

TITLE

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Abstract

Here we pay tribute to the great accomplishments of Mr. Fukuda.

Introduction

Fukuda, who completed the program in the 2025 academic year, made significant contributions to advancing the research.¹

Methodology

Experimental

Sample Preparation

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Solid-State NMR

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Computational

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Development of MLP

Table 1 を説明する段落文章。

Table 1: TABLE caption

Label	Composition	D	T	N
30Zn	30ZnO-70P ₂ O ₅	0.97, 1.00, 1.03	300, 1000, 3000	18000
40Zn	40ZnO-60P ₂ O ₅	0.97, 1.00, 1.03	300, 1000, 3000	18000
50Zn	50ZnO-50P ₂ O ₅	0.97, 1.00, 1.03	300, 1000, 3000	18000
60Zn	60ZnO-40P ₂ O ₅	0.97, 1.00, 1.03	300, 1000, 3000	18000
70Zn	70ZnO-30P ₂ O ₅	0.97, 1.00, 1.03	300, 1000, 3000	18000

MLMD Simulation

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Results and Discussion

Validation of MLP

Text for the paragraph describing Fig 1.



Figure 1: CAPTION

Text for the paragraph describing Fig 2



Figure 2: CAPTION

^{31}P MAS NMR

Conclusions

In this study, ...

Acknowledgments

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Supporting Information

The Supporting Information is available free of charge.

- Model architecture, descriptor settings, and training hyperparameters used to construct the machine-learning potential (Table S1).
- Reference crystalline structures and the linear regression procedure used to calibrate GIPAW-calculated ^{31}P chemical shifts against experimental values (Fig. S1).
- Radial distribution functions used to determine the cutoff distances for defining Zn–O coordination environments and coordination numbers (Fig. S2).

Data Availability

The training data generated using VASP, along with the machine learning potential (MLP) constructed for use in MLMD simulations, and glass structures obtained by MLMD are available from the Zenodo data repository (DOI: [xxxxxx/zenodo.xxxxxxxx](https://doi.org/xxxxxx/zenodo.xxxxxxxx)).

Author Information

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References

- (1) Fukuda, K.; Utsuno, F.; Matsuo, A.; Ohkubo, T. Interface Effects on Crystal Growth and Li Ion Dynamics in Sulfide Glass-Ceramics. *J. Phys. Chem. C* **2025**, *129*, 6454–6465.

TOC Graphic

