

# Frédéric Bonell

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

2,530  
citations

279798

23  
h-index

223800

46  
g-index

47  
all docs

47  
docs citations

47  
times ranked

2750  
citing authors

#	ARTICLE	IF	CITATIONS
1	High carrier mobility in single-crystal PtSe <sub>2</sub> grown by molecular beam epitaxy on ZnO(0001). 2D Materials, 2022, 9, 015015.	4.4	10
2	Evidence for highly p-type doping and type II band alignment in large scale monolayer WSe <sub>2</sub> /Se-terminated GaAs heterojunction grown by molecular beam epitaxy. Nanoscale, 2022, 14, 5859-5868.	5.6	12
3	Large-scale epitaxy of two-dimensional van der Waals room-temperature ferromagnet Fe <sub>5</sub> GeTe <sub>2</sub> . Npj 2D Materials and Applications, 2022, 6, .	7.9	37
4	Effect of crystallinity and thickness on thermal transport in layered PtSe <sub>2</sub> . Npj 2D Materials and Applications, 2022, 6, .	7.9	12
5	Control of spin-charge conversion in van der Waals heterostructures. APL Materials, 2021, 9, .	5.1	20
6	Absence of Magnetic Proximity Effect at the Interface of $\text{Bi}_2\text{Se}_3/\text{PtSe}_2$ and $\text{Bi}_2\text{Te}_3/\text{PtSe}_2$		

#	ARTICLE	IF	CITATIONS
19	Enhanced magnetoresistance by monoatomic roughness in epitaxial Fe/MgO/Fe tunnel junctions. Physical Review B, 2015, 91, .	3.2	13
20	Influence of an electric field on the spin-reorientation transition in Ni/Cu(100). Applied Physics Letters, 2014, 105, 152903.	3.3	6
21	Spectroscopic and transport studies of $\text{Co}_x\text{Fe}_{1-x}/\text{MgO}(001)$ -based magnetic tunnel junctions. Physical Review B, 2014, 90, .	3.2	14
22	Spin-dependent tunneling in magnetic tunnel junctions with Fe nanoparticles embedded in an MgO matrix. Solid State Communications, 2014, 183, 18-21.	1.9	10
23	Magnetotransport in MgO-based magnetic tunnel junctions grown by molecular beam epitaxy (invited). Journal of Applied Physics, 2014, 115, 172610.	2.5	4
24	Spin-orbit torque in a bulk perpendicular magnetic anisotropy Pd/FePd/MgO system. Scientific Reports, 2014, 4, 6548.	3.3	59
25	MgO overlayer thickness dependence of perpendicular magnetic anisotropy in CoFeB thin films. Journal of the Korean Physical Society, 2013, 62, 1461-1464.	0.7	21
26	Fabrication of Fe/MgO/Gd Magnetic Tunnel Junctions. IEEE Transactions on Magnetics, 2013, 49, 4417-4420.	2.1	2
27	Investigation of Au and Ag segregation on Fe(001) with soft X-ray absorption. Surface Science, 2013, 616, 125-130.	1.9	7
28	Future prospects of MRAM technologies. , 2013, , .		42
29	Opposite signs of voltage-induced perpendicular magnetic anisotropy change in CoFeB   MgO junctions with different underlayers. Applied Physics Letters, 2013, 103, .	3.3	89
30	Bias dependence of tunneling magnetoresistance in magnetic tunnel junctions with asymmetric barriers. Journal of Physics Condensed Matter, 2013, 25, 496005.	1.8	26
31	Detailed analysis of spin-dependent quantum interference effects in magnetic tunnel junctions with Fe quantum wells. Applied Physics Letters, 2013, 102, 032406.	3.3	10
32	Reversible change in the oxidation state and magnetic circular dichroism of Fe driven by an electric field at the FeCo/MgO interface. Applied Physics Letters, 2013, 102, .	3.3	72
33	Composition Dependence of Perpendicular Magnetic Anisotropy in $\text{Ta}/\text{Co}_x/\text{Fe}_{80-x}/\text{B}_{20}/\text{MgO}/\text{Ta}$ ( $x=0, 10, 60$ ) Multilayers. Journal of Magnetics, 2013, 18, 5-8.	0.4	8
34	Pulse voltage-induced dynamic magnetization switching in magnetic tunneling junctions with high resistance-area product. Applied Physics Letters, 2012, 101, .	3.3	77
35	Induction of coherent magnetization switching in a few atomic layers of FeCo using voltage pulses. Nature Materials, 2012, 11, 39-43.	27.5	659
36	Influence of Oxygen Monolayer at Fe/MgO Interface on Transport Properties in Fe/MgO/Fe(001) Magnetic Tunnel Junctions. Applied Physics Express, 2012, 5, 023001.	2.4	12

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37	Spin-Polarized Electron Tunneling in $\text{FeCo}/\text{MgO}/\text{FeCo}$ Tunnel Junctions. <i>Physical Review Letters</i> , 2008, 101, 176602.	7.8	56
38	Electric-field-induced ferromagnetic resonance excitation in an ultrathin ferromagnetic metal layer. <i>Nature Physics</i> , 2012, 8, 491-496.	16.7	223
39	Mechanism of the lattice relaxation in thin epitaxial films of iron oxides: Generalization from the case of ilmenite to hematite solid solution. <i>Surface Science</i> , 2011, 605, 1043-1047.	1.9	8
40	Large change in perpendicular magnetic anisotropy induced by an electric field in FePd ultrathin films. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	88
41	Quantitative Evaluation of Voltage-Induced Magnetic Anisotropy Change by Magnetoresistance Measurement. <i>Applied Physics Express</i> , 2011, 4, 043005.	2.4	111
42	Influence of misfit dislocations on the magnetoresistance of MgO-based epitaxial magnetic tunnel junctions. <i>Physical Review B</i> , 2010, 82, .	3.2	51
43	Strongly suppressed 1/f noise and enhanced magnetoresistance in epitaxial $\text{Fe}/\text{MgO}/\text{Fe}$ magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	26
44	TEM and EELS measurements of interface roughness in epitaxial $\text{Fe}/\text{MgO}/\text{Fe}$ magnetic tunnel junctions. <i>Physical Review B</i> , 2009, 79, .	3.2	30
45	Consequences of interfacial Fe-O bonding and disorder in epitaxial $\text{Fe}/\text{MgO}/\text{Fe}(001)$ magnetic tunnel junctions. <i>Physical Review B</i> , 2009, 79, .	3.2	50
46	MgO-Based Epitaxial Magnetic Tunnel Junctions Using Fe-V Electrodes. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 3467-3471.	2.1	24
47	Influence of interfacial oxygen on single-crystal magnetic tunnel junctions. <i>EPJ Applied Physics</i> , 2008, 43, 357-361.	0.7	7