

Library Indian Institute of Science Education and Research Mohali



DSpace@IISERMohali (/jspui/)

- / Publications of IISER Mohali (/jspui/handle/123456789/4)
- / Research Articles (/jspui/handle/123456789/9)

Please use this identifier to cite or link to this item: http://hdl.handle.net/123456789/3115					
Title:	Interaction of rare gas dimers in the confines of a carbon nanotube				
Authors:	Sathyamurthy, N. (/jspui/browse?type=author&value=Sathyamurthy%2C+N.)				
Keywords:	rare gas dimers He2, Ne2, Ar2 and Kr2 carbon nanotube				
Issue Date:	2015				
Publisher:	Elsevier				
Citation:	Chemical Physics Letters, 618 pp. 42-45.				
Abstract:	The interaction of different rare gas dimers (He2, Ne2, Ar2 and Kr2) in the confines of a carbon nanotube, along the tube axis and perpendicular to it, is examined using the density functional theoretic method, with the M05-2X functional and the 6-311++G**basis set. The equilibrium internuclear distance between the rare gas atoms is found to be reduced inside the tube, when the dimer is oriented perpendicular to the tube axis. The electron density at the bond critical point between the rare gas atoms is increased when compared to that in the isolated dimer.				
Description:	Only IISERM authors are available in the record.				
URI:	https://www.sciencedirect.com/science/article/pii/S0009261414009269 (https://www.sciencedirect.com/science/article/pii/S0009261414009269) http://hdl.handle.net/123456789/3115 (http://hdl.handle.net/123456789/3115)				
Appears in	Research Articles (/jspui/handle/123456789/9)				

Files	in	This	Item

Collections:

THE INTIME ROLL.					
	File	Description	Size	Format	
	Need to add pdf.odt (/jspui/bitstream/123456789/3115/1/Need%20to%20add%20pdf.odt)		8.63 kB	OpenDocument Text	View/Open (/jspui/bitstream/123456

Show full item record (/jspui/handle/123456789/3115?mode=full)

. I (/jspui/handle/123456789/3115/statistics)

Items in DSpace are protected by copyright, with all rights reserved, unless otherwise indicated.