

Teresa Castañin

List of Publications by Year in descending order

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citations

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docs citations

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citing authors

#	ARTICLE	IF	CITATIONS
1	Spin-glass nature of tweed precursors in martensitic transformations. <i>Physical Review Letters</i> , 1991, 67, 3630-3633.	2.9	167
2	Influence of Elastic Anisotropy on Structural Nanoscale Textures. <i>Physical Review Letters</i> , 2008, 100, 165707.	2.9	141
3	Modeling premartensitic effects in Ni ₂ MnGa: A mean-field and Monte Carlo simulation study. <i>Physical Review B</i> , 1999, 60, 7071-7084.	1.1	76
4	Multicaloric materials and effects. <i>MRS Bulletin</i> , 2018, 43, 295-299.	1.7	76
5	Giant multicaloric response of bulk $\text{Fe}_{1-x}\text{Mn}_x$. <i>Physical Review B</i> , 2017, 95, .	1.9	60
6	Ferroelastic Nanostructures and Nanoscale Transitions: Ferroics with Point Defects. <i>MRS Bulletin</i> , 2009, 34, 838-846.	1.7	49
7	Glassy behavior in martensites: Interplay between elastic anisotropy and disorder in zero-field-cooling/field-cooling simulation experiments. <i>Physical Review B</i> , 2009, 80, .	1.1	41
8	Degenerate Blume-Emery-Griffiths model for the martensitic transformation. <i>Physical Review B</i> , 1996, 53, 8915-8921.	1.1	33
9	Interfaces in ferroelastics: Fringing fields, microstructure, and size and shape effects. <i>Physical Review B</i> , 2009, 79, .	1.1	30
10	Thermodynamics of ferrotoroidic materials: Toroidocaloric effect. <i>Physical Review B</i> , 2012, 85, .	1.1	26
11	Tweed in martensites: a potential new spin glass. <i>Physica Scripta</i> , 1992, T42, 214-219.	1.2	24
12	Monte Carlo study of the growth of L1 ₂ -ordered domains in fcc A ₃ B binary alloys. <i>Physical Review B</i> , 1997, 55, 212-225.	1.1	23
13	Thermodynamics of multicaloric effects in multiferroic materials: application to metamagnetic shape-memory alloys and ferrotoroidics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150304.	1.6	23
14	Kinetics of domain growth, theory, and Monte Carlo simulations: A two-dimensional martensitic phase transition model system. <i>Physical Review B</i> , 1989, 40, 5069-5083.	1.1	20
15	State equation for shape-memory alloys: Application to CuZnAl. <i>Journal of Applied Physics</i> , 1989, 66, 2342-2348.	1.1	20
16	Monte Carlo study of the domain growth in nonstoichiometric two-dimensional binary alloys. <i>Physical Review B</i> , 1996, 54, 166-177.	1.1	16
17	Unified mean-field study of ferro- and antiferromagnetic behavior of the Ising model with external field. <i>American Journal of Physics</i> , 1997, 65, 907-913.	0.3	16
18	Comment on "Kinetics of spinodal decomposition in the Ising model with vacancy diffusion". <i>Physical Review B</i> , 1996, 53, 2886-2889.	1.1	15

#	ARTICLE	IF	CITATIONS
19	Vacancy-assisted domain growth in asymmetric binary alloys: A Monte Carlo study. <i>Physical Review B</i> , 1999, 60, 3920-3927.	1.1	14
20	Effect of the vacancy interaction on antiphase domain growth in a two-dimensional binary alloy. <i>Physical Review B</i> , 1997, 56, 5261-5270.	1.1	11
21	Thermodynamics of stress-induced ferroelastic transitions: Influence of anisotropy and disorder. <i>Physical Review B</i> , 2010, 81, .	1.1	11
22	Magnetocaloric and barocaloric responses in magnetovolumic systems. <i>Physical Review B</i> , 2015, 91, .	1.1	11
23	Magnetic phase separation in ordered alloys. <i>Physical Review B</i> , 2001, 63, .	1.1	9
24	Intermittent dynamics in externally driven ferroelastics and strain glasses. <i>Physical Review E</i> , 2018, 98, .	0.8	9
25	Domain-growth kinetics and aspects of pinning: A Monte Carlo simulation study. <i>Physical Review B</i> , 1991, 43, 956-964.	1.1	8
26	Precursor nanoscale modulations in ferromagnets: Modeling and thermodynamic characterization. <i>Physical Review B</i> , 2005, 72, .	1.1	8
27	Ginzburg-â€œLandau modelling of precursor nanoscale textures in ferroelastic materials. <i>Continuum Mechanics and Thermodynamics</i> , 2012, 24, 619-627.	1.4	8
28	Diffusionless first-order phase transitions in systems with frozen configurational degrees of freedom. <i>Physical Review B</i> , 1991, 44, 6715-6722.	1.1	7
29	Development of a tight-binding potential for bcc Zr: Application to the study of vibrational properties. <i>Physical Review B</i> , 2001, 63, .	1.1	7
30	Precursor Nanoscale Textures in Ferroelastic Martensites. <i>Springer Series in Materials Science</i> , 2012, , 227-247.	0.4	7
31	Modelling magnetostructural textures in magnetic shape-memory alloys: Strain and magnetic glass behaviour. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2080-2087.	0.7	6
32	Kinetics of slow domain growth: Then=1/4 universality class. <i>Physical Review B</i> , 1990, 41, 4659-4662.	1.1	4
33	Monte Carlo simulation of interface alloying. <i>Physical Review B</i> , 1995, 51, 11369-11375.	1.1	4
34	Magnetostructural tweed in ferromagnetic Heusler shape-memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 438-440, 916-918.	2.6	4
35	Recent progress in the thermodynamics of ferrotoroidic materials. <i>Multiferroic Materials</i> , 2015, 1, .	0.0	4
36	Precursor Nanoscale Textures in Ferroelastics: Interplay between Anisotropy and Disorder. <i>Materials Science Forum</i> , 2013, 738-739, 155-159.	0.3	3

#	ARTICLE	IF	CITATIONS
37	Modelling Shape-Memory Effects in Ferromagnetic Alloys. Shape Memory and Superelasticity, 2015, 1, 347-358.	1.1	3
38	Spatially correlated disorder in self-organized precursor magnetic nanostructures. Physical Review B, 2007, 76, .	1.1	2
39	Thermodynamics of Multiferroic Materials. Springer Series in Materials Science, 2014, , 73-108.	0.4	2
40	Statistical thermodynamic properties of a binary alloy. American Journal of Physics, 1995, 63, 261-267.	0.3	1
41	Spatially correlated disorder in striped precursor magnetic modulations. Journal of Magnetism and Magnetic Materials, 2007, 310, 2641-2643.	1.0	1
42	Multiferroic and Related Hysteretic Behavior in Ferromagnetic Shape Memory Alloys. Physica Status Solidi (B): Basic Research, 2018, 255, 1700327.	0.7	1
43	Ordering Processes in FCC and BCC Binary Alloys: A Comparative Study. Materials Science Forum, 1998, 269-272, 675-680.	0.3	0
44	Precursor Nanoscale Strain Textures: From Cross-Hatched to Mottled Structure. , 0, , 543-548.		0