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Title:	Generalized Lorentz Mie Theory of Reversal of Optical Trapping Force				
Authors:	Devi, A. (/jspui/browse?type=author&value=Devi%2C+A.) De, A.K. (/jspui/browse?type=author&value=De%2C+A.K.)				
Keywords:	Femtosecond Nanoparticle Polystyrene				
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Publisher:	Institute of Electrical and Electronics Engineers				
Citation:	2019 Conference on Lasers and Electro-Optics Europe and European Quantum Electronics Conference, CLEO/Europe-EQEC 2019				
Abstract:	Recently, the role of ultrafast pulsed excitation in laser trapping of dielectric nanoparticles has been explored [1-4] and it was observed that optical Kerr effect (OKE) plays an important role in determining the stability of the trap [2-4]. Using Generalized Lorentz Mie Theory (localized approximation) [5], here we theoretically investigate how optical trapping force/potential on a hollow-core polystyrene nanoparticle becomes repulsive to attractive in nature under high repetition-rate femtosecond pulsed excitation.				
URI:	https://ieeexplore.ieee.org/document/8873069 (https://ieeexplore.ieee.org/document/8873069) http://hdl.handle.net/123456789/2004 (http://hdl.handle.net/123456789/2004)				
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