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Light-induced new states of matter in solids: Prospects, concepts, and challenges

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Controlling the properties of complex quantum materials with light is a tantalizing prospect. As an example, non-equilibrium driven systems offer the possibility to control their topology by the creation of Floquet-Bloch states, which can be probed with time-resolved spectroscopy. I will discuss basic concepts for the understanding and modeling of light-induced states as well as the challenges for theory and experiments.

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