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Titolo	Sustainable Utilization of Metals: Processing, Recovery and Recycling
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Livello bibliografico	Monografia
Sommario/riassunto	<p>The high demand for advanced metallic materials raises the need for an extensive recycling of metals and such a sustainable use of raw materials. "Sustainable Utilization of Metals - Processing, Recovery and Recycling" comprises the latest scientific achievements in efficient production of metals and such addresses sustainable resource use as part of the circular economy strategy. This policy drives the present contributions, aiming on the recirculation of EoL-streams such as Waste Electric and Electronic Equipment (WEEE), multi-metal alloys or composite materials back into metal production. This needs a holistic approach, resulting in the maximal avoidance of waste. Considering both aspects, circular economy and material design, recovery and use of minor metals play an essential role, since their importance for technological applications often goes along with a lack of supply on the world market. Additionally, their ignoble character and low concentration in recycling materials cause an insufficient recycling rate of these metals, awarding them the status of "critical metals". In order to minimize losses and energy consumption, this issue explores concepts for the optimization concerning the interface between mechanical and thermal pre-treatment and metallurgical processes. Such new approaches in material design, structural engineering and substitution are provided in the chapters.</p>

2. Record Nr.	UNINA9910557622003321
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Titolo	Vitamin D in 2020 : Stop or Not Yet?
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Descrizione fisica	1 online resource (166 p.)
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Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Sommario/riassunto	<p>Many things have been said and written on the skeletal and non-skeletal effects of vitamin D, but the largest recent interventional studies are generally negative. How should we thus position ourselves in 2020? Should we say "stop" or "not yet"? Indeed, the aging of the population, as well as new challenges and discoveries, is still triggering interest in this old molecule. In this Special Edition of Nutrients, we invited top experts to give their opinion on this important debate. We also encouraged scientists to submit their latest research on nutritional requirements in the general population and in high-risk groups, as well as treatment strategies, epidemiology, analytical updates and new devices for vitamin D measurement and the effect of vitamin D on bone and extra-skeletal health. As readers will see, this Special Issue reinforces the high prevalence of vitamin deficiency and insufficiency in the general population and supports the safety of this low-cost molecule, revealing new perspectives regarding the extra-skeletal effects of vitamin D.</p>