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# Publications

1. *Density-functional theory investigation of oxygen adsorption at Pd(11N) vicinal surfaces ( $N=3,5,7$ ): Influence of neighboring steps*,  
**Yongsheng Zhang**, Jutta Rogal and Karsten Reuter,  
Phys. Rev. B **74**, 125414, (2006).
2. *On the accuracy of first-principles lateral interactions: Oxygen at Pd (100)*,  
**Yongsheng Zhang**, Volker Blum and Karsten Reuter,  
Phys. Rev. B **75**, 235406, (2007)
3. *First-principles statistical mechanics approach to step decoration at surfaces*,  
**Yongsheng Zhang** and Karsten Reuter,  
submitted to Phys. Rev. Lett. (2008)