

Myung-Hwan Whangbo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

285 papers	9,386 citations	50 h-index	88 g-index
308 ext. papers	10,451 ext. citations	6.1 avg, IF	6.18 L-index

#	Paper	IF	Citations
285	Absence of Spin Frustration in the KagomLayers of Cu ²⁺ Ions in Volborthite Cu ₃ V ₂ O ₇ (OH)·2H ₂ O and Observation of the Suppression and Re-Entrance of Specific Heat Anomalies in Volborthite under an External Magnetic Field. <i>Condensed Matter</i> , 2022 , 7, 24	1.8	
284	Prediction of Large Second Harmonic Generation in the Metal-Oxide/Organic Hybrid Compound CuMoO ₃ (p2c). <i>Symmetry</i> , 2022 , 14, 824	2.7	
283	Orbital projection technique to explore the materials genomes of optical susceptibilities. <i>AIP Advances</i> , 2022 , 12, 055206	1.5	0
282	Anomaly Negative Resistance Phenomena in Highly Epitaxial PrBa _{0.7} Ca _{0.3} Co ₂ O _{5+δ} Thin Films Induced from Superfast Redox Reactions. <i>Catalysts</i> , 2021 , 11, 1441	4	0
281	Structure and Origin of the Second-Harmonic Generation Response of Nonlinear Optical Material SrBeBO. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 11399-11405	6.4	0
280	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> , 2021 , 60, 15124-15127	5.1	0
279	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> , 2021 , 26,	4.8	2
278	Spin Exchanges Between Transition Metal Ions Governed by the Ligand p-Orbitals in Their Magnetic Orbitals. <i>Molecules</i> , 2021 , 26,	4.8	8
277	Spin Hamiltonians in Magnets: Theories and Computations. <i>Molecules</i> , 2021 , 26,	4.8	4
276	Difference in magnetic anisotropy of the ferromagnetic monolayers VCl ₃ and CrI ₃ . <i>Physical Review B</i> , 2021 , 103,	3.3	9
275	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> , 2020 , 59, 18319-18324	5.1	2
274	Magneto-Optical Kerr Switching Properties of (CrI ₃) ₂ and (CrBr ₃ /CrI ₃) Bilayers. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 1373-1380	4	14
273	Molybdenum Nitride Electrocatalysts for Hydrogen Evolution More Efficient than Platinum/Carbon: MoN/CeO@Nickel Foam. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 29153-29161	9.5	11
272	Physical Properties of Molecules and Condensed Materials Governed by Onsite Repulsion, Spin-Orbit Coupling and Polarizability of Their Constituent Atoms. <i>Molecules</i> , 2020 , 25,	4.8	1
271	Synthesis of the Elusive = / Star Structure: A Possible Quantum Spin Liquid Candidate. <i>Journal of the American Chemical Society</i> , 2020 , 142, 5013-5016	16.4	2
270	Ferromagnetic dual topological insulator in a two-dimensional honeycomb lattice. <i>Materials Horizons</i> , 2020 , 7, 2431-2438	14.4	3
269	Key Factors Controlling the Large Second Harmonic Generation in Nonlinear Optical Materials. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 9434-9439	9.5	9

