

**Band gap engineering by cationic substitution in Sn(Zr<sub>1-x</sub>Ti<sub>x</sub>)Se<sub>3</sub> alloy for bottom sub-cell application in solar cells**  
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**Optoelectronic surface emitters of terahertz radiation from copper chalcogenides**  
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**Terahertz radiation from nonstoichiometric CuInSe<sub>2</sub> films excited by femtosecond laser pulses**  
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