

Seiji Miyashita

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Nature of the Phase Transition of the Two-Dimensional Antiferromagnetic Plane Rotator Model on the Triangular Lattice. Journal of the Physical Society of Japan, 1984, 53, 1145-1154. | 1.6 | 298 |
| 2 | 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 |
| 3 | Monte Carlo Simulation of Quantum Spin Systems. I. Progress of Theoretical Physics, 1977, 58, 1377-1387. | 2.0 | 246 |
| 4 | Metastable lifetimes in a kinetic Ising model: Dependence on field and system size. Physical Review E, 1994, 49, 5080-5090. | 2.1 | 218 |
| 5 | 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 |
| 6 | Simple Two-Dimensional Model for the Elastic Origin of Cooperativity among Spin States of Spin-Crossover Complexes. Physical Review Letters, 2007, 98, 247203. | 7.8 | 166 |
| 7 | Monte Carlo Simulation and Static and Dynamic Critical Behavior of the Plane Rotator Model. Progress of Theoretical Physics, 1978, 60, 1669-1685. | 2.0 | 138 |
| 8 | Phase Transitions of Anisotropic Heisenberg Antiferromagnets on the Triangular Lattice. Journal of the Physical Society of Japan, 1985, 54, 3385-3395. | 1.6 | 132 |
| 9 | Magnetic Properties of Ising-Like Heisenberg Antiferromagnets on the Triangular Lattice. Journal of the Physical Society of Japan, 1986, 55, 3605-3617. | 1.6 | 122 |
| 10 | Effects of edges in $S=1$ Heisenberg antiferromagnetic chains. Physical Review B, 1993, 48, 913-919. | 3.2 | 117 |
| 11 | Realization of the mean-field universality class in spin-crossover materials. Physical Review B, 2008, 77, . | 3.2 | 113 |
| 12 | Monte Carlo Simulation of Pressure-Induced Phase Transitions in Spin-Crossover Materials. Physical Review Letters, 2008, 100, 067206. | 7.8 | 108 |
| 13 | Dynamics of the Magnetization with an Inversion of the Magnetic Field. Journal of the Physical Society of Japan, 1995, 64, 3207-3214. | 1.6 | 106 |
| 14 | Perspectives for high-performance permanent magnets: applications, coercivity, and new materials. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2017, 8, 013002. | 1.5 | 102 |
| 15 | $\hat{\rho}$ -Function Peak in the Specific Heat of High-Tc Superconductors: Monte Carlo Simulation. Physical Review Letters, 1997, 79, 3498-3501. | 7.8 | 95 |
| 16 | Adiabatic Landau-Zener-Stückelberg transition with or without dissipation in the low-spin molecular system V15. Physical Review B, 2003, 67, . | 3.2 | 82 |
| 17 | Microscopic spin-distortion model for switchable molecular solids: Spatiotemporal study of the deformation field and local stress at the thermal spin transition. Physical Review B, 2013, 87, . | 3.2 | 82 |
| 18 | Energy transport in the integrable system in contact with various types of phonon reservoirs. Physical Review E, 2000, 61, 2397-2409. | 2.1 | 80 |

