

# Barry L Winn

## List of Publications by Year in descending order

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80  
papers

2,647  
citations

172457

29  
h-index

189892

50  
g-index

82  
all docs

82  
docs citations

82  
times ranked

3038  
citing authors

#	ARTICLE	IF	CITATIONS
1	Massless Dirac magnons in the two dimensional van der Waals honeycomb magnet CrCl <sub>3</sub> . 2D Materials, 2022, 9, 015006.	4.4	16
2	Anisotropic spin-wave excitations in multiferroic $\text{BiFeO}_3$ . Physical Review B, 2022, 105, .	7.8	33
3	Magnetic Field Effect on Topological Spin Excitations in $\text{CrI}_3$ . Physical Review X, 2021, 11, .	8.9	37
4	High frequency atomic tunneling yields ultralow and glass-like thermal conductivity in chalcogenide single crystals. Nature Communications, 2020, 11, 6039.	12.8	36
5	Observation of Magnon Polarization. Physical Review Letters, 2020, 125, 027201.	7.8	55
6	Anharmonic Eigenvectors and Acoustic Phonon Disappearance in Quantum Paraelectric $\text{SrTiO}_3$ . Physical Review Letters, 2020, 124, 145901.	7.8	33
7	Magnetic anisotropy in ferromagnetic $\text{CrI}_3$ . Physical Review B, 2020, 101, .	8.9	37
8	Spin dynamics and a nearly continuous magnetic phase transition in an entropy-stabilized oxide antiferromagnet. Physical Review Materials, 2020, 4, .	2.4	11
9	Exotic Magnetic Field-Induced Spin-Superstructures in a Mixed Honeycomb-Triangular Lattice System. Physical Review X, 2019, 9, .	8.9	10
10	Continuum of quantum fluctuations in a three-dimensional S=1 Heisenberg magnet. Nature Physics, 2019, 15, 54-59.	16.7	62
11	Excitations in the field-induced quantum spin liquid state of $\hat{I}_{\pm}$ -RuCl <sub>3</sub> . Npj Quantum Materials, 2018, 3, .	5.2	254
12	Experimental signatures of emergent quantum electrodynamics in Pr <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> . Nature Physics, 2018, 14, 711-715.	16.7	62
13	Spin dynamics in the stripe-ordered buckled honeycomb lattice antiferromagnet $\text{Ba}_2\text{Sr}_2\text{Ti}_2\text{O}_{10}$ . Physical Review B, 2017, 96, .	7.8	33
14	Evidence for a Nematic Phase in $\text{La}_{1.75}\text{Sr}_{0.25}\text{TiO}_4$ . Physical Review Letters, 2017, 118, 177601.	7.8	33
15	Data processing workflow for time of flight polarized neutrons inelastic measurements. Journal of Physics: Conference Series, 2017, 862, 012023.	0.4	4
16	Polarized neutron scattering on HYSPEC: the HYbrid SPECTrometer at SNS. Journal of Physics: Conference Series, 2017, 862, 012030.	0.4	23
17	Forbidden phonon: Dynamical signature of bond symmetry breaking in the iron chalcogenides. Physical Review B, 2016, 94, .	3.2	8
18	Anisotropic Exchange within Decoupled Tetrahedra in the Quantum Breathing Pyrochlore $\text{Ba}_2\text{Ti}_2\text{O}_7$ . Physical Review Letters, 2016, 116, 257204.	7.8	55

