

Orit Cohen Ph.D.

Organic and Material Chemist

Information:

Year of birth: 1988
Address: Shimoni 15 / 8, Jerusalem 9262317
054-8116129 orit.cohen@mail.huji.ac.il
Nationality: Israel, Switzerland

experience:

2021- present Research and student laboratory managing at the Hebrew University of Jerusalem (HUJI)
2021 Research at Professor Lioz Etgar group at HUJI
2019- 2020 Research and laboratory managing at Professor Michael S. Silverstein laboratory, department of Material Science and Engineering, Technion
2009- 2010 Research at Professor Joseph Almog's laboratory, Casalie institute, HUJI
Summer 2009 A joint project of Professor Joseph Almog's laboratory (Casalie institute HUJI) and the Forensic department, Israel Police
Summer 2007 Apprentice at ROCHE Pharmaceutical, Basel, Switzerland, Laboratory of Molecular Biology

Teaching experience:

2012- 2017 Teaching assistant in fundamental organic laboratory for chemical and biological sciences student, HUJI
2011- 2017 Teaching assistant in fundamental and advance synthesis laboratory for chemistry student, HUJI
2010- 2017 Chemistry workshops for high-school children at the Belmonte Science Laboratory Center, HUJI

Instrumentation and methods:

NMR, IR, SEM, HR-SEM, Polarimeter, flash chromatography, GC-MS, glovebox, high pressure lab autoclaves, spectrophotometer, spin coating, HPLC

Familiar with:

EDX, DLS, BET, TGA, DSC, solar IV tester, CD and ORD-E

Education:

2018- 2019 Postdoctoral associate at Dr. Yuri Tulchinsky laboratory, HUJI
Research on positively charged ligands based on sulfur compounds
2012- 2018 Ph.D in Chemistry under the supervision Professor Dmitri Gelman, HUJI
Research (thesis) on: "Synthesis, characterization and investigation of new chiral organosilica materials via sol-gel process, starting from new enantiopure organosilane precursors"
2010- 2012 M.Sc. in Chemistry under the supervision of Professor Dmitri

Gelman, HUJI
Research (thesis) on: "Toward new asymmetric C(sp³)-metalated pincer complexes"
2007- 2010 B.Sc. in chemical and biological sciences at HUJI

Languages:

Hebrew- fluent, reading and writing

English- fluent, reading and writing

French- mother tongue, reading

Note: recommendations will be provided upon request

Publications:

Avraham L., Sanguramath R., Cohen O., Perry L., Levenberg S. and Silverstein M., Polysaccharide-Based, Emulsion-Templated, Porous Poly(urethane urea)s: Composition, Catalysis, Cell growth, submitted

Horowitz R., Lamson M., Cohen O., Fu T.F., Cuthbert J., Matyjaszewski K., and Silverstein M. S., Highly efficient and tunable mikroarm stars for HIPE stabilization and polyHIPE synthesis, *Polymer*, 2021, 217, 123444

Benaddi A. O.¹, Cohen O.¹, Matyjaszewski K., and Silversteina M. S. RAFT polymerization within high internal phase emulsions: Porous structures, mechanical behaviors, and uptakes, *Polymer*, 2021, 213, 123327. ¹These authors contributed equally

Cohen O., Avnir D. and Gelman D., Optical rotation kinetics study of the polycondensation of chiral sol-gel precursors, *J. Sol-Gel Sci. Technol.* 2018, online version.

Cohen O., Ferris A. J., Adkins R., Lemieux R. P., Avnir D., Rosenblatt C. and Gelman D., Chiral organosilica particles and their use as inducers of conformational deracemization of liquid crystal phases, *Chem. Phys. Lett.*, 2018, 696, 112-118

Cohen O., Abu-Reziq R. and Gelman D., Chiral enantiopure organosilane precursors for the synthesis of periodic mesoporous organosilicas, *Tetrahedron: Asymmetry*, 2017, 28, 1675–1685

Cohen, O.; Grossman, O.; Vaccaro L.; Gelman D., Synthesis of chiral nonracemic PC(sp³)P pincer ligands, *J. Organomet. Chem.*, 2014, 750, 13-16

Bengiat R., Gil M., Klein A., Cohen O., Bogoslavsky B., Cohen S., Dubnikova F., Almog J., Vasarene and vasarene-analogues: synthesis and characterization of self-assembled, voluminous ligands with specific affinity to M⁺F⁻ ion-pairs, *Tetrahedron*, 2016, 72, 2429-2439

