

**Name:** Mejd Almheiri

**Academic Rank:** Assistant Professor

**E-mail:** [malmheiri@sharjah.ac.ae](mailto:malmheiri@sharjah.ac.ae)

**Tel:** +971-65166723

**Specialization:** Materials Science

**Research interests**

Solar Cells

**Recent Publications**

1. Lin, Q., Senanayak, S.P., Yaghoobi Nia, N., Alsari, M., Lilliu, S. and Abdi-Jalebi, M. (2023), Impact of A-Site Cation Modification on Charge Transport Properties of Lead Halide Perovskite for Photovoltaics Applications. *Energy Technol.* 2300358. <https://doi.org/10.1002/ente.202300358>.
2. T. W. Jones, A. Osherov, M. Alsari, M. Sponseller, B. C. Duck, Y.-K. Jung, et al., Lattice strain causes non-radiative losses in halide perovskites, *Energy & Environmental Science* (2019), <https://doi.org/10.1039/C8EE02751J>.
3. Baodan Zhao, Sai Bai, Vincent Kim, Robin Lamboll, Ravichandran Shivanna, Florian Auras, Johannes M Richter, Le Yang, Linjie Dai, Mejd Alsari, Xiao-Jian She, Lusheng Liang, Jiangbin Zhang, Samuele Lilliu, Peng Gao, Henry J Snaith, Jianpu Wang, Neil C Greenham, Richard H Friend, Dawei Di, High-efficiency perovskite-polymer bulk heterostructure light-emitting diodes, *Nature Photonics* (2018), <https://doi.org/10.1038/s41566-018-0283-4>.
4. Mojtaba Abdi-Jalebi, Meysam Pazoki, Bertrand Philippe, M Ibrahim Dar, Mejd Alsari, Aditya Sadhanala, Giorgio Divitini, Roghayeh Imani, Samuele Lilliu, Jolla Kullgren, Håkan Rensmo, Michael Grätzel, Richard H Friend, Dedoping of lead halide perovskites incorporating monovalent cations, *ACS Nano* (2018), <https://doi.org/10.1021/acsnano.8b03586>.
5. Mejd Alsari, Andrew J Pearson, Jacob Tse-Wei Wang, Zhiping Wang, Augusto Montisci, Neil C Greenham, Henry J Snaith, Samuele Lilliu, Richard H Friend, Degradation kinetics of inverted perovskite solar cells, *Scientific Reports* (2018), <https://doi.org/10.1038/s41598-018-24436-6>.
6. Mojtaba Abdi-Jalebi, Zahra Andaji-Garmaroudi, Stefania Cacovich, Camille Stavarakas, Bertrand Philippe, Johannes M Richter, Mejd Alsari, Edward P Booker, Eline M Hutter, Andrew J Pearson, Samuele Lilliu, Tom J Savenije, Håkan Rensmo, Giorgio Divitini, Caterina Ducati, Richard H Friend, Samuel D Stranks, Maximizing and stabilizing luminescence from halide perovskites with potassium passivation, *Nature* (2018), <https://doi.org/10.1038/nature25989>.
7. Mejd Alsari, Oier Bikondoa, James Bishop, Mojtaba Abdi-Jalebi, Lütfiye Y Ozer, Mark Hampton, Paul Thompson, Maximilian T Hörantner, Suhas Mahesh, Claire Greenland, J Emyr Macdonald, Giovanni Palmisano, Henry J Snaith, David G Lidzey, Samuel D Stranks, Richard H Friend, Samuele Lilliu, In situ simultaneous photovoltaic and structural evolution of perovskite solar cells during film formation, *Energy & Environmental Science* (2017), <https://doi.org/10.1039/C7EE03013D>.
8. Luis M Pazos-Outón, Monika Szumilo, Robin Lamboll, Johannes M Richter, Micaela Crespo-Quesada, Mojtaba Abdi-Jalebi, Harry J Beeson, Milan Vručinić, Mejd Alsari, Henry J Snaith, Bruno Ehrler, Richard H Friend, Felix Deschler, Photon recycling in lead iodide perovskite solar cells, *Science* (2016), <https://doi.org/10.1126/science.aaf1168>.

