

# Richard P Campion

## List of Publications by Year in descending order

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78

papers

4,197

citations

201575

27

h-index

106281

65

g-index

79

all docs

79

docs citations

79

times ranked

4302

citing authors

#	ARTICLE		IF	CITATIONS
1	Defect-driven antiferromagnetic domain walls in CuMnAs films. <i>Nature Communications</i> , 2022, 13, 724.		5.8	8
2	Atomically sharp domain walls in an antiferromagnet. <i>Science Advances</i> , 2022, 8, eabn3535.		4.7	12
3	Protected Long-Distance Guiding of Hypersound Underneath a Nanocorrugated Surface. <i>ACS Nano</i> , 2021, 15, 4802-4810.		7.3	4
4	Hysteretic effects and magnetotransport of electrically switched CuMnAs. <i>Physical Review B</i> , 2021, 104, .		1.1	5
5	Asymmetric magnetic relaxation behavior of domains and domain walls observed through the FeRh first-order metamagnetic phase transition. <i>Physical Review B</i> , 2020, 102, .		1.1	8
6	Molecular beam epitaxy of CuMnAs. <i>Physical Review Materials</i> , 2020, 4, .		0.9	14
7	Modeling Photocathode Performance Using MedeA-VASP Simulation Software. <i>IEEE Transactions on Nuclear Science</i> , 2020, 67, 1987-1992.		1.2	0
8	Modelling Photocathode Performance using Density Functional Theory., 2019, ,.			1
9	Terahertz electrical writing speed in an antiferromagnetic memory. <i>Science Advances</i> , 2018, 4, eaar3566.		4.7	221
10	Current polarity-dependent manipulation of antiferromagnetic domains. <i>Nature Nanotechnology</i> , 2018, 13, 362-365.		15.6	116
11	A high electron mobility phonotransistor. <i>Communications Physics</i> , 2018, 1, .		2.0	3
12	Investigation of exchange coupled bilayer Fe/CuMnAs by pumpâ€“probe experiment. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017, 11, 1600441.		1.2	3
13	Nanoscale thermoelectrical detection of magnetic domain wall propagation. <i>Physical Review B</i> , 2017, 95, .		1.1	17
14	Electrical switching of an antiferromagnet. <i>Science</i> , 2016, 351, 587-590.		6.0	1,049
15	Coherent phonon optics in a chip with an electrically controlled active device. <i>Scientific Reports</i> , 2015, 5, 8279.		1.6	9
16	Paramagnetic to antiferromagnetic transition in epitaxial tetragonal CuMnAs (invited). <i>Journal of Applied Physics</i> , 2015, 117, .		1.1	9
17	III-V semiconductor waveguides for photonic functionality at 780 nm. , 2014, ,.			1
18	Determining Curie temperatures in dilute ferromagnetic semiconductors: High Curie temperature (Ga,Mn)As. <i>Applied Physics Letters</i> , 2014, 104, .		1.5	29

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19	Spin-dependent phenomena and device concepts explored in (Ga,Mn)As. <i>Reviews of Modern Physics</i> , 2014, 86, 855-896.		16.4	141
20	An antidamping spin-orbit torque originating from the Berry curvature. <i>Nature Nanotechnology</i> , 2014, 9, 211-217.		15.6	273
21	Piezoelectric control of the mobility of a domain wall driven by adiabatic and non-adiabatic torques. <i>Nature Materials</i> , 2013, 12, 808-814.		13.3	64
22	Magnetic and structural properties of (Ga,Mn)As/(Al,Ga,Mn)As bilayer films. <i>Applied Physics Letters</i> , 2013, 102, 112404.		1.5	5
23	Spin gating electrical current. <i>Applied Physics Letters</i> , 2012, 101, .		1.5	14
24	Electrical excitation and detection of magnetic dynamics with impedance matching. <i>Applied Physics Letters</i> , 2012, 101, 182402.		1.5	3
25	Analysing Surface Structures on (Ga, Mn)As by Atomic Force Microscopy. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 7545-7549.		0.9	0
26	Non-volatile ferroelectric gating of magnetotransport anisotropy in (Ga,Mn)(As,P). <i>Applied Physics Letters</i> , 2012, 100, .		1.5	6
27	Anion modulation epitaxy (AME), an alternative growth strategy for group III-nitrides. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012, 9, 530-533.		0.8	2
28	Insight into the Growth and Control of Single-Crystal Layers of Ge-Sb-Te Phase-Change Material. <i>Crystal Growth and Design</i> , 2011, 11, 4606-4610.		1.4	34
29	Nano-sized light emitting diodes by near field laser exposure. <i>Applied Physics Letters</i> , 2011, 98, .		1.5	7
30	Surface morphology and magnetic anisotropy in (Ga,Mn)As. <i>Applied Physics Letters</i> , 2011, 98, 152503.		1.5	10
31	Spin-orbit-driven ferromagnetic resonance. <i>Nature Nanotechnology</i> , 2011, 6, 413-417.		15.6	182
32	Fast switching of magnetization in the ferromagnetic semiconductor (Ga,Mn)(As,P) using nonequilibrium phonon pulses. <i>Applied Physics Letters</i> , 2011, 99, .		1.5	8
33	Magnetic Linear Dichroism in the Angular Dependence of Core-Level Photoemission from (Ga,Mn)As Using Hard X Rays. <i>Physical Review Letters</i> , 2011, 107, 197601.		2.9	14
34	Ferroelectric polymer gates for non-volatile field effect control of ferromagnetism in (Ga, Mn)As layers. <i>Nanotechnology</i> , 2011, 22, 254004.		1.3	14
35	Tracking Data Certification for the Lunar Reconnaissance Orbiter. , 2010, .		1	
36	Direct Laser Writing of Nanoscale Light-Emitting Diodes. <i>Advanced Materials</i> , 2010, 22, 3176-3180.		11.1	16

