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Polymers for Circular Packaging Materials

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Message from the Guest Editors

Our permanently growing demand for packaging materials with a wide variety of different requirement profiles and the urgent necessity of circular material flows to preserve material and resource values are generating the crucial challenge of a consistent functional and circular use of polymers in packaging applications. The protective nature of the packaging requires using polymers in very different forms, ranging from natural or synthetic multilayer films to polymeric layers on natural fiber-based material or used as additives within base materials and functional layers. Each polymer is intended to add a certain function, but more than ever before, each component used in the packaging materials needs to be chosen with respect to its specific value or impact on material cycles after their first usage.

Within the material production, coating, and packaging processes, we expect that modeling and simulation techniques using analytical, numerical, or heuristic methods, including artificial intelligence, are needed to explain the origin of recognized phenomena, and we support their use and introduction within the submitted articles.













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Message from the Editor-in-Chief

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