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| 19 | Magnetic strong coupling in a spin-photon system and transition to classical regime. Physical Review B, 2010, 82, . | 3.2 | 80 |
| 20 | Elastic interaction among transition metals in one-dimensional spin-crossover solids. Physical Review B, 2007, 75, . | 3.2 | 79 |
| 21 | Dzyaloshinskii-Moriya interactions and adiabatic magnetization dynamics in molecular magnets. Physical Review B, 2004, 70, . | 3.2 | 74 |
| 22 | Thermodynamic properties of the quantum Heisenberg antiferromagnet on the kagomé lattice. Physical Review B, 1995, 52, 9174-9177. | 3.2 | 71 |
| 23 | Theory of quantum tunneling of the magnetization in magnetic particles. Physical Review B, 1997, 56, 11761-11768. | 3.2 | 71 |
| 24 | Thermal conduction in a quantum system. Physical Review E, 1996, 54, 2404-2408. | 2.1 | 70 |
| 25 | Thermodynamic Properties of Spin 1/2 Antiferromagnetic Heisenberg Model on the Square Lattice. Journal of the Physical Society of Japan, 1988, 57, 1934-1946. | 1.6 | 69 |
| 26 | 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 |
| 27 | Arrhenius Monte Carlo study of two-step spin crossover: Equilibrium and relaxation paths. Physical Review B, 2003, 68, . | 3.2 | 67 |
| 28 | Magnetization Process of the Spin-1/2 Antiferromagnetic Ising-Like Heisenberg Model on the Triangular Lattice. Journal of the Physical Society of Japan, 1986, 55, 4448-4455. | 1.6 | 66 |
| 29 | Cluster evolution in spin crossover systems observed in the frame of a mechano-elastic model. Europhysics Letters, 2010, 91, 27003. | 2.0 | 66 |
| 30 | Condition for emergence of the Floquet-Gibbs state in periodically driven open systems. Physical Review E, 2015, 91, 030101. | 2.1 | 66 |
| 31 | Structures of Metastable States in Phase Transitions with a High-Spin Low-Spin Degree of Freedom. Progress of Theoretical Physics, 2005, 114, 719-735. | 2.0 | 65 |
| 32 | Quantum Phase Transition of the Randomly Diluted Heisenberg Antiferromagnet on a Square Lattice. Physical Review Letters, 2000, 84, 4204-4207. | 7.8 | 64 |
| 33 | Thermodynamic properties of S=1 antiferromagnetic Heisenberg chains as Haldane systems. Physical Review B, 1993, 48, 9528-9538. | 3.2 | 62 |
| 34 | Macroscopic nucleation phenomena in continuum media with long-range interactions. Scientific Reports, 2011, 1, 162. | 3.3 | 61 |
| 35 | Dynamical Nature of the Phase Transition of the Two-Dimensional Kinetic Ising Model. Progress of Theoretical Physics, 1985, 73, 1122-1140. | 2.0 | 60 |
| 36 | Intrinsic effects of the boundary condition on switching processes in effective long-range interactions originating from local structural change. Physical Review B, 2010, 82, . | 3.2 | 60 |

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| 38 | Observation of the Energy Gap due to the Quantum Tunneling Making Use of the Landau-Zener Mechanism. <i>Journal of the Physical Society of Japan</i> , 1996, 65, 2734-2735. | 1.6 | 58 |
| 39 | Rapid Faraday Rotation on $\hat{\mu}$ -Iron Oxide Magnetic Nanoparticles by Visible and Terahertz Pulsed Light. <i>Journal of the American Chemical Society</i> , 2019, 141, 1775-1780. | 13.7 | 57 |
| 40 | Variational study on the ground state of the spin XY magnet. <i>Canadian Journal of Physics</i> , 1978, 56, 902-912. | 1.1 | 56 |
| 41 | Effective Floquet "Gibbs states for dissipative quantum systems. <i>New Journal of Physics</i> , 2016, 18, 053008. | 2.9 | 55 |
| 42 | Relaxation Modes in Random Spin Systems. <i>Journal of the Physical Society of Japan</i> , 1995, 64, 3688-3698. | 1.6 | 53 |
| 43 | Statistical properties of the relaxation processes of metastable states in the kinetic Ising model. <i>Physical Review B</i> , 1992, 46, 8886-8893. | 3.2 | 52 |
| 44 | Huge thermal hysteresis loop and a hidden stable phase in a charge-transfer phase transition of $\text{RbO}_{0.64}\text{Mn}[\text{Fe}(\text{CN})_6]_{0.88} \cdot 1.7\text{H}_2\text{O}$. <i>Physical Review B</i> , 2006, 73, . | 3.2 | 52 |
| 45 | Ordering phenomena of high-spin/low-spin states in stepwise spin-crossover materials described by the ANNNI model. <i>Physical Review B</i> , 2016, 93, . | 3.2 | 52 |
| 46 | A Variational Study of the Ground State of Frustrated Quantum Spin Models. <i>Journal of the Physical Society of Japan</i> , 1984, 53, 44-47. | 1.6 | 51 |
| 47 | Electron Transport Dynamics in Redox-Molecule-Terminated Branched Oligomer Wires on Au(111). <i>Journal of the American Chemical Society</i> , 2015, 137, 734-741. | 13.7 | 49 |
| 48 | Ground state of the antiferromagnetic Ising model of general spin S on a triangular lattice. <i>Physical Review B</i> , 1993, 47, 202-205. | 3.2 | 48 |
| 49 | Magnetic Pole Flip by Millimeter Wave. <i>Advanced Materials</i> , 2020, 32, e2004897. | 21.0 | 48 |
| 50 | Switching dynamics between the metastable ordered magnetic state and a nonmagnetic ground state: A possible mechanism for photoinduced ferromagnetism. <i>Physical Review B</i> , 1998, 58, 9303-9311. | 3.2 | 47 |
| 51 | Monte Carlo analysis for finite-temperature magnetism of NdMn_2B permanent magnet. <i>Physical Review B</i> , 2016, 94, . | 3.2 | 47 |
| 52 | A local realist model for correlations of the singlet state. <i>European Physical Journal B</i> , 2006, 53, 139-142. | 1.5 | 46 |
| 53 | Event-by-Event Simulation of Quantum Phenomena: Application to Einstein-Podolsky-Rosen-Bohm Experiments. <i>Journal of Computational and Theoretical Nanoscience</i> , 2007, 4, 957-991. | 0.4 | 46 |
| 54 | Molecular Dynamics and Transfer Integral Investigations of an Elastic Anharmonic Model for Phonon-Induced Spin Crossover. <i>Physical Review Letters</i> , 2008, 100, 177206. | 7.8 | 45 |

