

# Kwang-Yong Choi

## List of Publications by Year in descending order

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140  
papers

4,011  
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172207

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h-index

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g-index

142  
all docs

142  
docs citations

142  
times ranked

3923  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Oximate-Bridged Trinuclear Dy <sup>III</sup> Cu <sup>II</sup> Dy Complex Behaving as a Single-Molecule Magnet and Its Mechanistic Investigation. <i>Journal of the American Chemical Society</i> , 2006, 128, 1440-1441.                                     | 6.6 | 340       |
| 2  | Majorana fermions in the Kitaev quantum spin system $\hat{I}_{\pm}$ -RuCl <sub>3</sub> . <i>Nature Physics</i> , 2017, 13, 1079-1084.  | 6.5 | 279       |
| 3  | Evidence for a Field-Induced Quantum Spin Liquid in $\hat{I}_{\pm}$ -RuCl <sub>3</sub> . <i>Physical Review Letters</i> , 2017, 119, 037201.   | 2.9 | 277       |
| 4  | A Binuclear Fe(III)Dy(III) Single-Molecule Magnet. Quantum Effects and Models. <i>Journal of the American Chemical Society</i> , 2006, 128, 9008-9009.   | 6.6 | 252       |
| 5  | A Planar {Mn <sub>19</sub> (OH) <sub>12</sub> } <sup>26+</sup> Unit Incorporated in a Tungstosilicate Polyanion. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5961-5964.   | 7.2 | 180       |
| 6  | Anomalous Thermal Conductivity and Magnetic Torque Response in the Honeycomb Magnet $\hat{I}_{\pm}$ -RuCl <sub>3</sub> . <i>Physical Review Letters</i> , 2017, 118, 187203.   | 2.9 | 153       |
| 7  | Field-induced quantum criticality in the Kitaev system $\hat{I}_{\pm}$ -RuCl <sub>3</sub> . <i>Physical Review B</i> , 2017, 96, .   | 2.9 | 151       |
| 8  | Magnetic Excitations and Continuum of a Possibly Field-Induced Quantum Spin Liquid in $\hat{I}_{\pm}$ -RuCl <sub>3</sub> . <i>Physical Review Letters</i> , 2017, 119, 227202.   | 2.9 | 135       |
| 9  | Observation of a Half Step Magnetization in the {Cu <sub>3</sub> }-Type Triangular Spin Ring. <i>Physical Review Letters</i> , 2006, 96, 107202.   | 2.9 | 102       |
| 10 | Relation between Kitaev magnetism and structure in $\hat{I}_{\pm}$ -RuCl <sub>3</sub> . <i>Physical Review B</i> , 2017, 95, .   | 2.9 | 101       |
| 11 | Raman spectroscopic signature of fractionalized excitations in the harmonic-honeycomb iridates $\hat{I}^{2-}$ - and $\hat{I}^{3-}$ -Li <sub>2</sub> IrO <sub>3</sub> . <i>Nature Communications</i> , 2016, 7, 12286.  | 5.8 | 81        |
| 12 | Evidence for an Unconventional Magnetic Instability in the Spin-Tetrahedra System Cu <sub>2</sub> Te <sub>2</sub> O <sub>5</sub> Br <sub>2</sub> . <i>Physical Review Letters</i> , 2001, 87, 227201.  | 2.9 | 79        |
| 13 | Magnon bound states versus anyonic Majorana excitations in the Kitaev honeycomb magnet $\hat{I}_{\pm}$ -RuCl <sub>3</sub> . <i>Nature Communications</i> , 2020, 11, 1603.   | 5.8 | 72        |
| 14 | Dimethylammonium copper formate [(CH <sub>3</sub> ) <sub>2</sub> NH <sub>2</sub> ] <sub>3</sub> Cu(HCOO) <sub>3</sub> : A metal-organic framework with quasi-one-dimensional antiferromagnetism and magnetostriction. <i>Physical Review B</i> , 2013, 87, . | 1.1 | 62        |
| 15 | Longitudinal magnon in the tetrahedral spin system Cu <sub>2</sub> Te <sub>2</sub> O <sub>5</sub> Br <sub>2</sub> near quantum criticality. <i>Physical Review B</i> , 2003, 67, .   | 1.1 | 59        |
| 16 | Quantum tunneling of magnetization via well-defined Dy <sup>III</sup> -Cu exchange coupling in a ferrimagnetic high-spin [Dy <sub>4</sub> Cu] single-molecule magnet. <i>Chemical Physics Letters</i> , 2007, 440, 263-267.                                  | 1.2 | 56        |
| 17 | Manipulation of the quantum tunneling of nanomagnets by using time-dependent high magnetic fields. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 1468-1472.  | 1.0 | 53        |
| 18 | Strong Anisotropy of Superexchange in the Copper-Oxygen Chains of La <sub>1-x</sub> Cu <sub>x</sub> O <sub>4</sub> . <i>Physical Review Letters</i> , 2001, 86, 2882-2885.   | 2.9 | 47        |

