

Frank Bridges

List of Publications by Year in descending order

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80
papers

2,234
citations

361296

20
h-index

223716

46
g-index

80
all docs

80
docs citations

80
times ranked

3176
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Relationship between Magnetism and MnO ₆ Distortions in La ^x CaxMnO ₃ . Physical Review Letters, 1998, 80, 853-856.	2.9	237
2	X-ray-absorption fine-structure standards: A comparison of experiment and theory. Physical Review B, 1995, 52, 6332-6348.	1.1	208
3	Mechanisms for light induced degradation in MAPbI ₃ perovskite thin films and solar cells. Applied Physics Letters, 2016, 109, .	1.5	198
4	Synthesis, Structural, and Optical Properties of Stable ZnS:Cu,Cl Nanocrystals. Journal of Physical Chemistry A, 2009, 113, 3830-3839.	1.1	159
5	Improved Self Absorption Correction for Fluorescence Measurements of Extended X Ray Absorption Fine Structure. Physica Scripta, 2005, , 202.	1.2	127
6	A Variation of the F-Test for Determining Statistical Relevance of Particular Parameters in EXAFS Fits. AIP Conference Proceedings, 2007, , .	0.3	103
7	Carbon aerogels with atomic dispersion of binary iron-cobalt sites as effective oxygen catalysts for flexible zinc-air batteries. Journal of Materials Chemistry A, 2020, 8, 11649-11655.	5.2	94
8	Mn K-edge XANES studies of La ^x AxMnO ₃ systems (A=Ca, Ba, Pb). Physical Review B, 2001, 63, .	1.1	93
9	Local Vibrations and Negative Thermal Expansion in ZrW_2O_8 . Physical Review Letters, 2014, 112, 045505.	1.1	92
10	Local lattice disorder in the geometrically frustrated spin-glass pyrochlore Y ₂ Mo ₂ O ₇ . Physical Review B, 2000, 62, R755-R758.	1.1	91
11	Evidence for rattling behavior of the filler atom (L) in the filled skutterudites LT ₄ X ₁₂ (L=Ce, Eu, Yb; T=Fe, Ru; X=P, Sb) from EXAFS studies. Physical Review B, 2004, 70, .	1.1	77
12	Correlated atomic motions in the negative thermal expansion material ZrW ₂ O ₈ : A local structure study. Physical Review B, 2003, 68, .	1.1	61
13	Off-center phonon scattering sites in Eu ₈ Ca ₁₆ Ge ₃₀ and Sr ₈ Ca ₁₆ Ge ₃₀ . Physical Review B, 2005, 71, .	1.1	59
14	Study of the local distortions of the perovskite system $La_{1-x}Ca_xMnO_3$. Physical Review B, 2009, 80, .	1.1	45
15	Local structure in $BaTi_3BiS_3$ glasses. Physical Review B, 2016, 93, .	1.1	31
16	X-ray-absorption spectroscopy study of the heavy-fermion superconductor PrOs ₄ Sb ₁₂ . Physical Review B, 2003, 67, .	1.1	29
17	Degradation and rejuvenation studies of AC electroluminescent ZnS:Cu,Cl phosphors. Journal of Physics Condensed Matter, 2010, 22, 055301.	0.7	27
18	Relationship between macroscopic physical properties and local distortions of low-doping $La_{1-x}Ca_xMnO_3$. An EXAFS study. Physical Review B, 2007, 76, .	1.1	25

