POSTDOC POSITION AVAILABLE IN COMPUTATIONAL MATERIALS SCIENCE

A postdoctoral position is available at the Laboratory of Computational Chemistry and Biochemistry of the Swiss Federal Institute of Technology in Lausanne (EPFL), Switzerland.
The successful candidates will be involved in the development of classical and first-principles based, machine-learning enhanced multiscale simulations and their application to perovskite based photovoltaic materials.
The ideal candidate has a background in electronic structure theory and computations of periodic systems. The project is performed in close collaboration with the group of Michael Graetzel at EPFL and previous experience in interacting with experimental groups is a plus.

Prospective candidates are invited to contact:

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[1] J. Jeong, M. Kim, J. Seo, H.Z. Lu, P. Ahlawat, A. Mishra, Y.G. Yang, M.A. Hope, F.T. Eickemeyer, M. Kim, Y.J. Yoon, I.W. Choi, B.P. Darwich, S.J. Choi, Y. Jo, .H. Lee, B. Walker, S.M. Zakeeruddin, L. Emsley, U. Rothlisberger, A. Hagfeldt, D.S. Kim, M. Gratzel, and J.Y. Kim
Pseudo-halide anion engineering for α-FAPbI$_3$ perovskite solar cells
Nature (early access)**(2021)** 10.1038/s41586-021-03406-5

[2] H. Lu, Y. Liu, P. Ahlawat, A. Mishra, W. R. Tress, F.T. Eickemeyer, Y. Yang, F. Fu, Z. Wang, C.E. Avalos, B.I. Carlsen, A. Agarwalla, X. Zhang, X. Li, Y. Zhan, S.M. Zakeeruddin, L. Emsley, U. Rothlisberger, L. Zheng, A. Hagfeldt, and M. Graetzel
Vapor-assisted deposition of highly efficient, stable black-phase FAPbI$_3$ perovskite solar cells, Science, **370** (2020)