

Fei Yen

List of Publications by Year in descending order

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55
papers

1,596
citations

430754

18
h-index

289141

40
g-index

55
all docs

55
docs citations

55
times ranked

2334
citing authors

#	ARTICLE	IF	CITATIONS
1	Pressure-driven dome-shaped superconductivity and electronic structural evolution in tungsten ditelluride. Nature Communications, 2015, 6, 7805.	5.8	324
2	Strong spin-lattice coupling in multiferroic HoMnO ₃ : Thermal expansion anomalies and pressure effect. Physical Review B, 2005, 71, .	1.1	111
3	Superconductivity in Pristine H_2O at Ultrahigh Pressure. Physical Review Letters, 2018, 120, 037002.	2.9	100
4	Field-induced phases in HoMnO ₃ at low temperatures. Physical Review B, 2005, 71, .	1.1	98
5	Structural anomalies at the magnetic and ferroelectric transitions in RMn ₂ O ₅ (R=Tb,Dy,Ho). Physical Review B, 2006, 73, .	1.1	89
6	Magnetoelectric effect and spontaneous polarization in HoFe_3O_7 . Physical Review B, 2009, 80, .	1.1	83
7	Magnetic phase diagrams of multiferroic hexagonal RMnO ₃ (R = Er, Yb, Tm, and Ho). Journal of Materials Research, 2007, 22, 2163-2173.	1.2	81
8	Low-temperature dielectric anomalies in HoMnO ₃ : The complex phase diagram. Physical Review B, 2005, 71, .	1.1	68
9	Magnetic field effect and dielectric anomalies at the spin reorientation phase transition of GdFe ₃ (BO ₃) ₄ . Physical Review B, 2006, 73, .	1.1	64
10	Temperature-dependent Raman spectra of HoMn ₂ O ₅ and TbMn ₂ O ₅ . Physical Review B, 2005, 71, .	1.1	60
11	Pressure-temperature phase diagram of multiferroic Ni ₃ V ₂ O ₈ . Physical Review B, 2007, 75, .	1.1	45
12	Thermal expansion and pressure effect in. Physica B: Condensed Matter, 2008, 403, 1428-1430.	1.3	41
13	Backbone N _x H compounds at high pressures. Journal of Chemical Physics, 2015, 142, 214308.	1.2	38
14	Magnetic hysteretic phenomena in multiferroic HoMnO ₃ single crystals and polycrystals with nano- and micrometer particle size. Journal of Physics Condensed Matter, 2008, 20, 325241.	0.7	30
15	A single-sided linear synchronous motor with a high temperature superconducting coil as the excitation system. Superconductor Science and Technology, 2010, 23, 105015.	1.8	28
16	Dielectric Anomaly in Ice near 20 K: Evidence of Macroscopic Quantum Phenomena. Journal of Physical Chemistry Letters, 2015, 6, 2822-2825.	2.1	27
17	Proton ordering dynamics of H ₂ O ice. Physical Chemistry Chemical Physics, 2015, 17, 12458-12461.	1.3	23
18	Magnetic phase diagrams of the Kagomé staircase compound. Physica B: Condensed Matter, 2008, 403, 1487-1489.	1.3	19

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19	Multiple-order Raman scattering from rare-earth manganites: Oxygen isotope and rare-earth substitution effects. <i>Physical Review B</i> , 2007, 75, .	1.1	18
20	Development of Ti-sheathed MgB ₂ wires with high critical current density. <i>Superconductor Science and Technology</i> , 2006, 19, 1146-1151.	1.8	17
21	Magnetoelastic coupling in magnetically frustrated $\text{Co}_3\text{Mg}_2\text{Sb}$. <i>Physical Review B</i> , 2010, 81, .	1.1	17
22	Evidence for strong spin-lattice coupling in multiferroic RMn ₂ O ₅ (R=Tb,Dy,Ho) via thermal expansion anomalies. <i>Journal of Applied Physics</i> , 2006, 99, 08R103.	1.1	15
23	Levitation Force Transition of High-Tc Superconducting Bulks Within a Maglev Vehicle System Under Different Dynamic Operation. <i>IEEE Transactions on Applied Superconductivity</i> , 2011, 21, 1547-1550.	1.1	15
24	Performance of a Small-Scale High Temperature Superconducting Linear Synchronous Motor Prototype. <i>IEEE Transactions on Applied Superconductivity</i> , 2012, 22, 5200104-5200104.	1.1	15
25	Modulation of Abnormal Poisson's Ratios and Electronic Properties in Mixed-Valence Perovskite Manganite Films. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18029-18035.	4.0	13
26	Experimental Study of the Electromagnetic Forces of a HTS Bulk Magnet Subjected to Sinusoidal Traveling Magnetic Field. <i>IEEE Transactions on Applied Superconductivity</i> , 2010, 20, 929-932.	1.1	12
27	Phonons and magnetoelectric interactions in Ni ₃ V ₂ O ₈ . <i>Journal of Physics Condensed Matter</i> , 2008, 20, 434214.	0.7	9
28	Recent Developments of the High Temperature Superconducting Maglev at ASCLab. <i>IEEE Transactions on Applied Superconductivity</i> , 2011, 21, 1551-1555.	1.1	9
29	Dielectric Anomalies in Crystalline Ice: Indirect Evidence of the Existence of a Liquid-Liquid Critical Point in H ₂ O. <i>Journal of Physical Chemistry C</i> , 2015, 119, 20618-20622.	1.5	9
30	Molecular Dynamics of Hexamethylbenzene at Low Temperatures: Evidence of Unconventional Magnetism Based on Rotational Motion of Protons. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13675-13678.	7.2	9
31	Normal Force Analysis on a High Temperature Superconducting Linear Synchronous Motor. <i>IEEE Transactions on Applied Superconductivity</i> , 2012, 22, 5200304-5200304.	1.1	8
32	Negative effects of crystalline-SiC doping on the critical current density in Ti-sheathed MgB ₂ (SiC)superconducting wires. <i>Superconductor Science and Technology</i> , 2007, 20, 697-703.	1.8	7
33	Anisotropy Effect on Levitation Performance of Bulk High-Tc Superconductors Above a Permanent Magnet Guideway. <i>Physics Procedia</i> , 2012, 36, 1043-1048.	1.2	7
34	Induced Currents in Close-Ended Type-II Superconducting Coils. <i>IEEE Transactions on Applied Superconductivity</i> , 2013, 23, 86-89.	1.1	7
35	Magnetic Ordering of Ammonium Cations in NH ₄ I, NH ₄ Br, and NH ₄ Cl. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23655-23660.	1.5	7
36	Effects of MgO impurities and micro-cracks on the critical current density of Ti-sheathed MgB ₂ wires. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 457, 47-54.	0.6	6

