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## Title: Special Issue of the 6<sup>th</sup> Brazilian Conference on Composite Materials – BCCM, Dedicated to Prof. Stephen W. Tsai

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Journal of  
Research  
Updates in  
Polymer Science

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### **Proposal**

Since its first edition in 2012, the Conference has congregated Brazilian and worldwide students, professors, and researchers from academia and industry to promote the recent developments and discuss the challenges in composite materials in Brazil and abroad. The 6<sup>th</sup> Brazilian Conference on Composite Materials (BCCM) was held between August 14 and 18, 2022 in Tiradentes (Minas Gerais, Brazil).

This special issue is dedicated to Prof. Stephen W. Tsai, who has devoted his career to research in composite materials. One of the most renowned composite engineers, he is known for the Tsai-Hill failure criterion, lamination parameters, the Tsai-Wu failure criterion and strength ratios, the Halpin-Tsai micromechanics model, trace, master ply, Omni envelopes and unit circle failure criterion, among others. He is still an emeritus professor at Stanford University, and his lifelong talent and mastery in the field have recently led to the development of the Double-Double composite manufacturing and design technique, the theme of his new book launched in 2022.

Articles presented in BCCM6 on polymer composites can be submitted to this Special Issue. The range of topics is comprehensive, including Damage and fracture; Simulations in composites; Multifunctional structures; Durability and ageing; Mechanical and physicochemical properties of composites; Nanocomposites; Recycling and reuse of composite materials; Experimental techniques; Lignocellulosic composites; Manufacturing and processing of composites; Structural health monitoring in composite structures.

**IMPORTANT DATES:**

Article submission date: 25th November 2022

Final accepted article date: 10th March 2023

Publication date: 14th April 2023

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