268	CuO Nanoparticles with Both {100} and {111} Facets for Enhancing the Selectivity and Activity of CO Electroreduction to Ethylene. <i>Advanced Science</i> , 2020 , 7, 1902820	13.6	97
267	Ternary selenides ASbSe (A = K, Rb and Cs) as an n-type thermoelectric material with high power factor and low lattice thermal conductivity: importance of the conformationally flexible Sb-Se-Se-Sb bridges.. <i>RSC Advances</i> , 2020 , 10, 14415-14421	3.7	3
266	Intralayer ferromagnetism between S=52 ions in MnBi ₂ Te ₄ : Role of empty Bi p states. <i>Physical Review B</i> , 2020 , 101,	3.3	6
265	On Ferro- and Antiferro-Spin-Density Waves Describing the Incommensurate Magnetic Structure of NaYNiWO. <i>Inorganic Chemistry</i> , 2020 , 59, 17856-17859	5.1	5
264	Two-dimensional magnetism in EuV ₂ O ₆ . <i>Physical Review B</i> , 2020 , 102,	3.3	1
263	Aggregation of Polybismuthide Anions in a Single Compound Using Rh-CO Units: Heterometallic Cluster Ions [Rh@Bi(RhCO)] and [Rh@Bi(RhCO)]. <i>Inorganic Chemistry</i> , 2020 , 59, 10628-10633	5.1	4
262	Second harmonic generation responses of KHPO: importance of K and breaking down of Kleinman symmetry.. <i>RSC Advances</i> , 2020 , 10, 26479-26485	3.7	2
261	Reply to Comment on Oxygen-Vacancy-Induced Midgap States Responsible for the Fluorescence and the Long-Lasting Phosphorescence of the Inverse Spinel Mg(Mg,Sn)O ₄ <i>Chemistry of Materials</i> , 2020 , 32, 7568-7568	9.6	
260	The partition principles for atomic-scale structures and their physical properties: application to the nonlinear optical crystal material KBeBOF. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 19299-19306	3.6	3
259	Enhancing the Photoelectrochemical Water Oxidation Reaction of BiVO ₄ Photoanode by Employing Carbon Spheres as Electron Reservoirs. <i>ACS Catalysis</i> , 2020 , 10, 13031-13039	13.1	18
258	Electronic and Structural Factors Controlling the Spin Orientations of Magnetic Ions. <i>Inorganic Chemistry</i> , 2019 , 58, 11854-11874	5.1	19
257	Triple-Kagomelayer Slabs of Mixed-Valence Rare-Earth Ions Exhibiting Quantum Spin Liquid Behaviors: Synthesis and Characterization of EuMgSBO. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9533-9536	16.4	34
256	Selective photocatalytic conversion of alcohol to aldehydes by singlet oxygen over Bi-based metal-organic frameworks under UV-vis light irradiation. <i>Applied Catalysis B: Environmental</i> , 2019 , 254, 463-470	21.8	46
255	The Conceptual Dilemma of the One-Electron Picture in Describing the Uniaxial Magnetism at Linear Coordination Sites. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 2630-2634	2.3	3
254	Stabilizing the titanium-based metal organic frameworks in water by metal cations with empty or partially-filled d orbitals. <i>Journal of Colloid and Interface Science</i> , 2019 , 533, 9-12	9.3	7
253	Synthesis and Characterization of Sodium-Iron Antimonate NaFeSbO: One-Dimensional Antiferromagnetic Chain Compound with a Spin-Glass Ground State. <i>Inorganic Chemistry</i> , 2019 , 58, 11333-11350	5.1	6
252	Improving the photocatalytic hydrogen evolution of UiO-67 by incorporating Ce ⁴⁺ -coordinated bipyridinedicarboxylate ligands. <i>Science Bulletin</i> , 2019 , 64, 1502-1509	10.6	25
251	Dependence of the Second-Harmonic Generation Response on the Cell Volume to Band-Gap Ratio. <i>Inorganic Chemistry</i> , 2019 , 58, 9572-9575	5.1	8