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| 55 | Direct Calculation of Dynamical Susceptibility in Strongly Fluctuating Quantum Spin Systems. Journal of the Physical Society of Japan, 1999, 68, 655-661. | 1.6 | 43 |
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| 63 | Dynamics of the Density Matrix in Contact with a Thermal Bath and the Quantum Master Equation. Journal of the Physical Society of Japan, 2008, 77, 124005. | 1.6 | 39 |
| 64 | Monte Carlo simulation on the first-order melting transition of high-T _c superconductors in Ba ^{1-x} Cu ^x . Physical Review B, 1998, 58, 3438-3445. | 3.2 | 38 |
| 65 | Event-Based Computer Simulation Model of Aspect-Type Experiments Strictly Satisfying Einstein's Locality Conditions. Journal of the Physical Society of Japan, 2007, 76, 104005. | 1.6 | 38 |
| 66 | Effect of the short-range interaction on critical phenomena in elastic interaction systems. Physical Review B, 2013, 88, . | 3.2 | 38 |
| 67 | Reentrant phase transitions in the two-dimensional Ising model with competing nearest neighbour interactions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1985, 108, 45-49. | 2.1 | 37 |
| 68 | The Ground State and Thermodynamic Properties of Generalized Heisenberg Models on the Triangular Lattice. Progress of Theoretical Physics Supplement, 1986, 87, 112-126. | 0.1 | 36 |
| 69 | Stretched exponential decay of the spin-correlation function in the kinetic Ising model below the critical temperature. Physical Review B, 1988, 37, 3716-3719. | 3.2 | 36 |
| 70 | Ordered Phases and Phase Transitions in The Stacked Triangular Antiferromagnet CsCoCl ₃ and CsCoBr ₃ . Journal of the Physical Society of Japan, 2004, 73, 412-416. | 1.6 | 36 |
| 71 | Threshold phenomena under photoexcitation of spin-crossover materials with cooperativity due to elastic interactions. Physical Review B, 2009, 80, . | 3.2 | 36 |
| 72 | Anisotropy of exchange stiffness based on atomic-scale magnetic properties in the rare-earth permanent magnet $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \text{Nd} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \text{2} \langle \text{mml:mn} \text{3} \rangle \langle \text{mml:mathvariant="normal"} \text{B} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:math} \rangle \text{Physical Review B, 2018, 98, .} \rangle \rangle \rangle \rangle \rangle$ | 3.2 | 36 |

