

Kwang-Yong Choi

List of Publications by Year in descending order

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142
all docs

142
docs citations

142
times ranked

3923
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of eco-friendly gas mixtures for SHiP RPCs. Journal of the Korean Physical Society, 2022, 80, 1-12.	0.3	2
2	Dimer Crystallization Induced by Elemental Substitution in the Honeycomb Lattice of $\text{Ru}_{1-x}\text{Os}_x\text{Cl}_3$. Journal of the Physical Society of Japan, 2022, 91, spin fluctuations in the Kagome antiferromagnet	0.7	4
3	CsMn_3S_2		

#	ARTICLE	IF	CITATIONS
19	spin pseudogap behavior in the spin web lattice O ₆ probed by Extrinsic Surface Magnetic Anisotropy Contribution in Pt/Y ₃ Fe ₅ O ₁₂ Interface in Longitudinal Spin Seebeck Effect by Graphene Interlayer. ACS Applied Materials & Interfaces, 2021, 13, 45097-45104.	1.3	3
20	Bosonic spinons in anisotropic triangular antiferromagnets. Nature Communications, 2021, 12, 6453.	4.0	4
21	Chemical tuning of magnetic anisotropy and correlations in Ni _{1-x} Co _x Physical Review B, 2021, 104, .	5.8	5
22	Doping from CDW to topological superconductivity: The role of defects on phonon scattering in the non-centrosymmetric PbxTaSe ₂ . Low Temperature Physics, 2021, 47, 912-919.	0.2	1
23	Thermally populated versus field-induced triplon bound states in the Shastry-Sutherland lattice SrCu ₂ (BO ₃) ₂ . Npj Quantum Materials, 2021, 6, .	1.8	2
24	Persistence of Ising-like easy-axis spin correlations in the paramagnetic state of the spin-1 chain compound NiTe ₂ O ₅ . Physical Review B, 2021, 104, .	0.2	1
25	Quasihydrostatic versus nonhydrostatic pressure effects on the electrical properties of NiPS ₃ . Physical Review Materials, 2021, 5, .	0.2	1
26	Synthesis, Structure, and Characterization of Variable Chains in a Series of Transition Metal Coordination Compounds. European Journal of Inorganic Chemistry, 2020, 2020, 452-460.	1.0	6
27	Raman spectroscopic diagnostic of quantum spin liquids. Journal of Physics Condensed Matter, 2020, 32, 043001.	0.7	16
28	Raman Spectroscopic Probe of the Magnetic Specific Heat in Quantum Magnets. Journal of the Korean Physical Society, 2020, 77, 138-144.	0.3	0
29	Kitaev Spin Liquid Candidate Os _x Cl ₃ Comprised of Honeycomb Nano-Domains. Journal of the Physical Society of Japan, 2020, 89, 114709.	0.7	11
30	Observation of a random singlet state in a diluted Kitaev honeycomb material. Physical Review B, 2020, 102, .	1.1	22
31	Unconventional spin excitations in the S=3/2 triangular antiferromagnet RbAg ₂ Cr[VO ₄] ₂ . Physical Review B, 2020, 101, .	1.1	3
32	Randomly Hopping Majorana Fermions in the Diluted Kitaev System \hat{I}_{\pm} - \hat{I}_{\pm} Physical Review Letters, 2020, 124, 047204.	2.9	33
33	Transition-Metal Monofluorophosphate Ba ₂ M ₂ (PO ₃ F) ₆ (M = Mn, Co, and Ni): Varied One-Dimensional Transition-Metal Chains and Antiferromagnetism. Inorganic Chemistry, 2020, 59, 3794-3804.	1.9	11
34	Magnon bound states versus anyonic Majorana excitations in the Kitaev honeycomb magnet \hat{I}_{\pm} -RuCl ₃ . Nature Communications, 2020, 11, 1603.	5.8	72
35	Lone-pair self-containment in pyritohedron-shaped closed cavities: optimized hydrothermal synthesis, structure, magnetism and lattice thermal conductivity of Co ₁₅ F ₂ (TeO ₃) ₁₄ . Dalton Transactions, 2020, 49, 2234-2243.	1.6	9

