## Hyun-Joo Koo

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#	Paper	IF	Citations
77	Spin exchange interactions and magnetic structures of extended magnetic solids with localized spins: theoretical descriptions on formal, quantitative and qualitative levels. <i>Journal of Solid State Chemistry</i> , <b>2003</b> , 176, 417-481	3.3	254
76	Magnetic properties and energy-mapping analysis. <i>Dalton Transactions</i> , <b>2013</b> , 42, 823-53	4.3	215
75	Analysis of the spin exchange interactions and the ordered magnetic structures of lithium transition metal phosphates LiMPO4 (M = Mn, Fe, Co, Ni) with the olivine structure. <i>Inorganic Chemistry</i> , <b>2005</b> , 44, 2407-13	5.1	92
74	Flux growth of vanadyl pyrophosphate, (VO)(2)P(2)O(7), and spin dimer analysis of the spin exchange interactions of (VO)(2)P(2)O(7) and vanadyl hydrogen phosphate, VO(HPO(4)).0.5H(2)O. <i>Inorganic Chemistry</i> , <b>2002</b> , 41, 4664-72	5.1	77
73	Prediction of Spin Orientations in Terms of HOMO-LUMO Interactions Using Spin-Orbit Coupling as Perturbation. <i>Accounts of Chemical Research</i> , <b>2015</b> , 48, 3080-7	24.3	56
<del>7</del> 2	Dimethylammonium copper formate [(CH3)2NH2]Cu(HCOO)3: A metal-organic framework with quasi-one-dimensional antiferromagnetism and magnetostriction. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	54
71	Cu(HCO2)2L $\{L = pyrazine, 4,4?-bipyridine\}$ : employing the formate anion as a building block in three-dimensional coordination polymers. <i>Dalton Transactions</i> , <b>2003</b> , 2905-2911	4.3	53
70	Interpretation of the magnetic structures of Cu2Te2O5X2 (X = Cl, Br) and Ca3.1Cu0.9RuO6 on the basis of electronic structure considerations: cases for strong super-superexchange interactions involving Cu2+ ions. <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 3898-906	5.1	50
69	Spin dimer, electronic band structure and classical spin analyses of spin exchange interactions and ordered magnetic structures of magnetic solids. <i>Solid State Sciences</i> , <b>2005</b> , 7, 827-852	3.4	50
68	Investigation of the crystal structure and the structural and magnetic properties of SrCu2(PO4)2. <i>Inorganic Chemistry</i> , <b>2005</b> , 44, 6632-40	5.1	48
67	A genuine two-dimensional Ising ferromagnet with magnetically driven re-entrant transition.  Angewandte Chemie - International Edition, 2012, 51, 11745-9	16.4	45
66	Analysis of the spin lattice model for the spin-gapped layered compounds Na(3)Cu(2)SbO(6) and Na(2)Cu(2)TeO(6) on the basis of electronic structure calculations. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 128-33	5.1	43
65	Effect of magnetic dipole-dipole interactions on the spin orientation and magnetic ordering of the spin-ladder compound Sr3Fe2O5. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 9051-3	5.1	41
64	Importance of supersuperexchange interactions in determining the dimensionality of magnetic properties. Determination of strongly interacting spin exchange paths in $A(2)Cu(PO(4))(2)$ (A = Ba, Sr), $ACuP(2)O(7)$ (Ba, Ca, Sr, Pb), $CaCuGe(2)O(6)$ , and $Cu(2)UO(2)(PO(4))(2)$ on the basis of	5.1	40
63	qualitative spin dimer analysis. <i>Inorganic Chemistry</i> , <b>2005</b> , 44, 4359-65 Crystal structure, physical properties and electronic structure of a new organic conductor <b>B</b> (BEDT-TTF)2SF5CHFCF2SO3. <i>Journal of Materials Chemistry</i> , <b>2001</b> , 11, 2008-2013		40
62	Determination of the spin-lattice relevant for the quaternary magnetic oxide Bi4Cu3V2O14 on the basis of tight-binding and density functional calculations. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 4779-84	5.1	39
61	Investigation of the incommensurate and commensurate magnetic superstructures of LiCuVO4 and CuO on the basis of the isotropic spin exchange and classical spin approximations. <i>Inorganic Chemistry</i> , <b>2004</b> , 43, 4026-35	5.1	38

