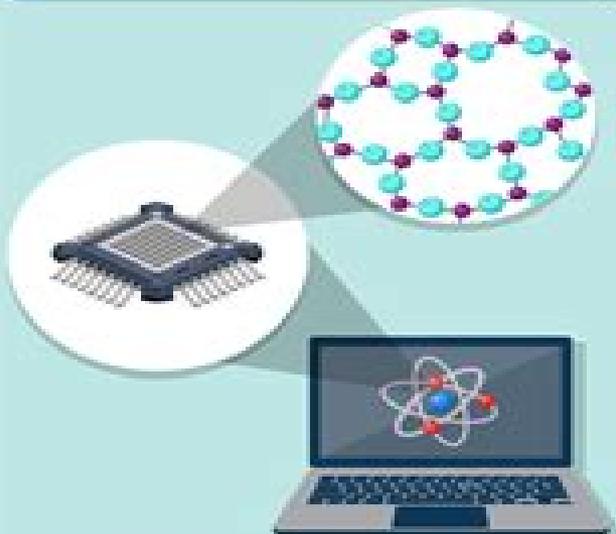


Using Artificial Intelligence for New Material Discovery

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

B Lingard



Development Of A New Material:

The Enigmatic Realm of **Development Of A New Material**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Development Of A New Material** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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