

## **Publications List – Avraham Bar-Hen**

### Peer reviewed journals

1. **Avraham Bar-Hen**, Celine Bounioux, Estefania Gonzales Solveyrab, Igal Szliefer and Rachel Yerushalmi-Rozen "The role of steric interactions in dispersion of carbon Nanotubes by poly(3-alkyl thiophenes) in organic solutions". Journal of colloid and interface science 452 (2015): 62-68.
2. Celine Bounioux, **Avraham Bar-Hen** and Rachel Yerushalmi Rozen. "Salting-in effect organic dispersions of poly(3-alkyl thiophenes)-carbon Nanotubes". Chemical communications 51.29 (2015) 6343-6345.
3. Ronen Bar-Ziv, Priyadarshi Ranjan, Anna Lavie, Akash Jain, Somenath Garai, **Avraham Bar-Hen**, Ronit Popovitz-Biro, Reshef Tenne, Raul Arenal, Ashwin Ramasubramaniam, Luc Lajaunie and Maya Bar-Sadan, "Au@MoS<sub>2</sub> hybrids as Hydrogen Evolution Electrocatalysts", Acs Applied Energy Materials 2.8 (2019), 6043-6050.
4. **Avraham Bar-Hen**, Ronen Bar-Ziv, Tzion Ohaion Raz, Amir Mizrahi, Hettler Simon, Raul Arenal and Maya Bar-Sadan " Shelling with MoS<sub>2</sub> - Cu@MoS<sub>2</sub> Hybrids: Bifunctional Electro-catalysts for the Oxygen Reduction and Hydrogen Evolution Reactions", Chemical engineering Journal 2021, 420: 129771.

### Conference proceedings

### Chapters in books

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### Oral presentations

1. Avraham Bar-Hen, Ronen Bar-Ziv, Simon Hettler, Raul Arenal and Maya Bar-Sadan, "Hybrid nanostructures of metal NPs@MoS<sub>2</sub> catalytic activity towards the hydrogen evolution reaction", 'Flatlands beyond graphene', Toulouse, France, 2019.

### Posters

1. Avraham Bar-Hen, Ronen Bar-Ziv, Simon Hettler, Raul Arenal and Maya Bar-Sadan, " Hybrid nanostructured of Ag NPs@MoS<sub>2</sub> – growth mechanism and catalytic activity towards the Hydrogen Evolution Reaction", The 83th annual meeting of the Israel Chemical Society, Tel Aviv, Israel, 2019.
2. Avraham Bar-Hen, Ronen Bar-Ziv, Simon Hettler, Raul Arenal and Maya Bar-Sadan, "Hybrid nanostructures of metal NPs@MoS<sub>2</sub> catalytic activity towards the hydrogen evolution reaction", 'Flatlands beyond graphene', Toulouse, France, 2019.
3. Avraham Bar-Hen, Ronen Bar-Ziv, Tzion ohaion-Raz, Amir Mizrahi, Simon Hettler, Raul Arenal and Maya Bar-Sadan, "Cu@MoS<sub>2</sub> Hybrids: Bifunctional Electro-catalysts for the Oxygen Reduction and

Hydrogen Evolution Reactions" , The 85th annual meeting of the Israel Chemical Society, Jerusalem, Israel, 2020.