

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/123456789/2453
Title:	The Effect of Hydration on the Cation-π Interaction Between Benzene and Various Cations
Authors:	Dhindhwal, V. (/jspui/browse?type=author&value=Dhindhwal%2C+V.) Sathyamurthy, N. (/jspui/browse?type=author&value=Sathyamurthy%2C+N.)
Keywords:	Hydration Cation-π interaction Qualitative
Issue Date:	2016
Publisher:	Springer Link
Citation:	Journal of Chemical Sciences, 128(10),pp.1597–1606.
Abstract:	The effect of hydration on cation- π interaction in M q+ B m W n (B= benzene; W= water; M q+= Na+, K+, Mg2+, Ca2+, Al3+, $0 \le n, m \le 4, 1 \le m+n \le 4$) complexes has been investigated using at initio quantum chemical methods. Interaction energy values computed at the MP2 level of theory using the 6-31G(d,p) basis set reveal a qualitative trend in the relative affinity of different cations for benzene and water in these complexes. The π -cloud thickness values for benzene have also been estimated for these systems.
URI:	https://link.springer.com/article/10.1007%2Fs12039-016-1164-3 (https://link.springer.com/article/10.1007%2Fs12039-016-1164-3) http://hdl.handle.net/123456789/2453 (http://hdl.handle.net/123456789/2453)
Appears in Collections:	Research Articles (/jspui/handle/123456789/9)

Files	in	This	Item:

File	Description	Size	Format	
Need to add pdf.odt (/jspui/bitstream/123456789/2453/1/Need%20to%20add%20pdf.odt)		8.63 kB	OpenDocument Text	View/Open (/jspui/bitstream/12345

Show full item record (/jspui/handle/123456789/2453?mode=full)

(/jspui/handle/123456789/2453/statistics)

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