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37	Giant thermal magnetoconductivity in CrCl_3 and a general model for spin-phonon scattering. <i>Physical Review Research</i> , 2020, 2, .	1.8	1
38	Magnetic field-dependent low-energy magnon dynamics in RuCl_3 . <i>Physical Review B</i> , 2019, 100, .	1.8	1
39	Terahertz excitations in RuCl_3 : Majorana fermions and rigid-plane shear and compression modes. <i>Physical Review B</i> , 2019, 100, .	1.1	16
40	Mixed Transition Metal (Oxy)fluoride Paramagnet Chains: Synthesis, Structure, and Characterization. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 3112-3119.	1.0	3
41	Exotic Low-Energy Excitations Emergent in the Random Kitaev Magnet Cu_2O . <i>Physical Review Letters</i> , 2019, 122, 167202.	2.9	43
42	Magnetic Anisotropy Energy Barrier Distribution and Surface Magnetism in CoPt Nanoparticle. <i>Journal of the Korean Physical Society</i> , 2019, 74, 261-268.	0.3	1
43	Dichotomic nature of spin and electronic fluctuations in FeSe. <i>Physical Review B</i> , 2019, 99, .	1.1	7
44	Variable Dimensionality, Valence, and Magnetism in Fluoride-Rich Iron Phosphates $\text{BaFe}(\text{PO}_4)_2$ and $\text{BaFe}(\text{PO}_4)_3$. <i>Physical Review B</i> , 2018, 97, .	1.1	1
45	Robustness of dynamic magnetism in the triangle-based antiferromagnets $\text{Ba}_3\text{Ru}_x\text{Ti}_{2-x}\text{O}_9$ ($x = 0.5$ and 1). <i>Physical Review B</i> , 2018, 97, .	0.3	1
46	Muon spin relaxation study of spin dynamics in the extended kagome systems YBaCo_4O_7 . <i>Physical Review B</i> , 2018, 97, .	1.1	9
47	Soft tilt and rotational modes in the hybrid improper ferroelectric Ca_3O_7 . <i>Physical Review B</i> , 2018, 97, .	1.1	23
48	Spin dynamics in the staircase kagome lattice compound $\text{PbCu}_3\text{TeO}_7$. <i>Physical Review B</i> , 2018, 98, .	1.1	2
49	Quantum critical nature of the short-range magnetic order in Sr_2O_7 . <i>Physical Review B</i> , 2018, 98, .	1.1	1
50	Sub-gap optical response in the Kitaev spin-liquid candidate RuCl_3 . <i>Journal of Physics Condensed Matter</i> , 2018, 30, 475604.	0.7	21
51	Short-range quasistatic order and critical spin correlations in RuCl_3 . <i>Physical Review B</i> , 2018, 98, .	1.1	1
52	Anomalous spin dynamics in the coupled spin tetramer system CuSeO_3 . <i>Physical Review B</i> , 2017, 95, .	1.1	9
53	Syntheses, Structures, and Characterization of Quaternary Tellurites, $\text{Li}_3\text{MTe}_4\text{O}_{11}$ ($M = \text{Al}, \text{Ga}, \text{and Fe}$). <i>Inorganic Chemistry</i> , 2017, 56, 5873-5879.	1.9	10
54	Comparative Raman scattering study of $\text{Ba}_3\text{MSb}_2\text{O}_9$ ($M = \text{Zn}, \text{Co}$ and Cu). <i>Low Temperature Physics</i> , 2017, 43, 543-550.	0.22	2

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55	Electronic and phonon excitations in RuCl_3 . Physical Review B, 2017, 96, .	1.1	37
56	Majorana fermions in the Kitaev quantum spin system $\hat{I}\pm\text{-RuCl}_3$. Nature Physics, 2017, 13, 1079-1084.	6.5	279
57	Evidence for a Field-Induced Quantum Spin Liquid in RuCl_3 . Physical Review Letters, 2017, 119, 027201.	2.9	277
58	Putative spin liquid in the triangle-based iridate $\text{Ba}_3\text{RuCl}_9\text{O}$. Physical Review B, 2017, 96, .	1.1	23
59	Magnetic Excitations and Continuum of a Possibly Field-Induced Quantum Spin Liquid in RuCl_3 . Physical Review Letters, 2017, 119, 227202.	2.9	135
60	Anomalous Thermal Conductivity and Magnetic Torque Response in the Honeycomb Magnet RuCl_3 . Physical Review Letters, 2017, 118, 187203.	2.9	153
61	Field-induced quantum criticality in the Kitaev system RuCl_3 . Physical Review B, 2017, 96, .	1.1	51
62	Relation between Kitaev magnetism and structure in RuCl_3 . Physical Review B, 2017, 95, .	1.1	50
63	Quantum criticality in the coupled two-leg spin ladder $\text{Ba}_2\text{Ru}_2\text{O}_7$. Physical Review B, 2017, 95, .		
64	Anomalous local magnetism in the 4f-localized ferromagnets $\text{CeRu}_2\text{X}_2\text{B}$ (X = Al, Ga) revealed by using ZF- μ SR. Journal of the Korean Physical Society, 2016, 68, 1200-1205.	0.3	0
65	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
66	Spin-orbit coupled molecular quantum magnetism realized in inorganic solid. Nature Communications, 2016, 7, 12912.	5.8	14
67	Raman spectroscopic signature of fractionalized excitations in the harmonic-honeycomb iridates $\hat{I}^2\text{-}$ and $\hat{I}^3\text{-Li}_2\text{IrO}_3$. Nature Communications, 2016, 7, 12286.	5.8	81
68	μ SR Spectroscopy: A Local Probe of Magnetic Moments. New Physics: Sae Mulli, 2016, 66, 1587-1592.	0.0	0
69	Spin dynamics in NaIr_3O_8 ($x=0.3$ and 0.7) investigated by ^{23}Na NMR and μ SR. Journal of Physics Condensed Matter, 2015, 27, 485603.	0.7	1
70	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
71	Structural instability of the CoO_4 tetrahedral chain in SrCoO_3 thin films. Journal of Applied Physics, 2015, 118, .	1.1	17
72	Anomalous spin dynamics in $\text{CdCu}_2(\text{BO}_3)_2$ revealed by ^{11}B NMR and ZF- μ SR. Physical Review B, 2014, 90, .	1.1	9

