Tsuyoshi Kimura

List of Publications by Year
in descending order

132 papers	10,829 citations	117625 34 h-index	30087 103 g-index
138 all docs	138 docs citations	138 times ranked	8040 citing authors

#	Article	IF	Citations
1	Visualizing rotation and reversal of the NÃ©el vector through antiferromagnetic trichroism. Nature Communications, 2022, 13, 697.	12.8	10
2	Optical excitation of electromagnons in hexaferrite. Physical Review Research, 2022, 4, .	3.6	4
3	Switching Crystallographic Chirality in Ba(TiO)Cu₄(PO₄)₄ by Laser Irradiation. Journal of Physical Chemistry Letters, 2022, 13, 3857-3862.	4.6	2
4	Ferroelectric Transition of a Chiral Molecular Crystal BINOLâˆ™2DMSO. Journal of the Physical Society of Japan, 2022, 91, .	1.6	2
5	Spin dynamics in the square-lattice cupola system <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Ba</mml:mi><mml:mrow><mml:mo>(</mml:mo><mml:mi>TiO</mml:mi><mml:mathvariant="normal">Cu</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:mo>(</mml:mo><mml:mrow><mml:msub><mml:mi>) Physical Review B, 2022, 105, .	3.2	0
6	Improved room-temperature magnetoelectric effect and crystal structure in polycrystalline BaSrCo2Fe11AlO22. Applied Physics Letters, 2021, 118, .	3.3	7
7	Observation of Ferrochiral Transition Induced by an Antiferroaxial Ordering of Antipolar Structural Units in Ba(TiO)Cu₄(PO₄)₄. Journal of the American Chemical Society, 2021, 143, 3638-3646.	13.7	6
8	Crystal-chirality-dependent control of magnetic domains in a time-reversal-broken antiferromagnet. Npj Quantum Materials, 2021, 6, .	5.2	13
9	Chirality and magnetic quadrupole order in Pb(TiO)Cu4(PO4)4 probed by interference scattering in resonant x-ray diffraction. Physical Review B, 2021, 103, .	3.2	2
10	Potential room-temperature multiferroicity in cupric oxide under high pressure. Physical Review B, 2021, 103, .	3.2	7
11	Coexistence of Magnetoelectric and Antiferroelectric-like Orders in Mn3Ta2O8. Inorganic Chemistry, 2021, 60, 15078-15084.	4.0	1
12	Femtometer atomic displacement, the root cause for multiferroic behavior of CuO unearthed through polarized Raman spectroscopy. Journal of Physics Condensed Matter, 2021, 33, 12LT01.	1.8	4
13	Nonreciprocal Directional Dichroism in a Magnetic-Field-Induced Ferroelectric Phase of Pb(TiO)Cu₄(PO₄)₄. Journal of the Physical Society of Japan, 2021, 90, .	1.6	3
14	Nonreciprocal linear dichroism observed in electron spin resonance spectra of the magnetoelectric multiferroic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Pb</mml:mi><mml:mrow><mml:mo>(</mml:mo><mml:m Physical Review Research, 2021, 3, .	3.6	3
15	Barium hexaferrite/muscovite heteroepitaxy with mechanically robust perpendicular magnetic anisotropy. Npj Flexible Electronics, 2021, 5, .	10.7	4
16	Phase transition and domain formation in ferroaxial crystals. Physical Review Materials, 2021, 5, .	2.4	17
17	Imaging switchable magnetoelectric quadrupole domains via nonreciprocal linear dichroism. Communications Materials, 2020, 1, .	6.9	25
18	Synthesis, Structure, and Anomalous Magnetic Ordering of the Spin-1/2 Coupled Square Tetramer System K(NbO)Cu₄(PO₄)₄. Inorganic Chemistry, 2020, 59, 10986-10995.	4.0	5

