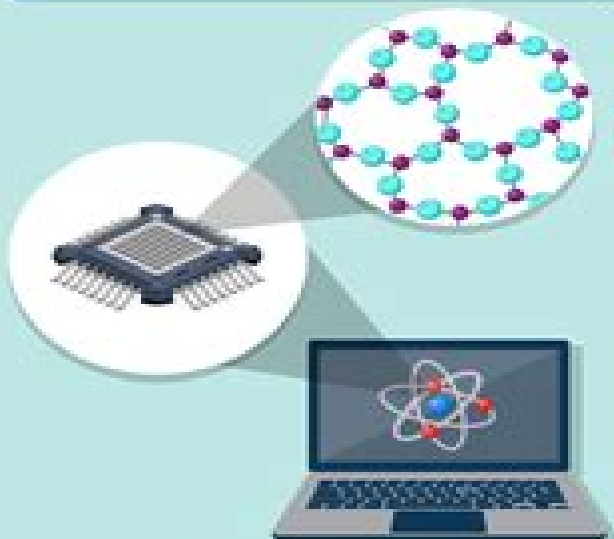


Using Artificial Intelligence for New Material Discovery

Materials
Advances



Amorphous alloys allow for lower deposition temperatures than crystalline materials, enabling complex transistor architecture



However, more techniques are needed to screen new materials' properties and gauge their practical suitability

? Can artificial intelligence help screen new amorphous materials?

Calculated properties of simple binary amorphous structures based on known crystals



Trained machine learning (ML) models to predict properties of complex oxides



Optimized an objective function to find ideal candidates in the full chemical space and validated these results



The ML model could predict the properties of amorphous oxides

Elements considered:

12
Mg

13
Al

14
Si

22
Ti

30
Zn

31
Ga

40
Zr

47
Ag

48
Cd

49
In

50
Sn

51
Sb

Zn-Mg-Al-O alloy was identified as a promising candidate material

Advantages of using this approach:

✓ Fast training

✓ Stable predictions

✓ Easy to use

✓ Customizable training dataset

This pipeline can be used for any alloy/compound discovery problem

ML and *ab-initio* methods can be combined to calculate pivotal materials properties and identify suitable materials for various applications

Development Of A New Material

Lingsheng Yao



Development Of A New Material:

Whispering the Secrets of Language: An Psychological Quest through **Development Of A New Material**

In a digitally-driven earth where monitors reign supreme and instant transmission drowns out the subtleties of language, the profound techniques and psychological nuances concealed within phrases often get unheard. Yet, nestled within the pages of **Development Of A New Material** a captivating fictional treasure sporting with natural emotions, lies an extraordinary journey waiting to be undertaken. Penned by an experienced wordsmith, this wonderful opus encourages viewers on an introspective trip, lightly unraveling the veiled truths and profound impact resonating within the material of each word. Within the psychological depths of the emotional evaluation, we shall embark upon a genuine exploration of the book is core subjects, dissect their charming writing type, and fail to the effective resonance it evokes deep within the recesses of readers hearts.

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