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19	MCVINE – An object oriented Monte Carlo neutron ray tracing simulation package. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 810, 86-99.	1.6	51
20	Phonon coupling to dynamic short-range polar order in a relaxor ferroelectric near the morphotropic phase boundary. Physical Review B, 2015, 92, .	3.2	3
21	Recent progress on HYSPEC, and its polarization analysis capabilities. EPJ Web of Conferences, 2015, 83, 03017.	0.3	56
22	Neutron inelastic scattering measurements of low-energy phonons in the multiferroic $\text{BiFeO}_3$ . Physical Review B, 2015, 91, .	1.2	13
23	Ferro-Orbital Ordering Transition in Iron Telluride $\text{FeTe}$ . Physical Review Letters, 2014, 112, 187202.	7.8	40
24	Influence of doping on the spin dynamics and magnetoelectric effect in hexagonal $\text{Lu}_2\text{O}_3$ . Physical Review B, 2014, 89, .	1.2	16
25	A comparison of four direct geometry time-of-flight spectrometers at the Spallation Neutron Source. Review of Scientific Instruments, 2014, 85, 045113.	1.3	107
26	Polarized $^3\text{He}$ Neutron Spin Filters at Oak Ridge National Laboratory. Physics Procedia, 2013, 42, 191-199.	1.2	18
27	Spin exchange optical pumping based polarized $^3\text{He}$ filling station for the Hybrid Spectrometer at the Spallation Neutron Source. Review of Scientific Instruments, 2013, 84, 065108.	1.3	8
28	Creation of vortices by ferromagnetic order in $\text{ErNi}_2$ . Physica C: Superconductivity and Its Applications, 2010, 470, S716-S718.	1.2	5
29	Structural Phase Transition in AuZn Alloys. Journal of Physics: Conference Series, 2010, 251, 012027.	0.4	1
30	The Triple-Axis Spectrometers at the High Flux Isotope Reactor. Neutron News, 2008, 19, 18-21.	0.2	1
31	Observation of a Continuous Phase Transition in a Shape-Memory Alloy. Physical Review Letters, 2008, 101, 135703.	7.8	27
32	Magnetic field-induced change of modulated antiferromagnetic correlations for with. Physica B: Condensed Matter, 2006, 385-386, 153-155.	2.7	0
33	Nearwork induced transient myopia during myopia progression. Current Eye Research, 2002, 24, 289-295.	1.5	59
34	Anomalous phonon damping in the high temperature shape memory alloy Ti 50 Pd 42 Cr 8. Applied Physics A: Materials Science and Processing, 2002, 74, s1182-s1184.	2.3	6
35	Effect of beta-adrenoceptor antagonists on autonomic control of ciliary smooth muscle. Ophthalmic and Physiological Optics, 2002, 22, 359-365.	2.0	27
36	Illumination for coherent soft X-ray applications: the new X1A beamline at the NSLS. Journal of Synchrotron Radiation, 2000, 7, 395-404.	2.4	54

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37	Soft X-ray microscopy with a cryo scanning transmission X-ray microscope: I. Instrumentation, imaging and spectroscopy. <i>Journal of Microscopy</i> , 2000, 197, 68-79.	1.8	134
38	Recent developments in scanning microscopy at Stony Brook. <i>AIP Conference Proceedings</i> , 2000, , .	0.4	3
39	Sealed cell for in-water measurements. <i>AIP Conference Proceedings</i> , 2000, , .	0.4	2
40	Open-loop accommodation in emmetropia and myopia. <i>Current Eye Research</i> , 2000, 20, 190-4.	1.5	1
41	Accommodation microfluctuations and pupil size during sustained viewing of visual display terminals. <i>Ophthalmic and Physiological Optics</i> , 2000, 20, 5-10.	2.0	5
42	Improving the reliability of visual acuity measures in young children. <i>Ophthalmic and Physiological Optics</i> , 2000, 20, 173-84.	2.0	24
43	Visual function thresholds in children. <i>Current Eye Research</i> , 2000, 21, 616-26.	1.5	2
44	The effect of abnormal fixational eye movements upon visual acuity in congenital nystagmus. <i>Current Eye Research</i> , 1999, 18, 194-202.	1.5	20
45	A shutterâ€™photodiode combination for UV and soft X-ray beamlines. <i>Journal of Synchrotron Radiation</i> , 1999, 6, 50-50.	2.4	16
46	<title>Methods to remove distortion artifacts in scanned projections</title>. , 1999, 3772, 237.		4
47	Human dynamic closed-loop accommodation augmented by sympathetic inhibition. <i>Investigative Ophthalmology and Visual Science</i> , 1999, 40, 1137-43.	3.3	22
48	Dynamic accommodation and myopia. <i>Investigative Ophthalmology and Visual Science</i> , 1999, 40, 1968-74.	3.3	29
49	Functional visual loss in amblyopia and the effect of occlusion therapy. <i>Investigative Ophthalmology and Visual Science</i> , 1999, 40, 2859-71.	3.3	31
50	Contour interaction for high and low contrast optotypes in normal and amblyopic observers. <i>Ophthalmic and Physiological Optics</i> , 1999, 19, 253-60.	2.0	16
51	Clinical evaluation of patient tolerance to autorefractor prescriptions. <i>Australasian journal of optometry, The</i> , 1998, 81, 112-118.	1.3	37
52	The role of neural and optical factors in limiting visual resolution in myopia. <i>Vision Research</i> , 1998, 38, 1713-1721.	1.4	58
53	Imaging, Spectroscopy and Tomography of Frozen Hydrated Specimens With the Cryo Scanning Transmission X-Ray Microscope at The NSLS. <i>Microscopy and Microanalysis</i> , 1998, 4, 354-355.	0.4	0
54	Positional acuity in amblyopia: does a perceptual consequence of neural recruitment exist?. <i>Ophthalmic and Physiological Optics</i> , 1998, 18, 423-9.	2.0	2

