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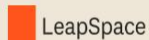
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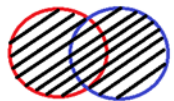
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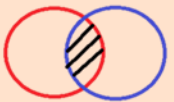
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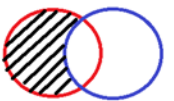
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有時為同義語的檢索



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“”

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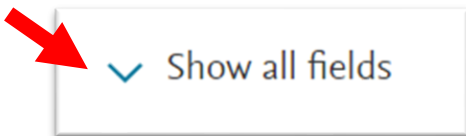
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Chemical Engineering Journal, 29 August 2023 期刊名稱

Ying Huang, Qian Wen, ... Haiyan Zhong 作者名稱

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Review

Machine learning applications in nanomaterials: Recent advances and future perspectives

Liang Yang, Hong Wang, Deying Leng, Shipeng Fang, Yanning Yang, Yurun Du [Show more](#) **作者**

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Highlights **文章重點**

- Highlighted the key role and important functions of machine learning in nanomaterials.

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Abstract

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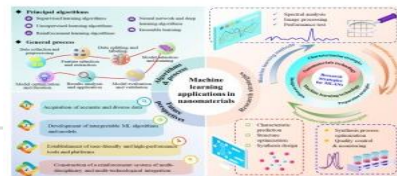
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Machine learning (ML) is an important branch of artificial intelligence (AI), involving disciplines such as statistics, algorithm optimization, approximation theory, probability theory, and convex analysis, and is key to achieving intelligence [12], [13]. The development of ML has gone through four stages: the initial germination period, the preliminary formation period, the rapid development period, and the vigorous growth period. From the original concept of “thinking machines” to today’s deep learning models, ML has gradually evolved into a powerful intelligent technology [14], [15]. Fig. 1 depicts the important milestones in the development of ML. ML can extract useful information from a large amount of data and predict future trends. In the field of nanomaterials, ML can be used for predicting material properties, optimizing material structures and designing material synthesis pathways. With ML, potential nanomaterials can be quickly screened and their performance predicted. This can greatly shorten the research and development cycle of

Materials Structure

In subject area: [Materials Science](#)

2D materials are defined as materials that can be exfoliated from bulk forms into single or few layers, exhibiting unique properties due to their layered or non-layered structures. These materials include layered compounds like graphene and transition metal dichalcogenides, as well as non-layered materials characterized by high surface activity and distinct electronic properties.

AI generated definition based on: [Nano Energy](#), 2020

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A. Rahman, P. Deshpande, M.S. Radue, G.M. Odegard, S. Gowtham, S. Ghosh, A.D. Spear

A machine learning framework for predicting the shear strength of carbon nanotube-polymer interfaces based on molecular dynamics simulation data

Composites Science and Technology, 207 (2021), Article 108627
<https://doi.org/10.1016/j.compscitech.2020.108627>

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P.L. Narayana, ..., N.S. Reddy

Environmental Research • Volume 199 • 2021 • Article 111370

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Review article

Accelerating the discovery and optimization of metal-organic framework materials via machine learning

Wang H., ..., Ning H.

Advances in Colloid and Interface Science • Volume 346 • 2025 • Article 103671

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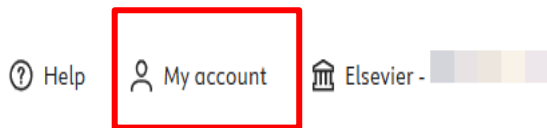
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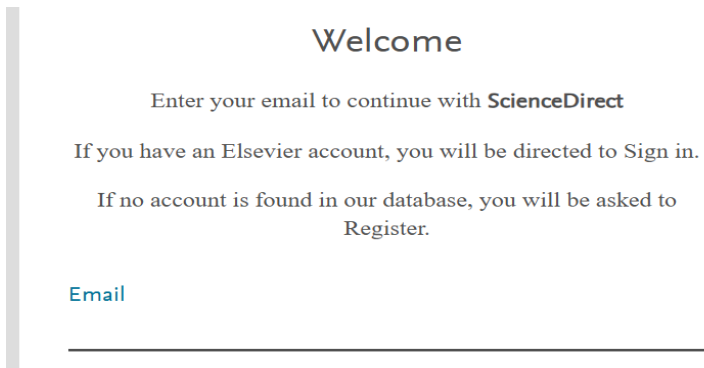
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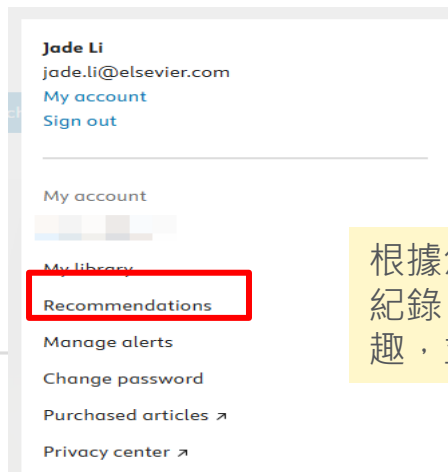
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