

Materials Square: A Cloud-based Materials Simulation Platform

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Abstract

Materials Square (www.matsq.com) is a cloud-based SaaS platform that facilitates the uptake and execution of materials and molecular atomistic simulations, for the benefit of more efficient R&D innovation and training by academic and industrial researchers alike. For achieving this, the Materials Square web-based simulation platform provides an intuitive graphical user interface, convenient modelling workflows and data management system, and affordable pay-as-you-go access to remote cloud computing providers like AWS. All this is ideally-suited for anyone willing to embrace materials science and chemistry simulations easily. Furthermore, Materials Square offers a user-friendly design for data visualization and analysis, a comprehensive set of machine learning tools, and a powerful 3D atomic structure-builder and modelling interface.

References

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