

Thomas A Lograsso

List of Publications by Year in descending order

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104
papers

4,259
citations

147566

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105
docs citations

105
times ranked

3425
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum size effects in Ag thin films grown on the fivefold surface of the icosahedral Al-Cu-Fe quasicrystal: Influence of the growth temperature. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, 013212.	0.9	0
2	Mechanical detwinning device for anisotropic resistivity measurements in samples requiring dismounting for particle irradiation. Review of Scientific Instruments, 2020, 91, 073904.	0.6	2
3	Effect of controlled pointlike disorder induced by 2.5-MeV electron irradiation on the nematic resistivity anisotropy of hole-doped (Ba,K)Fe2As2. Physical Review B, 2020, 102, .	1.1	0
4	Quasiperiodic ordering in thick Sn layer on i-Al-Pd-Mn : A possible quasicrystalline clathrate. Physical Review Research, 2020, 2, .	1.3	16
5	Bulk single crystal growth and sample surface preparation of catalytic NaAu2. Journal of Alloys and Compounds, 2019, 789, 362-366.	2.8	3
6	Dielectric resonator method for determining gap symmetry of superconductors through anisotropic nonlinear Meissner effect. Review of Scientific Instruments, 2019, 90, 043901.	0.6	8
7	Competition between orthorhombic and re-entrant tetragonal phases in underdoped $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$. Physical Review B, 2018, 97, .	1.1	9
8	Doping evolution of the second magnetization peak and magnetic relaxation in $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$. Physical Review B, 2018, 97, .	1.1	9
9	Magnetostrictive performance of additively manufactured CoFe rods using the LENSTM system. AIP Advances, 2018, 8, 056403.	0.6	3
10	Spatially-resolved study of the Meissner effect in superconductors using NV-centers-in-diamond optical magnetometry. New Journal of Physics, 2018, 20, 043010.	1.2	26
11	Dependence of the absolute value of the penetration depth in $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$. Physical Review B, 2018, 98, .	1.1	8
12	Chemical Disorder in Topological Insulators: A Route to Magnetism Tolerant Topological Surface States. Nano Letters, 2017, 17, 4047-4054.	4.5	7
13	Doping evolution of the anisotropic upper critical fields in the iron-based superconductor $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$. Physical Review B, 2017, 96, .	1.1	8
14	Polarized Light Microscopy Study on the Reentrant Phase Transition in a $(\text{Ba}_{1-x}\text{K}_x)\text{Fe}_2\text{As}_2$ Single Crystal with $x = 0.24$. Crystals, 2016, 6, 142.	1.0	3
15	Formation mechanism of superconducting phase and its three-dimensional architecture in pseudo-single-crystal $\text{K}_x\text{Fe}_2\text{As}_2\text{ySe}_2$. Physical Review B, 2016, 93, .	1.1	16
16	Itinerant and Localized Magnetization Dynamics in Antiferromagnetic Ho. Physical Review Letters, 2016, 116, 257202.	2.9	27
17	Energy gap evolution across the superconductivity dome in single crystals of $(\text{Ba}_{1-x}\text{K}_x)\text{Fe}_2\text{As}_2$. Physical Review B, 2016, 94, .	1.0	3
18	Laser angle-resolved photoemission as a probe of initial state k_z dispersion, final-state band gaps, and spin texture of Dirac states in the Bi_2Te_3 topological insulator. Physical Review B, 2016, 94, .	1.1	3

