Michael J Lawler

List of Publications by Citations

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	Nematic Fermi Fluids in Condensed Matter Physics. *Annual Review of Condensed Matter Physics*, **2010**, 1, 153-178	19.7	454
41	Direct phase-sensitive identification of a d-form factor density wave in underdoped cuprates. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E3026-32	11.5	176
40	Gapless spin liquids on the three-dimensional hyperkagome lattice of Na4Ir3O8. *Physical Review Letters*, **2008**, 101, 197202	7.4	100
39	Topological spin liquid on the hyperkagome lattice of Na4Ir3O8. *Physical Review Letters*, **2008**, 100, 227201	7.4	82
38	Nonperturbative behavior of the quantum phase transition to a nematic Fermi fluid. *Physical Review B*, **2006**, 73,	3.3	82
37	Theory of the nodal nematic quantum phase transition in superconductors. *Physical Review B*, **2008**, 77,	3.3	75
36	Spectroscopic Imaging Scanning Tunneling Microscopy Studies of Electronic Structure in the Superconducting and Pseudogap Phases of Cuprate High-TcSuperconductors. *Journal of the Physical Society of Japan*, **2012**, 81, 011005	1.5	67
35	Signatures of fractional statistics in noise experiments in quantum Hall fluids. *Physical Review Letters*, **2005**, 95, 176402	7.4	64
34	Commensurate 4-period charge density modulations throughout the BiSrCaCuO pseudogap regime. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 12661-12668	11.5	57
33	Magnetic field-induced pair density wave state in the cuprate vortex halo. *Science*, **2019**, 364, 976-980	33.3	47
32	Local quantum criticality at the nematic quantum phase transition. *Physical Review B*, **2007**, 75,	3.3	42
31	Quantum order by disorder in frustrated diamond lattice antiferromagnets. *Physical Review Letters*, **2008**, 101, 047201	7.4	34
30	Fluctuating stripes in strongly correlated electron systems and the nematic-smectic quantum phase transition. *Physical Review B*, **2008**, 78,	3.3	34
29	Evidence for a vestigial nematic state in the cuprate pseudogap phase. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 13249-13254	11.5	30
28	Striped spin liquid crystal ground state instability of kagome antiferromagnets. *Physical Review Letters*, **2013**, 111, 187205	7.4	29
27	Measuring fractional charge and statistics in fractional quantum Hall fluids through noise experiments. *Physical Review B*, **2006**, 74,	3.3	27
26	Coherent Superconductivity with a Large Gap Ratio from Incoherent Metals. *Physical Review Letters* , **2018**, 121, 187001	7.4	20

25	Nematic and spin-charge orders driven by hole-doping a charge-transfer insulator. *New Journal of Physics*, **2014**, 16, 093057	2.9	19
24	Spin-charge interplay in electronic liquid crystals: fluctuating spin stripe driven by charge nematic ordering. *Physical Review Letters*, **2010**, 104, 106405	7.4	19
23	Anomalous scaling of the penetration depth in nodal superconductors. *Physical Review B*, **2015**, 92,	3.3	15
22	Quantum Hall smectics, sliding symmetry, and the renormalization group. *Physical Review B*, **2004**, 70,	3.3	15
21	Theory of Nēl and valence-bond solid phases on the kagome lattice of Zn paratacamite. *Physical Review Letters*, **2008**, 100, 187201	7.4	13
20	Topology and Geometry of Spin Origami. *Physical Review Letters*, **2018**, 121, 177201	7.4	13
19	Classification of magnetic frustration and metamaterials from topology. *Physical Review B*, **2018**, 98,	3.3	12
18	Quantum Spin Liquid Intertwining Nematic and Superconducting Order in Fese. *Physical Review Letters*, **2018**, 121, 237002	7.4	11
17	Nematic fluctuations balancing the zoo of phases in half-filled quantum Hall systems. *Physical Review B*, **2017**, 95,	3.3	10
16	Phase diagram of the Kondo lattice model on the kagome lattice. *Physical Review B*, **2016**, 93,	3.3	10
15	Supersymmetry protected topological phases of isostatic lattices and kagome antiferromagnets. *Physical Review B*, **2016**, 94,	3.3	9
14	Topological superconductivity in metal/quantum-spin-ice heterostructures. *Npj Quantum Materials*, **2017**, 2,	5	8
13	Scale-invariant magnetic anisotropy in RuCl3 at high magnetic fields. *Nature Physics*, **2021**, 17, 240-244	16.2	8
12	Emergent gauge dynamics of highly frustrated magnets. *New Journal of Physics*, **2013**, 15, 043043	2.9	6
11	Topological mechanics from supersymmetry. *Physical Review Research*, **2019**, 1,	3.9	6
10	Interference of nematic quantum critical quasiparticles: A route to the octet model. *Physical Review B*, **2010**, 81,	3.3	5
9	Nēl and valence-bond crystal order on a distorted kagome lattice: Implications for Zn-paratacamite. *Physical Review B*, **2009**, 79,	3.3	5
8	Theory of the spin-nematic to spin-Peierls quantum phase transition in ultracold spin-1 atoms in optical lattices. *Physical Review B*, **2008**, 78,	3.3	5

7	Properties of spin-12 triangular-lattice antiferromagnets CuY2Ge2O8 and CuLa2Ge2O8. *Physical Review B*, **2017**, 95,	3.3	4
6	Quantum dimer models emerging from large-spin ultracold atoms. *Physical Review A*, **2019**, 99,	2.6	2
5	Inhomogeneous Kondo-lattice in geometrically frustrated PrIrO. *Nature Communications*, **2021**, 12, 1377	17.4	2
4	Spin liquid phases of large-spin Mott insulating ultracold bosons. *Physical Review B*, **2016**, 93,	3.3	1
3	Electronic liquid crystal physics of underdoped cuprates. *Physica C: Superconductivity and Its Applications*, **2012**, 481, 168-177	1.3	1
2	Effect of Dirac spinons on angle-resolved photoemission signatures of herbertsmithite. *Physical Review B*, **2013**, 87,	3.3	1
1	Topology in Nonlinear Mechanical Systems. *Physical Review Letters*, **2021**, 127, 076802	7.4	0