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# **Metal Chalcogenides Thin Films-Fundamentals & its Sensor Applications**

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# Metal Chalcogenides Films Fundamentals Sensor Applications

**Ahmed Barhoum, Zeynep Altintas**



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**Metal Chalcogenide Biosensors** Ali Salehabadi, Morteza Enhessari, Mardiana Idayu Ahmad, Norli Ismail, Banshi Dhar Gupta, 2023-01-23 Metal Chalcogenide Biosensors: Fundamentals and Applications provides an overview of advances in materials development of chalcogenides for use in biosensing and sensing applications. The metal chalcogenides discussed include highly reactive metals, noble metals, and transition metals. Particular attention is given to the morphology, porosity, structure, and fabrication of materials for biosensing applications. The connection between the chalcogenides' physical and chemical properties and device performance is explored. Key parameters for biosensor devices are investigated such as thermodynamics, kinetics, selectivity, sensitivity, efficiency, and durability to aid in materials selection. Finally, a range of biosensor devices are addressed, including gas biosensors, chemical biosensors,

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Skipidarov,Mikhail Nikitin,2021-03-13 This book presents and facilitates new research and development results with hot topics in the thermoelectric generators TEGs field Topics include novel thin film multilayer composite and nanostructured thermoelectric materials simulation of phenomena related to thermoelectricity thermoelectric thin film and multilayer materials manufacturing technologies measurement techniques for characterization thermoelectric generators and the simulation modeling design thermal and mechanical degradation problems This book helps researchers tackle the challenges that still remain in creating cheap and effective TEGs and presents the latest trends and technologies in development and production of advanced thermoelectric generation devices *Post-Transition Metals* Mohammed Muzibur Rahman,Abdullah

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