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19	Capacitive detection of magnetostriction, dielectric constant, and magneto-caloric effects in pulsed magnetic fields. Review of Scientific Instruments, 2020, 91, 105103.	1.3	15
20	Domain switching and exchange bias control by electric field in the multiferroic conical magnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">M</mml:mi><mml:msub><mml:mi mathvariant="normal">n</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>Ge</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 102, .	3.2	8
21	Visualization of ferroaxial domains in an order-disorder type ferroaxial crystal. Nature Communications, 2020, 11, 4582.	12.8	38
22	Local electric-field control of multiferroic spin-spiral domains in TbMnO3. Npj Quantum Materials, 2020, 5, .	5.2	10
23	Direct Evidence of Simultaneous Reversal of Ferrimagnetically Coupled Sm 4f and Mn 3d Angular Momenta in SmMnO3. Journal of the Korean Physical Society, 2020, 76, 904-910.	0.7	1
24	Magnetic structure of the square cupola compound Ba(TiO) Cu4(PO4)4. Physical Review B, 2020, 101, .	3.2	3
25	Broad spectral tuning of ultra-low-loss polaritons in a van der Waals crystal by intercalation. Nature Materials, 2020, 19, 964-968.	27.5	129
26	Emergent spin-1 Haldane gap and ferroelectricity in a frustrated spin- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml ladder. Physical Review B, 2020, 101, .	3.2	4
27	Multiple magnetic order parameters coexisting in multiferroic hexaferrites resolved by soft x rays. Journal of Applied Physics, 2020, 128, .	2.5	2
28	Magnetoelectric Behaviors in Magnetic-Field-Induced Phases of Pb(TiO)Cu₄(PO₄)₄. Journal of the Physical Society of Japan, 2019, 88, 093707.	1.6	8
29	Insights into magnetoelectric coupling mechanism of the room-temperature multiferroic Sr3Co2Fe24O41 from domain observation. Physical Review B, 2019, 100, .	3.2	8
30	Magnetoelectric behavior from cluster multipoles in square cupolas: Study of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Sr</mml:mi><mml:mrow><mml:mo in comparison with Ba and Pb isostr. Physical Review B, 2019, 99, .	3.2	14
31	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>A</mml:mi></mml:math> -cation control of magnetoelectric quadrupole order in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>A</mml:mi><mml:msub><mml:mrow><mml:mo>(Physical Review B, 2018, 97, .	3.2	21
32	Soft x-ray resonant diffraction study of magnetic structure in magnetoelectric Y-type hexaferrite. Physica B: Condensed Matter, 2018, 536, 118-121.	2.7	10
33	Measuring Magnetically-Tuned Ferroelectric Polarization in Liquid Crystals. Journal of Visualized Experiments, 2018, , .	0.3	0
34	Observation of collinear antiferromagnetic domains making use of the circular dichroic charge-magnetic interference effect of resonant x-ray diffraction. Physical Review B, 2018, 98, .	3.2	9
35	Spatial coherence of the insulating phase in quasi-two-dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LaNiO</mml:mi><mml:mn>3</mml:mn></mml:msub> films. Physical Review B, 2018, 98, .	3.2	12
36	Magnetoelectric inversion of domain patterns. Nature, 2018, 560, 466-470.	27.8	32

