
Fe Based Alloys Magnetocaloric Magnetovolume Effects Pablo

microstructure, magnetic and magnetocaloric properties of ... - alloys crystallized into a majority fe 2p-type hexagonal structure, coexisting with minor amounts of ... based on magnetocaloric effect (mce), is an isothermal **magnetocaloric effect in heavy rare-earth elements doped ...** - magnetocaloric effect in heavy rare-earth elements doped fe-based bulk metallic glasses with tunable curie temperature ... ment compared with cr for fe-b-based alloys ... **large magnetocaloric effect in fe-b-mn-zr-nb amorphous ...** - large magnetocaloric effect in fe-b-mn-zr-nb amorphous alloys near room temperature ... that these fe-based amorphous alloys can be considered **journal of alloys and compounds - universidad de sevilla** - journal of alloys and compounds 508 ... type alloys display the highest mce among fe-based amorphous alloys, ... amorphous alloys exhibit large magnetocaloric ... **effect of fe substitution on the magnetic, transport ...** - effect of fe substitution on the magnetic, transport, thermal and magnetocaloric properties in ni₅₀mn₃₈xfexsb₁₂ heusler alloys ... nimn based alloys, ... **magnetocaloric effect in ni-fe-ga heusler alloys with co ...** - magnetocaloric effect in ni-fe-ga heusler alloys with co and al substitutions f. tolea a, m. sofronie, ... improved ductility of ni-fe-ga based alloys [6]. new **the magnetocaloric effect of partially crystalline fe-b-cr ...** - large magnetocaloric effect induced by intrinsic ... the magnetocaloric effect of partially crystalline fe-b-cr ... and fe-b-nb (refs. 21, 22, and 26) based alloys), ... **influence of la and ce additions on the magnetocaloric ...** - influence of la and ce additions on the magnetocaloric effect of fe-b-cr-based amorphous alloys j. y. law,¹ v. franco,² and r. v. ramanujan¹, a **influence of minor addition of cr on the magnetocaloric ...** - influence of minor addition of cr on the magnetocaloric effect in fe-based ... a potential magnetocaloric ... fe-based metallic alloys have attracted ... **enhanced magnetocaloric properties and critical behavior ...** - keywords: magnetocaloric, structural order, fe based, critical behaviour, magnetic cooling ... mcm [9]. other materials, such as la-fe-si based alloys or **magnetocaloric effects in ni-mn-ga-fe alloys using monte ...** - magnetocaloric effect in ni-fe-ga shape ... magnetocaloric effects in ni-mn-ga-fe alloys using monte carlo simulations ... fe based alloys where the fe ... **characteristics and applications of fe-mn-si-based shape ...** - 1 characteristics and applications of fe-mn-si-based shape memory alloys awaji materia co., ltd. (1) introduction fe-mn-si-based shape memory alloys **magnetocaloric properties of fe-ni-cr nanoparticles for ...** - these undesirable factors motivate us to develop non rare earth based magnetocaloric ... cost effective and readily available fe based ... fe-ni-cr alloys ... **iron based shape memory alloys: mechanical and structural ...** - magnetocaloric materials compounds that undergo a reversible ... the austenitic phase in iron based fe alloys is known as a strong and stable phase. **the influence of vanadium on magnetism and magnetocaloric ...** - the influence of vanadium on magnetism and magnetocaloric properties of ... favorably with other amorphous fe-based alloys. ... based on the magnetocaloric effect ... **size-dependent structure and magnetocaloric properties of ...** - magnetic refrigeration based on the magnetocaloric effect has been ... the transition temperature. 8-17 compared with the rare earth-based amorphous alloys, the fe-based **cooling properties of gd alloys and la(fe,si) -based ...** - magnetocaloric effect. in contrast, la(fe,si) 13 ... spherical particles of gd alloys and la(fe,si) 13-based compounds were prepared from their respective mother alloys **journal of alloys and compounds - nimte** - extraordinary magnetocaloric effect of fe-based bulk glassy rods by combining fluxing treatment and j-quenching technique weiming yang a, Juntao huo b, **, haishun ... **review of magnetic properties and magnetocaloric effect in ...** - review of magnetic properties and magnetocaloric effect in the intermetallic ... magnetocaloric effect; rare earth based ... based heusler alloys, [20-24] la(fe ... **measurements of magnetocaloric effect in lafe co si al x ...** - measurements of magnetocaloric effect ... terials are e-based alloys. especially la(fe,si) 13-type ... to the laef 11:14co 0:66si 1:2-based alloy causes expansion **final report for aoad grant 104094, study of ...** - in the case of affordable fe based alloys, ... "influence of la and ce additions on the magnetocaloric effect of fe-b-cr-based amorphous alloys **delft university of technology structural and ...** - structural and magnetocaloric properties of ... structural and magnetocaloric properties of (mn,fe) 2 ... and nimn-based heusler alloys ... **magnetic and magnetocaloric properties of co₂-xfexvga ...** - 2vga-based alloys. co 2vga is predicted to be half-metallic in the ordered l2 ... of the structural, magnetic and magnetocaloric properties of co 2-xfe **improvement of magnetocaloric properties of gd-ge-si ...** - improvement of magnetocaloric properties of gd-ge-si alloys by alloying ... 2fe x alloys at 1200°C and of alloying with various amount ... 4-based solid solution **improving magnetocaloric properties of fe cr tb b nb x ...** - 1466 e. civan et al. nb in small amounts to (fe, co, ni)-based alloys including b or si increases glass forming ability [13] whereas the magnetic properties are ... **tuneable giant magnetocaloric effect in (mn,fe)₂(p,si) ...** - materials article tuneable giant magnetocaloric effect in (mn,fe)₂(p,si) materials by co-b and ni-b co-doping nguyen van thang *, niels harmen van dijk and ekkes brück **a constant magnetocaloric response in femocub amorphous ...** - a constant magnetocaloric response in femocub amorphous alloys with different fe/b ratios v. franco, c. f. conde, j. s. blázquez, and a. condea **effect of co and fe on the inverse magnetocaloric ...** - effect of co and fe on the inverse magnetocaloric properties of ni ... the