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19	Synthesis and Characterization of Organically Soluble Cu-Doped ZnS Nanocrystals with Br Co-activator. Journal of Physical Chemistry C, 2011, 115, 14559-14570.	1.5	25
20	Detailed relationship between local structure, polarons, and magnetization for $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$. Physical Review B, 2010, 81, .	1.1	24
21	Doping Bottleneck in Hematite: Multipole Clustering by Small Polarons. Chemistry of Materials, 2021, 33, 4390-4398.	3.2	22
22	Rapid preparation of carbon-supported ruthenium nanoparticles by magnetic induction heating for efficient hydrogen evolution reaction in both acidic and alkaline media. SusMat, 2022, 2, 335-346.	7.8	21
23	Local Distortion Induced Metal-to-Insulator Phase Transition in $\text{PrRu}_4\text{P}_{12}$. Physical Review Letters, 2005, 94, 036403.	2.9	20
24	Ca K-edge X-ray absorption fine structure in BaTiO_3 - CaTiO_3 solid solutions. Journal of Applied Physics, 2013, 113, 044106.	1.1	20
25	Direct verification of Ga-Ga bond avoidance in the type-I clathrate $\text{Ba}_8\text{Ga}_{16}\text{Sn}_{30}$ from its x-ray absorption fine structure. Physical Review B, 2009, 80, .	1.1	19
26	Platinum-complexed phosphorous-doped carbon nitride for electrocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2022, 10, 5962-5970.	5.2	18
27	A paraelectric system with two electric dipole moments: Kl: OH^+ . Physical Review B, 1978, 18, 4606-4625.	1.1	17
28	EXAFS study of $\text{Ba}_2\text{Yb}_2\text{O}_7$ and $\text{Ba}_2\text{Yb}_2\text{O}_7$ -type $\text{Ba}_2\text{Yb}_2\text{O}_7$. Physical Review B, 2017, 95, 040401.	1.1	17
29	The Complexity of the CaF_2 :Yb System: A Huge, Reversible, X-ray-Induced Valence Reduction. Journal of Physical Chemistry C, 2017, 121, 28435-28442.	1.5	17
30	Evidence That the Anomalous Emission from CaF_2 :Yb ²⁺ Is Not Described by the Impurity Trapped Exciton Model. Journal of Physical Chemistry Letters, 2017, 8, 3313-3316.	2.1	17
31	Resolution of the discrepancy between the variation of the physical properties of $\text{Ce}_{1-x}\text{Yb}_x\text{Co}_{5-x}\text{Yb}_x$ single crystals and thin films with Yb composition. Philosophical Magazine, 2014, 94, 4219-4231.	0.7	14
32	EXAFS evidence for a primary ZnLidopant in LiNbO_3 . Physical Review B, 2012, 85, .	1.1	13
33	Hysteresis of niobium stannide: 200 gauss or over 1000 gauss?. IEEE Transactions on Magnetics, 1977, 13, 811-814.	1.2	12
34	Unusual local disorder in $\text{NdO}_4\text{Sb}_{12}$ and $\text{PrO}_4\text{Sb}_{12}$ skutterudites. Physical Review B, 2012, 86, .	1.1	12
35	The local structure of skutterudites: A view from inside the unit cell. Modern Physics Letters B, 2016, 30, 1630001.	1.0	12
36	Platinum Oxide Nanoparticles for Electrochemical Hydrogen Evolution: Influence of Platinum Valence State. Chemistry - A European Journal, 2019, 26, 4136.	1.7	12

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37	Complex role for thallium in PbTe:TI from local probe studies. Physical Review B, 2013, 87, .	1.1	11
38	The unusual off-center to on-center transition of Ag ⁺ IN RbCl. Radiation Effects, 1983, 73, 31-35.	0.4	10
39	High-pressure multimode resonator system for high microwave frequencies up to 215 GHz. Review of Scientific Instruments, 1984, 55, 75-78.	0.6	9
40	Changes in the local structure of aLa _{0.70} Ca _{0.30} MnO ₃ CMR sample induced by a magnetic field. Physical Review B, 2000, 62, 8954-8958.	1.1	9
41	Comparison of local distortions in Ba ₈ Ga ₁₆ X ₃₀ (X = Si, Ge, Sn): an EXAFS study. Journal of Materials Chemistry C, 2015, 3, 10574-10582.	2.7	9
42	Complex vibrations in arsenide skutterudites and oxyskutterudites. Physical Review B, 2015, 91, .	1.1	8
43	Modeling correlated motion in filled skutterudites. Physical Review B, 2015, 92, .	1.1	8
44	Induced quadrupolar singlet ground state of praseodymium in a modulated pyrochlore. Physical Review B, 2017, 96, .	1.1	8
45	Extended X-Ray Absorption Fine Structure of ZrW ₂ O ₈ : Theory vs. Experiment. Frontiers in Chemistry, 2018, 6, 356.	1.8	8
46	Unusual distortions about Tl and Pb in PbTe:TI. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 236-241.	0.8	7
47	Structure in multilayer films of zinc sulfide and copper sulfide via atomic layer deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2014, 32, .	0.9	7
48	A comparison of the local structure in ball-milled and hand ground skutterudite samples using EXAFS. Intermetallics, 2015, 63, 80-85.	1.8	7
49	Structural Insights on Microwave-Synthesized Antimony-Doped Germanium Nanocrystals. ACS Nano, 2021, 15, 1685-1700.	7.3	7
50	Extreme Sensitivity of T _c to Cool-Down Rate and Substrate Temperature for Epitaxial Fe-DOPED Ybco Films. Materials Research Society Symposia Proceedings, 1992, 275, 143.	0.1	6
51	Limitations on the extent of off-center displacements in $TbMnO_3$ from EXAFS measurements. Physical Review B, 2007, 76, .	1.1	6
52	Structural Characterization of Oleylamine- and Dodecanethiol-Capped Ge _{1-x} Sn _x Alloy Nanocrystals. Journal of Physical Chemistry C, 2021, 125, 6401-6417.	1.5	6
53	Characterizing Bismuth Doping of Colloidal Germanium Quantum Dots for Energy Conversion Applications. ACS Applied Nano Materials, 2020, 3, 5410-5420.	2.4	5
54	Fe Substituted, Laser Ablated YBa ₂ Cu ₃ O ₇ films using Off-Stoichiometric Targets. Materials Research Society Symposia Proceedings, 1990, 191, 159.	0.1	4

