

Edward Della Torre

List of Publications by Year in descending order

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papers

611
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687363

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all docs

53
docs citations

53
times ranked

709
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Analysis of wasp-waist hysteresis loops. Journal of Applied Physics, 2005, 97, 10E502. | 2.5 | 84 |
| 2 | Extension of the BlochT3/2Law to Magnetic Nanostructures: Bose-Einstein Condensation. Physical Review Letters, 2005, 94, 147210. | 7.8 | 69 |
| 3 | Vector modelingâ€”Part I: Generalized hysteresis model. Physica B: Condensed Matter, 2006, 372, 111-114. | 2.7 | 62 |
| 4 | Ferri- to ferro-magnetic transition in the martensitic phase of a Heusler alloy. Journal of Alloys and Compounds, 2012, 525, 34-38. | 5.5 | 37 |
| 5 | Efficient numerical implementation of complete-moving-hysteresis models. IEEE Transactions on Magnetics, 1993, 29, 1532-1537. | 2.1 | 35 |
| 6 | Estimation of MnZn ferrite core losses in magnetic components at high frequency. IEEE Transactions on Magnetics, 2001, 37, 2366-2368. | 2.1 | 27 |
| 7 | Analysis of a Unit Magnetic Particle Via the DPC Model. IEEE Transactions on Magnetics, 2009, 45, 5192-5195. | 2.1 | 27 |
| 8 | Theoretical Considerations of Magnetic Hysteresis and Transformer Inrush Current. IEEE Transactions on Magnetics, 2009, 45, 5247-5250. | 2.1 | 27 |
| 9 | Physical Justification for Negative Remanent Magnetization in Homogeneous Nanoparticles. Scientific Reports, 2014, 4, 6267. | 3.3 | 21 |
| 10 | Magnetocaloric properties of metallic nanostructures. Cogent Engineering, 2015, 2, 1050324. | 2.2 | 17 |
| 11 | Adiabatic magnetocaloric temperature change in polycrystalline gadolinium â€” A new approach highlighting reversibility. AIP Advances, 2012, 2, . | 1.3 | 15 |
| 12 | Magnetocaloric effect in NiMnInSi Heusler alloys. Journal of Applied Physics, 2015, 117, 17D107. | 2.5 | 14 |
| 13 | Design and Instrumentation of an Advanced Magnetocaloric Direct Temperature Measurement System. IEEE Transactions on Magnetics, 2012, 48, 3999-4002. | 2.1 | 13 |
| 14 | Direct and indirect measurement of the magnetocaloric effect in bulk and nanostructured Ni-Mn-In Heusler alloy. AIP Advances, 2018, 8, . | 1.3 | 13 |
| 15 | Experimental Verification of the Deletion and Congruency Properties in Si-Fe Magnetic Steels. IEEE Transactions on Magnetics, 2009, 45, 5243-5246. | 2.1 | 11 |
| 16 | Enhanced Magnetic Properties of Ni ₅₁ Mn _{33.4} In _{15.6} Heusler Alloy Nanoparticles. IEEE Transactions on Magnetics, 2017, 53, 1-6. | 2.1 | 11 |
| 17 | Properties of vector preisach models. IEEE Transactions on Magnetics, 2005, 41, 8-16. | 2.1 | 10 |
| 18 | Enhanced magnetic properties of yttrium-iron nanoparticles. AIP Advances, 2017, 7, 056423. | 1.3 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Self-similarity in $(\hat{M}/\hat{T})_H$ curves for magnetocaloric materials with ferro-to-paramagnetic phase transitions. Journal of Applied Physics, 2012, 111, . | 2.5 | 9 |
| 20 | Implicit measurement of the latent heat in a magnetocaloric NiMnIn Heusler alloy. Journal of Applied Physics, 2013, 113, . | 2.5 | 9 |
| 21 | Identification of parameters in multilayer media. IEEE Transactions on Magnetics, 2000, 36, 1272-1275. | 2.1 | 8 |
| 22 | Differential Equation Model for Accommodation Magnetization. IEEE Transactions on Magnetics, 2004, 40, 1499-1505. | 2.1 | 8 |
| 23 | A Preisach-Type Magnetostriction Model for Materials Exhibiting Villari Reversal. IEEE Transactions on Magnetics, 2012, 48, 3360-3362. | 2.1 | 8 |
| 24 | Stress-associated changes in the magnetic properties of high strength steels. Physica B: Condensed Matter, 2014, 435, 16-20. | 2.7 | 7 |
| 25 | Rotational magnetization measurements on magnetic particle recording tape. Physica B: Condensed Matter, 2004, 343, 350-356. | 2.7 | 6 |
| 26 | A vector model for off-axis hysteresis loops using anisotropy field. Physica B: Condensed Matter, 2016, 501, 113-116. | 2.7 | 6 |
| 27 | Comparison of the differential equation accommodation model with experiment. Journal of Applied Physics, 2006, 99, 08D706. | 2.5 | 5 |
| 28 | Metastability in the Magnetic Structure of $\text{Ni}_{51}\text{Mn}_{33.4}\text{In}_{15.6}$ Heusler Alloy. IEEE Magnetics Letters, 2013, 4, 6000204-6000204. | 1.1 | 5 |
| 29 | Ferri-to-ferro-magnetic and ferro-to-para-magnetic transitions in $\text{Ni}_{48}\text{Co}_{2}\text{Mn}_{35}\text{In}_{13}\text{Ga}_{2}$ Heusler alloy. Journal of Applied Physics, 2014, 115, 17A906. | 2.5 | 5 |
| 30 | Customizing Magnetic and Structural Properties of Nanomaterials. IEEE Transactions on Magnetics, 2018, 54, 1-5. | 2.1 | 5 |
| 31 | Modeling of Vector Hysteresis in Si-Fe Magnetic Steels and Experimental Verification. IEEE Transactions on Magnetics, 2010, 46, 3465-3468. | 2.1 | 4 |
| 32 | Tuning the heat transfer medium and operating conditions in magnetic refrigeration. AIP Advances, 2016, 6, 075221. | 1.3 | 4 |
| 33 | Magnetization model for a Heusler alloy. Journal of Applied Physics, 2013, 113, . | 2.5 | 3 |
| 34 | Magnetostriction measurements of high strength steel under the influence of bi-axial magnetic fields. Physica B: Condensed Matter, 2014, 435, 129-133. | 2.7 | 3 |
| 35 | Vector Magnetization of a Distribution of Uniaxial Particles. IEEE Transactions on Magnetics, 2016, 52, 1-4. | 2.1 | 3 |
| 36 | Identifying Hysteresis Losses in Magnetic Media. IEEE Transactions on Magnetics, 2010, 46, 3844-3847. | 2.1 | 2 |

