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## Certificate

*It is here by certified that the paper ID : IJRASET72855, entitled  
Anisotropic Fracture Toughness Modeling in SiC-Whisker/ZrO<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub> Triple-Phase Composites:  
Integrating Transformation Toughening and Fiber Bridging Mechanisms*

*by  
Charitidis J. Panagiotis*

*after review is found suitable and has been published in  
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*By [Signature]*

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