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Title:	Nonlinear optical trap: dielectrics, metals, and beyond
Authors:	Devi, A. (/jspui/browse?type=author&value=Devi%2C+A.) Yadav, S. (/jspui/browse?type=author&value=Yadav%2C+S.) De, A.K. (/jspui/browse?type=author&value=De%2C+A.K.)
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Abstract:	Recent theoretical and experimental results have shown how the trapping force/potential can be dramatically modulated due to optical and thermal nonlinearity. Compared with dielectrics, metals show even more interesting behavior (for example, trap-splitting, enhanced forward scattering, etc.) owing to higher-order optical nonlinearities. Hence, we present a comparison study for dielectric and metallic nanoparticles using generalized Lorenz-Mie theory.
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