

Annex: Complete list of publications

BOOKS and BOOK CHAPTERS

- 1). Mihai Stoica: “Casting and characterization of Fe-(Cr,Mo,Ga)-(P,C,B) soft magnetic bulk metallic glasses”, PhD Thesis, Shaker Verlag Aachen, Germany, 2005, ISBN 3-8322-4631-2.
- 2). Mihai Stoica, Stefan Roth, Jürgen Eckert: “Crystallization Behavior and Magnetic Properties of Fe-based Bulk Metallic Glasses”, in *Intermetallics Research Progress*, Ed. Yakov N. Berdovsky, Nova Science Publishers, Inc., NY-USA, 2008, ISBN 1-60021-982-9, pp. 261-277.
- 3). M. Stoica, G. Kumar, M. Emmi, O. Perroud, A. Wiedemann, A. Gebert, S. Ram, L. Schultz, J. Eckert, “Microstructure and magnetic properties of rapidly quenched $(Nd_{100-x}Ga_x)_{80}Fe_{20}$ ($x = 0, 5, 10, 15$ at.%) alloys”, in: *Phase Transformations in Multicomponent Melts*, D. M. Herlach (Ed), Wiley-VCH Weinheim, 2008, ISBN 3-527-31994-8, pp. 277-295.
- 4). O. Perroud, A. Wiedemann, M. Stoica, J. Eckert, “Nanosized magnetization density profiles in hard magnetic Nd-Fe-Co-Al-glasses”, in: *Phase Transformations in Multicomponent Melts*, D. M. Herlach (Ed), Wiley-VCH Weinheim, 2008, ISBN 3-527-31994-8, pp. 263-276.
- 5). J. Eckert, S. Scudino, M. Stoica, S. Kenzari, M. Sales, “Mechanical engineering properties of CMAs”, in: *Complex Metallic Alloys: Fundamentals and Applications*, Jean-Marie Dubois, Esther Belin-Ferré (Eds.), Wiley-VCH Weinheim, 2010, ISBN 3-527-32523-8, pp. 273-315.

EDITOR and GUEST EDITOR

- 1). A.R. Yavari, E. Gaffet, G. LeCaer, K. Hajlaoui, M. Stoica (Guest Editors): Journal of Alloys and Compounds, vol. 434-435, (2007), Proceedings of the 12th International Symposium on Metastable and Nano-Materials (ISMANAM-2005), July 2005, Paris, France, ISSN 0925-8388.
- 2). Ludwig Schultz, Jurgen Eckert, Livio Battazzati, Mihai Stoica (Editors): Journal of Physics: Conference Series, vol. 144, (2009), the open access journal for The 13th International Conference on Rapidly Quenched and Metastable Materials (RQ13), August 2008, Dresden, Germany, ISSN 1742-6588.

3). Mihai Stoica, Konstantinos Georgarakis (Guest Editors): Revue de Métallurgie, vol. 109 (2012), topical issue on " Metallic glasses and related composites: new routes for functional and strong materials" symposium held during the European Congress and Exhibition on Advanced Materials and Processes (EUROMAT), 12-13 September 2011, Montpellier, France.

PATENTS

- 1). Bárdos András, Stoica Mihai, Varga Lajos, Roth Stefan, Schultz Ludwig: "Verfahren zu Herstellung metalhaltiger Gusskörper und Vorrichtung dafür", DE102005037982B3, national patent
- 2). Roth Stefan, Schultz Ludwig, Stoica Mihai, Bárdos András, Varga Lajos: "Process for producing metal-containing castings and associated apparatus", EP1919645B1, European & World patent.
- 3). Stoica Mihai, Eckert Jürgen: "Amorphe Schichten und Verfahren zu ihrer kontinuierlichen Herstellung", DE102007040719A1, national patent.
- 4) Stoica Mihai, Eckert Jürgen: "Amorphous layers and process for the continuous production thereof", EP2190609A1 (WO/2009/027281) European & World patent.
- 5). Nele Van Steenberge, Daniel Ruiz-Romera, Mihai Stoica, Uta Kühn, Jürgen Eckert: "Fe-based soft magnetic glassy alloy material", EP11193095 (WO/2013/087627) European and World patent.

JOURNAL PAPERS

- 1). M. Stoica, J. Degmova, S. Roth, J. Eckert, H. Grahl, L. Schultz, A.R. Yavari, A. Kvick, G. Heunen: "Magnetic properties and phase transformations of bulk amorphous Fe-based alloys obtained by different techniques", *Materials Transactions* **43**, (2002) pp. 1966-1973.
- 2). M. Stoica, J. Eckert, S. Roth, L. Schultz, A.R. Yavari, A. Kvick: "Casting and phase transformation of $Fe_{65.5}Cr_4Mo_4Ga_4P_{12}C_5B_{5.5}$ bulk metallic glass", *Journal of Metastable and Nanocrystalline Materials* (e-journal) **12**, (2002) pp. 77-84.
- 3). S. Roth, H. Grahl, J. Degmova, N. Schlorke-de Boer, M. Stoica, J. M. Borrego, A. Conde, N. M. Mitrovici J. Eckert: "Magnetic properties of (Fe,Co)-(Al,Ga,Si)-(B,C,P) alloys with large

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- 4). M. Calin, M. Stoica, J. Eckert, A. R. Yavari, L. Schultz: “Phase formation, thermal stability and crystallization behavior of Cu₄₇Ti₃₃Zr₁₁Ni₈X₁ (X = Fe, Si, Sn, Pb) bulk glassy alloys”, *Zeitschrift für Metallkunde* **95**, (2004) pp. 970-977.
- 5). M. Stoica, J. Eckert, S. Roth, L. Schultz: “Preparation of bulk amorphous Fe-Cr-Mo-Ga-P-B-C alloys by copper mold casting”, *Materials Science and Engineering A* **375-377**, (2004) pp. 399-402.
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- 8). X.F. Pan, H. Zhang, Z.F. Zhang, M. Stoica, G. He, J. Eckert: “Vickers hardness and compressive properties of bulk metallic glasses and nanostructure-dendrite composites”, *Journal of Materials Research* **20**, (2005) pp. 2632-2638.
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- 11). M. Stoica, S. Roth, J. Eckert, L. Schultz, M.D. Baró: “Bulk amorphous FeCrMoGaPCB: preparation and magnetic properties”, *Journal of Magnetism and Magnetic Materials* **290-291**, (2005) pp. 1480-1482.

- 12). M. Stoica, J. Eckert, S. Roth, Z.F. Zhang, L. Schultz, W.H. Wang: “Mechanical behavior of Fe_{65.5}Cr₄Mo₄Ga₄P₁₂C₅B_{5.5} bulk metallic glass”, *Intermetallics* **13**, (2005) pp. 764-769.
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