

## Published books and long review articles

1. Sliding Friction: Theory and Applications, Springer (1998); Second (expanded) Edition (2000).
2. Physics of Sliding Friction, edited by B.N.J. Persson and E. Tosatti, NATO ASI Series, Vol. 311 (Kluwer, Dordrech 1996).
3. Surface Science Reports **15**, 1 (1992).
4. B.N.J. Persson and F. Mugele, J. Phys. Condens. Matter **16**, R295 (2004).
5. B.N.J. Persson, O. Albohr, U. Tartaglino, A.I. Volokitin and E. Tosatti, J. Phys. Condens. Matter **17**, R1 (2005).

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### [1] Some recent publications:

- [2] B.N.J. Persson, Theory of Rubber Friction and Contact Mechanics” J. Chem. Phys. **115** 3840 (2001).
- [3] B.N.J. Persson, F. Bucher and B. Chiaia, Elastoplastic contact mechanics between randomly rough surfaces, Phys. Rev. B **65** 184106 (2002).
- [4] B.N.J. Persson, Comment on “Nanoadhesion between Rough Surfaces”, Phys. Rev. Lett. **88** 129601 (2002).
- [5] T. Komeda, Y. Kim, M. Kawai, B.N.J. Persson and H. Ueba, Lateral Hopping of Molecules Induced by Excitation of Internal Vibrational Mode, Science **295** 2055 (2002).
- [6] B.N.J. Persson and H. Ueba, Theory of inelastic tunneling induced motion of adsorbates on metal surfaces, Surface Science **502-503** 18 (2002).
- [7] B.N.J. Persson, Adhesion between elastic bodies with randomly rough surfaces, Eur. Phys. J. E **8**, 385 (2002).
- [8] I.M. Sivebaek, V.N. Samoilov and B.N.J. Persson, Squeezing molecular thin alkane lubrication films: layering transition and wear, J. Chem. Phys. **119** 2314 (2003).

- [9] B.N.J. Persson, On the mechanism of adhesion in biological systems, J. Chem. Phys. **118** 7614 (2003).
- [10] B.N.J. Persson, NanoAdhesion, WEAR **254** 832 (2003).
- [11] B.N.J. Persson, O. Albohr, V. Peveri, V.N. Samoilov and I.M. Sivebaek, On the nature of the static friction, kinetic friction and creep, WEAR **254** 835 (2003).
- [12] V.N. Samoilov and B.N.J. Persson, Squeezing wetting and nonwetting liquids, J. Chem. Phys. **120**, 1997 (2004).
- [13] B.N.J. Persson, A.I. Volokitin and E. Tosatti, Role of the external pressure on the dewetting of soft interfaces, Eur. Phys. J. E **11**, 409 (2003).
- [14] A.I. Volokitin and B.N.J. Persson, Resonant photon tunneling enhancement of the van der Waals friction, Phys. Rev. Lett. **91**, 106101 (2003)
- [15] B.N.J. Persson and S. Gorb, The effect of surface roughness on the adhesion of elastic plates with applications to biological systems, J. Chem. Phys. **119**, 11437 (2003)
- [16] B.N.J. Persson and F. Mugele, Squeeze-out and wear: fundamental principles and applications, J. Phys. C **16**, R295 (2004).
- [17] B.N.J. Persson, O. Albohr, C. Creton and V. Peveri, Contact area between a viscoelastic solid and a hard, randomly rough, substrate, J. Chem. Phys. **120**, number 18, 8 May 2004.
- [18] B.N.J. Persson, U. Tartaglino, E. Tosatti and H. Ueba, Electronic friction and liquid-flow-induced voltage in nanotubes, Phys. Rev. B **69**, 235410 (2004)
- [19] V.N. Samoilov, I.M. Sivebaek and B.N.J. Persson, The effect of surface roughness on the adhesion of solid surfaces for systems with and without liquid lubricant, J. Chem. Phys. **121**, 9639 (2004).
- [20] B.N.J. Persson, O. Albohr, U. Tartaglino, A.I. Volokitin and E. Tosatti, On the nature of surface roughness with application to contact mechanics, sealing, rubber friction and adhesion, J. Phys. Condens. Matter **17**, R1 (2005).
- [21] B.N.J. Persson and E. Brener, Crack propagation in viscoelastic solids, Submitted to Phys. Rev. E (2004).
- [22] B.N.J. Persson, U. Tartaglino, O. Albohr and E. Tosatti, Sealing is at the origin of rubber sliding on wet roads, Nature Materials **3**, 882 (2004).