



## Structure and properties of Co-halide perovskite hybrid

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Structure and properties of  $[\text{NH}_3(\text{CH}_2)_7\text{NH}_3]\text{CoCl}_2\text{Br}_2$  | Organic-inorganic hybrid (OIH) semiconductors have been under extensive investigations for the past two decades due to their interesting structure, optical and electric properties. OIH materials represent a creative alternative for the design of new materials and compounds for academic research, and improvement of their physical properties and possible application in optics, electronics, ionic, mechanics, energy, environment, biology and medicine. Applications include smart membranes and separation devices, functional smart coatings, a new generation of photovoltaic and fuel cells, photocatalysts, new catalysts, sensors, smart microelectronics, micro-optical and photonic. OIH are actually composite materials formed by the combination of inorganic materials and organic polymers, however, they are not simply physical mixtures. They can be broadly defined as molecular or nano-composites with organic (or bio) and inorganic components, intimately mixed where at least one of the component domains has a dimension ranging from a few Å to several nanometers. | Format: Paperback | Language/Sprache: english | 100 pp.



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