



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/123456789/3006>

Title:	Solvent effect on neutral chiral supramolecular assemblies and their distinct receptor behaviour towards anions
Authors:	Kumar, Navnita (/jspui/browse?type=author&value=Kumar%2C+Navnita) Khullar, S. (/jspui/browse?type=author&value=Khullar%2C+S.) Mandal, S.K. (/jspui/browse?type=author&value=Mandal%2C+S.K.)
Keywords:	supramolecular assemblies complex in dimethylsulfoxide F-, Cl-, Br-, I- or OAc-,
Issue Date:	2015
Publisher:	Royal Society of Chemistry
Citation:	Dalton Transactions, 44(4) pp. 1520-1525.
Abstract:	We describe the distinct receptor behaviour of a neutral chiral Cu(ii) complex in dimethylsulfoxide or methanol towards anions, such as F-, Cl-, Br-, I- or OAc-, where F- and OAc- show the most colorimetric change, through various spectroscopic techniques. Further insights into this at the molecular level come from the single crystal X-ray structures of both dimethylsulfoxide and methanol solvates which show a solvent effect on their supramolecular network formation. Both chromogenic and fluorogenic sensing of the anions indicate a 2:1 receptor-anion formation via anion- π as well as hydrogen bonding interactions.
URI:	https://pubs.rsc.org/-/content/articlelanding/2015/dt/c4dt02778g#!divAbstract (https://pubs.rsc.org/-/content/articlelanding/2015/dt/c4dt02778g#!divAbstract) http://hdl.handle.net/123456789/3006 (http://hdl.handle.net/123456789/3006)
Appears in	Research Articles (/jspui/handle/123456789/9)
Collections:	

Files in This Item:

File	Description	Size	Format	
Need to add pdf.odt (/jspui/bitstream/123456789/3006/1/Need%20to%20add%20pdf.odt)		8.63 kB	OpenDocument Text	View/Open (/jspui/bitstream/123456789/3006/1/Need%20to%20add%20pdf.odt)

[Show full item record \(/jspui/handle/123456789/3006?mode=full\)](#)

[Statistics \(/jspui/handle/123456789/3006/statistics\)](#)

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