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Title:	Can low power laser induce dimple on air-water interface?					
Authors:	Verma, Gopal (/jspui/browse?type=author&value=Verma%2C+Gopal)					
	Gaurav, Abhishek (/jspui/browse?type=author&value=Gaurav%2C+Abhishek)					
	Nair, J. (/jspui/browse?type=author&value=Nair%2C+J.)					
	Singh, K.P. (/jspui/browse?type=author&value=Singh%2C+K.P.)					
Keywords:	Fluid interfaces					
	Surface tension					
	Air-water interface					
Issue Date:	2013					
Publisher:	Optical Society of America					
Citation:	2013 Conference on Lasers and Electro-Optics, CLEO 2013					
Abstract:	We investigate deformations of fluid interfaces caused by small (~nN) optical force of a low power laser beam under total-internal-reflection. For air-water interface deformations are undetectable, unlike recently claimed in ref. [3]. Using a critical fluid-fluid interface having weak surface tension large fluid-lens effects in the form of a bump are seen. Our observations support standard optofluidic force-balance with potential for technological applications.					
URI:	https://www.osapublishing.org/abstract.cfm?uri=CLEO_AT-2013-JW2A.08					
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