

LISTA DE LUCRĂRI
Dr. Ing. Gelu-Marius Rotaru

a. Lucrări publicate

1. AK Dąbrowska, **G.-M. Rotaru**, S Derler, F Spano, M Camenzind, S. Annaheim, R. Stämpfli, M. Schmid and R. M. Rossi, Materials used to simulate physical properties of human skin
Skin Research and Technology 22 (1), 3-14
2. S. Derler, **G.-M. Rotaru**, W. Ke, L. E. Issawi-Frischknecht, P. Kellenberger, A. Scheel-Sailer and R.M. Rossi
Microscopic contact area and friction between medical textiles and skin
J. Mechanical Behavior of Biomedical Materials, 38, 114-125, (2013)
3. **G.-M. Rotaru**, D. Pille, F. K. Lehmeier, R. Stämpfli, A. Scheel-Sailer, R. M. Rossi, and S. Derler, Friction between human skin and medical textiles for decubitus prevention,
Tribology International 65, 91-96, (2013)
4. Derler, S., and **G.-M. Rotaru**, "Stick-slip phenomena in the friction of human skin"
Wear 301, no. 1, 324-329, (2013)
5. S. Derler, J. Süess, A. Rao and **G.-M. Rotaru**, Influence of variations in the pressure distribution on the friction of the finger pad"
Tribology International, 63, 14-20, (2013).
6. S. N. Gvasaliya, A. Cervellino, B. Roessli, **G. -M. Rotaru**, R. A. Cowley, S. G. Lushnikov, T. A. Shaplygina, and L. Bouchenoire. The structure and low-energy phonons of the nonferroelectric mixed perovskite: BaMg_{1/3}Ta_{2/3}O₃
Journal of Physics: Condensed Matter 24, 45 , 455401, (2012).
7. R. A. Cowley, S. N. Gvasaliya, S. G. Lushnikov, B. Roessli, **G. -M. Rotaru**, Relaxing with relaxors: a review of relaxor ferroelectrics
Advances in Physics, 60:2, 229-327, (2011).
8. **G.-M. Rotaru**, B. Padmanabhan, S. N. Gvasaliya, B. Roessli, T. Strässle, R. A. Cowley, S. G. Lushnikov, and S. Klotz
Study of diffuse scattering under hydrostatic pressure in PbMg_{1/3}Nb_{2/3}O₃
Journal of Physics: Conference Series, 251, 012011, (2011)
9. **G.-M. Rotaru**, S.N. Gvasaliya, V. Pomjakushin , B. Roessli, T. Strässle, S.G. Lushnikov, T. A. Shaplygina , P. Günter, Atomic displacements in PbMg_{1/3}Nb_{2/3}O₃ under high pressures
Applied Physics Letters, 93, 032903, (2008).
10. **G.-M. Rotaru**, D. Schryvers, Journal of Physics: Condensed Matter, 20, 104235, (2008).
New (33) long-period microtwin variant in the martensitic phase of the PtTi alloy
Materials Science and Engineering A, 481 (2008).

b. Teza de doctorat

Titlul tezei: Statics and Dynamics of Polar Nanoregions in Pb Based Relaxors

Coordonatori: Dr. Bertrand Roessli, Dr. Severian Gvasaliya, Prof. Dr. Peter Günter și Prof. Dr. Joël François Mesot, Universitatea Politehnică Federală din Zurich, Elveția.