60	Spin dimer analysis of the anisotropic spin exchange interactions in the distorted wolframite-type oxides CuWO4, CuMoO4-III, and Cu(Mo(0.25)W0.75)O4. <i>Inorganic Chemistry</i> , <b>2001</b> , 40, 2161-9	5.1	38
59	Analysis of the spin exchange interactions in the three phases of vanadium pyrophosphate, (VO)2P2O7, in terms of spin-orbital interaction energy. <i>Inorganic Chemistry</i> , <b>2000</b> , 39, 3599-604	5.1	34
58	Importance of the O-M-O bridges (M = V5+, Mo6+) for the spin-exchange interactions in the magnetic oxides of Cu2+ ions bridged by MO4 tetrahedra: spin-lattice models of Rb2Cu2(MoO4)3, BaCu2V2O8, and KBa3Ca4Cu3V7O28. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 4440-7	5.1	29
57	On the nature of the spin frustration in the CuO2 ribbon chains of LiCuVO4: crystal structure determination at 1.6 K, magnetic susceptibility analysis, and density functional evaluation of the spin exchange constants. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 3582-8	5.1	28
56	Investigation of the spin exchange interactions and the magnetic structure of the high-temperature multiferroic CuBr2. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	24
55	Oxygen-Vacancy-Induced Midgap States Responsible for the Fluorescence and the Long-Lasting Phosphorescence of the Inverse Spinel Mg(Mg,Sn)O4. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 1069-1075	9.6	23
54	Magnetic superstructures of cupric oxide CuO as ordered arrangements of one-dimensional antiferromagnetic chains. <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 1187-92	5.1	23
53	Strongly correlated one-dimensional magnetic behavior of NiTa2O6. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	21
52	Spin dimer analysis of the magnetic structures of Ba3Cr2O8, Ba3Mn2O8, Na4FeO4, and Ba2CoO4 with a three-dimensional network of isolated MO4 (M = Cr, Mn, Fe, Co) tetrahedra. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 10743-9	5.1	21
51	Spin Dimer Analysis of the Spin Exchange Interactions of the Vanadium Oxides AV4O9 (A=Ca, Sr, Cs2, NH2(CH2)4NH2). <i>Journal of Solid State Chemistry</i> , <b>2000</b> , 153, 263-269	3.3	21
50	Most spin-1/2 transition-metal ions do have single ion anisotropy. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 124113	3.9	20
49	A two-dimensional radical salt based upon BEDT-TTF and the dimeric, magnetic anion [Fe(tdas)2]22[(BEDT-TTF)2[Fe(tdas)2](tdas = 1,2,5-thiadiazole-3,4-dithiolate). <i>Journal of Materials Chemistry</i> , <b>2002</b> , 12, 3570-3577		20
48	Electronic and Structural Factors Controlling the Spin Orientations of Magnetic Ions. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 11854-11874	5.1	19
47	Investigation of the spin exchange interactions and magnetic Structures of the CrVO4-type transition metal phosphates, sulfates, and vanadates by spin dimer analysis. <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 5932-7	5.1	19
46	Electron Counting Scheme Relevant for Late Transition Metal Compounds with Weakly Electronegative Ligands. Electronic Band Structure Study of Phosphosilicides PtSi3P2 and NiSi2P3 Inorganic Chemistry, <b>1999</b> , 38, 340-345	5.1	19
45	Analysis of the spin exchange interactions of ferromagnetic CdVO3 in terms of first principles and qualitative electronic structure calculations. <i>Journal of Solid State Chemistry</i> , <b>2003</b> , 175, 341-347	3.3	18
44	Spin-Peierls distortions in TiPO4. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	13
43	Efficient Non-Catalytic Carboxylation of Diamines to Cyclic Ureas Using 2-Pyrrolidone as a Solvent and a Promoter. <i>Advanced Synthesis and Catalysis</i> , <b>2019</b> , 361, 297-306	5.6	13

42	Finite magnetization plateau from a two-dimensional antiferromagnet: density functional analysis of the magnetic structure of Cu3(P2O6OH)2. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 9253-6	5.1	12
