

Presentations

Conferences (only formal)

- **34th European Conference on Surface Science (ECOSS-34)**
Aarhus, Denmark, 2018
Probing Enantioselective Processes on Chirally-Modified Model Systems
- **33rd European Conference on Surface Science (ECOSS-33)**
Szeged, Hungary, 2017
Enantioselective Reactions on Chirally-Modified Model Surfaces: A New Molecular Beam/Surface Spectroscopy Apparatus
EPS Poster Prize
- **82nd Meeting of the Israel Chemical Society (ICS-82) & 6th Angewandte Symposium**
Tel-Aviv, Israel, 2017
Enantioselective Reactions on Chirally-Modified Model Surfaces: A New Molecular Beam/Surface Spectroscopy Apparatus
First ICS Prize for an excellent poster
- **Gordon Research Conference on Chemical Reactions at Surfaces (GRC)**
Lucca, Italy, 2017
Enantioselective Reactions on Chirally-Modified Model Surfaces: A New Molecular Beam/Surface Spectroscopy Apparatus
- **Gordon Research Seminar on Chemical Reactions at Surfaces (GRS)**
Lucca, Italy, 2017
Enantioselective Reactions on Chirally-Modified Model Surfaces: A New Molecular Beam/Surface Spectroscopy Apparatus
- **79th Meeting of the Israel Chemical Society (ICS-79)**
Tel-Aviv, Israel, 2014
The Thermal Decomposition of Lanthanide Thiocyanate Based Ionic Liquids
- **78th Meeting of the Israel Chemical Society (ICS-78)**
Tel-Aviv, Israel, 2013
Design of Electron Exchange Columns
- **40th International Coordination Chemistry Conference (ICCC)**
Valencia, Spain, 2012
Design of Electron Exchange Columns
- **8th International Symposium of Surface Heterogeneity in Adsorption and Catalysis (ISSHAC-8)**
Krakow, Poland, 2012
Solid-Solis Oxygen Exchange: a New Route of Isotopic Exchange in Crystalline Hydrate
- **4th European Chemistry Congress (EUCHEMS)**
Prague, Czech Republic, 2012
A Novel Immobilized Ni Complex on a Silica Support. A Spectroscopical and Electrochemical Study
- **77th Meeting of the Israel Chemical Society (ICS-77)**
Ramat-Gan, Israel, 2012
A novel Immobilized Ni Complex on a Silica Support. A Spectroscopical and Electrochemical Study

Publications

- **Tuning the strength of molecular bonds in oxygenates via surface-assisted intermolecular interactions: atomistic insights.**
C. Schroeder, M.C. Schmidt, C. Witt, S. Attia, J. Weber, A.-Katrin Baumann, B. Hartke, S. Schauer mann
Submitted to J.Phys. Chem. C
- **Temperature-Dependent Formation of Acetophenone Oligomers Accompanied by Keto–Enol Tautomerism: Real Space Distribution**
M. C. Schmidt, S. Attia, C. Schröder, A.-Katrin Baumann, P. Pessier and S. Schauer mann.
J. Phys. Chem. C 124 (26), 14262-14271 (2020). <https://doi.org/10.1021/acs.jpcc.0c04343>
- **Adsorption geometry and self-assembling of chiral modifier (R)-(+)-1-(1-naphthylethylamine) on Pt(111).**
S. Attia, E. J. Spadafora, M. C. Schmidt, C. Schröder, A.-Katrin Baumann and S. Schauer mann.
Phys. Chem. Chem. Phys. 22, 15696-15706 (2020). <https://doi.org/10.1039/D0CP01946A>
- **Coverage-dependent adsorption geometry of acetophenone on Pt(111).**
S. Attia, S. Schauer mann.
J. Phys. Chem. C 124 (1), 557-566 (2020). <https://doi.org/10.1021/acs.jpcc.9b09228>
- **Keto-enol tautomerization as a first step in hydrogenation of carbonyl compounds.**
S. Attia, M. C. Schmidt, C. Schröder, J. Weber, A.-Katrin Baumann, S. Schauer mann.
J. Phys. Chem. C 123 (48), 29271-29277 (2019). <https://doi.org/10.1021/acs.jpcc.9b10181>
- **Formation and stabilization mechanisms of enols on Pt through multiple hydrogen bonding.**
S. Attia, M. C. Schmidt, C. Schröder, S. Schauer mann.
ACS Catal., 9(8), 6882-6889 (2019). <https://pubs.acs.org/doi/10.1021/acscatal.9b01481>
- **Molecular beam/infrared reflection-absorption spectroscopy apparatus for probing heterogeneously catalyzed reactions on functionalized and nanostructured model surfaces.**
S. Attia, E. J. Spadafora, J. Hartmann, H.-J. Freund, S. Schauer mann.
Rev. Sci. Instrum. 90, 053903 (2019). <https://aip.scitation.org/doi/pdf/10.1063/1.5093487?class=pdf>
- **Surface-driven keto–enol tautomerization: atomistic insights into enol formation and stabilization mechanisms.**
S. Attia, M. C. Schmidt, C. Schröder, P. Pessier, S. Schauer mann.
Angew. Chem. Int. Ed. 57 (51), 16659-16664 (2018). <https://onlinelibrary.wiley.com/doi/full/10.1002/anie.201808453>
- **The interaction of CO₂ with CeO₂ powder explored by correlating adsorption and thermal desorption analyses.**
D. Schweke, S. Zalkind, S. Attia, J. Bloch,
J. Phys. Chem. C, 122, 18, 9947-9957 (2018) <https://pubs.acs.org/doi/pdf/10.1021/acs.jpcc.8b01299#>
- **Selective partial hydrogenation of acrolein on Pd: a mechanistic study.**
K.-H. Dostert, C.P. O'Brien, F. Mirabella, F. Ivars-Barcelo, S. Attia, E. Spadafora, S. Schauer mann, H.-J. Freund
ACS Catal., 7, 5523-5533 (2017) <https://pubs.acs.org/doi/pdf/10.1021/acscatal.7b01875>
- **Oxidation mechanism of porous Zr₂Fe used as a hydrogen getter**
D. Cohen, M. Nahmani, G. Rafailov, S. Attia, Z. Shamish, M. Landau, J. Merchuk, Y. Zeiri
Appl. Radiat. 107, 47-56 (2016) <http://www.sciencedirect.com/science/article/pii/S0969804315301895>
- **Elucidating the role of stable carbon radicals in the low temperature oxidation of coals by coupled EPR-NMR spectroscopy - a method to characterize surfaces of porous carbon materials**
U. Green, K. Adamsky, S. Attia, Z. Aizenshtat, G. Goobes, S. Rubinshtein, H. Cohen
Phys. Chem. Chem. Phys. 16, 9364-9370 (2014) <http://pubs.rsc.org/en/content/articlepdf/2014/cp/c4cp00791c>
- **Covalent binding of a nickel macrocyclic complex to a silica support: towards an electron exchange column**
S. Attia, A. Shames, I. Zilbermann, G. Goobes, E. Maimon, D. Meyerstein
Dalton Trans. 43,103-110 (2014) <http://pubs.rsc.org/en/content/articlepdf/2014/DT/C3DT51962G>
- **The role of the cation in the oxygen isotopic exchange in crystalline sulphate salt hydrates**
S. Attia, L. Hevroni, A. Danon, D. Meyerstein, J. E. Koresh, Y. Finkelstein
ADSORPTION 19 (2), 821-833 (2013) <http://link.springer.com/article/10.1007%2Fs10450-013-9525-4>