

Michael J Lawler

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42 papers	1,623 citations	19 h-index	40 g-index
46 ext. papers	1,865 ext. citations	6.6 avg, IF	4.58 L-index

#	Paper	IF	Citations
42	Inhomogeneous Kondo-lattice in geometrically frustrated PrIrO. <i>Nature Communications</i> , 2021 , 12, 137717.4	17.4	2
41	Scale-invariant magnetic anisotropy in RuCl ₃ at high magnetic fields. <i>Nature Physics</i> , 2021 , 17, 240-244	16.2	8
40	Topology in Nonlinear Mechanical Systems. <i>Physical Review Letters</i> , 2021 , 127, 076802	7.4	0
39	Magnetic field-induced pair density wave state in the cuprate vortex halo. <i>Science</i> , 2019 , 364, 976-980	33.3	47
38	Evidence for a vestigial nematic state in the cuprate pseudogap phase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 13249-13254	11.5	30
37	Quantum dimer models emerging from large-spin ultracold atoms. <i>Physical Review A</i> , 2019 , 99,	2.6	2
36	Topological mechanics from supersymmetry. <i>Physical Review Research</i> , 2019 , 1,	3.9	6
35	Quantum Spin Liquid Intertwining Nematic and Superconducting Order in Fese. <i>Physical Review Letters</i> , 2018 , 121, 237002	7.4	11
34	Classification of magnetic frustration and metamaterials from topology. <i>Physical Review B</i> , 2018 , 98,	3.3	12
33	Topology and Geometry of Spin Origami. <i>Physical Review Letters</i> , 2018 , 121, 177201	7.4	13
32	Coherent Superconductivity with a Large Gap Ratio from Incoherent Metals. <i>Physical Review Letters</i> , 2018 , 121, 187001	7.4	20
31	Nematic fluctuations balancing the zoo of phases in half-filled quantum Hall systems. <i>Physical Review B</i> , 2017 , 95,	3.3	10
30	Properties of spin-12 triangular-lattice antiferromagnets CuY ₂ Ge ₂ O ₈ and CuLa ₂ Ge ₂ O ₈ . <i>Physical Review B</i> , 2017 , 95,	3.3	4
29	Topological superconductivity in metal/quantum-spin-ice heterostructures. <i>Npj Quantum Materials</i> , 2017 , 2,	5	8
28	Phase diagram of the Kondo lattice model on the kagome lattice. <i>Physical Review B</i> , 2016 , 93,	3.3	10
27	Spin liquid phases of large-spin Mott insulating ultracold bosons. <i>Physical Review B</i> , 2016 , 93,	3.3	1
26	Commensurate 4-period charge density modulations throughout the BiSrCaCuO pseudogap regime. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 12661-12668	11.5	57

25	Supersymmetry protected topological phases of isostatic lattices and kagome antiferromagnets. <i>Physical Review B</i> , 2016 , 94,	3.3	9
24	Anomalous scaling of the penetration depth in nodal superconductors. <i>Physical Review B</i> , 2015 , 92,	3.3	15
23	Direct phase-sensitive identification of a d-form factor density wave in underdoped cuprates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E3026-32	11.5	176
22	Nematic and spin-charge orders driven by hole-doping a charge-transfer insulator. <i>New Journal of Physics</i> , 2014 , 16, 093057	2.9	19
21	Emergent gauge dynamics of highly frustrated magnets. <i>New Journal of Physics</i> , 2013 , 15, 043043	2.9	6
20	Effect of Dirac spinons on angle-resolved photoemission signatures of herbertsmithite. <i>Physical Review B</i> , 2013 , 87,	3.3	1
19	Striped spin liquid crystal ground state instability of kagome antiferromagnets. <i>Physical Review Letters</i> , 2013 , 111, 187205	7.4	29
18	Electronic liquid crystal physics of underdoped cuprates. <i>Physica C: Superconductivity and Its Applications</i> , 2012 , 481, 168-177	1.3	1
17	Spectroscopic Imaging Scanning Tunneling Microscopy Studies of Electronic Structure in the Superconducting and Pseudogap Phases of Cuprate High-Tc Superconductors. <i>Journal of the Physical Society of Japan</i> , 2012 , 81, 011005	1.5	67
16	Interference of nematic quantum critical quasiparticles: A route to the octet model. <i>Physical Review B</i> , 2010 , 81,	3.3	5
15	Spin-charge interplay in electronic liquid crystals: fluctuating spin stripe driven by charge nematic ordering. <i>Physical Review Letters</i> , 2010 , 104, 106405	7.4	19
14	Nematic Fermi Fluids in Condensed Matter Physics. <i>Annual Review of Condensed Matter Physics</i> , 2010 , 1, 153-178	19.7	454
13	Néel and valence-bond crystal order on a distorted kagome lattice: Implications for Zn-paratacamite. <i>Physical Review B</i> , 2009 , 79,	3.3	5
12	Quantum order by disorder in frustrated diamond lattice antiferromagnets. <i>Physical Review Letters</i> , 2008 , 101, 047201	7.4	34
11	Gapless spin liquids on the three-dimensional hyperkagome lattice of Na ₄ Ir ₃ O ₈ . <i>Physical Review Letters</i> , 2008 , 101, 197202	7.4	100
10	Theory of the nodal nematic quantum phase transition in superconductors. <i>Physical Review B</i> , 2008 , 77,	3.3	75
9	Theory of the spin-nematic to spin-Peierls quantum phase transition in ultracold spin-1 atoms in optical lattices. <i>Physical Review B</i> , 2008 , 78,	3.3	5
8	Fluctuating stripes in strongly correlated electron systems and the nematic-smectic quantum phase transition. <i>Physical Review B</i> , 2008 , 78,	3.3	34

7	Topological spin liquid on the hyperkagome lattice of Na ₄ Ir ₃ O ₈ . <i>Physical Review Letters</i> , 2008 , 100, 227201	7.4	82
6	Theory of N $\bar{1}$ l and valence-bond solid phases on the kagome lattice of Zn paratacamite. <i>Physical Review Letters</i> , 2008 , 100, 187201	7.4	13
5	Local quantum criticality at the nematic quantum phase transition. <i>Physical Review B</i> , 2007 , 75,	3.3	42
4	Measuring fractional charge and statistics in fractional quantum Hall fluids through noise experiments. <i>Physical Review B</i> , 2006 , 74,	3.3	27
3	Nonperturbative behavior of the quantum phase transition to a nematic Fermi fluid. <i>Physical Review B</i> , 2006 , 73,	3.3	82
2	Signatures of fractional statistics in noise experiments in quantum Hall fluids. <i>Physical Review Letters</i> , 2005 , 95, 176402	7.4	64
1	Quantum Hall smectics, sliding symmetry, and the renormalization group. <i>Physical Review B</i> , 2004 , 70,	3.3	15