

# Graham E Rowlands

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Nanosecond-Timescale Low Energy Switching of In-Plane Magnetic Tunnel Junctions through Dynamic Oersted-Field-Assisted Spin Hall Effect. Nano Letters, 2016, 16, 5987-5992.	9.1	119
2	Deep subnanosecond spin torque switching in magnetic tunnel junctions with combined in-plane and perpendicular polarizers. Applied Physics Letters, 2011, 98, .	3.3	82
3	Nonlinear ferromagnetic resonance induced by spin torque in nanoscale magnetic tunnel junctions. Applied Physics Letters, 2013, 103, 082402.	3.3	51
4	Macrospin modeling of sub-ns pulse switching of perpendicularly magnetized free layer via spin-orbit torques for cryogenic memory applications. Applied Physics Letters, 2014, 105, .	3.3	50
5	Quantum reservoir computing with a single nonlinear oscillator. Physical Review Research, 2021, 3, .	3.6	50
6	Nanosecond magnetization dynamics during spin Hall switching of in-plane magnetic tunnel junctions. Applied Physics Letters, 2017, 110, .	3.3	27
7	A cryogenic spin-torque memory element with precessional magnetization dynamics. Scientific Reports, 2019, 9, 803.	3.3	25
8	Cryogenic Memory Architecture Integrating Spin Hall Effect based Magnetic Memory and Superconductive Cryotron Devices. Scientific Reports, 2020, 10, 248.	3.3	25
9	Efficient switching of 3-terminal magnetic tunnel junctions by the giant spin Hall effect of Pt85Hf15 alloy. Applied Physics Letters, 2018, 112, .	3.3	22
10	A critical analysis of the feasibility of pure strain-actuated giant magnetostrictive nanoscale memories. Journal of Applied Physics, 2015, 118, .	2.5	16
11	Time Domain Mapping of Spin Torque Oscillator Effective Energy. Physical Review Letters, 2013, 111, 087206.	7.8	11
12	Nonlinear input transformations are ubiquitous in quantum reservoir computing. Neuromorphic Computing and Engineering, 2022, 2, 014008.	5.9	9
13	Hilbert space as a computational resource in reservoir computing. Physical Review Research, 2022, 4, .	3.6	9
14	Sub-nanosecond switching in a cryogenic spin-torque spin-valve memory element with a dilute permalloy free layer. Applied Physics Letters, 2019, 114, 212402.	3.3	8
15	Symmetry-aware reservoir computing. Physical Review E, 2021, 104, 045307.	2.1	8
16	Nanosecond Reversal of Three-Terminal Spin-Hall-Effect Memories Sustained at Cryogenic Temperatures. Physical Review Applied, 2021, 15, .	3.8	4
17	Ultrafast spin torque memory based on magnetic tunnel junctions with combined in-plane and perpendicular polarizers. , 2012, , .		1
18	Cryogenic MRAMS for Superconducting Computers. , 2021, , .		0