

Thomas A Lograsso

List of Publications by Year in descending order

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104
papers

4,259
citations

147801

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105
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docs citations

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3425
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| # | 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. | 2.1 | 0 |
| 2 | Mechanical detwinning device for anisotropic resistivity measurements in samples requiring dismounting for particle irradiation. Review of Scientific Instruments, 2020, 91, 073904. | 1.3 | 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, . | 3.2 | 0 |
| 4 | Quasiperiodic ordering in thick Sn layer on i-Al-Pd-Mn: A possible quasicrystalline clathrate. Physical Review Research, 2020, 2, . | 3.6 | 16 |
| 5 | Bulk single crystal growth and sample surface preparation of catalytic NaAu2. Journal of Alloys and Compounds, 2019, 789, 362-366. | 5.5 | 3 |
| 6 | Dielectric resonator method for determining gap symmetry of superconductors through anisotropic nonlinear Meissner effect. Review of Scientific Instruments, 2019, 90, 043901. | 1.3 | 8 |
| 7 | Competition between orthorhombic and re-entrant tetragonal phases in underdoped $Ba_{1-x}K_xFe_2As_2$. Physical Review B, 2018, 97, . | 3.2 | 6 |
| 8 | Doping evolution of the second magnetization peak and magnetic relaxation in $Tj ETQq_1$. Physical Review B, 2018, 97, . | 3.2 | 9 |
| 9 | Magnetostrictive performance of additively manufactured CoFe rods using the LENSTM system. AIP Advances, 2018, 8, 056403. | 1.3 | 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. | 2.9 | 26 |
| 11 | Dependence of the absolute value of the penetration depth in $Ba_{1-x}K_xFe_2As_2$. Physical Review B, 2018, 98, . | 3.2 | 8 |
| 12 | Chemical Disorder in Topological Insulators: A Route to Magnetism Tolerant Topological Surface States. Nano Letters, 2017, 17, 4047-4054. | 9.1 | 7 |
| 13 | Doping evolution of the anisotropic upper critical fields in the iron-based superconductor $Ba_{1-x}K_xFe_2As_2$. Physical Review B, 2017, 96, . | 3.2 | 6 |
| 14 | Polarized Light Microscopy Study on the Reentrant Phase Transition in a (Ba _{1-x} K _x)Fe ₂ As ₂ Single Crystal with x = 0.24. Crystals, 2016, 6, 142. | 2.2 | 3 |
| 15 | Formation mechanism of superconducting phase and its three-dimensional architecture in pseudo-single-crystal K _x Fe ₂ As ₂ ySe ₂ . Physical Review B, 2016, 93, . | 3.2 | 16 |
| 16 | Itinerant and Localized Magnetization Dynamics in Antiferromagnetic Ho. Physical Review Letters, 2016, 116, 257202. | 7.8 | 27 |
| 17 | Energy gap evolution across the superconductivity dome in single crystals of (Ba _{1-x} K _x)Fe ₂ As ₂ . Physical Review B, 2016, 94, . | 10.3 | 94 |
| 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 ₂ Te ₃ topological insulator. Physical Review B, 2016, 94, . | 3.2 | 3 |

