

Publications Corinne L. D. Gibb

- 33) *Thermodynamic Profiles of Salt Effects on a Host-Guest System: New Insight into the Hofmeister Effect*, Gibb, C. L. D., Oertling, E. E., Velaga S., and Gibb, B. C., *J. Phys. Chem. B*, **2015**, *119*, 5624-5638. DOI: 10.1021/acs.jpcc.5b01708
- 32) *Anion Complexation and The Hofmeister Effect*, Carnegie, R. S., Gibb, C. L. D., and Gibb, B. C., *Angew. Chemie*, **2014**, *53*, 11498–11500. DOI.org/10.1002/anie.201405796.
- 31) *Binding of Cyclic Carboxylates to Octa-Acid Deep-Cavity Cavitand*, Gibb C. L. D. and Gibb, B. C., *J. Comput.-Aided Mol. Des.*, **2014**, *28*(4), 319-25. DOI: 10.1007/s10822-013-9690-2.
- 30) *Dynamics of a Supramolecular Capsule Assembly with Pyrene*, Tang, H.; de Oliveira, C.; Sonntag, G.; Gibb, C. L. D.; Gibb, B. C.; Bohne, C., *J. Am. Chem. Soc.* **2012**, *134*, 5544-5547. DOI: 10.1021/ja301278p.
- 29) *The Thermodynamics of Molecular Recognition*, Gibb, C. L. D. and Gibb, B. C., in *Supramolecular Chemistry: From Molecules to Nano-materials* (Eds. Gale, P. A., Steed, J. W.) John Wiley and Sons, 2011.
- 28) *Anion Binding to Hydrophobic Concavity is Central to the Salting-in Effects of Hofmeister Chaotropes*, Gibb, C. L. D.; Gibb, B. C., *J. Am. Chem. Soc.*, **2011**, *133*, 7344-7347. DOI: 10.1021/ja202308n.
- 27) *An Improved Synthesis of 'Octa-Acid' Deep-Cavity Cavitand*, Liu, S., Whisenhunt-loup, S. E., Gibb, C. L. D., and Gibb, B. C., *Supramolecular Chemistry*, **2011**, 480-485. DOI: 10.1080/10610278.2010.550290. NIHMSID # 273827.
- 26) *Chiral Photochemistry within a Confined Space: Diastereoselective Photorearrangements of a Tropolone and a Cyclohexadienone Included in a Synthetic Cavitand*, Sundaresan, A. K.; Kaanumalle, L.; Gibb, C. L. D.; Gibb, B. C.; Ramamurthy, V. *Dalton Transactions*, **2009**, *20*, 4003-4011. DOI: 10.1039/b900017h. NIHMSID # 104333.
- 25) *Chiral Photochemistry in a Confined Space: Torquoselectivity during the Photocyclization of Pyridones within an Achiral Hydrophobic Capsule*, Sundaresan, A. K.; Gibb, C. L. D.; Gibb, B. C. and Ramamurthy, V., *Tetrahedron* (Symposium in Print), **2009**, *65*(35), 7277-7288. DOI: 10.1016/j.tet.2009.01.110.
- 24) *Guests of Differing Polarities Provide Insight into Structural Requirements for Templates of Water-Soluble Nano-Capsules*, Gibb C. L. D. and Gibb, B. C. *Tetrahedron* (Symposium in Print), **2009**, *65*(35), 7240-7248. DOI: 10.1016/j.tet.2009.01.106. NIHMSID # 138307.
- 23) *Templation of the Excited State Chemistry of α -(n-alkyl)-dibenzylketones: How Guest Packing within a Nano-scale Supramolecular Capsule influences Photochemistry*, Gibb, C. L. D.; Sundaresan, A. K.; Ramamurthy, V.; Gibb, B. C., *J. Am. Chem. Soc.*, **2008**, *130*, 4069-4080. DOI: 10.1021/ja7107917.
- 22) *Encapsulation of Ferrocene and Peripheral Electrostatic Attachment of Viologens to Dimeric Molecular Capsules Formed by an Octaacid, Deep-Cavity Cavitand*, Podkoscielny, D.; Philip, I.; Gibb, C. L. D.; Gibb, B. C.; Kaifer, A. E., *Chem. Eur. J.*, **2008**, *14*, 4704-4710. DOI: 10.1002/chem.200701961.
- 21) *Calorimetric Analysis of the 1:1 Complexes formed between a Water-Soluble Deep-Cavity Cavitand, and Cyclic and Acyclic Carboxylic Acids*, Sun, H.; Gibb, C. L. D.; Gibb, B. C., *Suprmolecular Chemistry*, **2008**, *20*, 141-147. DOI: 10.1080/10610270701744302.
- 20) *Controlling Photoreactions with Restricted Spaces and Weak Intermolecular Forces: Exquisite Product Selectivity during Oxidation of Olefins by Singlet Oxygen* Natarajan, A.;

