Title:	Dynamics of Interacting Colloids
Authors:	Subramanian, Srikanth (/jspui/browse?type=author&value=Subramanian%2C+Srikanth)
Keywords:	Physics Brownian Motion
Issue Date:	13-Aug-2015
Publisher:	IISER-M
Abstract:	Presented here are the results of analytical and numerical simulations for colloidal systems driven by ratcheting potential switching on and o stochastically. We observe the variation of the resultant directed current as a function of the ratcheting frequency. In the case of an interacting colloidal system, molecular dynamics [3] has revealed resonance of directed current with ratcheting frequency. The analytical tools necessary, the theoretical paradigm of non-equilibrium statistical mechanics and stochastic processes(relevant parts) are also discussed in detail.
URI:	http://hdl.handle.net/123456789/615 (http://hdl.handle.net/123456789/615)
Appears in Collections:	MS Dissertation by MP-2012 (/jspui/handle/123456789/4306)