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19	Specific heat investigation for line nodes in heavily overdoped Ba _{1-x} K _x Fe ₂ As ₂ . Physical Review B, 2015, 91, .	1.1	5
20	Imprinting bulk amorphous alloy at room temperature. Scientific Reports, 2015, 5, 16540.	1.6	8
21	Femto second pulsed laser deposition of nanoparticulate thin film of Gd ₅ (Si _x Ge _{1-x}) ₄ , 2015, .		0
22	Magnetic and structural transitions in La _{1-x} Ca _x FeAsO. Physical Review B, 2015, 91, .	2.9	30
23	Spin Excitations in LaFeAsO and Ba _{1-x} Fe _x AsO. Physical Review Letters, 2015, 114, 057001.	0.953	7
24	Gd ₅ (Si,Ge) ₄ thin film displaying large magnetocaloric and strain effects due to magnetostructural transition. Applied Physics Letters, 2015, 106, .	1.5	27
25	Comprehensive scenario for single crystal growth and doping dependence of resistivity and anisotropic upper critical fields in (Ba _{1-x} Fe _x) ₂ As ₂ . Physical Review B, 2014, 89, .	1.1	52
26	Crossover in the magnetic response of single-crystalline Ba _{1-x} Fe _x AsO. Physical Review B, 2014, 89, .	1.1	27
27	Upper critical field of K _{1-x} Fe _x As ₂ . Physical Review B, 2014, 89, .	1.1	13
28	Evolution of London penetration depth with scattering in single crystals of K _{1-x} Fe _x As ₂ . Physical Review B, 2014, 89, .	1.1	20
29	Native defects in tetradymite Bi ₂ Te ₃ . Physical Review B, 2014, 89, .	1.1	25
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37	X-ray diffuse scattering measurements of chemical short-range order and lattice strains in a highly magnetostrictive $\text{Fe}_{0.813}\text{Ga}_{0.187}$ alloy in an applied magnetic field. <i>Physical Review B</i> , 2012, 85, .	1.1	13
38	Reversible tuning of the surface state in a pseudobinary $\text{Bi}_2(\text{Te-Se})_3$ topological insulator. <i>Physical Review B</i> , 2012, 86, .	1.1	12
39	Hydrostatic and uniaxial pressure dependence of superconducting transition temperature of KFe_2As single crystals. <i>Physical Review B</i> , 2012, 86, .	1.1	24
40	Tetragonal magnetostriction and magnetoelastic coupling in Fe-Al, Fe-Ga, Fe-Ge, Fe-Si, Fe-Ga-Al, and Fe-Ga-Ge alloys. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	100
41	Magnetic field dependence of the maximum magnetic entropy change. <i>Physical Review B</i> , 2011, 83, .	1.1	81
42	Anisotropic magnetoelastic coupling in single-crystalline CeFeAsO as seen via high-resolution x-ray diffraction. <i>Physical Review B</i> , 2011, 84, .	1.1	7
43	Contamination from magnetic starting materials in flux-grown single crystals of FeAsO superconductors. <i>Physical Review B</i> , 2011, 84, .	1.1	4
44	Flux requirements for the growth of RFeAsO (R=rare earth) superconductors. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	12
45	Experimental exploration of the origin of magnetostriction in single crystalline iron. <i>Applied Physics Letters</i> , 2010, 97, 072508.	1.5	11
46	Surface-driven electronic structure in LaFeAsO studied by angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2010, 82, .	1.1	37
47	Magnetoelasticity of FeSi single crystals. <i>Journal of Applied Physics</i> , 2010, 107, 09A911.	1.1	10
48	Experimental Study on Viscosity and Phase Segregation of AlSi Powders in Microsemisolid Powder Forming. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2010, 132, .	1.3	22
49	Relation between Ga ordering and magnetostriction of Fe-Ga alloys studied by x-ray diffuse scattering. <i>Physical Review B</i> , 2010, 81, .	1.1	39
50	Electronic structure and lattice dynamics of the magnetic shape-memory alloy Co_2MnSi . <i>Physical Review B</i> , 2010, 82, .	1.1	36
51	Hydrostatic and uniaxial pressure dependence of superconducting transition temperature of FeAsO single crystals. <i>Physical Review B</i> , 2012, 86, .	1.1	24