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|----|---|-----|-----------|
| 19 | Exotic Low-Energy Excitations Emergent in the Random Kitaev Magnet $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Cu} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2$ Physical Review Letters, 2019, 122, 167202.   | 2.9 | 43        |
| 20 | Irreversible xenon insertion into a small-pore zeolite at moderate pressures and temperatures. Nature Chemistry, 2014, 6, 835-839.  | 6.6 | 42        |
| 21 | Strong anharmonicity and spin-phonon coupling in the quasi-two-dimensional quantum spin system $\text{Sr}1\hat{x}\text{Ba}x\text{Cu}2(\text{BO}3)2$ . Physical Review B, 2003, 68, .  | 1.1 | 41        |
| 22 | Electronic and phonon excitations in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="normal"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \hat{I}_{\pm} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{\tau} \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{RuCu} \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ . Physical Review B, 2017, 96, .   | 1.1 | 37        |
| 23 | Electron Spins up to Ambient Temperatures in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mi} \rangle \text{Cr} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 5 \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{S} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{math}$ . Physical Review B, 2017, 96, . | 1.1 | 36        |
| 24 | Coherent Manipulation of Electron Spins in the $\{\text{Cu}3\}$ Spin Triangle Complex Impregnated in Nanoporous Silicon. Physical Review Letters, 2012, 108, 067206.  | 2.9 | 36        |
| 25 | Multistage symmetry breaking in the breathing pyrochlore lattice $\text{Li}(\text{Ga},\text{In})\text{Cr}4\text{O}8$ . Physical Review B, 2016, 93, .   | 1.1 | 35        |
| 26 | Pulsed-field magnetization, electron spin resonance, and nuclear spin-lattice relaxation in the $\{\text{Cu}3\}$ spin triangle. Physical Review B, 2008, 77, .  | 1.1 | 33        |
| 27 | Randomly Hopping Majorana Fermions in the Diluted Kitaev System $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \hat{I}_{\pm} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle - \langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Ru} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 0.8 \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{math}$ . Physical Review Letters, 2020, 124, 047204.   | 2.9 | 33        |
| 28 | Raman scattering study of $\text{Nd}1\hat{x}\text{Sr}x\text{MnO}3$ ( $x\hat{A} 0.3, 0.5$ ). Journal of Physics Condensed Matter, 2003, 15, 3333-3342.   | 0.7 | 30        |
| 29 | Short-range quasistatic order and critical spin correlations in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="normal"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \hat{I}_{\pm} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{\tau} \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{math}$ . Physical Review B, 2018, 98, .  | 1.1 | 30        |
| 30 | Existence of orbital polarons in ferromagnetic insulating $\text{La}1\hat{x}\text{Sr}x\text{MnO}3$ ( $0.11\hat{A} \odot 1/2 x\hat{A} \odot 1/2 0.14$ ) revealed by giant phonon softening. Physical Review B, 2005, 71, .   | 1.1 | 26        |
| 31 | Ac susceptibility and $\langle \text{sup} \rangle 51 \langle \text{sup} \rangle$ V NMR study of $\text{MnV} \langle \text{sub} \rangle 2 \langle \text{sub} \rangle \text{O} \langle \text{sub} \rangle 4 \langle \text{sub} \rangle$ . Journal of Physics Condensed Matter, 2008, 20, 135218.  | 0.7 | 26        |
| 32 | Self-energy effects and electron-phonon coupling in $\text{Fe}\hat{A} \text{As}$ superconductors. Journal of Physics Condensed Matter, 2010, 22, 115802.  | 0.7 | 26        |
| 33 | Anomalous low-energy phonons in nearly tetragonal $\text{BiFeO} \langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ thin films. Physical Review B, 2011, 84, .  | 1.1 | 26        |
| 34 | Single molecule magnet: Heterodinuclear cyano-bridged cubic cluster $[(\text{Tp})8\text{Fe}4\text{Ni}4(\text{CN})12]$ ( $\text{Tp}=\text{hydrotris}(1\text{-pyrazolyl})\text{borate}$ ). Inorganica Chimica Acta, 2007, 360, 2647-2652.   | 1.2 | 23        |
| 35 | Single Crystal Growth and Effect of Doping on Structural, Transport and Magnetic Properties of $\text{A}1\hat{x}\text{K}x\text{Fe}2\text{As}2$ ( $A = \text{Ba}, \text{Sr}$ ). Journal of Superconductivity and Novel Magnetism, 2011, 24, 1773-1785.   | 0.8 | 23        |
| 36 | Raman study of the Verwey transition in magnetite thin films. New Journal of Physics, 2013, 15, 103032.   | 1.2 | 23        |