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37	Magnetic structural unit with convex geometry: A building block hosting an exchange-striction-driven magnetoelectric coupling. Physical Review Materials, 2018, 2, .	2.4	13
38	Magnetoelectric Behavior from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn><mml:mo stretchy="false">/</mml:mo><mml:mn>2</mml:mn></mml:math> Asymmetric Square Cupolas. Physical Review Letters, 2017, 118, 107601.	7.8	21
39	Enhancement of magnetoelectric operating temperature in compressed Cr2O3 under hydrostatic pressure. Applied Physics Letters, 2017, 110, .	3.3	19
40	Coupled multiferroic domain switching in the canted conical spin spiral system Mn2GeO4. Nature Communications, 2017, 8, 15457.	12.8	17
41	Structural deformation of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn></mml:mrow></mml:math> kagome-lattice compound <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>KV</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> Observation of magnetic domain and bubble structures in magnetoelectric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mi mathvariant="normal">r</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:mi mathvariant="normal">o</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>.	3.2	6
42	Electric-Field-Induced Reorientation of the Magnetic Easy Plane in a Co-Substituted BiFeO₃ Single Crystal. Inorganic Chemistry, 2017, 56, 15171-15177.	3.2	20
43	Anisotropic magnetodielectric effect in the honeycomb-type magnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î±</mml:mi><mml:mtext>â€²</mml:mtext><mml:msub> Physical Review B, 2017, 95, .	4.0	13
44	Room-temperature magnetoelectric effect in a chiral smectic liquid crystal. Applied Physics Letters, 2017, 111, .	3.3	9
45	Magnetic structure of Ba(TiO)Cu4(PO4)4 probed using spherical neutron polarimetry. Physical Review B, 2017, 96, .	3.2	11
46	Bayesian inference of metal oxide ultrathin film structure based on crystal truncation rod measurements. Journal of Applied Crystallography, 2017, 50, 1611-1616.	4.5	13
47	Electromagnon dispersion probed by inelastic X-ray scattering in LiCrO2. Nature Communications, 2016, 7, 13547.	12.8	29
48	Magnetic structure and effect of magnetic field on its domain structure in magnetoelectric Ba1.3Sr0.7CoZnFe11AlO22. Applied Physics Letters, 2016, 109, .	3.3	11
49	Confirmation of no Structural and Chemical Changes in Curie Temperature Variable Co Ultrathin Films by Electric Field. Zeitschrift Fur Physikalische Chemie, 2016, 230, .	2.8	7
50	Reversible optical switching of antiferromagnetism in TbMnO3. Nature Photonics, 2016, 10, 653-656.	31.4	76
51	Magnetodielectric detection of magnetic quadrupole order in Ba(TiO)Cu4(PO4)4 with Cu4O12 square cupolas. Nature Communications, 2016, 7, 13039.	12.8	37
52	Quadrupole moments in chiral material<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>DyFe</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> by resonant x-ray diffraction. Physical Review B, 2016, 93, .	3.2	7
53	Chemical and orbital fluctuations in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ba</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>9</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2016, 93, .	3.2	20
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55	Microscopic Observation of Degradation of LaNiO₃Ultrathin Films Caused by Air Exposure. E-Journal of Surface Science and Nanotechnology, 2016, 14, 14-16.	0.4	2
56	A²⁺ Cation Control of Chiral Domain Formation in A(TiO)Cu₄(PO₄)₄ (A = Ba, Sr). Inorganic Chemistry, 2016, 55, 1002-1004.	4.0	26
57	Magnetoelectric Glass Nature in Magnetoplumbite-Type BaCo₆Ti₆O₁₉. Journal of the Physical Society of Japan, 2016, 85, 033707.	1.6	5
58	Effect of Highâ€Pressure Oxygen Annealing on Electrical and Magnetoelectric Properties of BaSrCo₂Fe₁₁AlO₂₂ Ceramics. Journal of the American Ceramic Society, 2015, 98, 2104-2111.	3.8	27
59	Magnetoelectric domain control in multiferroic TbMnO ₃. Science, 2015, 348, 1112-1115.	12.6	107
60	Magnetoelectricity in the Structurally Chiral and Polar Antiferromagnet Î²-NaCoPO₄. Journal of the Physical Society of Japan, 2015, 84, 033705.	1.6	2
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63	Si Doping Effect on the Structure of Multiferroic Mn₂Ge_{1â^'}_xSi_xO₄. , 2014, , .		0
64	Observation of quadrupole helix chirality and its domain structure in DyFe3(BO3)4. Nature Materials, 2014, 13, 611-618.	27.5	37
65	Large surface relaxation in the organic semiconductor tetracene. Nature Communications, 2014, 5, 5400.	12.8	43
66	Low-Temperature High-Resolution Solid-State (cryoMAS) NMR of Han Purple BaCuSi2O6. Applied Magnetic Resonance, 2014, 45, 1253-1260.	1.2	7
67	Mutual control of magnetization and electrical polarization by electric and magnetic fields at room temperature in Y-type BaSrCo2â^'xZnxFe11AlO22 ceramics. Applied Physics Letters, 2014, 104, .	3.3	80
68	Multilevel magnetization switching by electric field in c-axis oriented polycrystalline Z-type hexaferrite. Applied Physics Letters, 2013, 103, .	3.3	48
69	First-order ferroelastic transition in a magnetoelectric multiferroic: CuCrO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2013, 88, .	3.2	15
70	Refinement of Crystal Structure of a Magnetoelectric U-Type Hexaferrite Sr₄Co₂Fe₃₆O₆₀. Journal of the Physical Society of Japan, 2013, 82, 025003.	1.6	13
71	Pressure effects on the magnetoelectric properties of a multiferroic triangular-lattice antiferromagnet CuCrO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2013, 87, .	3.2	31
72	Magnetic field induced ferroelectric transition of quasi one-dimensional frustrated quantum spin chain system Rb2Cu2Mo3O12. Journal of Applied Physics, 2013, 113, 17D910.	2.5	15

