Hikaru Kawamura

List of Publications by Year
in descending order

103	4,519	87888	106344
papers	citations	38 h-index	65 g-index

104	104	104	2245
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Phase Transition of the Two-Dimensional Heisenberg Antiferromagnet on the Triangular Lattice. Journal of the Physical Society of Japan, 1984, 53, 4138-4154.	1.6	291
2	Universality of phase transitions of frustrated antiferromagnets. Journal of Physics Condensed Matter, 1998, 10, 4707-4754.	1.8	266
3	Renormalization-group analysis of chiral transitions. Physical Review B, 1988, 38, 4916-4928.	3.2	192
4	Monte Carlo Study of Chiral Criticality â€“XYand Heisenberg Stacked-Triangular Antiferromagnets. Journal of the Physical Society of Japan, 1992, 61, 1299-1325.	1.6	187
5	Chirality-Driven Anomalous Hall Effect in Weak Coupling Regime. Journal of the Physical Society of Japan, 2002, 71, 2613-2616.	1.6	181
6	Statistical physics of fracture, friction, and earthquakes. Reviews of Modern Physics, 2012, 84, 839-884.	45.6	168
7	Phase Transition of the Heisenberg Antiferromagnet on the Triangular Lattice in a Magnetic Field. Journal of the Physical Society of Japan, 1985, 54, 4530-4538.	1.6	167
8	Chiral ordering in Heisenberg spin glasses in two and three dimensions. Physical Review Letters, 1992, 68, 3785-3788.	7.8	142
9	Phase Transitions of Anisotropic Heisenberg Antiferromagnets on the Triangular Lattice. Journal of the Physical Society of Japan, 1985, 54, 3385-3395.	1.6	132
10	Quantum Spin-Liquid Behavior in the Spin-1/2 Random Heisenberg Antiferromagnet on the Triangular Lattice. Journal of the Physical Society of Japan, 2014, 83, 034714.	1.6	117
11	Phase Transition of the Three-Dimensional Heisenberg Antiferromagnet on the Layered-Triangular Lattice. Journal of the Physical Society of Japan, 1985, 54, 3220-3223.	1.6	101
12	Static and dynamical spin correlations of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mfrac><mml:mn>1</mml:mn><mml:mr antiferromagnetic Heisenberg model on the triangular and kagome lattices. Physical Review B, 2015, 92, .	3.2	85
13	Z2-Vortex Ordering of the Triangular-Lattice Heisenberg Antiferromagnet. Journal of the Physical Society of Japan, 2010, 79, 023701.	1.6	82
14	Novel Spin-Liquid States in the Frustrated Heisenberg Antiferromagnet on the Honeycomb Lattice. Journal of the Physical Society of Japan, 2010, 79, 114705.	1.6	77
15	Dynamical Simulation of Spin-Glass and Chiral-Glass Orderings in Three-Dimensional Heisenberg Spin Glasses. Physical Review Letters, 1998, 80, 5421-5424.	7.8	73
16	New Critical Behavior Iâ€“Heisenberg Antiferromagnet on the Layered-Triangular Lattice. Journal of the Physical Society of Japan, 1987, 56, 474-491.	1.6	70
17	Quantum Spin-Liquid Behavior in the Spin-1/2 Random-Bond Heisenberg Antiferromagnet on the Kagome Lattice. Journal of the Physical Society of Japan, 2014, 83, 103704.	1.6	68
18	Phase Transition of the Two-Dimensional Heisenberg Antiferromagnet on the Triangular Lattice. Journal of the Physical Society of Japan, 1984, 53, 9-12.	1.6	67

