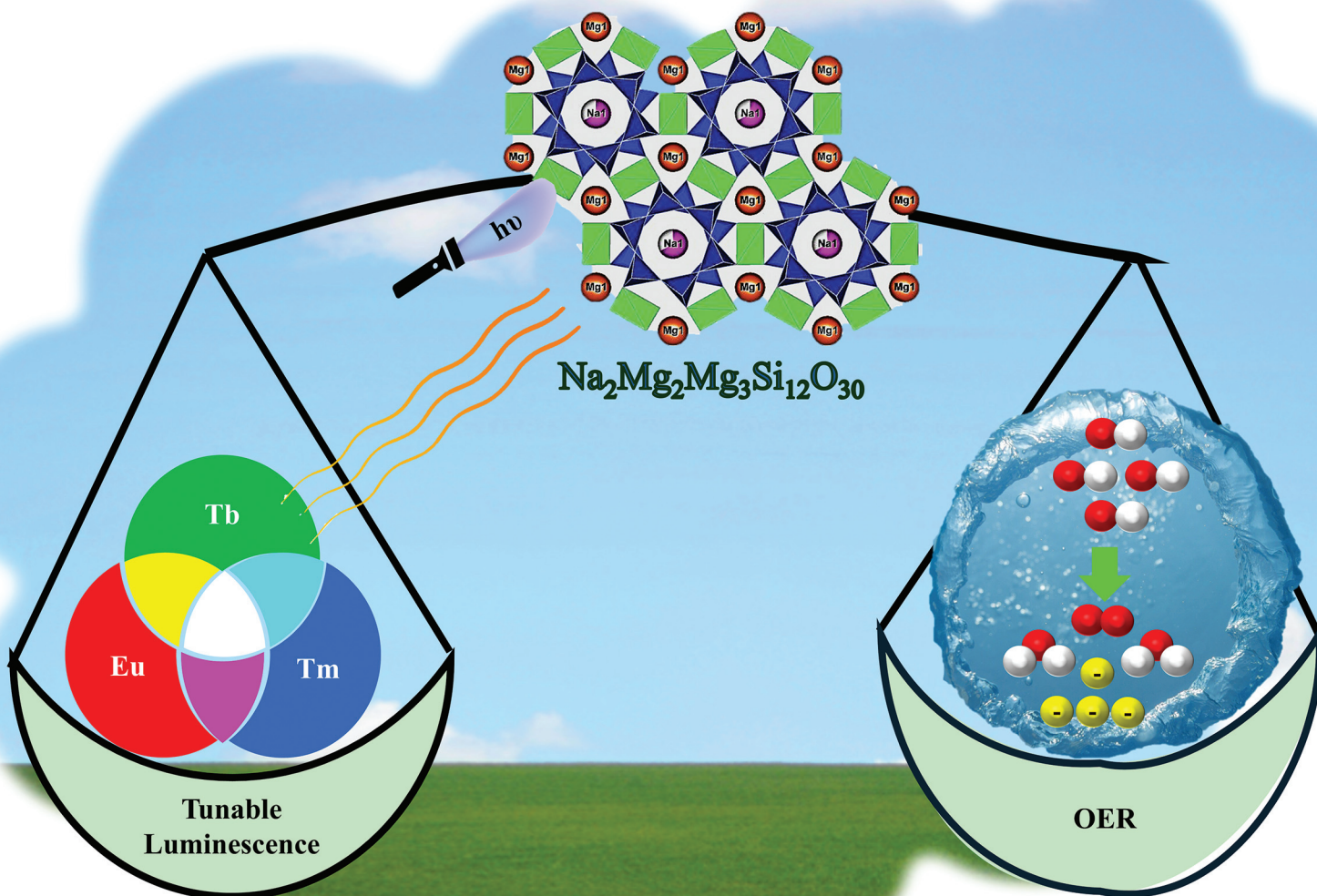


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## PAPER

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Exploring the milarite minerals,  $\text{Na}_2\text{Mg}_{5-x}\text{M}_x\text{Si}_{12}\text{O}_{30}$   
( $\text{M} = \text{Co}^{2+}, \text{Zn}^{2+}, \text{Ni}^{2+}, \text{Cu}^{2+}$ ) and  $\text{Na}_2\text{Mg}_{2.5}\text{Ca}_{0.5-x}\text{Ln}_x\text{Zn}_2\text{Si}_{12}\text{O}_{30}$   
( $\text{Ln} = \text{Eu}^{3+}, \text{Tm}^{3+}, \text{Tb}^{3+}$ ), towards new colored compounds,  
white light emission, and oxygen evolution reaction (OER)  
properties