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Title:	Optical trapping forces on nanoparticles in nonlinear medium under femtosecond pulsed excitation
Authors:	Yadav, Sumit (/jspui/browse?type=author&value=Yadav%2C+Sumit) Devi, Anita (/jspui/browse?type=author&value=Devi%2C+Anita) De, Arijit K. (/jspui/browse?type=author&value=De%2C+Arijit+K.)
Keywords:	Optical trapping nanoparticles nonlinear
Issue Date:	2021
Publisher:	SPIE
Citation:	Optical Trapping and Optical Micromanipulation XVIII. 11798, XVIII; 117982P
Abstract:	Under short pulsed excitation, depending on the nonlinear refractive index of the particle and the surrounding medium, optical nonlinearity plays a significant role in modulating optical forces on particles. Here, we explore the trapping forces experienced by dielectric nanoparticles in a highly nonlinear medium taking into account nonlinear propagation of Gaussian beam.
Description:	Only IISERM authors are available in the record.
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