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37	Superconducting Excitation System of a Small Scale Linear Synchronous Motor. IEEE Transactions on Applied Superconductivity, 2012, 22, 5201103-5201103.	1.1	6
38	Hydrostatic Pressure Effects on the Critical Current of YBCO Coated Conductor Wire. IEEE Transactions on Applied Superconductivity, 2012, 22, 8401103-8401103.	1.1	6
39	A linear induction motor with a coated conductor superconducting secondary. Physica C: Superconductivity and Its Applications, 2018, 550, 82-84.	0.6	6
40	Isotope Effect on the Magnetic Properties of Hexamethylbenzene: Evidence of Magnetism Based on Correlated Motion of Deuterons. Journal of Physical Chemistry C, 2018, 122, 16304-16308.	1.5	5
41	Magnetoelectric Coupling Based on Protons in Ammonium Sulfate. Journal of Physical Chemistry C, 2020, 124, 17255-17261.	1.5	5
42	Growth anisotropy effect of bulk high temperature superconductors on the levitation performance in the applied magnetic field. Physica C: Superconductivity and Its Applications, 2013, 493, 52-54.	0.6	4
43	Magnetically Driven Structural Phase Transition in Hexamethylbenzene. Journal of Physical Chemistry C, 2018, 122, 29628-29632.	1.5	4
44	Magnetic Properties of $\text{NH}_4\text{H}_2\text{PO}_4$ and KH_2PO_4 : Emergence of Multiferroic Salts. Journal of Physical Chemistry Letters, 2020, 11, 8297-8301.	2.1	4
45	Magnetic ordering in CeMnCuSi_2 . Journal of Magnetism and Magnetic Materials, 2007, 314, 52-59.	1.0	3
46	Electromagnetic Forces of High-T _c Superconducting Coated Conductor Coils Subjected to Sinusoidal Traveling Magnetic Fields. Journal of Low Temperature Physics, 2014, 174, 87-95.	0.6	3
47	Magnetic properties of $\text{NH}_4\text{Al}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$: Evidence of glass behavior based on proton orbitals. Scripta Materialia, 2021, 205, 114184.	2.6	3
48	Magnetic phase diagram of $\text{Ce}(\text{Mn}_{1-x}\text{Cu}_x)_2\text{Si}_2$. Journal of Applied Physics, 2008, 103, 07B719.	1.1	2
49	Influence of Re-magnetized HTS Bulk Samples on the Levitation Performances of a Maglev System. Journal of Superconductivity and Novel Magnetism, 2010, 23, 999-1002.	0.8	2
50	Hydrostatic Pressure Effect on the Critical Current Density of First-Generation Bi-2223 Superconducting Wire. IEEE Transactions on Applied Superconductivity, 2011, 21, 3488-3490.	1.1	1
51	Magnetization Method Design of Bulk Multi-Seeded High Temperature Superconductors. Materials Science Forum, 0, 745-746, 185-190.	0.3	1
52	Molecular Dynamics of Hexamethylbenzene at Low Temperatures: Evidence of Unconventional Magnetism Based on Rotational Motion of Protons. Angewandte Chemie, 2017, 129, 13863-13866.	1.6	1
53	Magnetic properties of hexamethylbenzene. Low Temperature Physics, 2019, 45, 297-300.	0.2	1
54	Ferroelectricity driven by orbital resonance of protons in $\text{CH}_3\text{NH}_3\text{Cl}$ and $\text{CH}_3\text{NH}_3\text{Br}$. Journal of Materials Chemistry C, 2022, 10, 1334-1338.	2.7	1

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55	A Measurement Testing Setup of the Characteristic Properties for High Temperature Superconducting bearing Systems. Physics Procedia, 2012, 36, 1020-1024.	1.2	0