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Title:	Dynamics of Interacting Colloids				
Authors:	Subramanian, Srikanth (/jspui/browse?type=author&value=Subramanian%2C+Srikanth)				
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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.				
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