

Research and New Applications of Metallic Glasses Adapted to the Requirements of Sustainability

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Abstract. Metallic glasses were discovered sixty years ago, yet they continue to develop and find new applications. In this work based on our research which dates back to 1970 we present the current state and use of glasses not only in the classical field of magnetic circuits, sensors or permanent magnets but also in new areas that meet the requirements of sustainability. These include catalysis, medicine, prosthetics, water purification, radiation shielding and the like. However, serious attention must be paid to the elimination of critical materials and raw materials which must keep track with the progress in this discipline.