1. Record Nr. UNINA9910647270003321

Titolo	Security and safety
Pubbl/distr/stampa	Les Ulis, France : , : EDP Sciences, , [2022]-
ISSN	2826-1275
Descrizione fisica	1 online resource
Soggetti	Computer security Accidents - Prevention Industrial safety
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Sommario/riassunto	High quality innovative and applicable research results in the information networks, integrated circuits, software engineering, industrial control, intelligent transportation, medical health, digital finance, social governance and other fields that involve the intersection of cyber security and functional safety.

2. Record Nr. UNINA9910866582303321

Autore	You Rui
Titolo	Micromachined Mixed-Potential-Type YSZ-Based Sensors for Nitrogen Dioxide Monitoring in Automobile Exhaust / / by Rui You
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	9789819732951 9789819732944
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (136 pages)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190-5061
Disciplina	621.381
Soggetti	Electronics Electrochemistry Pollution Electronics and Microelectronics, Instrumentation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Foreword from supervisor -- Chapter 1. Introduction -- Chapter 2. Research on optimization of sensitive properties of sensor electrode materials -- Chapter 3. Research on enhancement technique of sensor boundary activity -- Chapter 4. Research and development of flexible mixed potential no2 sensors with low power consumption -- Chapter 5 summary and prospects -- Reference.
Sommario/riassunto	This book presents original methods to facilitate the development of micro-mixed-potential-type nitrogen dioxide sensors, especially in the following aspects: (i) improvement of sensing performance of electrodes; (ii) enhancement of chemical activity of reaction interface; (iii) development of advanced flexible low-power-consumption mixed-potential-type YSZ-based nitrogen dioxide sensors. Miniaturized sensors have steadily emerged into the commercial marketplace as competitive alternatives for monitoring and controlling the pollution gas in automobile industry. Despite the great potential, the real-world applications for most conventional micro-nitrogen dioxide sensors are still limited due to insufficient sensitivity, unacceptable cost, and the lack of robustness under harsh environmental disturbances. To address

the issue, micro-nitrogen dioxide sensors based on mixed potential solid electrolyte is an ongoing area of great academic and technological interest. This book is expected tobe a guide for researchers on the way forward to chase future horizons in the fields of instrumentation, electrochemistry and micro/nano-electronics.