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73	Proximity to a commensurate charge modulation in IrTe_2Se_x ($x = 0$ and 0.45) revealed by Raman spectroscopy. <i>New Journal of Physics</i> , 2014, 16, 093061.	1.2	17
74	Dynamical spin-orbital correlations versus random singlets in BaCu_3O_9 investigated by collective excitations in the metallic triangular antiferromagnet BaCu_3O_9 . <i>Physical Review B</i> , 2014, 90, .	1.1	13
75	Coexistence of localized and collective magnetism in the coupled-spin-tetrahedra system CuCrO_2 . <i>Physical Review B</i> , 2014, 90, .	1.1	7
76	Exponential blocking-temperature distribution in ferritin extracted from magnetization measurements. <i>Physical Review B</i> , 2014, 90, .	1.1	11
77	Magnetic, structural, and electronic properties of the multiferroic compound $\text{FeTe}_2\text{O}_5\text{Br}$ with geometrical frustration. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 086001.	1.1	14
78	Spin dynamics and magnetoelectric properties of the coupled-spin tetrahedral compound $\text{Cu}_2\text{Te}_2\text{O}_5\text{Cl}_2$. <i>Physical Review B</i> , 2014, 90, .	1.1	6
79	Irreversible xenon insertion into a small-pore zeolite at moderate pressures and temperatures. <i>Nature Chemistry</i> , 2014, 6, 835-839.	0.7	7
80	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.	1.1	5
81	Lattice and orbital fluctuations in TiPO_4 . <i>Physical Review B</i> , 2013, 88, .	6.6	42
82	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, .	1.1	16
83	Nonmagnetic impurity effects in the decorated shastry-sutherland compound $\text{Cd}(\text{Cu}_{1-x}\text{Zn}_x)_2(\text{BO}_3)_2$ ($0 \leq x \leq 0.2$). <i>Journal of the Korean Physical Society</i> , 2013, 63, 1028-1033.	1.1	8
84	Evidence for Dimer Crystal Melting in the Frustrated Spin-Ladder System BiCu_2PO_6 . <i>Physical Review Letters</i> , 2013, 110, 117204.	1.1	62
85	Charge gap and charge-phonon coupling in LuFe_2O_7 . <i>Physical Review B</i> , 2013, 87, .	0.3	3
86	Competing lattice fluctuations and magnetic excitations in CuO . <i>Physical Review B</i> , 2013, 87, .	2.9	17
87	Raman study of the Verwey transition in magnetite thin films. <i>New Journal of Physics</i> , 2013, 15, 103032.	1.1	7
88	Low-dimensional magnetism of spin- $\frac{1}{2}$ chain systems of Li^+ and Li^{2-} - TeVO_4 : A comparative study. <i>Low Temperature Physics</i> , 2012, 38, 559-569.	1.1	10
89		1.2	23
90		0.2	5

