Publications List – Avner Cohen

Peer reviewed journals

1. Multi-Group Discontinuous Asymptotic P_1 Approximation In Marshak Waves Experiments, **A. P. Cohen**, and Shay I. Heizler, *JQSRT*, **272,** 107822 (2021).
2. Key to understanding supersonic radiative Marshak waves using simple model and advanced simulations **A.P. Cohen**, G. Malamud and S. I. Heizler *Phys. Rev. Research* **2**, 023007 (2020).
3. The Discontinouos Asymptotic Telegrapher's Equation (P1) Approximation **A. P. Cohen**, and Shay I. Heizler, *Nuclear Science and Engineering*, **192**, 189 (2018).
4. Modeling of Supersonic Radiative Marshak waves using Simple Models and Advanced Simulations, **A. P. Cohen**, and Shay I. Heizler *JCTT*, **47**, 378 (2018).
5. Photo-crosslinkable colloidal: from fluids structure and dynamics of spheres to suspensions of ellipsoids, **A. P. Cohen**, M. Alesker, A. B. Schofield, D. Zitoun and E. Sloutskin, *Gels*, **2**, 29 (2016).
6. Dipolar colloids in a polar media: direct microscopy of two-dimensional suspensions. E. Janai, **A. P. Cohen**, A. Butenko, A. B. Schofield M. Schultz and E. Sloutskin, *Scientific Reports*, **6**, 28578 (2016).
7. Structural transition in a fluid of spheroids: a low-density vestige of jamming, **A. P. Cohen**, S. Dorosz, A. B. Schofield, T. Schilling and E. Sloutskin, *Phys. Rev. Lett.* **116,** 098001 (2016).
8. Structural and interactions in fluids of prolate colloidal ellipsoids: Comparison between experiment, theory and simulations. **A. P. Cohen**, E. Janai, D. C. Rapaport, A. B. Schofield and E. Sloutskin, *J. Chem. Phys.* **137**, 184505 (2012)
9. Fluids suspensions of colloidal ellipsoids: direct structural measurements. **A. P. Cohen**, E. Janai, E. Mogilko, A. B. Schofield and E. Sloutskin, *Phys. Rev. Lett.* **107,** 238301 (2011).

Oral presentations

1. Radiative Marshak waves experiments via the discontinuous asymptotic P1 approximation, IPS, 20201 (talk).

2. The key to understanding supersonic radiative marshak waves

DPP, Portland, 2018 (talk).

3. Fluids of colloidal ellipsoids: trading free volume for freedom of rotation, BIU-WIS UCMRS Materials Science Student Conference, 2014 (talk).

4. Fluids of colloidal ellipsoids: trading free volume for freedom of rotation, The annual meeting of Israel Physical Society, Hebrew University, Israel, 2012 (talk).

5. Fluids suspensions of colloidal ellipsoids: direct structural measurements, The annual meeting of Bar-Ilan Institute of Nanotechnology and Advanced Materials, Israel, 2011 (talk).

Posters

1. Fluids of colloidal ellipsoids: trading free volume for freedom of rotation, Workshop on dynamics in viscous liquids 4, Montpellier 2015 (poster).

2. Fluids of colloidal ellipsoids: trading free volume for freedom of rotation, The International Soft Matter Conference, Rome, 2013 (poster).

3. Fluids of colloidal ellipsoids: trading free volume for freedom of rotation, Batsheva de Rothschild Seminar on Soft Matter and Biophysics, Ein-Bokek, Israel, 2013 (poster).

4. Fluids suspensions of colloidal ellipsoids: direct structural measurements, The annual meeting of Israel Physical Society, Tel-Aviv University, Israel, 2010 (poster).