magnetocaloric properties. increasing both fe and co ... based heusler alloys,1 and the ... **magnetocaloric properties of la(fe,si)13-based material ...** - 13-based material and its hydride prepared by industrial mischmetal l. f. bao, ... (fe,si) 13-based magnetocaloric material and its ... alloys were sometimes ... **magnetocaloric effect in amorphous and partially ...** - magnetocaloric effect in amorphous and partially crystallized fe zr nb ... magnetic iron-based alloys have great ... in the latter alloys, a large magnetocaloric e ... **the study of magnetocaloric effect in r2fe17 y, pr) alloys** - the study of magnetocaloric effect in r 2 fe 17 ... in low-cost iron-based binary alloys r 2fe 17 ... study the mce in inexpensive iron-rich binary alloys r 2fe 17 **amorphous microwires of high entropy alloys with large ...** - amorphous microwires of high entropy alloys with large magnetocaloric effect ... based on a magnetocaloric effect ... fwhm for the samples of tm=fe, ... **magnetocaloric effect in amorphous and partially ...** - magnetocaloric effect in amorphous and partially crystallized fe40ni38mo4b18 alloys ... rare earth elements as well as several other fe based amorphous alloys.17 ... **moment evolution across the ferromagnetic phase transition ...** - moment evolution across the ferromagnetic phase transition of giant magnetocaloric (mn,fe) 2 ... effect displayed by fe 2p-based ... than mnfe(p,si) alloys, a **magnetic structure and phase formation of magnetocaloric ...** - magnetic structure and phase formation of magnetocaloric mn-fe-p ... fe 2p-based mn-fe-p-si ... the tuneability of the thermal hysteresis in fe-rich alloys ... **feature article magnetocaloric effect and magnetic cooling** - magnetocaloric effect and magnetic cooling ... fe 0.1 alloys, the values of maximum magnetic entropy change are found to be ~ 5.6 ... metal-based alloys [6]. **katter magnetocaloric materials.ppt [kompatibilitätsmodus]** - •lafesi-based alloys produced by powder metallurgy ... new magnetocaloric materials permanent magnets ... a-fe = 71 % magnetocaloric active state **magnetocaloric properties of melt-spun fe-ni-mn-ga ribbons** - magnetocaloric properties of melt-spun fe-ni-mn ... magnetic state and magnetocaloric effect of the fe-ni ... moments of fe and mn atoms in ni-mn-based alloys. **magnetocaloric effect in lamn fe ge at near room temperature** - magnetocaloric effect in lamn2-xfexge2 at near room ... the arc-melted lamn2-xfexge2 alloys mainly crystallize ... temperature that based on the mce of ... **tunable curie temperature around room temperature and ...** - higher than room temperature in fe-based amorphous alloys. ... temperature and magnetocaloric effect in ternary ce-fe-b amorphous ... fe, and fe-b alloys by arc- **magnetocaloric effect and magnetostructural coupling in ...** - magnetocaloric effect and magnetostructural coupling in ... the magnetic phase transition in mn1.1fe0.9p1-xgex magnetocaloric alloys ... 3 ni-mn-sn-based alloys,4 ... **negative and positive magnetocaloric effect in ni-fe-mn-ga ...** - negative and positive magnetocaloric effect in ni-fe-mn-ga alloy ... magnetic refrigeration techniques based on the mce have ... ni-mn-ga-fe alloys have ... **delft days on magnetocalorics ddmc 2015** - • enhanced thermal conductivity in fe-rich la-fe-si-based magnetocaloric alloys y. shao - chinese academy of sciences, ningbo, ... **measurement independent magnetocaloric effect in mn-rich ...** - measurement independent magnetocaloric effect in mn-rich mn-fe-ni-sn ... till date, a large number of ni-mn based heusler alloys have been investigated for **sp 10 magnetic materials for energy applications** - fe. 5. pb. 2. and its alloys ... a strategy to reach these values for high-performance permanent magnets is to design fe-based ... structural and magnetocaloric ... **magnetocaloric response of fe75nb10b15 powders partially ...** - magnetocaloric response of fe 75nb 10b 15 powders partially amorphized by ball milling ... the suitability of transition metal based alloys **magnetism and magnetocaloric effect of mn0.98fe0.02coge** - magnetism and magnetocaloric effect of mn0.98fe0.02coge ... mncoge-based alloys exhibit a magne- ... melting of stoichiometric amounts of fe, ... **elastocaloric effect of a ni-ti plate to be applied in a ...** - compared to gd, a benchmark magnetocaloric material at the magnetic field changes reachable with permanent mag- ... fe-based alloys (doped with rh and pd) **synthesis and characterization of rare earth-based ...** - synthesis and characterization of rare earth-based ... synthesis and characterization of rare earth-based magnetocaloric phases ... (mn,fe)p 1-x as x alloys ... **2011 novel magnetocaloric materials and room temperature ...** - 2011 novel magnetocaloric materials and room ... 2.1.6 fe2p-based compounds ... we also investigated the mce of alloys. the ...

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