

Does Carbon Break the Glass Ceiling of Triple Bonding?

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Abstract

My talk will try to answer the title question, by focusing on C₂ and its isoelectronic molecules, based on published results^[1] as well as some new ones.^[2]

Acknowledgments: I acknowledge collaborations of the coworkers mentioned in references [1] and [2].

References:

- [1] (a) S. Shaik, D. Danovich, W. Wu, H.S. Rzepa, P.C. Hiberty, *Nature Chem.* 1 (2009) 443. (b) D. Danovich, P.C. Hiberty, W. Wu, H.S. Rzepa, S. Shaik, *Chem. Eur. J.* 20 (2014) 2418.
[2] D. Danovich, B. Braida, P.C. Hiberty and S. Shaik, in preparation.