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Poster Presentation

## [PHp1]Phosphors and Devices

Thu. Nov 28, 2019 10:40 AM - 1:10 PM Main Hall (1F)

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10:40 AM - 1:10 PM

### [PHp1-6L]Preparation of Mn Doped $\text{Mg}_2\text{TiO}_4$ Deep Red Emitting Phosphor by Liquid Phase Synthesis

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Keywords:Liquid Phase Synthesis, Deep Red Emission,  $\text{Mg}_2\text{TiO}_4\text{:Mn}$

$\text{Mg}_2\text{TiO}_4\text{:Mn}$  deep red emitting phosphor was synthesized by a liquid phase synthesis using urea and PEG. The inhomogeneous and agglomeration of the particle decreased, and fine particle phosphor was obtained.  $\text{Mg}_2\text{TiO}_4$  phase was preferentially formed and observed at 658 nm and 670 nm under 450 nm excitation.