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19	New Critical Behavior.II.XYAntiferromagnet on the Layered-Triangular Lattice. Journal of the Physical Society of Japan, 1989, 58, 584-596.	1.6	60
20	Ground State Phase Diagram of Frustrated S = 1 XXZ chains: Chiral Ordered Phases. Journal of the Physical Society of Japan, 2000, 69, 259-266.	1.6	57
21	Anomalous Hall Effect as a Probe of the Chiral Order in Spin Glasses. Physical Review Letters, 2003, 90, 047202.	7.8	57
22	Phase Transition of the Three-DimensionalXYAntiferromagnet on the Layered-Triangular Lattice. Journal of the Physical Society of Japan, 1986, 55, 2095-2098.	1.6	55
23	Chiral order in a two-dimensionalXYspin glass. Physical Review B, 1987, 36, 7177-7180.	3.2	55
24	Equilibrium Phase with Broken Time-Reversal Symmetry in Ceramic High-TcSuperconductors. Physical Review Letters, 1997, 78, 1556-1559.	7.8	54
25	Chirality Scenario of the Spin-Glass Ordering. Journal of the Physical Society of Japan, 2010, 79, 011007.	1.6	54
26	Monte Carlo simulations of the phase transition of the three-dimensional isotropic Heisenberg spin glass. Physical Review B, 2005, 72, .	3.2	51
27	Magnetic phase diagram of the spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mstyle scriptlevel="1"><mml:mfrac bevelled="false"><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml:mstyle></mml:mrow></mml:math>antiferromagnetic zigzag ladder. Physical Review B, 2010, 81, .	3.2	51
28	Numerical Evidence of Spin-Chirality Decoupling in the Three-Dimensional Heisenberg Spin Glass Model. Physical Review Letters, 2009, 102, 027202.	7.8	50
29	Nature of Orbital-Glass Transition ind-Wave Ceramic Superconductors. Journal of the Physical Society of Japan, 1995, 64, 711-715.	1.6	48
30	Nature of the Ordering in the Three-DimensionalXYSpin Glass. Physical Review Letters, 2001, 87, .	7.8	47
31	Nature of the randomness-induced quantum spin liquids in two dimensions. Journal of Physics Condensed Matter, 2019, 31, 504003.	1.8	47
32	Chiral Ordering ofXYSpin Glasses in Two and Three Dimensions -Domain-Wall Renormalization-Group Studies. Journal of the Physical Society of Japan, 1991, 60, 608-613.	1.6	46
33	Chiral Glass: A New Equilibrium Phase of Ceramic High-TcSuperconductors. Journal of the Physical Society of Japan, 1997, 66, 2110-2122.	1.6	46
34	Monte Carlo studies of the ordering of ceramic superconductors: Chiral-glass, orbital-glass, and nonlinear susceptibilities. Physical Review B, 1996, 54, 619-636.	3.2	45
35	Randomness-Induced Quantum Spin Liquid Behavior in the s = 1/2 Random J₁â€“J₂ Heisenberg Antiferromagnet on the Honeycomb Lattice. Journal of the Physical Society of Japan, 2017, 86, 044704.	1.6	43
36	Generalized Chiral Universality. Journal of the Physical Society of Japan, 1990, 59, 2305-2308.	1.6	42

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37	Numerical studies of chiral ordering in three-dimensionalXYspin glasses. Physical Review B, 1995, 51, 12398-12409.	3.2	40
38	Ordering of the Pyrochlore Ising Model with the Long-Range RKKY Interaction. Journal of the Physical Society of Japan, 2008, 77, 073707.	1.6	40
39	Free-vortex formation and topological phase transitions of two-dimensional spin systems. Physical Review B, 1993, 47, 1134-1137.	3.2	39
40	Randomness-induced quantum spin liquid behavior in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>s</mml:mi><mml:mo>=</mml:mo><mml:mfrac><mml:mn random <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>J</mml:mi><mml:mn>1</mml:mn></mml:ms Heisenberg antiferromagnet on the. Physical Review B, 2018, 98, .	3.2	38
41	Spin and Chiral Orderings of Frustrated Quantum Spin Chains. Journal of the Physical Society of Japan, 1999, 68, 3185-3188.	1.6	37
42	Monte Carlo studies of chiral and spin ordering of the three-dimensional Heisenberg spin glass. Physical Review B, 2009, 80, .	3.2	37
43	Signature of a Z2 Vortex in the Dynamical Correlations of the Triangular-Lattice Heisenberg Antiferromagnet. Journal of the Physical Society of Japan, 2010, 79, 084706.	1.6	37
44	Simulation Studies on the Stability of the Vortex-Glass Order. Journal of the Physical Society of Japan, 2000, 69, 29-32.	1.6	35
45	Simulation Study of Spatiotemporal Correlations of Earthquakes as a Stick-Slip Frictional Instability. Physical Review Letters, 2005, 94, 058501.	7.8	33
46	Monte Carlo Studies of the Two-Dimensional Random-BondXYModelâ€“A Chiral Spin Glass. Journal of the Physical Society of Japan, 1985, 54, 4479-4482.	1.6	32
47	Randomness-Induced Quantum Spin Liquid Behavior in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>s</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn> Random-Bond Heisenberg Antiferromagnet on the Pyrochlore Lattice. Physical Review Letters, 2019, 122, 087201.	7.8	32
48	Simulation study of earthquakes based on the two-dimensional Burridge-Knopoff model with long-range interactions. Physical Review E, 2008, 77, 051123.	2.1	30
49	Monte Carlo Study of Chiral-Glass Ordering in Three-Dimensional Heisenberg Spin Glass. Journal of the Physical Society of Japan, 1995, 64, 26-30.	1.6	29
50	Finite-Temperature Crossover Phenomenon in the S = 1/2 Antiferromagnetic Heisenberg Model on the Kagome Lattice. Journal of the Physical Society of Japan, 2016, 85, 113702.	1.6	29
51	Ordering of the Three-Dimensional Heisenberg Spin Glass in Magnetic Fields. Physical Review Letters, 2001, 87, 207203.	7.8	28
52	CHIRAL ORDER IN SPIN GLASSES. International Journal of Modern Physics C, 1996, 07, 345-353.	1.7	26
53	Replica Symmetry Breaking Transition of the Weakly Anisotropic Heisenberg Spin Glass in Magnetic Fields. Physical Review Letters, 2004, 92, 077204.	7.8	26
54	Simulation study of the one-dimensional Burridge-Knopoff model of earthquakes. Journal of Geophysical Research, 2006, 111, .	3.3	26

