-351.	2.3	3
77	1/f noise in magnetite films. Journal of Applied Physics, 1999, 85, 5582-5584.	2.5	3
78	Structural and magnetic properties of Co-doped (La,Sr)TiO <sub>3</sub> epitaxial thin films probed using x-ray magnetic circular dichroism. Journal of Physics Condensed Matter, 2009, 21, 406001.	1.8	3
79	Determining Key Spin-Orbitronic Parameters via Propagating Spin Waves. Physical Review Applied, 2020, 13, .	3.8	3
80	Chirality-mediated bistability and strong frequency downshifting of the gyrotropic resonance of a magnetic vortex due to dynamic destiffening. Physical Review B, 2017, 96, .	3.2	2
81	Ultrafast strain excitation in highly magnetostrictive terfenol: Experiments and theory. Physical Review B, 2021, 104, .	3.2	2
82	Anane and von Molnár Reply. Physical Review Letters, 2001, 86, 1391-1391.	7.8	1
83	Publisher's Note: Electrical measurement of magnetic-field-impeded polarity switching of a ferromagnetic vortex core [Phys. Rev. B 94, 100402(R) (2016)]. Physical Review B, 2016, 94, .	3.2	1
84	Spin Transport in Carbon Nanotubes and Graphene: Experiments and Theory. , 2016, , 681-706.		1
85	Spin transport in graphene: Fundamental concepts and practical implications. , 2012, , .		0
86	Anomalous and planar Righi-Leduc effects measured in ferromagnetic YIG and NiFe (Presentation) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.8	0
87	Spin Transport in Carbon Nanotubes and Graphene: Experiments and Theory. , 2015, , 1-21.		0