

1. Record Nr.	UNINA9910557543203321
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Titolo	Metal Oxides
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2020
Descrizione fisica	1 online resource (170 p.)
Soggetti	History of engineering and technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>The Special Issue contains ten research papers, three of which review papers. It is a miscellaneous composition encompassing several applications where metal oxides play a key role. Some papers also give insights into novel synthesis methods and processes aiming to reduce negative environmental impacts and increase materials and process efficiency, thus also covering a broader concern of sustainability issues. The topics covered in this issues are: transparent conductive oxides, ceramic composites for tool applications, oxides nanoparticles for A-TIG welding, critical raw materials saving, metallurgical waste treatment, oxides for high temperature applications, nanostructured oxides and composites for gas sensing and desulfuration, and metal oxides sorbents for CO2 capture.</p>