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Prediction and Interpretation of Polymer Properties Using the Graph Convolutional Network

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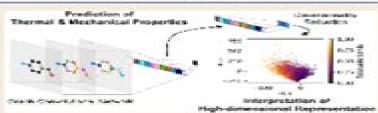
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Allocation of thermal and mechanical properties of polymers based on the graph convolutional network (GCN). GCN-based models provide reliable prediction performances for the glass transition temperature (T_a) , melting temperature (T_m) , density (μ) , and elastic modulus (E) with substantial dependence on the dataset, which is the best for T_a ($R^2 \sim 0.9$) and worst for E ($R^2 \sim$ 0.5). It is found that the GCN representations for polymers provide prediction performances of their properties comparable to the popular extended-connectivity circular fingerprint (ECFP) representation. Notably, the GCN combined with the neural network regression (GCN-NN) slightly outperforms the ECFP. It



is investigated how the GCN captures important structural features of polymers to learn their properties. Using the dimensionality reduction, we demonstrate that the polymers are organized in the principal subspace of the GCN representation spaces with respect to the backbone rigidity. The organization in the representation space adaptively changes with the training and through the NN layers, which might facilitate a subsequent prediction of target properties based on the relationships between the structure and the property. The GCN models are found to provide an advantage to automatically extract a backbone rigidity, strongly correlated with T_g as well as a potential transferability to predict other properties associated with a backbone rigidity. Our results indicate both the capability and limitations of the GCN in learning to describe polymer systems depending on the property.

KEVWORDS: machine learning, graph consolutional network, molecular featurization, backbone rigidity, polymer property proliction, neural network

1. INTRODUCTION

Machine learning (ML) has been influencing many facets of materials sciences and chemistry by providing powerful techniques of leveraging data, which enables rapid prediction of properties, the discovery of novel molecules, and the route of synthesis.1-2 An application of ML to polymer systems is promising because they exhibit interesting physical phenomena over extensive time and length scales in none-qualibrium glassy states for which experimental characterization and simulations are relatively coully and difficult.14 This indicates also the challenges in the application of ML because the power of ML hinges on a high-quality database." The promise of ML triggered a surge of studies on polymers to predict a range of physical properties with various learning algorithms, build a database of the prediction models,100 and to augment the polymer structure database.11 Also, the transfer learning and generative model were combined to overcome the problem of limited data such as thermal conductivity and to discover the novel polymers.112

ML models learn the complex patterns in data through the suitable representation of the data. The conventional molecular representation is a list of features hand-crafted based on domain knowledge for the quantitative structure—activity relationships. 11 On the other hand, extended-connectivity circular fingerprints (ECFPs) are widely used methods that exploit the graph structures of molecules to encode the presence of particular substructures of chosen scale into discrete bit vector representations. 12 Deep learning based approaches like the graph convolutional network (GCN) are the state of the art learning method for graph structured data and can be used to generate representations of molecules. 15 The GCN-based representation is promising compared to the hand-crafted descriptors or the ECFP representations because it can be optimized for data domains through the supervision. 17 Also, the GCN generates continuous representations

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Prediction Of Polymer Properties

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