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|----|--|-----|-----------|
| 37 | Putative spin liquid in the triangle-based iridate $\text{Ba}_3\text{O}_9$ . Physical Review B, 2017, 96, .  | 1.1 | 23        |
| 38 | Soft tilt and rotational modes in the hybrid improper ferroelectric $\text{Ca}_3\text{O}_7$ . Physical Review B, 2018, 97, .   | 1.1 | 23        |
| 39 | Magnetite: Raman study of the high-pressure and low-temperature effects. Journal of Applied Physics, 2005, 97, 10A922.   | 1.1 | 22        |
| 40 | Observation of a random singlet state in a diluted Kitaev honeycomb material. Physical Review B, 2020, 102, .  | 1.1 | 22        |
| 41 | Multistage development of anisotropic magnetic correlations in the Co-based honeycomb lattice $\text{Na}_2\text{O}$ . Physical Review B, 2021, 103, .                            | 1.1 | 22        |
| 42 | Quantum phase transition in the diopside magnetic lattice. Europhysics Letters, 2002, 60, 276-280.   | 0.7 | 21        |
| 43 | Two inequivalent sublattices and orbital ordering in $\text{MnV}_2\text{O}_4$ studied by $^{51}\text{V}$ NMR. Physical Review B, 2009, 80, .                                     | 1.1 | 21        |
| 44 | Sub-gap optical response in the Kitaev spin-liquid candidate $\text{RuCl}_3$ . Journal of Physics Condensed Matter, 2018, 30, 475604.  | 0.7 | 21        |
| 45 | Orbital fluctuating state in ferromagnetic insulating $\text{LaMnO}_3$ ( $\delta = 0.085$ ) studied using Raman spectroscopy. Physical Review B, 2006, 74, .                     | 1.1 | 20        |
| 46 | Anomalous orbital dynamics in $\text{LaSrMnO}_4$ observed by Raman spectroscopy. Physical Review B, 2008, 77, .  | 1.1 | 20        |
| 47 | Crystal Structure and Magnetic Properties of Two New Antiferromagnetic Spin Dimer Compounds; $\text{FeTe}_3\text{O}_7$ (X = Cl, Br). Inorganic Chemistry, 2011, 50, 12877-12885. | 1.9 | 19        |
| 48 | Enhanced Spin Seebeck Thermopower in $\text{Pt}/\text{MoS}_2/\text{YFeO}_5/\text{Pt}$ Hybrid Structure. Nano Letters, 2021, 21, 189-196.   | 4.5 | 18        |
| 49 | Multiple spin-orbit excitons in $\text{RuCl}_3$ from bulk to atomically thin layers. Npj Quantum Materials, 2021, 6, .   | 1.8 | 18        |
| 50 | Emergent nematicity and intrinsic versus extrinsic electronic scattering processes in the kagome metal $\text{CsV}_3$ . Physical Review Research, 2022, 4, .                     | 1.3 | 18        |
| 51 | Evidence for Dimer Crystal Melting in the Frustrated Spin-Ladder System $\text{BiCu}_2\text{PO}_6$ . Physical Review Letters, 2013, 110, 117204.                                 | 2.9 | 17        |
| 52 | Proximity to a commensurate charge modulation in $\text{IrTe}_2\text{Se}_x$ ( $x = 0$ and $0.45$ ) revealed by Raman spectroscopy. New Journal of Physics, 2014, 16, 093061.     | 1.2 | 17        |
| 53 | Structural instability of the $\text{CoO}_4$ tetrahedral chain in $\text{SrCoO}_3$ thin films. Journal of Applied Physics, 2015, 118, .  | 1.1 | 17        |
| 54 | Giant thermal magnetoconductivity in $\text{CrCl}_3$ and a general model for spin-phonon scattering. Physical Review Research, 2020, 2, .  | 1.8 | 17        |