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|----|--|-------|-----------|
| 19 | Specific heat investigation for line nodes in heavily overdoped $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$. Physical Review B, 2015, 91, . | 3.2 | 5 |
| 20 | Imprinting bulk amorphous alloy at room temperature. Scientific Reports, 2015, 5, 16540. | 3.3 | 8 |
| 21 | Femto second pulsed laser deposition of nanoparticulate thin film of $\text{Gd}_5(\text{Si}_x\text{Ge}_{1-x})_4$. , 2015, , . | | 0 |
| 22 | Magnetic and structural transitions in $\text{La}_{1-x}\text{Pr}_x\text{FeAsO}$ crystals. Physical Review B, 2015, 91, . | 7.8 | 30 |
| 23 | Spin Excitations in LaFeAsO and PrFeAsO . Physical Review Letters, 2015, 114, 057001. | 0.953 | 7 |
| 24 | $\text{Gd}_5(\text{Si},\text{Ge})_4$ thin film displaying large magnetocaloric and strain effects due to magnetostructural transition. Applied Physics Letters, 2015, 106, . | 3.3 | 27 |
| 25 | Comprehensive scenario for single crystal growth and doping dependence of resistivity and anisotropic upper critical fields in $(\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2)$. IJ ETQq1 1 0.784314 rgt /Overlock 10 If 50 517 Td (xmlns:mml= http://www.w3.org | 3.2 | 52 |
| 26 | Crossover in the magnetic response of single-crystalline $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$. Physical Review B, 2014, 90, . | 3.2 | 27 |
| 27 | Upper critical field of $\text{K}_2\text{Fe}_2\text{As}_2$ and PrFe_2As_2 under pressure: A test for the change in the superconducting gap structure. Physical Review B, 2014, 89, . | 3.2 | 13 |
| 28 | Evolution of London penetration depth with scattering in single crystals of $\text{K}_2\text{Fe}_2\text{As}_2$. Physical Review B, 2014, 89, . | 3.2 | 20 |
| 29 | Native defects in tetradymite Bi_2Te_3 . Physical Review B, 2014, 89, . | 3.2 | 25 |
| 30 | | | |

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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, . | 3.2 | 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, . | 3.2 | 12 |
| 39 | Hydrostatic and uniaxial pressure dependence of superconducting transition temperature of KFe_2As single crystals. <i>Physical Review B</i> , 2012, 86, . | 3.2 | 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, . | 2.5 | 100 |
| 41 | Magnetic field dependence of the maximum magnetic entropy change. <i>Physical Review B</i> , 2011, 83, . | 3.2 | 81 |
| 42 | Anisotropic magnetoelastic coupling in single-crystalline CeFeAsO as seen via high-resolution x-ray diffraction. <i>Physical Review B</i> , 2011, 84, . | 3.2 | 7 |
| 43 | Contamination from magnetic starting materials in flux-grown single crystals of FeAsO superconductors. <i>Physical Review B</i> , 2011, 84, . | 3.2 | 4 |
| 44 | Flux requirements for the growth of RFeAsO (R=rare earth) superconductors. <i>Applied Physics Letters</i> , 2011, 98, . | 3.3 | 12 |
| 45 | Experimental exploration of the origin of magnetostriction in single crystalline iron. <i>Applied Physics Letters</i> , 2010, 97, 072508. | 3.3 | 11 |
| 46 | Surface-driven electronic structure in LaFeAsO studied by angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2010, 82, . | 3.2 | 37 |
| 47 | Magnetoelasticity of FeSi single crystals. <i>Journal of Applied Physics</i> , 2010, 107, 09A911. | 2.5 | 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, . | 2.2 | 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, . | 3.2 | 39 |
| 50 | Electronic structure and lattice dynamics of the magnetic shape-memory alloy Co_2MnSi . <i>Physical Review B</i> , 2010, 82, . | 3.2 | 36 |
| 51 | Hydrostatic and uniaxial pressure dependence of superconducting transition temperature of FeAsO single crystals. <i>Physical Review B</i> , 2012, 86, . | 3.2 | 24 |

