with J.B. Keller and J. Rubinstein).
- On the connectivity of boundaries of sets minimizing perimeter subject to a volume constraint, Comm. Anal. and Geom. 7, 1999, 229-250. (Joint with Kevin Zumbrun)
- Phase transition curves for mesoscopic superconducting samples, Phys. Rev. Let. 82, no. 14, 1999, 2935-2938 (Joint with Hala Jadallah and Jacob Rubinstein)


- The onset problem for a thin superconducting loop in a large magnetic field, Asymptotic Analysis, 48, no. 1-2, 2006, 55-76 (Joint with Tien-Tsan Shieh).
- Bifurcation diagram and pattern formation of phase slip centers in superconducting wires driven with electric currents, Phys. Rev. Let., 99, 167003, 2007 (Joint with Qingfeng Ma and Jacob Rubinstein).
- On the behavior of a superconducting wire subjected to a constant voltage difference, SIAM J. Applied Math., 70, no. 6, 2010, 1739-1760 (Joint with Jacob Rubinstein and Junghwa Kim).
- Gamma-convergence and the emergence of vortices for Ginzburg-Landau on thin shells and manifolds, Calc. of Variations, 38, no. 1-2, 2010, 243-274 (Joint work with Andres Contreras).
- Kinematic and dynamic vortices in a thin film driven by an applied current and magnetic field, Phys. D, 261, 2013, 31-41 (Joint with Lydia Peres Hari and Jacob Rubinstein).


- Reduced equations for the hydroelastic waves in the cochlea: The spring model, Quarterly in Applied Mathematics, 74, no. 4, 647-670, (2016) (Joint with Lydia Peres Hari and Jacob Rubinstein).