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|----|---|-----|-----------|
| 55 | Critical spin dynamics of the $S=1/2$ spin chain compound $\text{CuSe}_2\text{O}_5$ . <i>Physical Review B</i> , 2011, 83, .  | 1.1 | 16        |
| 56 | Structural Tailoring Effects on the Magnetic Behavior of Symmetric and Asymmetric Cubane-type Ni complexes. <i>Chemistry - an Asian Journal</i> , 2013, 8, 1152-1159.   | 1.7 | 16        |
| 57 | Magnetic field-dependent low-energy magnon dynamics in $\text{RuCl}_2$ . <i>Physical Review B</i> , 2019, 100, .  | 1.1 | 16        |
| 58 | Terahertz excitations in $\text{RuCl}_2$ . <i>Physical Review B</i> , 2019, 100, .  | 1.1 | 16        |
| 59 | Raman spectroscopic diagnostic of quantum spin liquids. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 043001.  | 0.7 | 16        |
| 60 | Chemical tuning of magnetic anisotropy and correlations in $\text{NiO}$ . <i>Physical Review B</i> , 2021, 104, .   | 1.1 | 14        |
| 61 | Orbital ordering in $\text{La}_2\text{O}_2\text{Fe}_2\text{O}_7$ . <i>Physical Review B</i> , 2021, 104, .  | 1.1 | 14        |
| 62 | Spin-orbit coupled molecular quantum magnetism realized in inorganic solid. <i>Nature Communications</i> , 2016, 7, 12912.  | 5.8 | 14        |
| 63 | Temporal and field evolution of spin excitations in the disorder-free triangular antiferromagnet $\text{Na}_2\text{V}_2\text{O}_7$ . <i>Physical Review B</i> , 2021, 103, .  | 1.1 | 14        |
| 64 | Role of Ferromagnetic Monolayer $\text{WSe}_2$ Flakes in the $\text{Pt}/\text{Y}_3\text{Fe}_5\text{O}_{12}$ Bilayer Structure in the Longitudinal Spin Seebeck Effect. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 15783-15790. | 4.0 | 14        |
| 65 | Interplay of triplets and lattice degrees of Freedom in the coupled spin dimer system $\text{KCuCl}_3$ . <i>Physical Review B</i> , 2005, 72, .   | 1.1 | 13        |
| 66 | Coupled spin-lattice fluctuations in a compound with orbital degrees of freedom: The Cr-based dimer system $\text{Sr}_3\text{Cr}_2\text{O}_8$ . <i>Physical Review B</i> , 2011, 84, .  | 1.1 | 13        |
| 67 | Dynamical spin-orbital correlations versus random singlets in $\text{BaCu}_3\text{Sb}_7$ . <i>Physical Review B</i> , 2014, 90, .   | 1.1 | 13        |
| 68 | Low-temperature mixed spin state of $\text{Co}^{3+}$ in $\text{LaCoO}_3$ evidenced from Jahn-Teller lattice distortions. <i>Low Temperature Physics</i> , 2006, 32, 162-168.  | 0.2 | 12        |
| 69 | Variable Dimensionality, Valence, and Magnetism in Fluoride-Rich Iron Phosphates $\text{Ba}_x\text{Fe}_x(\text{PO}_4)_4\text{F}_y$ ( $x=3, 2$ ). <i>Physical Review B</i> , 2009, 79, .   | 1.1 | 11        |
| 70 | Interplay of electronic correlations and lattice instabilities in $\text{BaVS}_3$ . <i>Physical Review B</i> , 2009, 80, .  | 1.1 | 11        |
| 71 | Anomalous frequency and intensity scaling of collective and local modes in a coupled-spin tetrahedral system $\text{Cu}_2\text{S}$ . <i>Physical Review B</i> , 2009, 79, .   | 1.1 | 11        |
| 72 | Coupling of spin and lattice modes in the antiferromagnet $\text{K}_2\text{V}_2\text{O}_7$ . <i>Physical Review B</i> , 2009, 79, .   | 1.1 | 11        |