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|----|---|-----|-----------|
| 55 | Electrical resistivity and magnetoresistance of single-crystal Tb_5FeSi_3 . Physical Review B, 2009, 80, . | 3.2 | 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. | 2.5 | 10 |
| 57 | Determination of Structural Anisotropy of Stress-Annealed Fe $_{80.5}$ Ga $_{19.5}$. IEEE Transactions on Magnetics, 2009, 45, 4142-4144. | 2.1 | 1 |
| 58 | Magnetostructural transition in Gd_5Si_3 . Physical Review B, 2009, 80, . | 3.2 | 12 |
| 59 | Magnetostriction of iron-germanium single crystals. Journal of Applied Physics, 2008, 103, . | 2.5 | 23 |
| 60 | Magnetic domains in magnetostrictive Fe-Ga alloys. Applied Physics Letters, 2008, 93, . | 3.3 | 36 |
| 61 | Spin-wave dispersion in magnetostrictive Fe-Ga alloys: Inelastic neutron scattering measurements. Physical Review B, 2007, 75, . | 3.2 | 25 |
| 62 | Magnetostriction of ternary Fe-Ga-X (X=C,V,Cr,Mn,Co,Rh) alloys. Journal of Applied Physics, 2007, 101, 09C507. | 2.5 | 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, . | 3.2 | 29 |
| 64 | Terrace-dependent nucleation of small Ag clusters on a five-fold icosahedral quasicrystal surface. Philosophical Magazine, 2007, 87, 2995-3001. | 1.6 | 6 |
| 65 | Magnetostriction of binary and ternary Fe-Ga alloys. Journal of Materials Science, 2007, 42, 9582-9594. | 3.7 | 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. | 1.6 | 11 |
| 67 | Voids and pits on sputter-annealed fivefold terraces of icosahedral Al-Pd-Mn quasicrystals. Philosophical Magazine, 2006, 86, 819-824. | 1.6 | 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. | 2.5 | 15 |
| 69 | Phase selection during directional solidification of peritectic alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2005, 36, 1287-1300. | 2.2 | 27 |
| 70 | The Pr-rich portion of the Ni-Pr system. Journal of Phase Equilibria and Diffusion, 2005, 26, 209-214. | 1.4 | 7 |
| 71 | Magnetic anisotropy and phase transitions in single-crystal Tb $_5$ (Si $_2$.2Ge $_1$.8). Journal of Applied Physics, 2005, 97, 10M313. | 2.5 | 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. | 1.2 | 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, . | 3.2 | 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, . | 3.2 | 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, . | 3.2 | 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. | 2.5 | 24 |
| 78 | Compositional variation of the phonon dispersion curves of bcc Fe-Ga alloys. Physical Review B, 2005, 72, . | 3.2 | 18 |
| 79 | Thermal expansion and Gruneisen parameters in some Pr-Ni-Si compounds. Journal of Applied Physics, 2005, 97, 10M516. | 2.5 | 7 |
| 80 | Magnetic field dependence of galphenol elastic properties. Journal of Applied Physics, 2005, 97, 10M315. | 2.5 | 93 |
| 81 | Fe _{1-x} Ga _x Pb(Mg _{1-3x} Nb _{2x})O ₃ PbTiO ₃ magnetoelectric laminate composites. Applied Physics Letters, 2005, 87, 222504. | 3.3 | 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 | 2.5 | 51 |
| 83 | Hydrostatic pressure control of the magnetostructural phase transition in Gd ₅ Si ₂ Ge ₂ single crystals. Physical Review B, 2005, 72, . | 3.2 | 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. | 2.5 | 74 |
| 85 | Magnetic properties of single-crystal DyAl ₂ . Physical Review B, 2005, 72, . | 3.2 | 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, . | 3.2 | 47 |
| 87 | Phase relationships and structural, magnetic, and thermodynamic properties of alloys in the pseudobinary Er ₅ Si ₄ -Er ₅ Ge ₄ system. Physical Review B, 2004, 70, . | 3.2 | 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. | 2.5 | 26 |
| 89 | Extraordinary magnetoelasticity and lattice softening in bcc Fe-Ga alloys. Journal of Applied Physics, 2003, 93, 8621-8623. | 2.5 | 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. | 2.5 | 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. | 2.5 | 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. | 3.3 | 13 |
| 94 | Magnetostrictive Properties of Galfenol Alloys Under Compressive Stress. Materials Transactions, 2002, 43, 881-886. | 1.2 | 199 |
| 95 | Magnetostriction of ternary Fe-X alloys (X=Ni,Mo,Sn,Al). Journal of Applied Physics, 2002, 91, 8225. | 2.5 | 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. | 3.3 | 1,057 |
| 99 | Surface oxidation of a quasicrystalline Al-Cu-Fe alloy: No effect of surface orientation and grain boundaries on the final state. Journal of Materials Research, 1999, 14, 3185-3188. | 2.6 | 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 | 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 | 2 |
| 102 | Processing Of Al-Cu-Fe Quasicrystalline Single Grains. Materials Research Society Symposia Proceedings, 1998, 553, 3. | 0.1 | 1 |
| 103 | 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. | 2.2 | 9 |
| 104 | Preparation of large single grains of the quasicrystalline icosahedral Al-Cu-Fe phase. Journal of Materials Research, 1996, 11, 2125-2127. | 2.6 | 40 |