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| Titolo | Bioactive Glasses : Potential Biomaterials for Future Therapy // by Gurbinder Kaur |
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| ISBN | 3-319-45716-0 |
| Edizione | [1st ed. 2017.] |
| Descrizione fisica | 1 online resource (XX, 332 p. 160 illus., 59 illus. in color.) |
| Collana | Series in BioEngineering, , 2196-8861 |
| Disciplina | 610.28 |
| Soggetti | Biomedical engineering Ceramics Glass Composites (Materials) Composite materials Tribology Corrosion and anti-corrosives Coatings Biomedical Engineering and Bioengineering Ceramics, Glass, Composites, Natural Materials Tribology, Corrosion and Coatings |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references at the end of each chapters and index. |
| Nota di contenuto | Understanding Bioactive Materials -- Bioactivity in terms of hydroxyapatite -- Cytocompatibility and pH balance -- Categories of bioactive materials -- Silicate, borate and borosilicate glasses -- Metallic glasses and coatings -- Mesoporous glasses -- Targeted Drug delivery -- Future and fate of bioactive materials. |
| Sommario/riassunto | This book describes the history, origin and basic characteristics of bioactive materials. It includes a chapter dedicated to hydroxyapatite mineral, its formation and its bioactive properties. The authors address how cytotoxicity is a determining step for bioactivity. Applications of bioactive materials in the contexts of tissue regeneration, bone regeneration and cancer therapy are also covered. Silicate, metallic and |

mesoporous glasses are described, as well as the challenges and future prospects of research in this field.