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55	Evidence for a Universal Relationship Between Magnetization and Changes in the Local Structure. International Journal of Modern Physics B, 2003, 17, 3726-3728.	1.0	4
56	No difference in local structure about a Zn dopant for congruent and stoichiometric LiNbO_3 . Physical Review B, 2016, 94, .		
57	Local Structure Studies of As-Made $\text{Cu}_2\text{ZnSnS}_4$ Nanoparticles. Physical Review Applied, 2017, 7, .	1.5	4
58	Probing Phonon Scattering Sites in the Thermoelectric Clathrate $\text{Eu}_8\text{Ga}_{16}\text{Ge}_{30}$. Radiation Effects and Defects in Solids, 2003, 158, 343-347.	0.4	3
59	Substitution of Er, In, and Hf in LiNbO_3 : Evidence for multiple defect distributions about dopant sites. Physical Review Materials, 2018, 2, .		
60	EXAFS investigation of the local structure in $\text{URu}_2\text{xFe}_x\text{Si}_2$: Evidence for distortions below 100 K. Physical Review B, 2020, 102, .	1.1	2
61	X-RAY ABSORPTION EDGES OF TRANSITION-METAL-DOPED $\text{YBa}_2\text{Cu}_3\text{MxO}_7$. International Journal of Modern Physics B, 1988, 02, 1153-1156.	1.0	1
62	Off-center Li defects in KCl: Parameters for isolated Li+ as a function of hydrostatic pressure and evidence for other Li centers. Radiation Effects and Defects in Solids, 1991, 119-121, 521-526.	0.4	1
63	The Importance of Local Disorder in Doped Correlated-Electron Systems; Are "Smoking Guns" Really "Smoking"? International Journal of Modern Physics B, 1998, 12, 2889-2893.	1.0	1
64	CORRELATIONS BETWEEN LOCAL STRUCTURE AND MAGNETISM, PLUS TEMPERATURE DEPENDENT CHANGES IN THE 3D BANDS IN THE COLOSSAL MAGNETORESISTIVE MATERIALS. International Journal of Modern Physics B, 1999, 13, 3783-3785.	1.0	1
65	The important role of local distortions and their connection with magnetism and transport in the colossal magnetoresistance systems, $\text{La}_{1-x}\text{A}_x\text{MnO}_3$. Radiation Effects and Defects in Solids, 1999, 149, 221-231.	0.4	1
66	Title is missing!. Journal of Superconductivity and Novel Magnetism, 1999, 12, 295-298.	0.5	1
67	Correlated Local Atomic Displacements: The Microscopic Origins for Macroscopic Phenomena.. Materials Research Society Symposia Proceedings, 2001, 678, 711.	0.1	1
68	Local distortions about Nd in $\text{NdOs}_4\text{Sb}_{12}$. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 250-253.	0.8	1
69	Unusual evolution of the magnetism on oxygen in $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 254-258.	0.8	1
70	Tuning the magnetic ground state of CeMnO_3 by Yb valence fluctuations. Physical Review B, 2018, 98, .		
71	Oxygen reduction reaction catalyzed by carbon composites with ruthenium-doped iron oxide nanoparticles. Materials Advances, 2022, 3, 4556-4565.	2.6	1
72	X-Ray Absorption Study of $\text{YBa}_2\text{Cu}_3\text{O}_7$ and $\text{GdBa}_2\text{Cu}_3\text{O}_7$ Superconductors. Materials Research Society Symposia Proceedings, 1987, 99, 943.	0.1	0

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73	Occupation of Distorted Cu(1) Sites by Co and Fe in Y1Ba2Cu3O7. Materials Research Society Symposia Proceedings, 1988, 143, 163.	0.1	0
74	Growth and Properties of Epitaxial YBa2Cu3O7 thin Films on {1102}Al2O3. Materials Research Society Symposia Proceedings, 1989, 169, 473.	0.1	0
75	Evidence of Distortion in the Oxygen Environment around Praseodymium in Y1-xPrxBa2Cu3O7 from Praseodymium K-Edge XAFS. Materials Research Society Symposia Proceedings, 1993, 307, 117.	0.1	0
76	Large local distortions introduced by defects in YBa2Cu3O7 superconductors: An X-ray-absorption study. Radiation Effects and Defects in Solids, 1995, 137, 351-354.	0.4	0
77	Controlling the dopant incorporation in a-axis oriented Co doped YBCO thin films. IEEE Transactions on Applied Superconductivity, 1997, 7, 2146-2149.	1.1	0
78	Spin-lattice correlations and temperature dependent Mn K-edge structure in the La _{1-x} Ca _x MnO ₃ systems. AIP Conference Proceedings, 2001, , .	0.3	0
79	Changes of the local distortions and colossal magnetoresistive properties of La _{0.7} Ca _{0.3} MnO ₃ induced by Ti or Ga deffects. Radiation Effects and Defects in Solids, 2001, 155, 37-41.	0.4	0
80	Evidence for magnetic dimerons in the anisotropic bilayer system La1.2Sr1.8Mn2O7: An EXAFS study. Physical Review B, 2007, 75, .	1.1	0