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37	Domain wall resistance in perpendicular (Ga,Mn)As: Dependence on pinning. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 3481-3484.	1.0	2
38	Microscopic Analysis of the Valence Band and Impurity Band Theories of (Ga,Mn)As. <i>Physical Review Letters</i> , 2010, 105, 227202.	2.9	36
39	Current-driven domain wall motion across a wide temperature range in a (Ga,Mn)(As,P) device. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	25
40	Nanoscale Potential Fluctuations in (GaMn)As/GaAs Heterostructures: From Individual Ions to Charge Clusters and Electrostatic Quantum Dots. <i>Nano Letters</i> , 2010, 10, 4874-4879.	4.5	6
41	Tuning perpendicular magnetic anisotropy in (Ga,Mn)(As,P) by thermal annealing. <i>Applied Physics Letters</i> , 2010, 97, 122504.	1.5	11
42	A low field technique for measuring magnetic and magnetoresistance anisotropy coefficients applied to (Ga,Mn)As. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	2
43	Photoemission of Ga <sub>1-x</sub> Mn <sub>x</sub> As with high Curie temperature and transformation into MnAs of zincblende structure. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 1435-1439.	0.7	7
44	Magneto-optical and micromagnetic simulation study of the current-driven domain wall motion in ferromagnetic (Ga,Mn)As. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 971-973.	1.0	7
45	The origin and control of the sources of AMR in (Ga,Mn)As devices. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 1001-1008.	1.0	18
46	Non-volatile ferroelectric control of ferromagnetism in (Ga,Mn)As. <i>Nature Materials</i> , 2008, 7, 464-467.	13.3	150
47	Achieving high Curie temperature in (Ga,Mn)As. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	165
48	Microstructural characterization of low-temperature grown GaMnN on GaAs(001) substrates by plasma-assisted MBE. <i>Semiconductor Science and Technology</i> , 2007, 22, 1131-1139.	1.0	2
49	Domain imaging and domain wall propagation in (Ga, Mn)As thin films with tensile strain. <i>Journal of Applied Physics</i> , 2007, 101, 106101.	1.1	27
50	Anisotropic Magnetoresistance Components in (Ga,Mn)As. <i>Physical Review Letters</i> , 2007, 99, 147207.	2.9	107
51	Ordinary and extraordinary Coulomb blockade magnetoresistance in a (Ga, Mn)As single electron transistor. <i>Solid State Communications</i> , 2007, 144, 536-541.	0.9	8
52	Coulomb blockade anisotropic magnetoresistance and voltage controlled magnetic switching in a ferromagnetic GaMnAs single electron transistor. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 1883-1888.	1.0	8
53	Coercivity enlargement in (Ga,Mn)As thin films with small amount of MnAs nanoclusters. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 2126-2128.	1.0	6
54	The growth of high quality GaMnAs layers and heterostructures by molecular beam epitaxy. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 2944-2949.	0.7	0