250	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> , 2019 , 58, 14769-14776	5.1	1
249	Perovskite photocatalyst CsPbBr ₃ -xI _x with a bandgap funnel structure for H ₂ evolution under visible light. <i>Applied Catalysis B: Environmental</i> , 2019 , 245, 522-527	21.8	82
248	The Large Second-Harmonic Generation of LiCs PO is caused by the Metal-Cation-Centered Groups. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3933-3937	16.4	40
247	Endotaxial Growth of [100]-Oriented TaON Films on LiTaO ₃ Single Crystals for Enhanced Photoelectrochemical Water Splitting. <i>Solar Rrl</i> , 2018 , 2, 1700243	7.1	14
246	The Large Second-Harmonic Generation of LiCs ₂ PO ₄ is caused by the Metal-Cation-Centered Groups. <i>Angewandte Chemie</i> , 2018 , 130, 3997-4001	3.6	15
245	Composite of CH ₃ NH ₂ PbI ₃ with Reduced Graphene Oxide as a Highly Efficient and Stable Visible-Light Photocatalyst for Hydrogen Evolution in Aqueous HI Solution. <i>Advanced Materials</i> , 2018 , 30, 1704342	24	213
244	Enhancing the Kinetic Stability and Lifetime of Organic Light-Emitting Diodes based on Bipolar Hosts by using Spiroconjugation. <i>ChemPhysChem</i> , 2018 , 19, 1711-1715	3.2	2
243	Magnetic excitations of the Cu ²⁺ quantum spin chain in Sr ₃ CuPtO ₆ . <i>Physical Review B</i> , 2018 , 97,	3.3	5
242	Spin-Density Wave as a Superposition of Two Magnetic States of Opposite Chirality and Its Implications. <i>Inorganic Chemistry</i> , 2018 , 57, 9782-9785	5.1	9
241	Nonequivalent Spin Exchanges of the Hexagonal Spin Lattice Affecting the Low-Temperature Magnetic Properties of RInO (R = Gd, Tb, Dy): Importance of Spin-Orbit Coupling for Spin Exchanges between Rare-Earth Cations with Nonzero Orbital Moments. <i>Inorganic Chemistry</i> , 2018 , 57, 9260-9265	5.1	5
240	Comparison of the electronic and thermoelectric properties of three layered phases Bi ₂ Te ₃ , PbBi ₂ Te ₄ and PbBi ₄ Te ₇ : LEGO thermoelectrics. <i>AIP Advances</i> , 2018 , 8, 115213	1.5	5
239	Low-Dimensional Magnetic Properties of Natural and Synthetic Mixite (Bi,Ca)Cu ₆ (OH) ₆ (AsO ₄) ₃ ·nH ₂ O (n = 12) and Goudeyite YCu ₆ (OH) ₆ (AsO ₄) ₃ ·nH ₂ O (n = 12). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2018 , 644, 1782-1790	1.3	2
238	Enhancing the Photocatalytic Hydrogen Evolution Activity of Mixed-Halide Perovskite CH ₃ NH ₃ PbBr ₃ -xI _x Achieved by Bandgap Funneling of Charge Carriers. <i>ACS Catalysis</i> , 2018 , 8, 10349-10357	13.1	106
237	Interband Electron Pairing for Superconductivity from the Breakdown of the Born-Oppenheimer Approximation. <i>ChemPhysChem</i> , 2018 , 19, 3191	3.2	6
236	Cause for the Orbital Ordering of CsAgF and Its Effect on Thermoelectric Properties. <i>Inorganic Chemistry</i> , 2018 , 57, 11895-11900	5.1	3
235	Intense Single Red Emission Induced by Near-Infrared Irradiation Using a Narrow Bandgap Oxide BiVO ₄ as the Host for Yb ³⁺ and Tm ³⁺ Ions. <i>Advanced Optical Materials</i> , 2018 , 6, 1701331	8.1	25
234	Oxygen-Vacancy-Induced Midgap States Responsible for the Fluorescence and the Long-Lasting Phosphorescence of the Inverse Spinel Mg(Mg,Sn)O ₄ . <i>Chemistry of Materials</i> , 2017 , 29, 1069-1075	9.6	23
233	Fine-Tuning the Properties of Doped Multifunctional Materials by Controlled Reduction of Dopants. <i>Chemistry - A European Journal</i> , 2017 , 23, 2998-3001	4.8	5