- Kaanumalle, L. S.; Jockusch, S.; Gibb, C. L. D.; Gibb, B. C.; Turro, N. J. and Ramamurthy, V. *J. Am. Chem. Soc.*, **2007**, *129*, 4132-4133. DOI: 10.1021/ja070086x.
- 19) *Straight-Chain Alkanes Template the Assembly of Water-Soluble Nano-Capsules*, Gibb C. L. D.; Gibb, B. C., *Chem. Commun.* **2007**, 1635-1637. DOI: 10.1039/B618731E.
 - 18) *Photo-Fries Reaction In Water Made Highly Selective With a Capsule* Kaanumalle, L. S.; Gibb, C. L. D.; Gibb, B. C.; Ramamurthy, V., *Organic and Biomolecular Chemistry*, **2007**, *5*, 236-238. DOI: 10.1039/B617022F.
 - 17) *Templated Assembly of Water-Soluble Nano-Capsules: Inter-Phase Sequestration, Storage, and Separation of Hydrocarbon Gases*, Gibb, C. L. D., Gibb, B. C., *J. Am. Chem. Soc.*, **2006**, *128*, 16498-16499. DOI: 10.1021/ja0670916. (Featured in Nature Nanotechnology, December 2006; <http://www.nature.com/nnano/reshigh/2006/1206/full/nnano.2006.204.html>).
 - 16) *A Hydrophobic Nano-Capsule Controls the Photophysics of Aromatic Molecules By Suppressing their Favored Solution Pathways*, Kaanumalle, L. S.; Gibb, C. L. D.; Gibb, B. C.; Ramamurthy, V., *J. Am. Chem. Soc.*, **2005**, *127*, 3674-3675. DOI: 10.1021/ja0425381.
 - 15) *Controlling Photochemistry With Distinct Hydrophobic Nano-Environments*, Kaanumalle, L. S.; Gibb, C. L. D.; Gibb, B. C.; Ramamurthy, V., *J. Am. Chem. Soc.*, **2004**, *126*, 14366-14367. DOI: 10.1021/ja0450197. (See also: *Nature*, 2004, 432, p163, and Chemical & Engineering News Jan 3rd, 2005, p30.)
 - 14) *Well Defined, Organic Nano-Environments in Water: The Hydrophobic Effect Drives a Capsular Assembly* Gibb, C. L. D., Gibb, B. C., *J. Am. Chem. Soc.*, **2004**, *126*, 11408-11409. DOI: 10.1021/ja0475611.
 - 13) *Guest Binding and Orientation within Open Nano-scale Hosts*, Laughrey, Z. R.; Gibb, C. L. D.; Senechal, T.; Gibb, B. C. *Chemistry: A European Journal*, **2003**, *9*, 130-139. DOI: 10.1002/chem.200390008.
 - 12) *Resorcinarenes as Templates: The Synthesis of Large Crown Ethers*, Li, X., Upton, T.; Gibb, C. L. D.; Gibb, B. C., *J. Am. Chem. Soc.* **2003**, *125*, 650-651. DOI: 10.1021/ja029116g.
 - 11) *Adjusting the Thermodynamics, Kinetics, and Orientation of Guests within Large Synthetic Hydrophobic Pockets*, Gibb, C. L. D.; Li, X.; Gibb, B. C., *Proceedings of the National Academy of Sciences (US)*, **2002**, *99*, 4857-4862. DOI: 10.1073/pnas.062653599.
 - 10) *Binding Properties of a Molecular Basket*, Gibb, C. L. D.; Xi, H.; Politzer, P. A., Concha, M.; Gibb, B. C., *Tetrahedron*, **2002**, *58*(4), 673-681. DOI: 10.1016/S0040-4020(01)01104-8.
 - 9) *C-H...X-R (X = Cl, Br and I) Hydrogen Bonds Drive the Complexation of a Nano-Scale Molecular Basket*, Gibb, C. L. D.; Stevens, E. D.; Gibb, B. C., *J. Am. Chem. Soc.*, **2001**, *123*, 5849-5850. DOI: 10.1021/ja005931p.
 - 8) *Estimating the Efficiency of Self-Assemblies*, Gibb, C. L. D.; Gibb, B. C. *Journal of Supramolecular Chemistry*, **2001**, *1*, 39-52. DOI: 10.1016/S1472-7862(01)00003-X.
 - 7) *Two New Ligands for Carbonic Anhydrase Mimicry*. Li, X.; Gibb, C. L. D.; Kuebel, M. E; Gibb, B. C., *Tetrahedron*, **2001**, *57*, 1175-1182. DOI: 10.1016/S0040-4020(00)01116-9.
 - 6) *The Self-Assembly of Benzyl Alcohol Derived Deep-Cavity Cavitands; a New Highly Efficient Moiety for Irreversible Assemblies?* Gibb, C. L. D.; Stevens, E. D.; Gibb, B. C., *Chem. Commun.*, **2000**, 363-364. DOI: 10.1039/A908144E.
 - 5) *Functionalized Deep-Cavity Cavitands*. Xi, H.; Gibb, C. L. D.; Gibb, B. C., *J. Org. Chem.*, **1999**, *64*, 9286-9288. DOI: 10.1021/jo9909913.

- 4) *Deep-Cavity Cavitands: Synthesis and Solid-State Structure of Host Molecules Possessing Large Bowl-Shaped Cavities.* Xi, H., Gibb, C. L. D., Stevens, E. D., Gibb, B. C., *Chem. Commun.*, **1998**, 1743-1744. DOI: 10.1039/A803571G.
- 3) *Effect of Nuclear Protein HMG1 on in vitro Slippage Synthesis of the Tandem Repeat dTG x dCA.* Gibb, C. L. D. ; Cheng, W.; Morozov, V. N.; Kallenbach, N. R.;**1997**, *Biochemistry*, 36, 5418-5424.
- 2) *HMG box proteins interact with multiple tandemly repeated (GCC)_n·(GGC)_m DNA sequences.* Zhao, Y.; Cheng, W.; Gibb, C. L. D.; Gupta, G.; Kallenbach, N. R. *J. Biomol. Structure & Dynamics* **1996**, 14(2), 235-238. DOI:10.1080/07391102.1996.10508113.
- 1) *Analysis of Surface Aldehyde Functions on Surfactant-Free Polystyrene/Polyacrolein Latex.* Le Dissez, C.; Wong, P. C. ; Mitchell, K. A. R. ; Brooks, D. E. *Macromolecules*, **1996**, 29, 953-959.