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55	Angle-Dependent X-Ray Magnetic Circular Dichroism from (Ga,Mn)As: Anisotropy and Identification of Hybridized States. <i>Physical Review Letters</i> , 2006, 96, 117207.	2.9	39
56	Characterization of $\text{Ga}_{1-x}\text{Mn}_x\text{As}/(001)\text{GaAs}$ epilayers grown by low-temperature molecular beam epitaxy. <i>Philosophical Magazine Letters</i> , 2006, 86, 395-401.	0.5	5
57	Molecular beam epitaxy of p-type cubic GaMnN layers. <i>Journal of Crystal Growth</i> , 2005, 278, 685-689.	0.7	9
58	Structural characterisation of zinc-blende $\text{Ga}_{1-x}\text{Mn}_x\text{N}$ epilayers grown by MBE as a function of Ga flux. <i>Journal of Crystal Growth</i> , 2005, 284, 324-334.	0.7	2
59	Photoelectron spectroscopy study of $\text{Ga}_{1-x}\text{Mn}_x\text{As}(001)$ surface oxide and low temperature cleaning. <i>Surface Science</i> , 2005, 585, 66-74.	0.8	11
60	p-type conductivity in cubic (Ga,Mn)N thin films. <i>Applied Physics Letters</i> , 2005, 86, 152114.	1.5	34
61	Large Tunneling Anisotropic Magnetoresistance in (Ga,Mn)As Nanoconstrictions. <i>Physical Review Letters</i> , 2005, 94, 127202.	2.9	88
62	Spin Reorientation Transition in Single-Domain(Ga,Mn)As. <i>Physical Review Letters</i> , 2005, 95, 217204.	2.9	133
63	Determination of the Mn concentration in GaMnAs. <i>Semiconductor Science and Technology</i> , 2005, 20, 369-373.	1.0	22
64	P-type conductivity in cubic GaMnN layers grown by molecular beam epitaxy. <i>Semiconductor Science and Technology</i> , 2004, 19, L13-L16.	1.0	35
65	Surface effects in Mn L3,2 x-ray absorption spectra from (Ga,Mn)As. <i>Applied Physics Letters</i> , 2004, 84, 4065-4067.	1.5	82
66	Magnetic domain imaging of ferromagnetic GaMnAs films. <i>Journal of Applied Physics</i> , 2004, 95, 7399-7401.	1.1	9
67	Influence of low temperature annealing on the micromagnetic structure of GaMnAs films. <i>Journal of Applied Physics</i> , 2004, 95, 3225-3227.	1.1	16
68	Mn L3,2 x-ray absorption from (Ga,Mn)As and (Ga,Mn)N. <i>Journal of Applied Physics</i> , 2004, 95, 7166-7168.	1.1	14
69	The growth of high quality GaMnAs films by MBE. <i>Journal of Materials Science: Materials in Electronics</i> , 2004, 15, 727-731.	1.1	7
70	Light-emitting diodes based on GaMnAs/GaAs heterostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 21, 1002-1006.	1.3	1
71	Influence of the Mn interstitial on the magnetic and transport properties of (Ga,Mn)As. <i>Journal of Applied Physics</i> , 2004, 95, 6512-6514.	1.1	66
72	The growth of GaMnAs films by molecular beam epitaxy using arsenic dimers. <i>Journal of Crystal Growth</i> , 2003, 251, 311-316.	0.7	44

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73	High-quality GaMnAs films grown with arsenic dimers. <i>Journal of Crystal Growth</i> , 2003, 247, 42-48.	0.7	88
74	Dc-transport properties of ferromagnetic (Ga,Mn)As semiconductors. <i>Applied Physics Letters</i> , 2003, 83, 320-322.	1.5	98
75	Investigation of radiative recombination from Mn-related states in $\text{Ga}_{1-x}\text{MnxAs}$ . <i>Applied Physics Letters</i> , 2003, 83, 866-868.	1.5	5
76	Magnetoresistance and Hall effect in the ferromagnetic semiconductor $\text{Ga}_{1-x}\text{MnxAs}$ . <i>Journal of Applied Physics</i> , 2003, 93, 6787-6789.	1.1	56
77	High-Curie-temperature $\text{Ga}_{1-x}\text{MnxAs}$ obtained by resistance-monitored annealing. <i>Applied Physics Letters</i> , 2002, 81, 4991-4993.	1.5	318
78	Hall effect and hole densities in $\text{Ga}_{1-x}\text{MnxAs}$ . <i>Applied Physics Letters</i> , 2002, 81, 3010-3012.	1.5	125