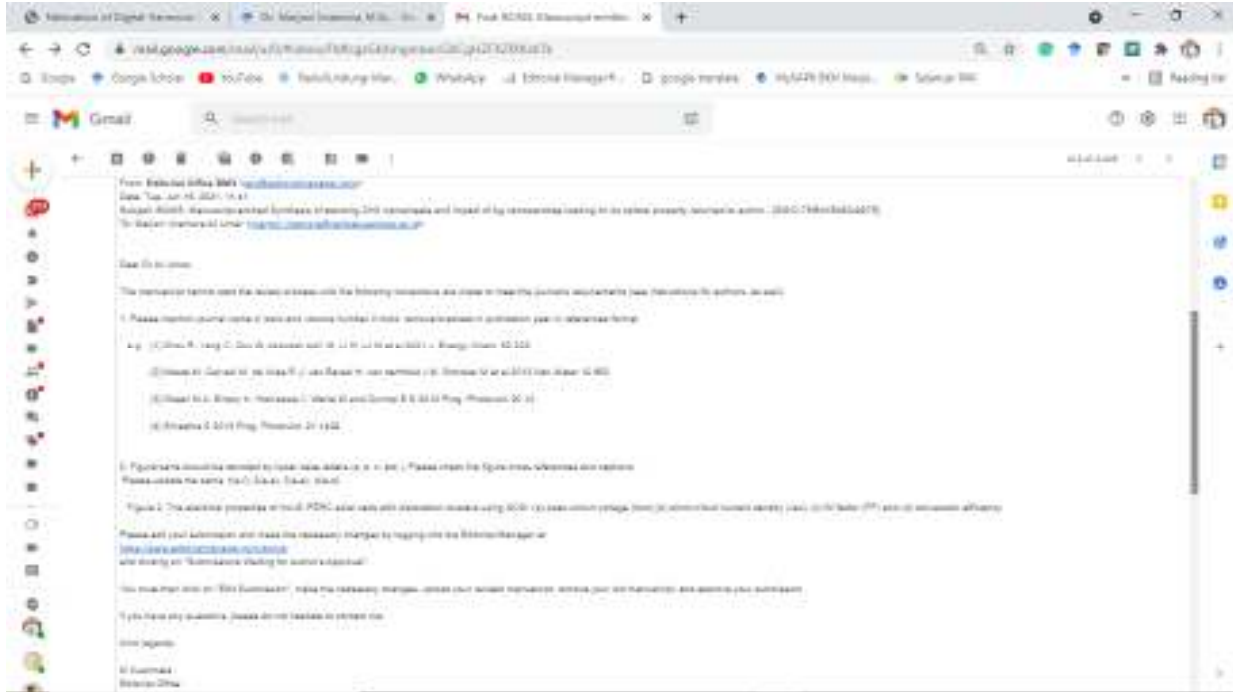
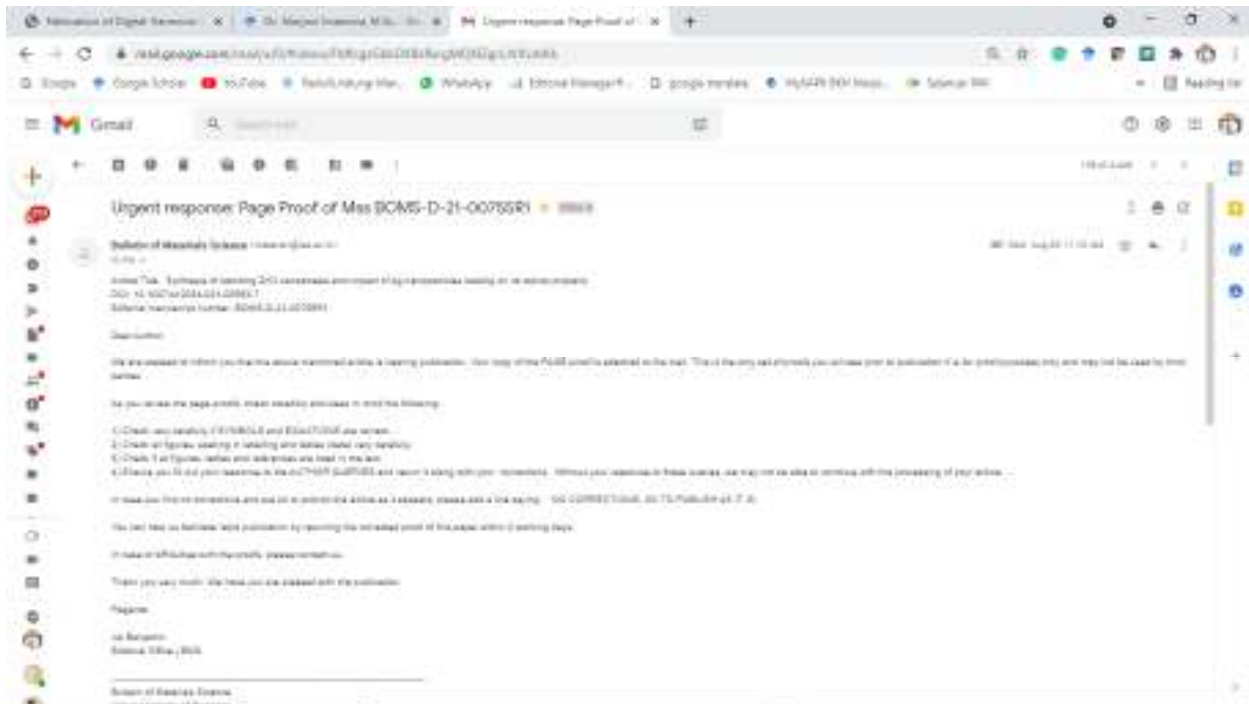


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### Synthesis of standing ZnO nanosheets and impact of Ag nanoparticles loading on its optical property

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**ABSTRACT.** Anisotropic nanostructures, such as nanosheets, nanowires, etc., in many cases, present superior physico-chemical properties over a highly symmetric structure counterpart. Here, we present a straightforward method to grow vertically oriented ZnO nanosheet arrays on flexible Au mesh substrates using a microwave-assisted aqueous hydrothermal method. We also found that the Ag nanoparticles loading on ZnO nanosheet arrays can effectively modify their optical properties, the potential for photocatalytic applications. (Due to the simplicity of the technique, it could be used to synthesize other nanostructures.)

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