

# Digital Discovery

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See Alexander E. Siemann, Tonio Buonassisi *et al.*, pp. 896–909. Image reproduced by permission of Alexander E. Siemann and Matthew Siemann from *Digital Discovery*, 2025, 4, 896.



### Inside cover

See Ying Li *et al.*, pp. 910–926. Image reproduced by permission of Zoe Zhou and Tianle Yue from *Digital Discovery*, 2025, 4, 910.

## OPINION

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### Digital discovery and the new experimental frontier

S. Hessam M. Mehr

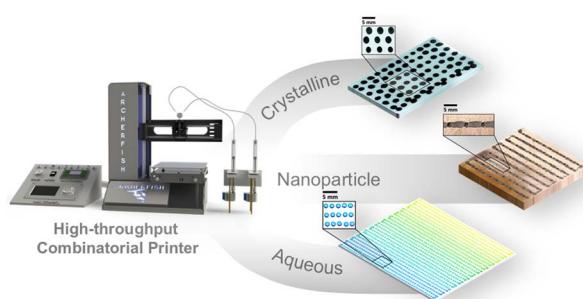


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### Archerfish: a retrofitted 3D printer for high-throughput combinatorial experimentation via continuous printing

Alexander E. Siemann,\* Basita Das, Eunice Aissi, Fang Sheng, Lleyton Elliott, Blake Hudspeth, Marilyn Meyers, James Serdy and Tonio Buonassisi\*



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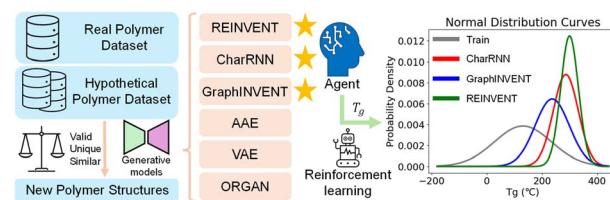


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**Benchmarking study of deep generative models for inverse polymer design**

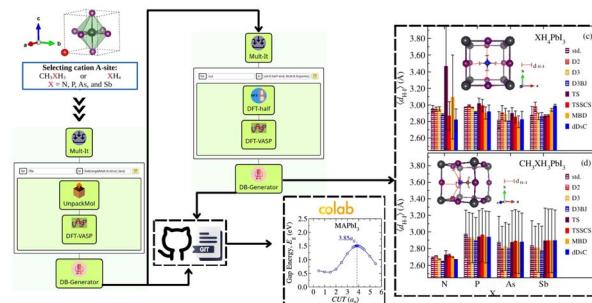
Tianle Yue, Lei Tao, Vikas Varshney and Ying Li\*



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**Digital workflow optimization of van der Waals methods for improved halide perovskite solar materials**

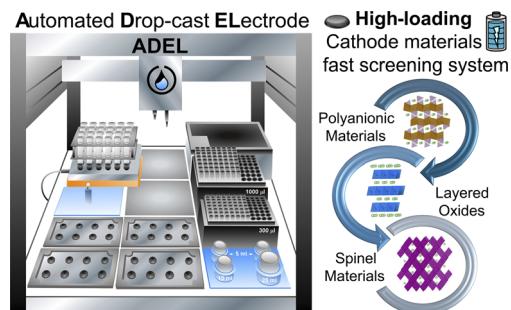
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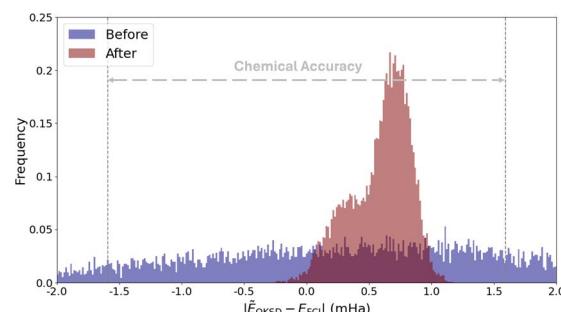
Maha Ismail, Maria Angeles Cabañero, Joseba Orive, Lakshmi Priya Musuvadhi Babulal, Javier Garcia, Maria C. Morant-Miñana, Jean-Luc Dauvergne, Francisco Bonilla, Iciar Monterrubio, Javier Carrasco, Amaia Saracibar and Marine Reynaud\*



