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Advanced Inorganic Semiconductor Materials, 3rd Edition

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Advanced Inorganic Semiconductor Materials, 3rd Edition presents a curated collection of recent advances in the design, synthesis, characterization, and application of inorganic and hybrid semiconductor materials. The volume covers a broad range of topics, including wide-bandgap oxides, doped and mixed-metal thin films, tribocatalysis, photoelectrochemical heterostructures, flexible inorganic electronics, oxygen-sensing materials, and organic-inorganic metal halides with luminescent and chiroptical functionalities. Emphasis is placed on defect engineering, interface design, energy conversion, and device integration, illustrating how fundamental materials concepts translate into practical technologies for electronics, photonics, catalysis, sensing, and energy harvesting. Contributions from leading international researchers provide both experimental insights and conceptual frameworks that reflect the current state and future directions of inorganic semiconductor research. This Reprint offers a valuable reference for scientists, engineers, and graduate students seeking an up-to-date overview of emerging materials and device strategies in advanced semiconductor science.

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