



## Ruchika Mahajan

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### Bio

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#### STANFORD ADVISORS

- Thomas Jaramillo, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Comparative study of magnetic exchange parameters and magnon dispersions in NiO and MnO from first principles** *PHYSICAL REVIEW B*  
Dos Santos, F., Binci, L., Menichetti, G., Mahajan, R., Marzari, N., Timrov, I.  
2026; 113 (2)
- **A research database for experimental electrocatalysis: Advancing data sharing and reusability.** *The Journal of chemical physics*  
Mahajan, R., Aleman, A. M., Crago, C. F., Bhasker-Ranganath, S., Kreider, M. E., Zamora Zeledon, J. A., Schröder, J., Kamat, G. A., Hubert, M. A., Nielander, A. C., Jaramillo, T. F., Stevens, M. B., Voss, et al  
2025; 163 (12)
- **Pivotal Role of Intersite Hubbard Interactions in Fe-Doped  $\alpha$ -MnO<sub>2</sub>** *JOURNAL OF PHYSICAL CHEMISTRY C*  
Mahajan, R., Kashyap, A., Timrov, I.  
2022; 126 (30): 14353-14365
- **Importance of intersite Hubbard interactions in  $\beta$ -MnO<sub>2</sub>: A first-principles DFT plus *U* plus *V* study** *PHYSICAL REVIEW MATERIALS*  
Mahajan, R., Timrov, I., Marzari, N., Kashyap, A.  
2021; 5 (10)