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74	Interplay between Charge and Magnetic Orderings in YbPd. Journal of the Physical Society of Japan, 2013, 82, 084706.	1.6	9
75	Structural investigation of magnetocapacitive SmMnO₃. Journal of the Ceramic Society of Japan, 2013, 121, 265-267.	1.1	7
76	Multiferroicity on the Zigzag-Chain Antiferromagnet MnWO₄ in High Magnetic Fields. Journal of the Physical Society of Japan, 2012, 81, 054705.	1.6	24
77	External electric field dependence of the structure of the electric double layer at an ionic liquid/Au interface. Applied Physics Letters, 2012, 101, 053122.	3.3	66
78	Soft- and Hard-X-ray Photoemission Spectroscopy of La2-2xSr1+2xMn2O7. Journal of the Physical Society of Japan, 2012, 81, SB069.	1.6	1
79	Dielectric and AC-Calorimetry Measurements of SmMnO₃under High Pressure. Journal of the Physical Society of Japan, 2012, 81, SB036.	1.6	13
80	Second Harmonic Generation Spectroscopy and Domain Imaging of the High-Temperature Multiferroic CuO. Journal of the Physical Society of Japan, 2012, 81, 124714.	1.6	7
81	Lattice distortion accompanied by magnetization reversal in A-type antiferromagnetic manganites. Physical Review B, 2012, 85, .	3.2	7
82	High-Magnetic-Field Effect on Interplay between Sm 4fand Mn 3dMoments in SmMnO₃. Journal of the Physical Society of Japan, 2012, 81, 013703.	1.6	5
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84	Magnetoelectric Hexaferrites. Annual Review of Condensed Matter Physics, 2012, 3, 93-110.	14.5	311
85	Coupling of Magnetic and Ferroelectric Hysteresis by a Multicomponent Magnetic Structure in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Mn</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>GeO</mml:mi><mml:mi></mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2012, 108, 077204.	7.8	42
86	Magnetism and magnetoelectricity of a U-type hexaferrite Sr4Co2Fe36O60. Applied Physics Letters, 2011, 98, .	3.3	90
87	Magnetic and magnetoelectric properties of Ba2-xSrxNi2Fe12O22â€˚single crystals with Y-type hexaferrite structure. Journal of Applied Physics, 2011, 110, .	2.5	50
88	Magnetic-field induced broadband THz absorption change in a multiferroic hexaferrite at room temperature. , 2011, , .		2
89	Magnetic Ordering in Relation to the Room-Temperature Magnetoelectric Effect of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Sr</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>Co</mml:mi><mml:mn></mml:mn></mml:msub></mml:math>. Physical Review Letters, 2011, 107, 227201.	7.8	147
90	Spin-chiral domains in Ba<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub></mml:math>Sr<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1.5</mml:mn></mml:mrow></mml:msub></mml:math>Zn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mml:	3.2	29

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91	Interface structure of the rubrene crystal field effect transistor. Journal of Applied Physics, 2011, 110, .	2.5	2
92	Interfacial Structure of Manganite Superlattice. Journal of the Physical Society of Japan, 2011, 80, 073601.	1.6	6
93	Magnetocapacitive effects in the NA©el<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>N</mml:mi></mml:math>-type ferrimagnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SmMnO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2010, 82, .	3.2	45
94	Low-field magnetoelectric effect at room temperature. Nature Materials, 2010, 9, 797-802.	27.5	481
95	Domain rearrangement and spin-spiral-plane flop as sources of magnetoelectric effects in delafossite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CuCrO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2010, 81, .	3.2	38
96	Multiferroic phase of doped delafossite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CuFeO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> using inelastic neutron scattering. Physical Review B, 2010, 82, .	3.2	48
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98	Lattice Distortion Coupled with Magnetic Ordering in a Triangular Lattice Antiferromagnet CuCrO₂. Journal of the Physical Society of Japan, 2009, 78, 113710.	1.6	50
99	Cupric oxide as an induced-multiferroic with high-TC. Nature Materials, 2008, 7, 291-294.	27.5	453
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101	Magnetoelectric control of spin-chiral ferroelectric domains in a triangular lattice antiferromagnet. Physical Review B, 2008, 78, .	3.2	127
102	Limitations on the extent of off-center displacements in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Tb</mml:mi><mml:mi mathvariant="normal">Mn</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>from EXAFS measurements. Physical Review B, 2007, 76, .	3.2	6
103	Spiral Magnets as Magnetoelectrics. Annual Review of Materials Research, 2007, 37, 387-413.	9.3	409
104	Microscopy of magnetic transition in a layered manganiteLa2â^'2xSr1+2xMn2O7(x=0.32). Physical Review B, 2005, 71, .	3.2	12
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111	Magnetocapacitance effect in multiferroicBiMnO3. Physical Review B, 2003, 67, .	3.2	907
112	Possible presence of a charge-orbital density wave in layered manganitesNd1â^'xCa1+xMnO4. Physical Review B, 2003, 68, .	3.2	18
113	Electric-field switching of orbital order in layered manganites. Applied Physics Letters, 2003, 83, 3329-3331.	3.3	24
114	Optical probe of orbital ordering in heavily hole-doped manganitesNd1â^'xSrxMnO3(x=0.55and 0.7). Physical Review B, 2003, 67, .	3.2	21
115	Surface lattice dynamics of layered transition metal oxides:Sr2RuO4andLa0.5Sr1.5MnO4. Physical Review B, 2003, 67, .	3.2	10
116	Resonant photoemission spectroscopy study of impurity-induced melting in Cr- and Ru-dopedNd1/2A1/2MnO3(A=Ca,Sr). Physical Review B, 2003, 68, .	3.2	20
117	Resonant X-ray Study on the Bi-Layered Perovskite Mn Oxide LaSr2Mn2O7. Journal of the Physical Society of Japan, 2003, 72, 618-626.	1.6	7
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