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|----|---|-----|-----------|
| 73 | Persistence of localized and collective magnetism in the coupled spin tetrahedra system $\text{Cu}_4\text{Te}_5\text{O}_{12}$ . Physical Review B, 2013, 87, .  | 1.1 | 11        |
| 74 | Kitaev Spin Liquid Candidate $\text{Os}_3\text{Cl}_3$ Comprised of Honeycomb Nano-Domains. Journal of the Physical Society of Japan, 2020, 89, 114709.  | 0.7 | 11        |
| 75 | Transition-Metal Monofluorophosphate $\text{Ba}_2\text{M}_2(\text{PO}_3\text{F})_6$ (M = Mn, Co, and Ni): Varied One-Dimensional Transition-Metal Chains and Antiferromagnetism. Inorganic Chemistry, 2020, 59, 3794-3804.                              | 1.9 | 11        |
| 76 | Persistence of singlet fluctuations in the coupled spin tetrahedra system $\text{Cu}_2\text{TeO}_4$ . Physical Review B, 2011, 83, .  | 1.1 | 10        |
| 77 | Softened magnetic excitations in the $S=3/2$ distorted triangular antiferromagnet $\text{CaCr}_2\text{O}_4$ . Journal of Physics Condensed Matter, 2012, 24, 435604.  | 0.7 | 10        |
| 78 | Competing lattice fluctuations and magnetic excitations in $\text{CuO}$ . Physical Review B, 2013, 87, .  | 1.1 | 10        |
| 79 | Syntheses, Structures, and Characterization of Quaternary Tellurites, $\text{Li}_3\text{MTe}_4\text{O}_{11}$ (M = Al, Ga, and Fe). Inorganic Chemistry, 2017, 56, 5873-5879.  | 1.9 | 10        |
| 80 | Anomalous electronic, phonon, and spin excitations in the chalcogenide spinel $\text{FeCr}_2\text{S}_4$ . Journal of Physics Condensed Matter, 2007, 19, 145260.  | 0.7 | 9         |
| 81 | Weak first-order quantum phase transition in the spin-tetrahedron system $\text{Cu}_2\text{Te}_2\text{O}_5\text{Br}_2$ without lattice contributions. Physical Review B, 2011, 83, .  | 1.1 | 9         |
| 82 | Anomalous spin dynamics in $\text{CdCu}_2(\text{BO}_3)_2$ revealed by $^{11}\text{B}$ NMR and $\text{ZF-}\mu\text{SR}$ . Physical Review B, 2014, 90, .   | 1.1 | 9         |
| 83 | Anomalous spin dynamics in the coupled spin tetramer system $\text{CuSeO}_3$ . Physical Review B, 2017, 95, .   | 1.1 | 9         |
| 84 | Lone-pair self-containment in pyritohedron-shaped closed cavities: optimized hydrothermal synthesis, structure, magnetism and lattice thermal conductivity of $\text{Co}_{15}\text{F}_2(\text{TeO}_3)_{14}$ . Dalton Transactions, 2020, 49, 2234-2243. | 1.6 | 9         |
| 85 | Charge density waves in $\text{Sr}_{14-x}\text{Ca}_x\text{Cu}_2\text{O}_{41}$ : Electron correlations versus structural effects. Physical Review B, 2006, 73, .   | 1.1 | 8         |
| 86 | Inhomogeneous magnetic cluster states in the magnetoresistance material $\text{Lu}_2\text{Zr}_2\text{O}_8$ . Physical Review B, 2010, 82, .   | 1.1 | 8         |
| 87 | Spin dynamics of the $S=5/2$ 2D triangular antiferromagnet $\text{Ba}_3\text{NbFe}_3\text{Si}_2\text{O}_{14}$ . Journal of Physics Condensed Matter, 2012, 24, 246001.  | 0.7 | 8         |
| 88 | Lattice and orbital fluctuations in $\text{TiPO}_4$ . Physical Review B, 2013, 88, .  | 1.1 | 8         |
| 89 | Quantum criticality in the coupled two-leg spin ladder $\text{Ba}_2\text{Cu}_2\text{O}_7$ . Physical Review B, 2017, 95, .  |     |           |
| 90 | Charge gap and charge-phonon coupling in $\text{LuFe}_2\text{O}_4$ . Physical Review B, 2013, 87, .   | 1.1 | 7         |

