

Editorial

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This issue contains a selection of papers presented at the 22th Brazilian Congress of Materials Science Engineering (22o CBECIMAT) which was held in Natal, RN, Brazil, from November 06 to 10, 2016, organized by the Federal Rural University of Semi-arid (Mossoró - RN) and Federal University of Rio Grande do Norte (Natal - RN). This year had record numbers of participants (1800 registered) and contributions (2800 posters + 120 oral presentation). The participation of the Brazilian Ceramic Society (ABC), the Brazilian Association of Metallurgy, Materials and Mining (ABM) and the Brazilian Polymer Association (ABPol), in the executive committee of the congress, was an important factor for the success of this event. From the 2920 accepted contributions, some aspects should be highlighted: more than 10% are in the area of ecomaterials or materials' recycling, indicating a trend of research and concern of our researchers on a current and important topic for humanity; there were also significant number of works in the area of biomaterials, more than 200 works in total, suggesting that this area of research is consolidated nationally and that CBECIMAT is one of the preferred congresses to gather such community . Finally, it was verified that more than 50% of the works focus on topics such as nanomaterials, ecomaterials, recycling, biomaterials and other future technologies. The selected papers which appear in this special issue gives a nice overview of most of the topics discussed during 22th CBECIMAT. We expect that this special issues will provide the readers with a synthesis of the exciting recent developments associated with the field of Materials Science and Engineering. We would like to especially thank our reviewers who devoted their expertise and valuable time with recommendations and suggestions for selecting high quality articles. We acknowledge the support from the Brazilian financing agencies CNPq, FAPESP, FINEP and CAPES. We are also grateful for the industrial support from Bruker, Altmann, PANalytical, DP Union, Edwards, Fritsch Allemar, Jeol, HMINI MKS, Horiba, Instrutécnica, mBraun, Netzsch, Quantum Design International, Shimadzu and Tescan-Brasil. Finally, we thank all the direct and indirect collaborators of this important event and invite them to the next edition, November 2018, to be held in the city of Foz de Iguaçu, PR.

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Guest Editor