

**Research Papers****Nuclear metamorphosis in mercury**

*F. Cardone, G. Albertini, D. Bassani, G. Cherubini, E. Guerriero, R. Mignani, M. Monti, A. Petrucci, F. Ridolfi, A. Rosada, F. Rosetto, V. Sala, E. Santoro, G. Spera*  
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**New full velocity difference model considering the driver's heterogeneity of the disturbance risk preference for car-following theory**

*You-Zhi Zeng, Ning Zhang*  
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*Issa Sali, C. B. Tabi, H. P. Ekobena, T. C. Kofané*  
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*Ion I. Cotăescu, Doru-Marcel Băltățeanu, Ion Cotăescu, Jr.*  
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**First principle study on electronic structure, structural phase stability, optical and vibrational properties of Ba<sup>2</sup>ScMO<sup>6</sup> (M = Nb, Ta)**

*Balasubramaniam Rameshe, Ramaswamy Murugan, Balan Palanivel*  
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*Guo-Zhong Lai, Xiong Liang, Jing Lv*  
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*J. V. González-Fernández, R. Herrera-Jasso, N. A. Ulloa-Castillo, J. Ortega-Gallegos, R. Castro-García, L. F. Lastras-Martínez, A. Lastras-Martínez, R. E. Balderas-Navarro, T. Mozume, S. Gozu*  
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*Pan-Pan Wang, Ju-Xiang Shao, Qi-Long Cao*  
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