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55	Chiral Criticality near Two Dimensions. Journal of the Physical Society of Japan, 1991, 60, 1839-1843.	1.6	25
56	Multiple- q states of the J1â^'J2 classical honeycomb-lattice Heisenberg antiferromagnet under a magnetic field. Physical Review B, 2019, 100, .	3.2	25
57	Replica symmetry breaking in the RKKY skyrmion-crystal system. Physical Review B, 2021, 104, .	3.2	25
58	Spin and Chiral Orderings of the Antiferromagnetic XY Model on the Triangular Lattice and Their Critical Properties. Journal of the Physical Society of Japan, 2012, 81, 054003.	1.6	24
59	Replica-symmetry-breaking transition in finite-size simulations. Physical Review E, 2000, 62, 3360-3365.	2.1	23
60	Renormalization-Group Approach to the Frustrated Heisenberg Antiferromagnet on the Layered-Triangular Lattice. Journal of the Physical Society of Japan, 1986, 55, 2157-2165.	1.6	21
61	Z₂-vortex order of frustrated Heisenberg antiferromagnets in two dimensions. Journal of Physics: Conference Series, 2011, 320, 012002.	0.4	21
62	Monte Carlo Studies of the Ordering of the Three-Dimensional Isotropic Heisenberg Spin Glass in Magnetic Fields. Journal of the Physical Society of Japan, 2002, 71, 127-140.	1.6	20
63	Fluctuation-Dissipation Ratio of the Heisenberg Spin Glass. Physical Review Letters, 2003, 90, 237201.	7.8	20
64	Asperity characteristics of the Olami-Feder-Christensen model of earthquakes. Physical Review E, 2010, 81, 031119.	2.1	19
65	Monte Carlo study of the ordering of the weakly anisotropic Heisenberg spin glass in magnetic fields. Physical Review B, 2004, 70, .	3.2	17
66	Spinâ€"chirality decoupling in Heisenberg spin glasses and related systems. Journal of Magnetism and Magnetic Materials, 2007, 310, 1487-1493.	2.3	17
67	Ordering of the Heisenberg spin glass in high dimensions. Physical Review B, 2003, 67, .	3.2	16
68	Periodicity and criticality in the Olami-Feder-Christensen model of earthquakes. Physical Review E, 2008, 77, 010102.	2.1	16
69	Ripple State in the Frustrated Honeycomb-Lattice Antiferromagnet. Physical Review Letters, 2019, 123, 057202.	7.8	15
70	Reentrance Phenomena in the Two-DimensionalXYSpin Glass. Journal of the Physical Society of Japan, 1986, 55, 1802-1805.	1.6	14
71	Ordering of the Heisenberg spin glass in two dimensions. Journal of Physics A, 2003, 36, 10867-10880.	1.6	14
72	The ordering ofXYspin glasses. Journal of Physics Condensed Matter, 2011, 23, 164210.	1.8	14

