1. Record Nr. UNINA9910986143003321

Autore	Guger Christoph
Titolo	Brain-Computer Interface Research : A State-of-the-Art Summary 12 / / edited by Christoph Guger, Jose Azorin, Milena Korostenskaja, Brendan Allison
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	9783031804977
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (161 pages)
Collana	SpringerBriefs in Electrical and Computer Engineering, , 2191-8120
Altri autori (Persone)	AzorinJose KorostenskajaMilena AllisonBrendan
Disciplina	005.437
Soggetti	Human-machine systems Neurotechnology (Bioengineering) Neurosciences Signal processing Human-Machine Interfaces Neuroengineering Neuroscience Signal, Speech and Image Processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	- Brain-Computer Interface Research: A State-of-the-Art Summary 12 -- A Rapidly Deployable High-Performance Speech Neuroprosthesis -- A High-Performance Neuroprosthesis for Speech Decoding and Avatar Control -- Multi-Electrode ICMS Enables Dexterous use of Bionic Hands -- CORGEE: Real-Time Hearing Diagnostics Based on EEG Responses to Natural Speech -- Semantic Reconstruction of Language from Non-Invasive Brain Recordings -- Real-Time Brain State-Coupled Network-Targeted Transcranial Magnetic Stimulation to Enhance Working Memory -- Biomimetic BCI Conveys Naturalistic Touch Sensations via Peripheral Nerve Stimulation for Bionic Legs -- An Intelligent System for Real-Time Assessment of Cortico-Muscular Coupling Index in ALS Disease -- On-Demand Sensory Enhancement via Transcutaneous

	Cervical Vagus Nerve Stimulation -- Toward an Optical BCI: Overcoming the Limitation of Low Sampling Rate for Decoding Limb Movements -- A Summary of the 2023 BCI Award with Discussion of BCI Trends.
Sommario/riassunto	This book showcases recent trends in brain-computer interface development. It highlights fascinating results in areas such as speech neuroprotheses, bionic hands, memory enhancement, and the development of optical BCIs . The contributions describe the three winning projects and other nominated brain-computer interface projects selected by the expert international jury of the BCI Award 2023. In the book, each project is described in detail by the team of scientists behind it, and the editors provide a concluding discussion of the highlights and overall progress in the field.

2.

Record Nr.	UNINA9911010536403321
Autore	Sun Wei
Titolo	Flotation Chemistry of Tungsten Minerals and Its Application / / by Wei Sun, Haisheng Han, Zhiyong Gao
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	981-9650-77-1
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (456 pages)
Altri autori (Persone)	HanHaisheng GaoZhiyong
Disciplina	660
Soggetti	Chemistry, Technical Environmental engineering Biotechnology Bioremediation Mineralogy Industrial Chemistry Environmental Engineering/Biotechnology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Tungsten Resources and Its Strategic Significance -- Geochemistry and Mineralization of Tungsten Ore -- Crystal Chemistry of Tungsten

minerals -- Solution Chemistry of Tungsten Flotation -- Flotation Reagents of Tungsten Ore -- Technology and Practice of Tungsten Flotation -- Development and Utilization of Fluorite Resources Associated with Tungsten Tailings -- Development and Utilization of Associated Feldspar and Quartz Resources in Tungsten Ore -- Treatment and Recycling of Tungsten Ore Flotation Wastewater.

Sommario/riassunto

This book provides an in-depth examination of the geological and metallogenic mechanisms, crystal chemistry, and solution chemistry of tungsten ore. The novel findings presented herein establish a robust foundation for the design and development of specialized flotation reagents and innovative flotation processes tailored specifically for tungsten ore. Moreover, this work constructs a comprehensive theoretical framework of tungsten ore flotation chemistry, significantly advancing new technologies in this domain. The content of this book will be of considerable interest to university faculty, researchers, R&D engineers, and graduate students in the fields of mineral processing and extractive metallurgy. It offers valuable insights into cutting-edge reagents and technologies that enhance energy efficiency and promote environmental sustainability.