41	Density functional investigation of the magnetic properties of PbMBO4 (M=Cr, Mn, Fe). <i>Solid State Communications</i> , <b>2009</b> , 149, 602-604	1.6	12
40	On the correct spin lattice for the spin-gapped magnetic solid NH4CuPO4[H2O. <i>Journal of Solid State Chemistry</i> , <b>2008</b> , 181, 276-281	3.3	12
39	Structural and Magnetic Properties of the Trirutile-type 1D-Heisenberg Anti-Ferromagnet CuTaO. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 6318-6329	5.1	11
38	On Why the Two Polymorphs of NaFePO4 Exhibit Widely Different Magnetic Structures: Density Functional Analysis. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 4966-71	5.1	11
37	A Genuine Two-Dimensional Ising Ferromagnet with Magnetically Driven Re-entrant Transition. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 11915-11919	3.6	11
36	Investigation of the Vanadyl Bond Ordering and Analysis of the Spin Exchange Interactions in Pb2V3O9 and Pb2As2VO9. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 6929-6938	9.6	11
35	Spin exchange and magnetic dipole-dipole interactions leading to the magnetic superstructures of MAs2O6 (M = Mn, Co, Ni). <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 3812-7	5.1	10
34	On the cause for the no spin-gap behavior of the triangular spin tube system CsCrF4. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2012</b> , 324, 2806-2808	2.8	10
33	Density functional investigation of the magnetic superstructure of Cu2MnSnS4. <i>Solid State Communications</i> , <b>2012</b> , 152, 1683-1685	1.6	9
32	Crucial Role of Site Disorder and Frustration in Unusual Magnetic Properties of Quasi-2D Triangular Lattice Antimonate Na4FeSbO6. <i>Applied Magnetic Resonance</i> , <b>2015</b> , 46, 1121-1145	0.8	8
31	Spin dimer analysis of the magnetic structures of A2V3O9 (A=Ba, Sr) and BNa9V14O35: Importance of the V4+D?OV4+ super-superexchange interactions mediated by the OV5+D bridges. <i>Solid State Sciences</i> , <b>2007</b> , 9, 824-832	3.4	8
30	Spin Exchanges Between Transition Metal Ions Governed by the Ligand p-Orbitals in Their Magnetic Orbitals. <i>Molecules</i> , <b>2021</b> , 26,	4.8	8
29	Synthesis and Characterization of Sodium-Iron Antimonate NaFeSbO: One-Dimensional Antiferromagnetic Chain Compound with a Spin-Glass Ground State. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 113:	3 <del>5</del> -113	356
28	Spin dimer and mapping analyses of the magnetic properties of VO(CH3CO2)2 and VO(OCH2CH2O). <i>Solid State Sciences</i> , <b>2010</b> , 12, 685-690	3.4	6
27	Intralayer ferromagnetism between S=52 ions in MnBi2Te4: Role of empty Bi p states. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	6
26	Analysis of the magnetic structure of the manganese oxychalcogenides R2Mn2Se2O (R=LaO, BaF) by density functional calculations. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2012</b> , 324, 3859-3862	2.8	5
25	Non-Idle-Spin Behavior and Field-Induced Magnetic Transitions of the Triple Chain Magnet Cu3(OH)4SO4. <i>Journal of the Physical Society of Japan</i> , <b>2012</b> , 81, 063704	1.5	5

24	Spin dimer analysis of the three-dimensional antiferromagnetic ordering in the quaternary manganese sulfides BaLn2MnS5 (Ln=La, Ce, Pr). <i>Journal of Solid State Chemistry</i> , <b>2002</b> , 169, 143-148	3.3	5
23	Analysis of Bonding and d-Electron Count in the Transition-Metal Carbides and Transition-Metal-Silicide Carbides with Discrete Linear M-C-M Units (M = Cr, Fe, Re) by Electronic Structure Calculations. <i>Inorganic Chemistry</i> , <b>1999</b> , 38, 2204-2210	5.1	5
22	On Ferro- and Antiferro-Spin-Density Waves Describing the Incommensurate Magnetic Structure of NaYNiWO. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 17856-17859	5.1	5
21	Comparison of the spin exchange interactions in PbCu2(PO4)2 and SrCu2(PO4)2 on the basis of spin dimer analysis. <i>Solid State Sciences</i> , <b>2007</b> , 9, 955-960	3.4	4