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73	Spin-Lattice-Coupled Order in Heisenberg Antiferromagnets on the Pyrochlore Lattice. Physical Review Letters, 2016, 116, 257201.	7.8	14
74	Monte Carlo Evidence of Finite-Temperature Chiral Ordering in a Three-DimensionalXYSpin Glass. Journal of the Physical Society of Japan, 1992, 61, 3062-3066.	1.6	13
75	Extended Mean-Field Analysis of the Stacked-Triangular Ising Antiferromagnet. Journal of the Physical Society of Japan, 1995, 64, 232-241.	1.6	12
76	Ordering of the Antiferromagnetic Heisenberg Model on a Pyrochlore Slab. Journal of the Physical Society of Japan, 2001, 70, 3695-3707.	1.6	12
77	Simulation study of the twoâ€dimensional Burridgeâ€Knopoff model of earthquakes. Journal of Geophysical Research, 2008, 113, .	3.3	12
78	Two models of spin glasses â€” Ising versus Heisenberg. Journal of Physics: Conference Series, 2010, 233, 012012.	0.4	11
79	Aging Effect in Ceramic Superconductors. Physical Review Letters, 2001, 86, 1339-1342.	7.8	10
80	Spatiotemporal correlations of earthquakes in the continuum limit of the oneâ€dimensional Burridgeâ€Knopoff model. Journal of Geophysical Research, 2008, 113, .	3.3	10
81	Spin-Chirality Decoupling in the One-Dimensional Heisenberg Spin Glass with Long-Range Power-Law Interactions. Physical Review Letters, 2010, 105, 097206.	7.8	10
82	Monte Carlo simulations of the three-dimensional<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>X</mml:mi><mml:mi>Y</mml:mi></mml:mrow></mml:math>spin glass focusing on chiral and spin order. Physical Review B, 2013, 87, .	3.2	10
83	Chiral Kosterlitz-Thouless Transition in the Frustrated Heisenberg Antiferromagnet on a Pyrochlore Slab. Physical Review Letters, 2002, 88, 077202.	7.8	9
84	Low-Temperature Magnetic Properties of the Kondo Lattice Model in One Dimension. Journal of the Physical Society of Japan, 2015, 84, 044702.	1.6	9
85	Gauge Glass Ordering in Two Dimensions. Journal of the Physical Society of Japan, 1993, 62, 3266-3267.	1.6	8
86	Finite-Temperature Transition of the Antiferromagnetic Heisenberg Model on a Distorted Kagome Lattice. Physical Review Letters, 2012, 109, 057201.	7.8	8
87	Dynamics of earthquake nucleation process represented by the Burridge-Knopoff model. European Physical Journal B, 2015, 88, 1.	1.5	8
88	Magnetic Structure of a Heisenberg Spin Glass in a Magnetic Field. Journal of the Physical Society of Japan, 1991, 60, 1092-1096.	1.6	7
89	Nucleation process in the Burridge-Knopoff model of earthquakes. Europhysics Letters, 2014, 106, 69001.	2.0	5
90	Statistical properties of the one-dimensional Burridge-Knopoff model of earthquakes obeying the rate- and state-dependent friction law. Physical Review E, 2017, 95, 042122.	2.1	5

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91	Monte Carlo studies of the spin-chirality decoupling in the three-dimensional Heisenberg spin glass. Physical Review B, 2020, 101, .	3.2	5
92	Numerical study of the ordering of theÂ±JXYspin-glass ladder. Physical Review B, 2005, 72, .	3.2	4
93	Ordering of the Heisenberg spin glass in four dimensions. Physical Review B, 2012, 85, .	3.2	4
94	Slow-Slip Phenomena Represented by the One-Dimensional Burridgeâ€“Knopoff Model of Earthquakes. Journal of the Physical Society of Japan, 2018, 87, 053001.	1.6	4
95	Universality of phase transitions at solid surfaces. Phase Transitions, 1995, 53, 165-196.	1.3	3
96	Monte Carlo Studies of the Ordering of the One-Dimensional Heisenberg Spin Glass with Long-Range Power-Law Interactions. Journal of the Physical Society of Japan, 2010, 79, 104708.	1.6	3
97	Monte Carlo study of the critical properties of noncollinear Heisenberg magnets: O(3)Ã—O(2) universality class. Physical Review B, 2019, 100, .	3.2	3
98	Frustration-induced Quantum Spin Liquid Behavior in the s = 1/2 Random-bond Heisenberg Antiferromagnet on the Zigzag Chain. Journal of the Physical Society of Japan, 2021, 90, .	1.6	3
99	Nature of the high-speed rupture of the two-dimensional Burridgeâ€“Knopoff model of earthquakes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20170391.	3.4	2
100	Nature of the vortex-glass order in the type-II limit. Physica C: Superconductivity and Its Applications, 2003, 388-389, 649-650.	1.2	0
101	Fluctuationâ€“dissipation ratio of the Heisenberg spin glass. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1278-1279.	2.3	0
102	Possible Spin-Liquid State in Two-Dimensional Frustrated Magnets. JPSJ News and Comments, 2009, 6, 02.	0.1	0
103	Phase Transitions in Triangular Spin Systems. , 1993, , 335-347.		0