232	Seebeck Coefficients of Layered BiCuSeO Phases: Analysis of Their Hole-Density Dependence and Quantum Confinement Effect. <i>Chemistry of Materials</i> , 2017 , 29, 2348-2354	9.6	23
231	NiII Coordination to an Al-Based Metal-Organic Framework Made from 2-Aminoterephthalate for Photocatalytic Overall Water Splitting. <i>Angewandte Chemie</i> , 2017 , 129, 3082-3086	3.6	29
230	Ni Coordination to an Al-Based Metal-Organic Framework Made from 2-Aminoterephthalate for Photocatalytic Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3036-3040	16.4	128
229	Structural and Magnetic Properties of the Trirutile-type 1D-Heisenberg Anti-Ferromagnet CuTaO. <i>Inorganic Chemistry</i> , 2017 , 56, 6318-6329	5.1	11
228	Single-Domain Ferromagnet of Noncentrosymmetric Uniaxial Magnetic Ions and Magnetoelectric Interaction. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10196-10199	16.4	
227	Group of Quantum Bits Acting as a Bit Using a Single-Domain Ferromagnet of Uniaxial Magnetic Ions. <i>ChemPhysChem</i> , 2017 , 18, 2147-2150	3.2	1
226	Superconductivity Induced by Oxygen Doping in Y O Bi. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10123-10126	16.4	7
225	Magnetic phase transitions and magnetoelastic coupling in S=12 Heisenberg antiferromagnets. <i>Physical Review B</i> , 2017 , 95,	3.3	3
224	AMnXO Family (A = Li, Na, Ag; X = Si, Ge): Structural and Magnetic Properties. <i>Inorganic Chemistry</i> , 2017 , 56, 14023-14039	5.1	11
223	Roles of reaction kinetics of CO ₂ on a PrBaCo ₂ O _{5.5} + δ Surfaces. <i>RSC Advances</i> , 2017 , 7, 40558-40562	3.7	6
222	Magnetic field-temperature phase diagram of multiferroic [(CH ₃) ₂ NH ₂]Mn(HCOO) ₃ . <i>Physical Review B</i> , 2017 , 96,	3.3	22
221	Single-Domain Ferromagnet of Noncentrosymmetric Uniaxial Magnetic Ions and Magnetoelectric Interaction. <i>Angewandte Chemie</i> , 2017 , 129, 10330-10333	3.6	1
220	Magnetic Properties from the Perspectives of Electronic Hamiltonian 2017 , 285-343		7
219	The Road Map toward Room-Temperature Superconductivity: Manipulating Different Pairing Channels in Systems Composed of Multiple Electronic Components. <i>Condensed Matter</i> , 2017 , 2, 24	1.8	14
218	Competing Jahn-Teller distortions and hydrostatic pressure effects in the quasi-one-dimensional quantum ferromagnet CuAs ₂ O ₄ . <i>Physical Review B</i> , 2016 , 93,	3.3	5
217	Spin-Lattice Coupling in [Ni(HF)(pyrazine)]SbF ₄ Involving the HF Superexchange Pathway. <i>Inorganic Chemistry</i> , 2016 , 55, 12172-12178	5.1	5
216	An efficient visible-light photocatalyst made from a nonpolar layered semiconductor by grafting electron-withdrawing organic molecules to its surface. <i>Chemical Communications</i> , 2016 , 52, 13507-13510	5.8	29
215	Possibility of combining ferroelectricity and Rashba-like spin splitting in monolayers of the 1T-type transition-metal dichalcogenides MX ₂ (M=Mo,W;X=S,Se,Te). <i>Physical Review B</i> , 2016 , 94,	3.3	59

214	Condensed-matter equation of states covering a wide region of pressure studied experimentally. <i>Scientific Reports</i> , 2016 , 6, 39212	4.9	0
213	Structure and Composition of the 200 K-Superconducting Phase of H ₂ S at Ultrahigh Pressure: The Perovskite (SH ⁻)(H ₃ S ⁺). <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3682-4	16.4	28
212	Magnetic structure of (C ₅ H ₁₂ N)CuBr ₃ : origin of the uniform Heisenberg chain behavior and the magnetic anisotropy of the Cu ²⁺ (S = 1/2) ions. <i>RSC Advances</i> , 2016 , 6, 22722-22727	3.7	3
211	Structure and Composition of the 200 K-Superconducting Phase of H ₂ S at Ultrahigh Pressure: The Perovskite (SH ⁻)(H ₃ S ⁺). <i>Angewandte Chemie</i> , 2016 , 128, 3746-3748	3.6	6
210	Spin orientations of the spin-half Ir(4+) ions in Sr ₃ NiIrO ₆ , Sr ₂ IrO ₄ , and Na ₂ IrO ₃ : Density functional, perturbation theory, and Madelung potential analyses. <i>Journal of Chemical Physics</i> , 2016 , 144, 114706	3.9	14
209	Analogies between Jahn-Teller and Rashba spin physics. <i>International Journal of Quantum Chemistry</i> , 2016 , 116, 1442-1450	2.1	2
208	Spin excitations in the two-dimensional strongly coupled dimer system malachite. <i>Physical Review B</i> , 2015 , 91,	3.3	4
207	Crucial Role of Site Disorder and Frustration in Unusual Magnetic Properties of Quasi-2D Triangular Lattice Antimonate Na ₄ FeSbO ₆ . <i>Applied Magnetic Resonance</i> , 2015 , 46, 1121-1145	0.8	8
206	Synthesis and characterization of ZnS with controlled amount of S vacancies for photocatalytic H ₂ production under visible light. <i>Scientific Reports</i> , 2015 , 5, 8544	4.9	137
205	Emergence of ferroelectricity and spin-valley properties in two-dimensional honeycomb binary compounds. <i>Physical Review B</i> , 2015 , 91,	3.3	107
204	Loss of Linear Band Dispersion and Trigonal Structure in Silicene on Ir(111). <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1065-70	6.4	19
203	On Why the Two Polymorphs of NaFePO ₄ Exhibit Widely Different Magnetic Structures: Density Functional Analysis. <i>Inorganic Chemistry</i> , 2015 , 54, 4966-71	5.1	11
202	Synthesis of the Layered Quaternary Uranium-Containing Oxide Cs ₂ Mn ₃ U ₆ O ₂₂ and Characterization of its Magnetic Properties. <i>Inorganic Chemistry</i> , 2015 , 54, 5495-503	5.1	4
201	Insights into How Fluorine-Adsorption and n-Type Doping Affect the Relative Stability of the (001) and (101) Surfaces of TiO ₂ : Enhancing the Exposure of More Active but Thermodynamically Less Stable (001). <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1876-82	6.4	31
200	Catalytic Dynamics and Oxygen Diffusion in Doped PrBaCo ₂ O _{5.5+δ} Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24353-9	9.5	16
199	Organic-Inorganic hybrid perovskites AB ₃ (A = CH ₃ NH ₃ , NH ₂ CHNH ₂ ; B = Sn, Pb) as potential thermoelectric materials: a density functional evaluation. <i>RSC Advances</i> , 2015 , 5, 78701-78707	3.7	51
198	Prediction of Spin Orientations in Terms of HOMO-LUMO Interactions Using Spin-Orbit Coupling as Perturbation. <i>Accounts of Chemical Research</i> , 2015 , 48, 3080-7	24.3	56
197	Atomically layer-by-layer diffusion of oxygen/hydrogen in highly epitaxial PrBaCo ₂ O _{5.5+δ} thin films. <i>Applied Physics Letters</i> , 2015 , 107, 243903	3.4	12

