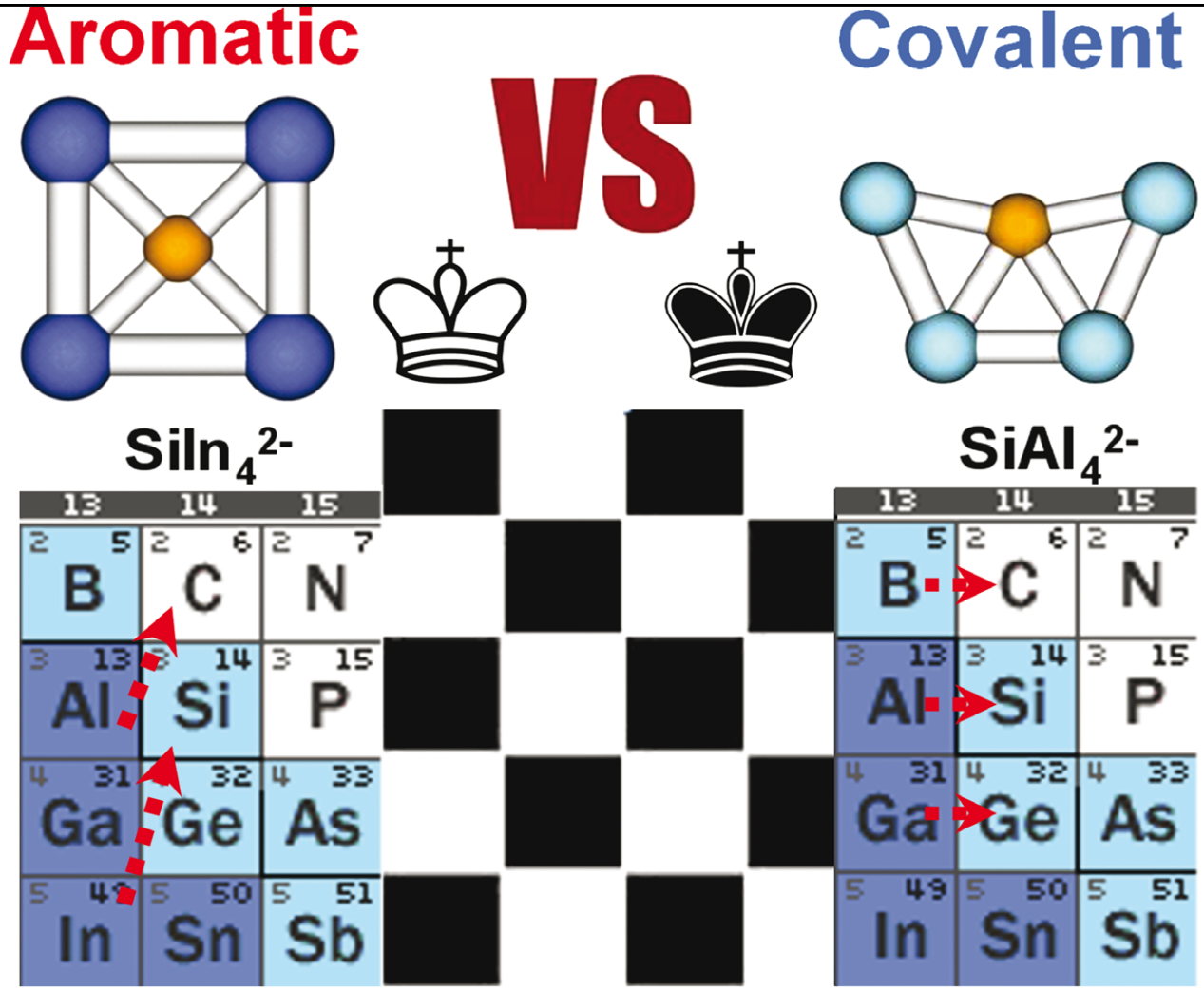

Showcasing research from the laboratory of Anastassia Alexandrova at the University of California, Los Angeles, USA

Title: Selected $AB_4^{2-/-}$ (A = C, Si, Ge; B = Al, Ga, In) ions: a battle between covalency and aromaticity, and prediction of square planar Si in $SiIn_4^{2-/-}$

In small clusters, aromaticity and covalency are two chemical bonding effects that turn out to oppose each other in defining cluster structures. They were used as two levers of cluster design, and a new cluster containing square planar Si was predicted.

As featured in:

See Alexandrova *et al.*, *Phys. Chem. Chem. Phys.*, 2012, **14**, 14815.

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