

List of Publications:

1. "The dynamics and geometry of solid-liquid reaction interface".
Avraham Be'er, Yossi Lereah and Haim Taitelbaum
Physica A **285**, 156-165 (2000)
2. "The roughness and growth of a silver-mercury reaction interface".
Avraham Be'er, Yossi Lereah, Inbal Hecht and Haim Taitelbaum
Physica A **302**, 297-301 (2001)
3. "Time resolved three-dimensional quantitative microscopy of a droplet spreading on solid surfaces".
Avraham Be'er and Yossi Lereah
J. of Microscopy **208**, 148-152 (2002)
4. "Spreading of mercury droplet on thin gold films".
Avraham Be'er, Yossi Lereah, Aviad Frydman and Haim Taitelbaum
Physica A **314**, 325-330 (2002)
5. "Interface Roughening Dynamics: Temporal Width Fluctuations and the Correlation Length".
Avraham Be'er, Inbal Hecht and Haim Taitelbaum
Phys. Rev. E **72**, 031606 (2005)
6. "Single interface growth: fluctuations and the correlation length".
Inbal Hecht, Avraham Be'er and Haim Taitelbaum
Fluctuations and Noise Letters, **5**, L319-L324 (2005)
7. "Quantitative Experimental Studies of Spontaneous Rotations of Bismuth Nano-Particles".
Avraham Be'er, Richard Kofman, Fritz Phillipp and Yossi Lereah
Phys. Rev. B **74**, 224111 (2006)
8. "Spreading of Mercury Droplets on Thin Silver Films in Room Temperature".
Avraham Be'er, Yossi Lereah, Aviad Frydman and Haim Taitelbaum
Phys. Rev. E **75**, 051601 (2007)
9. "Spontaneous Crystallographic Instabilities of Pb Nanoparticles in a SiO Matrix".
Avraham Be'er, Richard Kofman, Fritz Phillipp and Yossi Lereah
Phys. Rev. B **76**, 075410 (2007)
10. "Reactive-Wetting of an Hg-Ag System at Room Temperature"
Avraham Be'er, Yossi Lereah and Haim Taitelbaum
Materials Science and Engineering A, (in press) (2007)
11. "Rotations by Discrete Angle of Bi Nano-Particles Embedded in a Liquid Ga Matrix".
Avraham Be'er, Richard Kofman and Yossi Lereah
Phys. Rev. B (submitted)

Patent: "Method and system for determining shape of an object from a planar top view thereof" (pending). Application No. 10/916,408. Publication No. US – 2005-0036674