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55	Electrical resistivity and magnetoresistance of single-crystal $Tb_{0.5}Ga_{19.5}$. Physical Review B, 2009, 80, .	1.1	12
56	In situ high energy x-ray synchrotron diffraction study of the synthesis and stoichiometry of LaFeAsO and LaFeAsO $_{1-x}F_x$. Journal of Applied Physics, 2009, 105, 123912.	1.1	10
57	Determination of Structural Anisotropy of Stress-Annealed Fe $_{80.5}$ Ga $_{19.5}$. IEEE Transactions on Magnetics, 2009, 45, 4142-4144.	1.2	1
58	Magnetostructural transition in $Gd_{0.5}Ga_{19.5}$. Physical Review B, 2009, 80, .	1.1	12
59	Magnetostriction of iron-germanium single crystals. Journal of Applied Physics, 2008, 103, .	1.1	23
60	Magnetic domains in magnetostrictive Fe-Ga alloys. Applied Physics Letters, 2008, 93, .	1.5	36
61	Spin-wave dispersion in magnetostrictive Fe-Ga alloys: Inelastic neutron scattering measurements. Physical Review B, 2007, 75, .	1.1	25
62	Magnetostriction of ternary Fe-Ga-X (X=C,V,Cr,Mn,Co,Rh) alloys. Journal of Applied Physics, 2007, 101, 09C507.	1.1	70
63	Nucleation and growth of Ag islands on fivefold Al-Pd-Mn quasicrystal surfaces: Dependence of island density on temperature and flux. Physical Review B, 2007, 75, .	1.1	29
64	Terrace-dependent nucleation of small Ag clusters on a five-fold icosahedral quasicrystal surface. Philosophical Magazine, 2007, 87, 2995-3001.	0.7	6
65	Magnetostriction of binary and ternary Fe-Ga alloys. Journal of Materials Science, 2007, 42, 9582-9594.	1.7	140
66	Terrace-dependent morphology of thin Sn films deposited on the fivefold surface of the icosahedral Al-Cu-Fe quasicrystal. Philosophical Magazine, 2006, 86, 807-812.	0.7	11
67	Voids and pits on sputter-annealed fivefold terraces of icosahedral Al-Pd-Mn quasicrystals. Philosophical Magazine, 2006, 86, 819-824.	0.7	7
68	Large magnetically induced strains in Ni $_{50}$ Mn $_{28.7}$ Ga $_{21.3}$ driven with collinear field and stress. Journal of Applied Physics, 2006, 99, 063903.	1.1	15
69	Phase selection during directional solidification of peritectic alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2005, 36, 1287-1300.	1.1	27
70	The Pr-rich portion of the Ni-Pr system. Journal of Phase Equilibria and Diffusion, 2005, 26, 209-214.	0.5	7
71	Magnetic anisotropy and phase transitions in single-crystal Tb $_5$ (Si $_2$.2Ge $_1$.8). Journal of Applied Physics, 2005, 97, 10M313.	1.1	4

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73	Solid and liquid thermal expansion and structural observations in the quasicrystalline Cd ₈₄ Yb ₁₆ compound. Philosophical Magazine Letters, 2005, 85, 151-162.	0.5	4
74	Real-space observation of quasicrystalline Sn monolayer formed on the fivefold surface of icosahedral Al ₇₅ Cu ₂₅ Fe quasicrystal. Physical Review B, 2005, 72, .	1.1	37
75	Neutron diffraction studies of the magnetoelastic compounds Tb ₅ Si _x Ge _{4-x} (x=2.2 and 2.5). Physical Review B, 2005, 72, .	1.1	21
76	RHEED and STM studies of the pseudo-tenfold surface of the $\frac{1}{4}\text{Al}_{77.5}\text{Pd}_{19}\text{Mn}_{3.5}$ approximant crystal. Physical Review B, 2005, 71, .	1.1	21
77	Magnetic force microscopy investigation of domain structures in Fe _x at.% Ga single crystals (12 < x < 25). Journal of Applied Physics, 2005, 98, 023904.	1.1	24
78	Compositional variation of the phonon dispersion curves of bcc Fe-Ga alloys. Physical Review B, 2005, 72, .	1.1	18
79	Thermal expansion and Gruneisen parameters in some Pr ²⁺ Ni ²⁺ Si compounds. Journal of Applied Physics, 2005, 97, 10M516.	1.1	7
80	Magnetic field dependence of galphenol elastic properties. Journal of Applied Physics, 2005, 97, 10M315.	1.1	93
81	Fe _{1-x} Ga _x Pb(Mg _{1-x} Nb _{2-x})O ₃ PbTiO ₃ magnetoelectric laminate composites. Applied Physics Letters, 2005, 87, 222504.	1.5	72
82	Temperature dependence of the magnetic anisotropy and magnetostriction of Fe _{100-x} Ga _x (x=8.6, 16.6). Tj ETQq 0.0 0 rgBT / Overlock	1.1	51
83	Hydrostatic pressure control of the magnetostructural phase transition in Gd ₅ Si ₂ Ge ₂ single crystals. Physical Review B, 2005, 72, .	1.1	63
84	Magnetostrictive and magnetoelectric behavior of Fe ₂₀ at.% Ga _x Pb(Zr,Ti)O ₃ laminates. Journal of Applied Physics, 2005, 97, 103902.	1.1	74
85	Magnetic properties of single-crystal DyAl ₂ . Physical Review B, 2005, 72, .	1.1	43
86	Reversible spin-flop and irreversible metamagnetic-like transitions induced by a magnetic field in the layered Gd ₅ Ge ₄ antiferromagnet. Physical Review B, 2004, 69, .	1.1	47
87	Phase relationships and structural, magnetic, and thermodynamic properties of alloys in the pseudobinary Er ₅ Si _{4-x} Er ₅ Ge ₄ system. Physical Review B, 2004, 70, .	1.1	48
88	Giant magnetostriction behavior at the Curie temperature of single crystal Gd ₅ (Si _{0.5} Ge _{0.5}) ₄ . Journal of Applied Physics, 2004, 95, 6945-6947.	1.1	26
89	Extraordinary magnetoelasticity and lattice softening in bcc Fe-Ga alloys. Journal of Applied Physics, 2003, 93, 8621-8623.	1.1	505
90	Magnetic field induced phase transitions in Gd ₅ (Si _{1.95} Ge _{2.05}) single crystal and the anisotropic magnetocaloric effect. Journal of Applied Physics, 2003, 93, 8298-8300.	1.1	32

