

# Energy Resolved Electrochemical Impedance Spectroscopy of Furan-Substituted Thiazolo [5,4-*d*]Thiazoles

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**Abstract.** Thiazolo[5,4-*d*]thiazoles (TzTz) are the group of active unit blocks used in materials for organic photovoltaic applications. We examined density of states function of four furan-substituted TzTz using energy-resolved electrochemical impedance spectrometry. We determined HOMO/LUMO band edge positions and mapped DOS function of bandgap deep states.