196	Enhancing the Efficiency of Water Oxidation by Boron-Doped BiVO under Visible Light: Hole Trapping by BO Tetrahedra. <i>ChemPlusChem</i> , 2015 , 80, 1113-1118	2.8	12
195	Tolerance Factor and Cation/Anion Orbital Interactions Differentiating the Polar and Antiferrodistortive Structures of Perovskite Oxides ABO ₃ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015 , 641, 1043-1052	1.3	12
194	On Structural Features Necessary for Near-IR-Light Photocatalysts. <i>Chemistry - A European Journal</i> , 2015 , 21, 13583-7	4.8	9
193	Magnetic and electrode properties, structure and phase relations of the layered triangular-lattice tellurate Li ₄ NiTeO ₆ . <i>Journal of Solid State Chemistry</i> , 2015 , 225, 89-96	3.3	20
192	Strain-induced quantum spin Hall effect in methyl-substituted germanane GeCH ₃ . <i>Scientific Reports</i> , 2014 , 4, 7297	4.9	58
191	Ultrafast atomic layer-by-layer oxygen vacancy-exchange diffusion in double-perovskite LnBaCo ₂ O _{5.5} + δ thin films. <i>Scientific Reports</i> , 2014 , 4, 4726	4.9	33
190	Ultrafast chemical dynamic behavior in highly epitaxial LaBaCo ₂ O ₅ + δ thin films. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 5660-5666	7.1	9
189	Strongly correlated one-dimensional magnetic behavior of NiTa ₂ O ₆ . <i>Physical Review B</i> , 2014 , 89,	3.3	21
188	Characterization of the spin-1/2 linear-chain ferromagnet CuAs ₂ O ₄ . <i>Physical Review B</i> , 2014 , 89,	3.3	14
187	Ag ₆ Si ₂ O ₇ : a Silicate Photocatalyst for the Visible Region. <i>Chemistry of Materials</i> , 2014 , 26, 3873-3875	9.6	104
186	Electron-Hole Pair Generation of the Visible-Light Plasmonic Photocatalyst : Enhanced Optical Transitions Involving Midgap Defect States of AgCl. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 12133-12140	3.8	44
185	Two-Orbital Three-Electron Stabilizing Interaction for Direct Co ²⁺ -As ³⁺ Bonds involving Square-Planar CoO ₄ in BaCoAs ₂ O ₅ . <i>Angewandte Chemie</i> , 2014 , 126, 3175-3178	3.6	0
184	Tunable ferroelectric polarization and its interplay with spin-orbit coupling in tin iodide perovskites. <i>Nature Communications</i> , 2014 , 5, 5900	17.4	215
183	Magnetism of the Fe ²⁺ and Ce ³⁺ sublattices in Ce ₂ O ₂ FeSe ₂ : A combined neutron powder diffraction, inelastic neutron scattering, and density functional study. <i>Physical Review B</i> , 2014 , 90,	3.3	10
182	Most spin-1/2 transition-metal ions do have single ion anisotropy. <i>Journal of Chemical Physics</i> , 2014 , 141, 124113	3.9	20
181	Evaluating the Curie-Weiss Temperature of a Magnetic System Composed of Nonequivalent Magnetic Ions in Terms of Spin Exchange Constants. <i>Bulletin of the Korean Chemical Society</i> , 2014 , 35, 1277-1278	1.2	5
180	Unified model of ferroelectricity induced by spin order. <i>Physical Review B</i> , 2013 , 88,	3.3	37
179	Enhancing the Thermoelectric Properties of Layered Transition-Metal Dichalcogenides 2H-MQ ₂ (M = Mo, W; Q = S, Se, Te) by Layer Mixing: Density Functional Investigation. <i>Chemistry of Materials</i> , 2013 , 25, 3745-3752	9.6	72