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| 74 | Reentrant Phenomena in Some Ising Spin Systemsâ€“Rigorous Results and Effects of an External Fieldâ€“. Journal of the Physical Society of Japan, 1986, 55, 865-876. | 1.6 | 35 |
| 75 | Low-Energy Excitations of the $S=1/2$ Quantum Spin Tube with the Triangular Lattice Structure. Progress of Theoretical Physics Supplement, 2005, 159, 297-301. | 0.1 | 35 |
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| 81 | Critical temperature and correlation length of an elastic interaction model for spin-crossover materials. Physical Review B, 2012, 85, . | 3.2 | 33 |
| 82 | Atomistic-model study of temperature-dependent domain walls in the neodymium permanent magnet $\frac{d\langle B \rangle}{dt} = -\frac{1}{T} \langle B \rangle$. Physical Review B, 2017, 95, . | 3.2 | 33 |
| 83 | A microscopic mechanism for rejuvenation and memory effects in spin glasses. European Physical Journal B, 2001, 22, 203-211. | 1.5 | 32 |
| 84 | Electron spin resonance in $S = \frac{1}{2}$ antiferromagnets at high temperature. Physical Review B, 2010, 81, . | 3.2 | 32 |
| 85 | Realization of the thermal equilibrium in inhomogeneous magnetic systems by the Landau-Lifshitz-Gilbert equation with stochastic noise, and its dynamical aspects. Physical Review B, 2015, 91, . | 3.2 | 32 |
| 86 | Monte Carlo simulations of the two-dimensional quantal and classical spin systems â€“ A new type of phase transition with vortices. Physics Letters, Section A: General, Atomic and Solid State Physics, 1977, 60, 478-480. | 2.1 | 31 |
| 87 | Ground-State and Thermodynamic Properties of the Quantum Mixed Spin-1/2-1/2-1-1 Chain. Journal of the Physical Society of Japan, 1998, 67, 1000-1013. | 1.6 | 31 |
| 88 | Asymptotic forms and scaling properties of the relaxation time near threshold points in spinodal-type dynamical phase transitions. Physical Review E, 2010, 81, 011135. | 2.1 | 31 |
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| 90 | Nonequilibrium relaxation analysis for first-order phase transitions. Physica A: Statistical Mechanics and Its Applications, 2003, 321, 271-279. | 2.6 | 30 |

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| 91 | Two-Electron Reduction of a Rh ^{II} Mo ^{III} Rh Dithiolato Complex To Form a Triplet Ground State Associated with a Change in CO Coordination Mode. <i>Journal of the American Chemical Society</i> , 2009, 131, 1388-1389. | 13.7 | 30 |
| 92 | Existence of Phase Transition in Ising-like Heisenberg Antiferromagnets on the Kagome Lattice. <i>Journal of the Physical Society of Japan</i> , 1995, 64, 4509-4512. | 1.6 | 29 |
| 93 | Successive phase transitions at finite temperatures toward the supersolid state in a three-dimensional extended Bose-Hubbard model. <i>Physical Review B</i> , 2009, 79, . | 3.2 | 29 |
| 94 | Dynamical process for switching between the metastable ordered magnetic state and the nonmagnetic ground state in a photoinduced phase transition. <i>Physical Review B</i> , 2001, 63, . | 3.2 | 28 |
| 95 | Enhancement of the Thermal Conductivity in Gapped Quantum Spin Chains. <i>Journal of the Physical Society of Japan</i> , 2002, 71, 2485-2488. | 1.6 | 28 |
| 96 | Theoretical approach for elastically driven cooperative switching of spin-crossover compounds impacted by an ultrashort laser pulse. <i>Physical Review B</i> , 2017, 95, . | 3.2 | 28 |
| 97 | Monte Carlo Simulation of the Plane Rotator Model. II: Response to an External Field and Scaling Relations. <i>Progress of Theoretical Physics</i> , 1980, 63, 797-807. | 2.0 | 27 |
| 98 | Shape effects on the cluster spreading process of spin-crossover compounds analyzed within an elastic model with Eden and Kawasaki dynamics. <i>Physical Review B</i> , 2015, 91, . | 3.2 | 27 |
| 99 | Perspectives of stochastic micromagnetism of Nd ₂ Fe ₁₄ B and computation of thermally activated reversal process. <i>Scripta Materialia</i> , 2018, 154, 259-265. | 5.2 | 27 |
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| 101 | Nature of Ferrimagnetic Ground States in Quantum Spin Models. <i>Journal of the Physical Society of Japan</i> , 2005, 74, 71-74. | 1.6 | 25 |
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| 103 | Cluster evolution in molecular three-dimensional spin-crossover systems. <i>Physical Review B</i> , 2017, 96, . | 3.2 | 25 |
| 104 | Quantum Fluctuation-induced Phase Transition in S=1/2 XY-like Heisenberg Antiferromagnets on the Triangular Lattice. <i>Journal of the Physical Society of Japan</i> , 2004, 73, 1798-1804. | 1.6 | 24 |
| 105 | Role of atomic-scale thermal fluctuations in the coercivity. <i>Npj Computational Materials</i> , 2020, 6, . | 8.7 | 24 |
| 106 | Local magnetic structure due to inhomogeneity of interaction in S=1/2 antiferromagnetic chains. <i>Physical Review B</i> , 2000, 61, 4033-4040. | 3.2 | 23 |
| 107 | Determination of the Critical Points of Antiferromagnetic Ising Model with Next Nearest Neighbour Interactions on the Triangular Lattice. <i>Journal of the Physical Society of Japan</i> , 1991, 60, 1523-1532. | 1.6 | 22 |
| 108 | Nature of the Ordered Phase and the Critical Properties of the Three Dimensional Six-State Clock Model. <i>Journal of the Physical Society of Japan</i> , 1997, 66, 3411-3420. | 1.6 | 22 |

