

Recent results of theoretical studies of properties of elements 113 through 115

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Interesting gas-phase chromatography experiments were conducted on volatility of Cn and Fl as adsorbed on gold and other surfaces [1-4]. The first attempt of chemical characterization of Nh has also been announced using a similar approach [5]. To render assistance to those experiments, relativistic calculations of interaction of those elements and their homologs with gold and other surfaces have been performed using advanced periodic codes [6,7]. Moreover, these theoretical studies were extended to predictions of properties of Nh compounds [8], that can be formed at the experimental conditions, and of their interaction with the surfaces. Calculations for smaller systems of Mc in view of future gas-phase experiments are also presented.

References

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