

Yedilfana Setarge Mekonnen - DTU Orbit (06/08/2016)

Mekonnen, Yedilfana Setarge

Center for Atomic-scale Materials Design - Former

Publications:

Computational Analysis and Design of New Materials for Metal-Air Batteries

Mekonnen, Y. S., Vegge, T., García Lastra, J. M. & Hummelshøj, J. S. 2015 DTU Energy. 143 p.

Publication: Research › Ph.D. thesis – Annual report year: 2015

Role of Li_2O_2 @ Li_2CO_3 Interfaces on Charge Transport in Nonaqueous Li-Air Batteries

Mekonnen, Y. S., García Lastra, J. M., Hummelshøj, J. S., Jin, C. & Vegge, T. 2015 In : The Journal of Physical Chemistry Part C: Nanomaterials, Interfaces and Hard Matter. 119, 32, p. 18066–18073 8 p.

Publication: Research - peer-review › Journal article – Annual report year: 2015

Communication: The influence of CO_2 poisoning on overvoltages and discharge capacity in non-aqueous Li-Air batteries

Mekonnen, Y. S., Knudsen, K. B., Mýrdal, J. S. G., Younesi, R., Højberg, J., Hjelm, J., Norby, P. & Vegge, T. 2014 In : Journal of Chemical Physics. 140, 5 p., 121101

Publication: Research - peer-review › Journal article – Annual report year: 2014

Combined DFT and DFT Study On the Role of CO_2 Poisoning On the Electronic Conduction and Overpotentials in Li-Air Batteries

Vegge, T., García Lastra, J. M., Højberg, J., Younesi, R., Mekonnen, Y. S., Mýrdal, J. S. G., Knudsen, K. B. & Norby, P. 2013 In : Electrochemical Society. Meeting Abstracts (Online). 9, p. 412-412 MA2013-02

Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2013

DFT Study On Effects of CO_2 Contamination in Non-Aqueous Li-Air Batteries

Mekonnen, Y. S., Mýrdal, J. S. G. & Vegge, T. 2013 In : Electrochemical Society. Meeting Abstracts (Online). MA2013-02, 8, p. 20591-20591

Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2013

The Influence of CO_2 Poisoning on Overvoltages and Discharge Capacity in Non-aqueous Li-Air Batteries

Mekonnen, Y. S., Knudsen, K. B., Mýrdal, J. S. G., Younesi, R., Højberg, J., Hjelm, J., Norby, P. & Vegge, T. 2013

Publication: Research › Poster – Annual report year: 2013

Projects:

Computational analysis and design of new materials for lithium-air batteries

Mekonnen, Y. S., Vegge, T., Garcia-Lastra, J. M., Hummelshøj, J. S., Blanchard, D., Rossmeisl, J. & Siegel, D. J. 01/08/2012 → 02/12/2015

Project: PhD