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91	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. Persistence of singlet fluctuations in the coupled spin tetrahedra system $\text{Cu}_2\text{Te}_2\text{O}_5$. Physical Review B, 2011, 83, .	1.1	11
92	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
93	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
94	Persistence of singlet fluctuations in the coupled spin tetrahedra system $\text{Cu}_2\text{Te}_2\text{O}_5$. Physical Review B, 2011, 83, .	1.1	10
95	Softened magnetic excitations in the $S = 3/2$ distorted triangular antiferromagnet CaCr_2O_4 . Journal of Physics Condensed Matter, 2012, 24, 435604.	0.7	10
96	Crystal Structure and Magnetic Properties of Two New Antiferromagnetic Spin Dimer Compounds; $\text{FeTe}_3\text{O}_7\text{X}$ (X = Cl, Br). Inorganic Chemistry, 2011, 50, 12877-12885.	1.9	19
97	Weak first-order quantum phase transition in the spin-tetrahedron system $\text{Cu}_2\text{Te}_2\text{O}_5$ without lattice contributions. Physical Review B, 2011, 83, .	1.1	9
98	Single Crystal Growth and Effect of Doping on Structural, Transport and Magnetic Properties of $\text{A}^{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ (A = Ba, Sr). Journal of Superconductivity and Novel Magnetism, 2011, 24, 1773-1785.	0.8	23
99	A Planar $\{\text{Mn}_{19}(\text{OH})_{12}\}^{26+}$ Unit Incorporated in a Tungstate Silicate Polyanion. Angewandte Chemie - International Edition, 2011, 50, 5961-5964.	7.2	180
100	Coupled spin-lattice fluctuations in a compound with orbital degrees of freedom: The Cr-based dimer system $\text{Sr}_3\text{Cr}_2\text{O}_8$. Physical Review B, 2011, 84, .	1.1	13
101	Anomalous low-energy phonons in nearly tetragonal BiFeO_3 thin films. Physical Review B, 2011, 84, .	1.1	26
102	Critical spin dynamics of the $S = 1/2$ spin chain compound CuSe_2O_5 . Physical Review B, 2011, 83, .	1.1	16
103	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
104	Hysteresis Loops in an Oxo-centered $\{\text{Mn}_3\text{O}\}$ -type Spin Triangle Probed with a Pulsed Field. Journal of the Korean Physical Society, 2011, 59, 317-321.	0.3	0
105	NMR study of. Physica B: Condensed Matter, 2010, 405, 390-393.	1.3	5
106	Inhomogeneous magnetic cluster states in the magnetoresistance material $\text{Lu}_2\text{V}_2\text{O}_7$. Physical Review B, 2010, 82, .	1.1	8
107	Self-energy effects and electron-phonon coupling in FeAs superconductors. Journal of Physics Condensed Matter, 2010, 22, 115802.	0.7	26
108	ESR and its Application to Magnetic Research. Journal of the Korean Magnetism Society, 2010, 20, 120-128.	0.0	0

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109	Two inequivalent sublattices and orbital ordering in MnV ₂ O ₄ studied by ⁵¹ V NMR. Physical Review B, 2009, 80, .	1.1	21
110	Interplay of electronic correlations and lattice instabilities in BaVS ₃ . Physical Review B, 2009, 80, .	1.1	11
111	Anomalous frequency and intensity scaling of collective and local modes in a coupled-spin tetrahedral system $\langle \text{Cu} \rangle$. Physical Review B, 2009, 79, .	1.1	11
112	Ac susceptibility and ⁵¹ V NMR study of MnV ₂ O ₄ . Journal of Physics Condensed Matter, 2008, 20, 135218.	0.7	26
113	Anomalous orbital dynamics in LaSrMnO ₄ observed by Raman spectroscopy. Physical Review B, 2008, 77, .	1.1	20
114	Pulsed-field magnetization, electron spin resonance, and nuclear spin-lattice relaxation in the {Cu ₃ } spin triangle. Physical Review B, 2008, 77, .	1.1	33
115	Consistent Manipulation of Electron Spins up to Ambient Temperatures in $\langle \text{Cr} \rangle$. Physical Review B, 2008, 77, .	1.1	26
116	Electronic Raman scattering in magnetite. Journal of Applied Physics, 2007, 101, 09G108.	1.1	3
117	Anomalous electronic, phonon, and spin excitations in the chalcogenide spinel FeCr ₂ S ₄ . Journal of Physics Condensed Matter, 2007, 19, 145260.	0.7	9
118	Quantum tunneling of magnetization via well-defined Dy ^{III} -Cu exchange coupling in a ferrimagnetic high-spin [Dy ₄ Cu] single-molecule magnet. Chemical Physics Letters, 2007, 440, 263-267.	1.2	56
119	Single molecule magnet: Heterodinuclear cyano-bridged cubic cluster [(Tp) ₈ Fe ₄ Ni ₄ (CN) ₁₂] (Tp=hydrotris(1-pyrazolyl)borate). Inorganica Chimica Acta, 2007, 360, 2647-2652.	1.2	23
120	Manipulation of the quantum tunneling of nanomagnets by using time-dependent high magnetic fields. Journal of Magnetism and Magnetic Materials, 2007, 310, 1468-1472.	1.0	53
121	A ^{II} Binuclear ^{III} Dy ^{III} Single ^{III} Molecule ^{III} Magnet ^{III} . Quantum ^{III} Effects ^{III} and ^{III} Models. Journal of the American Chemical Society, 2006, 128, 9008-9009.	6.6	252
122	Oximate-Bridged Trinuclear Dy ^{III} -Cu ^{II} -Dy ^{III} Complex Behaving as a Single-Molecule Magnet and Its Mechanistic Investigation. Journal of the American Chemical Society, 2006, 128, 1440-1441.	6.6	340
123	Low-temperature mixed spin state of Co ³⁺ in LaCoO ₃ evidenced from Jahn-Teller lattice distortions. Low Temperature Physics, 2006, 32, 162-168.	0.2	12
124	Charge density waves in Sr _{1-x} CaxCu ₂ O ₄ : Electron correlations versus structural effects. Physical Review B, 2006, 73, .	1.1	8
125	Observation of a Half Step Magnetization in the {Cu ₃ }-Type Triangular Spin Ring. Physical Review Letters, 2006, 96, 107202.	2.9	102
126	Orbital fluctuating state in ferromagnetic insulating LaMnO ₃ (0.085 $\leq x \leq 0.125$) studied using Raman spectroscopy. Physical Review B, 2006, 74, .	1.1	20