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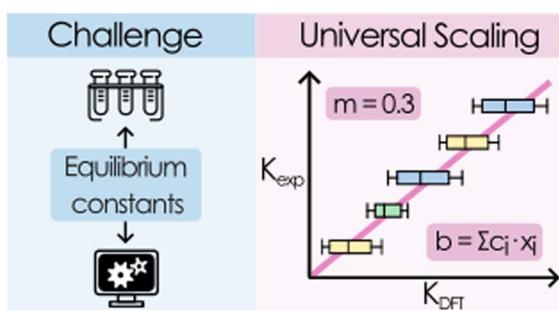
**Efficient strategies for reducing sampling error in quantum Krylov subspace diagonalization**

Gwonhak Lee, Seonghoon Choi, Joonsuk Huh\* and Artur F. Izmaylov\*



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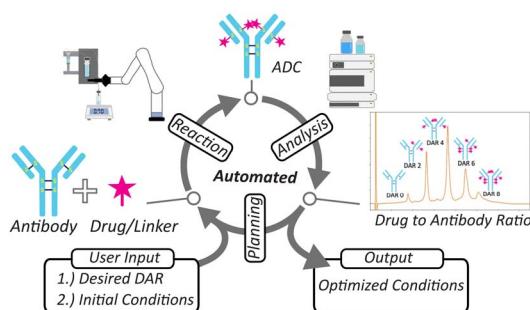
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## Towards a universal scaling method for predicting equilibrium constants of polyoxometalates

Jordi Buils, Diego Garay-Ruiz, Enric Petrus,\*  
Mireia Segado-Centellas and Carles Bo\*

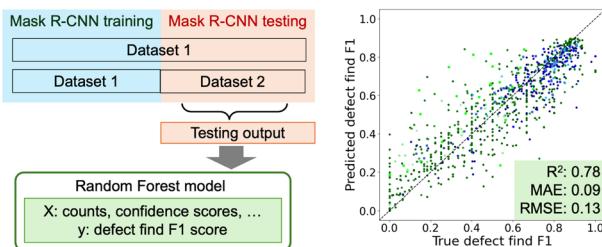
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## Automating stochastic antibody-drug conjugation: a self-driving lab approach for enhanced therapeutic development

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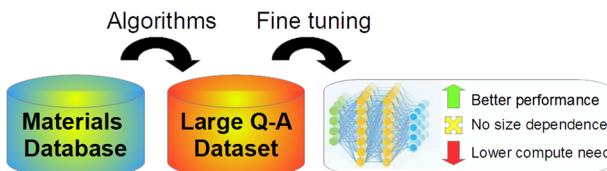
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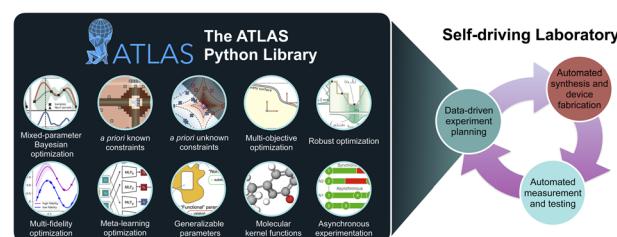


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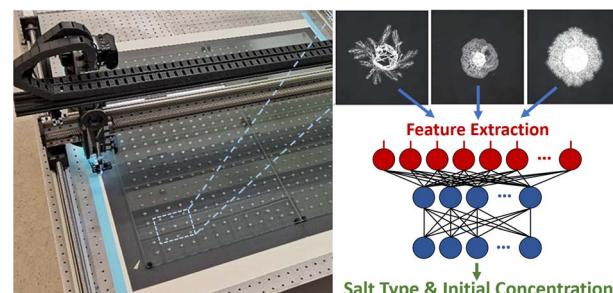
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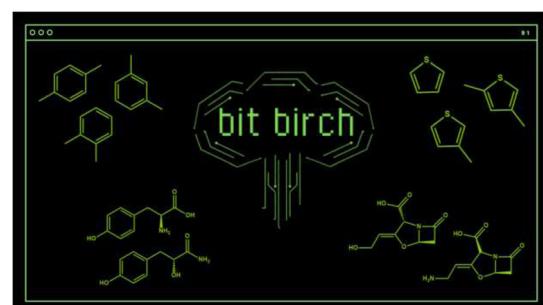
Bruno C. Batista, Amrutha S. V., Jie Yan, Beni B. Dangi and Oliver Steinbock\*



