



RSC Applied Interfaces

GOLD OPEN ACCESS

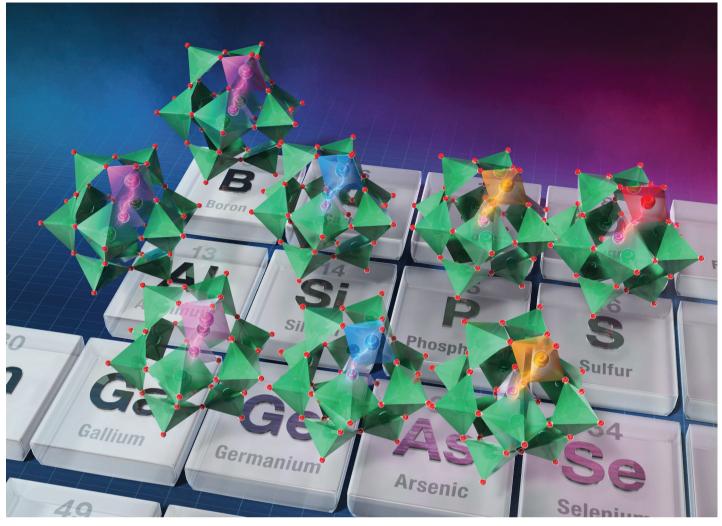
Interfacial and surface research with an applied focus

Interdisciplinary and open access

rsc.li/RSCApplInter

Fundamental questions
Elemental answers

Registered charity number: 207890



Showcasing research from Professor Sekine's laboratory, Waseda University, Tokyo, Japan.

Factors governing the protonation of Keggin-type polyoxometalates: influence of the core structure in clusters

In Keggin-type POMs, the first protonated position and energy were evaluated by DFT calculation, and these were governed by the addenda metal species, total charge, and the $O_h\text{--}M$ bond length. The chemical and physical properties of the $\beta\text{--isomers}$ could be predicted from the parameters of the $\alpha\text{--isomers}$.