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|----|--|-----|-----------|
| 91 | Collective excitations in the metallic triangular antiferromagnet $\text{PdCrO}_2$ . Physical Review B, 2014, 90, .  | 1.1 | 7         |
| 92 | Magnetic, structural, and electronic properties of the multiferroic compound $\text{FeTe}_2\text{O}_5\text{Br}$ with geometrical frustration. Journal of Physics Condensed Matter, 2014, 26, 086001. | 0.7 | 7         |
| 93 | Spin decoherence processes in the $S = 1/2$ scalene triangular cluster ( $\text{Cu}_3(\text{OH})$ ). New Journal of Physics, 2015, 17, 033042.   | 1.2 | 7         |
| 94 | Quantum critical nature of the short-range magnetic order in $\text{Sr}_2\text{Cu}_2\text{O}_7$ . Physical Review B, 2018, 98, .   | 1.1 | 7         |
| 95 | Dichotomic nature of spin and electronic fluctuations in FeSe. Physical Review B, 2019, 99, .  | 1.1 | 7         |
| 96 | Quantum disordered state in the $\text{J}_1$ square-lattice antiferromagnet  |     |           |

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|-----|--|-----|-----------|
| 109 | Noncubic local distortions and spin-orbit excitons in $K_2\text{IrCl}_6$ . Physical Review B, 2022, 105, .   | 1.1 | 4         |
| 110 | Spin dynamics in the quantum spin system $\text{KCu}_5\text{V}_3\text{O}_{13}$ . Physica B: Condensed Matter, 2003, 326, 436-439.  | 1.3 | 3         |
| 111 | Random magnetism in the frustrated triangular spin ladder $\text{KCu}_5\text{V}_3\text{O}_{13}$ . Physical Review B, 2004, 70, .   | 1.1 | 3         |
| 112 | Inelastic Light Scattering Experiments on the Coupled Spin Dimer System $\text{Tl}_{1-x}\text{K}_x\text{CuCl}_3$ . Progress of Theoretical Physics Supplement, 2005, 159, 195-199.   | 0.2 | 3         |
| 113 | Electronic Raman scattering in magnetite. Journal of Applied Physics, 2007, 101, 09G108.   | 1.1 | 3         |
| 114 | Spin Dynamics of the $S = 1/2$ Pyrochlore System $\text{Cu}_2(\text{OH})_3\text{Cl}$ Studied by Using High-frequency ESR. Journal of the Korean Physical Society, 2011, 58, 270-275.   | 0.3 | 3         |
| 115 | Nonmagnetic impurity effects in the decorated shastry-sutherland compound $\text{Cd}(\text{Cu}_{1-x}\text{Zn}_x)_2(\text{BO}_3)_2$ ( $0 \leq x \leq 0.2$ ). Journal of the Korean Physical Society, 2013, 63, 1028-1033.   | 0.3 | 3         |
| 116 | Mixed Transition Metal (Oxy)fluoride Paramagnet Chains: Synthesis, Structure, and Characterization. European Journal of Inorganic Chemistry, 2019, 2019, 3112-3119.  | 1.0 | 3         |
| 117 | Unconventional spin excitations in the $S=3/2$ triangular antiferromagnet $\text{RbAg}_2\text{Cr}[\text{VO}_4]_2$ . Physical Review B, 2020, 101, .  | 1.1 | 3         |
| 118 | Unusual spin pseudogap behavior in the spin web lattice $\text{Cu}_3\text{O}_6$ probed by $\text{Te}^{125}$ nuclear magnetic resonance. Open Framework Iron Fluoride Phosphates Based on Chain, Trinuclear, and Tetranuclear Chain $\text{Fe}^{III}$ Building Units: Crystal Structures and Magnetic Properties. Inorganic Chemistry, 2022, 61, 9257-9268. | 1.3 | 3         |
| 119 | Open Framework Iron Fluoride Phosphates Based on Chain, Trinuclear, and Tetranuclear Chain $\text{Fe}^{III}$ Building Units: Crystal Structures and Magnetic Properties. Inorganic Chemistry, 2022, 61, 9257-9268.   | 1.9 | 3         |
| 120 | Phonons and magnons in stripe-ordered nickelates. A Raman scattering study. Low Temperature Physics, 2005, 31, 154-160.  | 0.2 | 2         |
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