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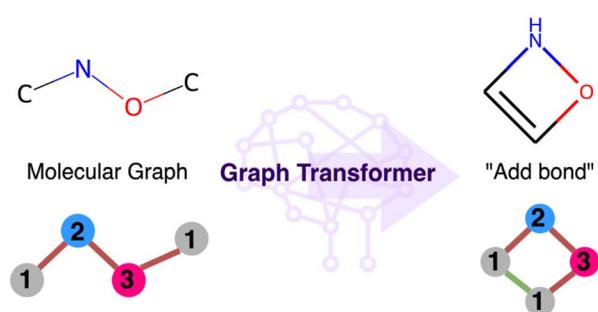
Kenneth López Pérez, Vicky Jung, Lexin Chen, Kate Huddleston and Ramón Alain Miranda-Quintana\*



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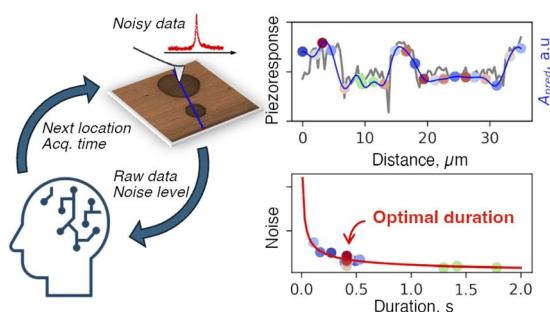
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Jonathan Pirnay, Jan G. Rittig, Alexander B. Wolf, Martin Grohe, Jakob Burger, Alexander Mitsos and Dominik G. Grimm\*



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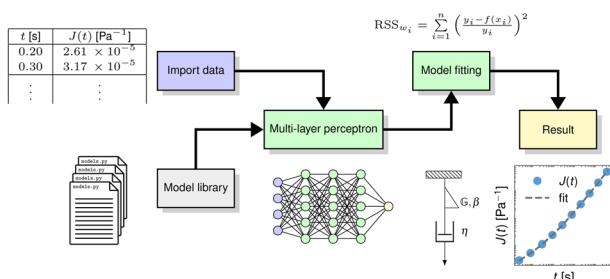
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Boris N. Slautin,\* Yu Liu, Jan Dec, Vladimir V. Shvartsman, Doru C. Lupascu, Maxim A. Ziatdinov and Sergei V. Kalinin\*

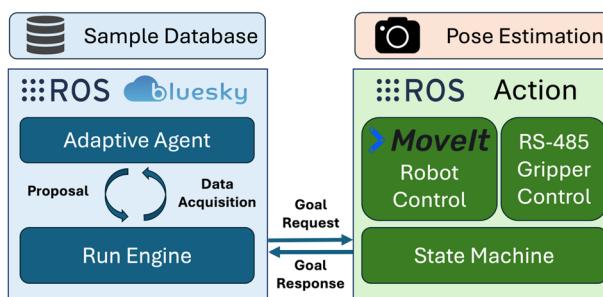
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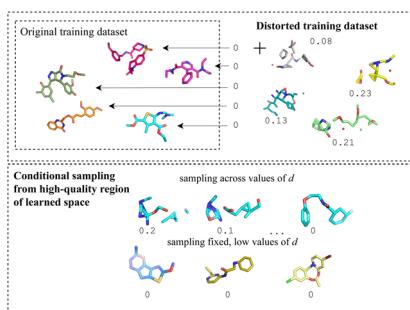
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