20	The Conceptual Dilemma of the One-Electron Picture in Describing the Uniaxial Magnetism at Linear Coordination Sites. <i>European Journal of Inorganic Chemistry</i> , <b>2019</b> , 2019, 2630-2634	2.3	3
19	On the long-range magnetic order and the preferred spin orientation of the layered magnetic oxides Sr2MnSi2O7 and Ba2MnGe2O7. <i>Solid State Communications</i> , <b>2012</b> , 152, 1116-1118	1.6	3
18	Density functional analysis of the magnetic structures of Sr2MGe2O7 (M=Mn, Co). <i>Journal of Magnetism and Magnetic Materials</i> , <b>2012</b> , 324, 3716-3718	2.8	3
17	Orbital Magnetic Moments of the High-Spin Co Ions at Axially-Elongated Octahedral Sites: Unquenched as Reported from Experiment or Quenched as Predicted by Theory?. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 18319-18324	5.1	2
16	Synthesis of the Elusive = / Star Structure: A Possible Quantum Spin Liquid Candidate. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 5013-5016	16.4	2
15	On the relevance of an antiferromagnetic dimer model for the spin-gapped magnetic solids Cu(terpy)Mo2O7 and Cu(OH)(p-pyc)H2O. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 2498-502	5.1	2
14	A copper-based 2D hybrid perovskite solar absorber as a potential eco-friendly alternative to lead halide perovskites. <i>Journal of Materials Chemistry C</i> ,	7.1	2
13	Unusual Spin Exchanges Mediated by the Molecular Anion PS: Theoretical Analyses of the Magnetic Ground States, Magnetic Anisotropy and Spin Exchanges of MPS (M = Mn, Fe, Co, Ni). <i>Molecules</i> , <b>2021</b> , 26,	4.8	2
12	Group of Quantum Bits Acting as a Bit Using a Single-Domain Ferromagnet of Uniaxial Magnetic Ions. <i>ChemPhysChem</i> , <b>2017</b> , 18, 2147-2150	3.2	1
11	Effect of Nonmagnetic Ion Deficiency on Magnetic Structure: Density Functional Study of SrMnOCuTe, SrMOCuTe (M = Co, Mn), and the Oxide-Hydrides SrVOH, SrVOH, and SrVOH. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 14769-14776	5.1	1
10	Two-leg spin ladder model for Ag2VOP2O7 from mapping analysis based on first principles density functional calculations. <i>Solid State Communications</i> , <b>2009</b> , 149, 847-851	1.6	1
9	Nanosession: Mott Insulators and Transitions115-122		1
8	Factors Governing the Propagation Direction and Spin-Rotation Plane of Noncollinear Magnetic Structures: A Helix vs Cycloid in Doubly Ordered Perovskites NaYMnWO and NaYNiWO. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 15124-15127	5.1	O
7	Single-Domain Ferromagnet of Noncentrosymmetric Uniaxial Magnetic Ions and Magnetoelectric Interaction. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 10196-10199	16.4	

6	properties. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2014</b> , 360, 152-156	2.8
5	Simultaneous presence of two different magnetic structures in a single-crystalline solid? Hydrogen-distribution-dependent magnetism. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 10800-2	5.1
4	Theoretical Analyses of Spin Exchange Interactions in Extended Magnetic Solids Containing Several Unpaired Spins per Spin Site. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 658, 531	
3	Determination of Strongly Interacting Spin Exchange Path and Spin Lattice Model of (VO)2(H2O){O3P-(CH2)3-PO3}?2H2O on the Basis of Spin Dimer Analysis. <i>Bulletin of the Korean Chemical Society</i> , <b>2010</b> , 31, 1665-1668	1.2
2	Reply to Comment on Dxygen-Vacancy-Induced Midgap States Responsible for the Fluorescence and the Long-Lasting Phosphorescence of the Inverse Spinel Mg(Mg,Sn)O4\(\textit{D}\)Chemistry of Materials, <b>2020</b> , 32, 7568-7568	9.6
1	Absence of Spin Frustration in the Kagomlayers of Cu2+ Ions in Volborthite Cu3V2O7(OH)2l2H2O and Observation of the Suppression and Re-Entrance of Specific Heat Anomalies in Volborthite under an External Magnetic Field. Condensed Matter 2022, 7, 24	1.8