

Tian-Li Zhang

List of Publications by Year in descending order

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docs citations

24
times ranked

368
citing authors

#	ARTICLE	IF	CITATIONS
1	Grain- $\{111\}$ -oriented anisotropy in the bonded giant magnetostrictive material. Applied Physics Letters, 2010, 96, .	3.3	56
2	A facile synthesis of high performance SmCo ₅ nanoparticles. Chemical Engineering Journal, 2015, 264, 610-616.	12.7	52
3	2:17-type SmCo quasi-single-crystal high temperature magnets. Applied Physics Letters, 2015, 106, .	3.3	40
4	Initial Irreversible Losses and Enhanced High-Temperature Performance of Rare-Earth Permanent Magnets. Advanced Functional Materials, 2019, 29, 1900690.	14.9	40
5	Exchange-coupled SmCo ₅ /Co nanocomposites synthesized by a novel strategy. RSC Advances, 2015, 5, 89128-89132.	3.6	38
6	Bulk anisotropic nanocrystalline SmCo _{6.6} Ti _{0.4} permanent magnets. Scripta Materialia, 2013, 68, 432-435.	5.2	29
7	Correlation of microstructure and magnetic properties in Sm(Co _{0.1} Fe _{0.1} Cu _{0.1} Zr _{0.033}) _{6.93} magnets solution-treated at different temperatures. Rare Metals, 2019, 38, 20-28.	7.1	27
8	Magnetostrictive actuators with large displacement and fast response. Smart Materials and Structures, 2012, 21, 055014.	3.5	22
9	Improved magnetostriction and mechanical properties in dual-phase FeGa single crystal. Materials Research Letters, 2018, 6, 327-332.	8.7	21
10	FePt/Co core/shell nanoparticle-based anisotropic nanocomposites and their exchange spring behavior. Nanoscale, 2018, 10, 4061-4067.	5.6	20
11	Permanent-magnet longitudinal fields for magnetostrictive devices. Journal of Applied Physics, 2007, 101, 034511.	2.5	19
12	Synthesis of SmCo ₅ nanoparticles with small size and high performance by hydrogenation technique. Rare Metals, 2018, 37, 1021-1026.	7.1	17
13	Nonvolatile Electric Control of the Anomalous Hall Effect in an Ultrathin Magnetic Metal. Advanced Electronic Materials, 2020, 6, 1901084.	5.1	15
14	Chemical synthesis of SmCo ₅ /Co magnetic nanocomposites. Rare Metals, 2019, 38, 306-311.	7.1	14
15	Dispersible and manipulable magnetic L10-FePt nanoparticles. Nanoscale, 2020, 12, 7843-7848.	5.6	14
16	Multiscale influence of trace Tb addition on the magnetostriction and ductility of $\{100\}$ -oriented directionally solidified Fe-Ga crystals. Physical Review Materials, 2019, 3, .	7.1	14
17	Chemical synthesis and characterization of SmCo ₅ /Co magnetic nanocomposite particles. Rare Metals, 2021, 40, 1224-1231.	7.1	8
18	Evolution of phase and microstructure in anisotropic nanocrystalline SmCo _{6.1} Si _{0.9} magnets. Journal of Applied Physics, 2014, 115, 043901.	2.5	6

#	ARTICLE	IF	CITATIONS
19	Low remanence temperature coefficient Sm _{1-x} Er _x (Co, Fe, Cu, Zr) ₂ magnets operating up to 400°C. Rare Metals, 2020, 39, 70-75.	7.1	6
20	Magnetic texture and coercivity of anisotropic nanocrystalline SmCo _{6.1} Si _{0.9} magnets. Journal of Applied Physics, 2014, 115, 17A701.	2.5	5
21	Frequency Dependence of Loss Behavior in Bonded Anisotropic Giant Magnetostrictive Materials. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	5
22	First-principles study of site preferences for Fe in Sm ₂ Co ₁₇ permanent magnets. Physical Review Materials, 2020, 4, .		
23	Morphology evolution of SmCo _x permanent magnetic nanoparticles. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	5.1	2
24	Oriented exchange-coupled L ₁₀ -FePt/Co core-shell nanoparticles with variable Co thickness. RSC Advances, 2022, 12, 7568-7573.	3.6	2