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|----|--|-----|-----------|
| 37 | Evidence of metastability near the Curie temperature of polycrystalline gadolinium. Journal of Applied Physics, 2012, 112, . | 2.5 | 2 |
| 38 | Self-similar field dependent curves for a Heusler alloy. Physica B: Condensed Matter, 2014, 435, 71-75. | 2.7 | 2 |
| 39 | Study of Magnetizing Processes in $\text{Ni}_{50}\text{Mn}_{35}\text{In}_{15}$ Heusler Alloy. IEEE Transactions on Magnetics, 2013, 49, 4956-4959. | 2.1 | 1 |
| 40 | Application of a Della Torre-Oti-Kadar stress-dependent Preisach model through a numerical model. Journal of Applied Physics, 2014, 115, 17D112. | 2.5 | 1 |
| 41 | Vector properties of magnetostriction. Journal of Applied Physics, 2015, 117, 17D141. | 2.5 | 1 |
| 42 | Vector magnetization of a distribution of cubic particles. AIP Advances, 2017, 7, . | 1.3 | 1 |
| 43 | Vector hysteresis modeling for anisotropic magnetic materials. , 2010, , . | | 0 |
| 44 | Characterization of the Mixed-Phase States Using Self-Similarity Phenomenon for First-Order Magnetocaloric Metamagnets. IEEE Transactions on Magnetics, 2012, 48, 3992-3994. | 2.1 | 0 |
| 45 | Interpretation of thermal dependence of magnetic aftereffect for magnetic nanocomposite with slow decay rates. International Journal of Smart and Nano Materials, 2013, 4, 91-101. | 4.2 | 0 |
| 46 | Cooling factor for magnetic refrigeration systems. Cogent Physics, 2014, 1, 979604. | 0.7 | 0 |
| 47 | Hysteresis modeling of sequential application of orthogonal fields. Journal of Applied Physics, 2014, 115, 17D106. | 2.5 | 0 |
| 48 | Magnetic states stabilization in $\text{Ni}_{51}\text{Mn}_{33.4}\text{In}_{15.6}$ Heusler alloy. Cogent Physics, 2015, 2, 1109019. | 0.7 | 0 |
| 49 | Electric field-controlled magnetization switching in Co/Pt thin-film ferromagnets. Cogent Physics, 2016, 3, . | 0.7 | 0 |
| 50 | Properties of uniaxial media model. Physica B: Condensed Matter, 2018, 549, 40-42. | 2.7 | 0 |
| 51 | Entropy Change and Hysteresis Losses in $\text{Ni}_{45}\text{Co}_5\text{Mn}_{(37-x)}\text{In}_{(13+x)}$ Alloy Family.. , 2018, , . | | 0 |
| 52 | Customizing Magnetic and Structural Properties of Nanoma-terials. , 2018, , . | | 0 |