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91	Texture and grain morphology dependencies of saturation magnetostriction in rolled polycrystalline Fe ₈₃ Ga ₁₇ . Journal of Applied Physics, 2003, 93, 8495-8497.	1.1	31
92	Phase Stability of Single Crystalline Co-Ni-Ga Shape Memory Alloy. Materials Research Society Symposia Proceedings, 2003, 785, 781.	0.1	4
93	Structural studies of Fe _{0.81} Ga _{0.19} by reciprocal space mapping. Applied Physics Letters, 2002, 81, 3185-3187.	1.5	13
94	Magnetostrictive Properties of Galfenol Alloys Under Compressive Stress. Materials Transactions, 2002, 43, 881-886.	0.4	199
95	Magnetostriction of ternary Fe-X alloys (X=Ni,Mo,Sn,Al). Journal of Applied Physics, 2002, 91, 8225.	1.1	51
96	The Influence of Growth Rate on Porosity in Al-Pd-Mn Icosahedral Quasicrystals.. Materials Research Society Symposia Proceedings, 2000, 643, 151.	0.1	0
97	Low-Energy Ion Scattering Measurements from an Al-Pd-Mn Quasicrystal. Materials Research Society Symposia Proceedings, 2000, 643, 1111.	0.1	5
98	6% magnetic-field-induced strain by twin-boundary motion in ferromagnetic Ni-Mn-Ga. Applied Physics Letters, 2000, 77, 886-888.	1.5	1,057
99	Surface oxidation of a quasicrystalline Al-Cu-Fe alloy:No effect of surface orientation and grain boundaries onthe final state. Journal of Materials Research, 1999, 14, 3185-3188.	1.2	24
100	On the growth of icosahedral Al-Pd-Mn quasicrystals from the ternary melt. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 1673-1684.	0.6	43
101	Processing Of Al-Cu-Fe Quasicrystalline Single Grains. Materials Research Society Symposia Proceedings, 1998, 553, 3.	0.1	1
102	The occurrence and periodicity of oscillating peritectic microstructures developed during directional solidification. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1997, 28, 1543-1552.	1.1	9
103	Preparation of large single grains of the quasicrystalline icosahedral Al-Cu-Fe phase. Journal of Materials Research, 1996, 11, 2125-2127.	1.2	40
104	On the growth of icosahedral Al-Pd-Mn quasicrystals from the ternary melt. , 0, .		2