178	Dimethylammonium copper formate $[(\text{CH}_3)_2\text{NH}_2]\text{Cu}(\text{HCOO})_3$: A metal-organic framework with quasi-one-dimensional antiferromagnetism and magnetostriction. <i>Physical Review B</i> , 2013 , 87,	3-3	54
177	Magnetic properties and energy-mapping analysis. <i>Dalton Transactions</i> , 2013 , 42, 823-53	4-3	215
176	Tunable topological surface and realization of insulating massive Dirac fermion state in $\text{Bi}_2\text{Te}_2\text{Se}$ with co-substitution. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 114-120	7-1	3
175	Spin-Peierls distortions in TiPO_4 . <i>Physical Review B</i> , 2013 , 88,	3-3	13
174	On the nature of the photochemical reaction of polypyridyl $\text{Ru}(\text{II})$ complexes leading to sunlight-to-chemical energy conversion: density functional analysis. <i>RSC Advances</i> , 2013 , 3, 9414	3-7	
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154 The C_{2v} ML3 Fragment **2013**, 503-526

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149 Chemistry on the Surface **2013**, 691-734

148 Magnetic Properties **2013**, 735-792

147 Quantum critical transition amplifies magnetoelastic coupling in Mn[N(CN)₂]₂. *Physical Review Letters*, **2013**, 110, 237202

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146 **2013**,

258

145 Spin/Charge Redistributions and Oxygen Atom Displacements Induced by Spin Flip and Hole Doping in the CuO₂ Layer of High-Temperature Superconductors. *Journal of Superconductivity and Novel Magnetism*, **2012**, 25, 55-59

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144 Helicoidal magnetic structure and ferroelectric polarization in Cu₃Nb₂O₈. *Physical Review B*, **2012**, 86,

3.3 6

143 A Genuine Two-Dimensional Ising Ferromagnet with Magnetically Driven Re-entrant Transition. *Angewandte Chemie*, **2012**, 124, 11915-11919

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- 142 A genuine two-dimensional Ising ferromagnet with magnetically driven re-entrant transition. *Angewandte Chemie - International Edition*, **2012**, 51, 11745-9 16.4 45
- 141 Spin reorientation in the square-lattice antiferromagnets RMnAsO (R = Ce, Nd): density functional analysis of the spin-exchange interactions between the rare-earth and transition-metal ions. *Inorganic Chemistry*, **2012**, 51, 6890-7 5.1 16
- 140 Investigation of the spin exchange interactions and the magnetic structure of the high-temperature multiferroic CuBr₂. *Physical Review B*, **2012**, 86, 3.3 24
- 139 Increasing the Phase-Transition Temperatures in Spin-Frustrated Multiferroic MnWO₄ by Mo Doping. *Chemistry of Materials*, **2012**, 24, 353-360 9.6 25
- 138 Strong single-ion anisotropy and anisotropic interactions of magnetic adatoms induced by topological surface states. *Physical Review B*, **2012**, 85, 3.3 19
- 137 Optical Properties of the Orchid Colored Silver(II) Fluoride Cs₂AgF₄. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2012**, 638, 1792-1795 1.3 4
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