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55	Clinical evaluation of infrared autorefractors for use in contact lens over refraction. <i>Contact Lens and Anterior Eye</i> , 1997, 20, 137-142.	1.7	5
56	<title>Considerations for a soft x-ray spectromicroscopy beamline</title>. , 1996, , .		2
57	X1A: Secondâ€generation undulator beamlines serving soft xâ€ray spectromicroscopy experiments at the NSLS. <i>Review of Scientific Instruments</i> , 1996, 67, 3359-3359.	1.3	14
58	<title>Scanning transmission x-ray microscope at the NSLS: from XANES to cryo</title>. , 1995, , .		4
59	Reversals of the colour-depth illusion explained by ocular chromatic aberration. <i>Vision Research</i> , 1995, 35, 2675-2684.	1.4	14
60	The use of coherence functions in the study of ocular mechanisms. <i>Ophthalmic and Physiological Optics</i> , 1995, 15, 311-7.	2.0	1
61	Assessment of retinal-neural function before neodymium:YAG laser capsulotomy. <i>Investigative Ophthalmology and Visual Science</i> , 1995, 36, 1155-62.	3.3	1
62	Repeatability of post-task regression of accommodation in emmetropia and late-onset myopia. <i>Ophthalmic and Physiological Optics</i> , 1994, 14, 88-91.	2.0	27
63	Factors affecting light-adapted pupil size in normal human subjects. <i>Investigative Ophthalmology and Visual Science</i> , 1994, 35, 1132-7.	3.3	362
64	Accommodative microfluctuations and pupil diameter. <i>Vision Research</i> , 1993, 33, 2083-2090.	1.4	74
65	Effect of target luminance on microfluctuations of accommodation. <i>Ophthalmic and Physiological Optics</i> , 1993, 13, 258-265.	2.0	63
66	Glasgow Acuity Cards: a new test for the measurement of letter acuity in children. <i>Ophthalmic and Physiological Optics</i> , 1993, 13, 400-404.	2.0	111
67	Objective concurrent measures of open-loop accommodation and vergence under photopic conditions. <i>Investigative Ophthalmology and Visual Science</i> , 1993, 34, 2996-3003.	3.3	7
68	Absence of pupil response to blur-driven accommodation. <i>Vision Research</i> , 1992, 32, 1775-1779.	1.4	34
69	The effect of mental effort on open- and closed-loop accommodation. <i>Ophthalmic and Physiological Optics</i> , 1991, 11, 335-9.	2.0	7
70	Arterial pulse modulates steady-state ocular accommodation. <i>Current Eye Research</i> , 1990, 9, 971-975.	1.5	72
71	The frequency characteristics of accommodative microfluctuations for central and peripheral zones of the human crystalline lens. <i>Vision Research</i> , 1990, 30, 1093-1099.	1.4	30
72	The effect of pupil size on static and dynamic measurements of accommodation using an infraâ€red optometer. <i>Ophthalmic and Physiological Optics</i> , 1989, 9, 277-283.	2.0	47

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73	Binocular accommodation reaction and response times for normal observers. <i>Ophthalmic and Physiological Optics</i> , 1989, 9, 176-183.	2.0	45
74	A procedural guide to the modification of a Canon AutoRef R-1 for use as a continuously recording optometer. <i>Ophthalmic and Physiological Optics</i> , 1989, 9, 451-4.	2.0	9
75	Modification of the Canon Auto Ref R1 for use as a continuously recording infra-red optometer. <i>Ophthalmic and Physiological Optics</i> , 1988, 8, 460-464.	2.0	36
76	Reduced aniseikonia in axial anisometropia with contact lens correction. <i>Ophthalmic and Physiological Optics</i> , 1988, 8, 341-4.	2.0	8
77	Amblyopia, accommodation and colour. <i>Ophthalmic and Physiological Optics</i> , 1987, 7, 365-72.	2.0	0
78	Power spectrum analysis in the study of ocular mechanisms. <i>Ophthalmic and Physiological Optics</i> , 1987, 7, 321-4.	2.0	4
79	The superiority of contact lenses in the correction of all anisometropia. <i>Journal of the British Contact Lens Association</i> , 1986, 9, 95-100.	0.1	6
80	The influence of method on the stability of dark focus position of accommodation. <i>Ophthalmic and Physiological Optics</i> , 1981, 1, 79-90.	2.0	4