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| 110 | Spin Correlation Functions on Frustrated Lattices. <i>Progress of Theoretical Physics</i> , 1983, 69, 714-724. | 2.0 | 21 |
| 111 | Griffiths-McCoy Singularities in the Transverse Field Ising Model on the Randomly Diluted Square Lattice. <i>Journal of the Physical Society of Japan</i> , 1998, 67, 2671-2677. | 1.6 | 21 |
| 112 | Energy-level diagrams of high-spin and low-spin molecules. <i>Physica Status Solidi (B): Basic Research</i> , 2004, 241, 1180-1185. | 1.5 | 21 |
| 113 | Quantum Monte Carlo simulation of diluted Heisenberg antiferromagnets ($S=1/2$) on the square lattice. <i>Journal of Physics A</i> , 1992, 25, 4745-4755. | 1.6 | 20 |
| 114 | Magnetization of $S=1$ antiferromagnetic Heisenberg chains. <i>Physical Review B</i> , 1995, 51, 3649-3654. | 3.2 | 20 |
| 115 | System-Size Dependence of Statistical Behavior in Quantum System. <i>Journal of the Physical Society of Japan</i> , 1996, 65, 1243-1249. | 1.6 | 20 |
| 116 | Comparison among various expressions of complex admittance for quantum systems in contact with a heat reservoir. <i>Physical Review E</i> , 2010, 81, 031131. | 2.1 | 20 |
| 117 | Equilibrium, metastability, and hysteresis in a model spin-crossover material with nearest-neighbor antiferromagnetic-like and long-range ferromagnetic-like interactions. <i>Physical Review B</i> , 2016, 93, . | 3.2 | 20 |
| 118 | Noise effect on the nonadiabatic transition and correction to the tunneling energy gap estimated by the Landau-Zener-Stückelberg formula. <i>Physical Review B</i> , 2001, 65, . | 3.2 | 19 |
| 119 | Directionally Independent Energy Gap Formation Due to the Hyperfine Interaction. <i>Progress of Theoretical Physics</i> , 2003, 110, 889-899. | 2.0 | 19 |
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| 123 | Magnetization Process of Nanoscale Iron Cluster. <i>Journal of the Physical Society of Japan</i> , 2001, 70, 2151-2157. | 1.6 | 18 |
| 124 | Crossover of the roughness exponent for interface growth in systems with long-range interactions due to lattice distortion. <i>Physical Review B</i> , 2013, 88, . | 3.2 | 18 |
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| 126 | ESR of Antiferromagnetic Cluster. <i>Journal of the Physical Society of Japan</i> , 2000, 69, 4043-4048. | 1.6 | 17 |

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| 127 | Entropy Effect on the Magnetization Process of Hexagonal XY-Like Heisenberg Antiferromagnets. Journal of the Physical Society of Japan, 2001, 70, 532-537. | 1.6 | 17 |
| 128 | Interacting particles on the line and Dunkl intertwining operator of type A : application to the freezing regime. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 395201. | 2.1 | 17 |
| 129 | Temperature Dependence of Spin and Bond Ordering in a Spin-Peierls System. Journal of the Physical Society of Japan, 2000, 69, 2634-2641. | 1.6 | 17 |
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| 146 | Mean Field Analysis for Successive Phase Transitions of Heisenberg-Ising Antiferromagnets on the Triangular Lattices. <i>Journal of the Physical Society of Japan</i> , 1986, 55, 227-234. | 1.6 | 14 |
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