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127	Existence of orbital polarons in ferromagnetic insulating $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ ($0.11 \leq x \leq 0.14$) revealed by giant phonon softening. <i>Physical Review B</i> , 2005, 71, .	1.1	26
128	Phonons and magnons in stripe-ordered nickelates. A Raman scattering study. <i>Low Temperature Physics</i> , 2005, 31, 154-160.	0.2	2
129	Interplay of triplets and lattice degrees of Freedom in the coupled spin dimer system KCuCl_3 . <i>Physical Review B</i> , 2005, 72, .	1.1	13
130	Magnetite: Raman study of the high-pressure and low-temperature effects. <i>Journal of Applied Physics</i> , 2005, 97, 10A922.	1.1	22
131	Inelastic Light Scattering Experiments on the Coupled Spin Dimer System $\text{Tl}_{1-x}\text{K}_x\text{CuCl}_3$. <i>Progress of Theoretical Physics Supplement</i> , 2005, 159, 195-199.	0.2	3
132	Raman scattering measurements of the spin ladder compound $(\text{C}_5\text{H}_{12}\text{N})_2\text{CuBr}_4$. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 4237-4244.	0.7	5
133	Random magnetism in the frustrated triangular spin ladder $\text{KCu}_5\text{V}_3\text{O}_{13}$. <i>Physical Review B</i> , 2004, 70, .	1.1	3
134	Spin dynamics in the quantum spin system $\text{KCu}_5\text{V}_3\text{O}_{13}$. <i>Physica B: Condensed Matter</i> , 2003, 326, 436-439.	1.3	3
135	Raman scattering study of $\text{Nd}_{1-x}\text{Sr}_x\text{MnO}_3$ ($x = 0.3, 0.5$). <i>Journal of Physics Condensed Matter</i> , 2003, 15, 3333-3342.	0.7	30
136	Strong anharmonicity and spin-phonon coupling in the quasi-two-dimensional quantum spin system $\text{Sr}_{1-x}\text{Ba}_x\text{Cu}_2(\text{BO}_3)_2$. <i>Physical Review B</i> , 2003, 68, .	1.1	41
137	Longitudinal magnon in the tetrahedral spin system $\text{Cu}_2\text{Te}_2\text{O}_5\text{Br}_2$ near quantum criticality. <i>Physical Review B</i> , 2003, 67, .	1.1	59
138	Quantum phase transition in the diopside magnetic lattice. <i>Europhysics Letters</i> , 2002, 60, 276-280.	0.7	21
139	Evidence for an Unconventional Magnetic Instability in the Spin-Tetrahedra System $\text{Cu}_2\text{Te}_2\text{O}_5\text{Br}_2$. <i>Physical Review Letters</i> , 2001, 87, 227201.	2.9	79
140	Strong Anisotropy of Superexchange in the Copper-Oxygen Chains of $\text{La}_{14-x}\text{Ca}_x\text{Cu}_{24}\text{O}_{41}$. <i>Physical Review Letters</i> , 2001, 86, 2882-2885.	2.9	47