

EES Catalysis

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**Fundamental questions
Elemental answers**



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**EXCEPT: Lewis Acids and Bases, Secondary Bond Fans,
8 and 18 e⁻ Species, IUPAC Gold Book Readers, VSEPR Supporters**

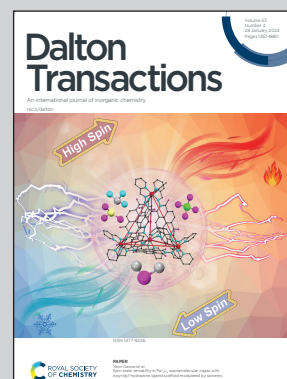
Showcasing research from Professor Savastano's laboratory, University San Raffaele Roma, Rome, Italy.

Ye Olde supramolecular chemistry, its modern rebranding and overarching trends in chemistry

Names given to chemical interactions are but the mirror of the way we understand them. Current "post halogen bonding" contingency of supramolecular chemistry features a strong push towards a new group-by-group nomenclature, based on a simplistic nucleophile/electrophile model. Herein we contrast this picture with deeper and centuries-old discussion about fundamental aspects of bonding. Critical issues, especially concerning nomenclature expansion to the d-block, are discussed in periodic terms. Despite partial IUPAC endorsement, the new nomenclature is put in question.

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As featured in:



See Matteo Savastano, *Dalton Trans.*, 2024, **53**, 1373.