

## Publications

### Research papers.

- [1] Piccolroaz, A., Mishuris, G. and Movchan, A.B. (2010). Perturbation problems for interfacial cracks. In: *Advances and Trends in Structural Engineering, Mechanics and Computation*, Alphonse Zingoni (Ed.), CRC Press, London, UK.
- [2] Mishuris, G., Movchan, A., Movchan, N. and Piccolroaz, A. (2011). Interaction of an interfacial crack with linear small defects under out-of-plane shear loading. *Computational Materials Science*, **52**, 226-230. doi:10.1016/j.commatsci.2011.01.023
- [3] Piccolroaz, A., Mishuris, G. and Radi, E. (2011). Mode III interfacial crack in the presence of couple stress elastic materials. *Engineering Fracture Mechanics*, **80**, 60-71. doi:10.1016/j.engfracmech.2011.03.001
- [4] Piccolroaz, A., Mishuris, G., Movchan, A., Movchan, N. (2011). Perturbation analysis of Mode III interfacial cracks advancing in a dilute heterogeneous material, *International Journal of Solids and Structures*, **49**, 244-255. doi:10.1016/j.ijsolstr.2011.10.006
- [5] Piccolroaz, A. and Mishuris, G. (2012). Integral identities for a semi-infinite interfacial crack in 2D and 3D elasticity. *Journal of Elasticity*, DOI 10.1007/s10659-012-9385-2
- [6] Piccolroaz, A., Mishuris, G., Movchan, A., and Movchan, N. (2012). Mode III crack propagation in a bimaterial plane driven by a channel of small line defects. *Computational Materials Science*, doi: 10.1016/j.commatsci.2012.02.037
- [7] Mishuris, G., Piccolroaz, A., Radi, E. (2012). Steady-state propagation of a Mode III crack in couple stress elastic materials. *International Journal of Engineering Science*, doi 10.1016/j.ijengsci.2012.06.015
- [8] Morini, L., Piccolroaz, A., Mishuris, G., Radi, E. (2012). Integral identities for a semi-infinite interfacial crack in anisotropic elastic bimaterials. *Submitted*.

### Preprints.

- [9] Piccolroaz, A., Mishuris, G. and Radi, E. (2012). Mode III interfacial crack in the presence of couple stress elastic materials. <http://arxiv.org/abs/1010.1822>
- [10] Mishuris, G., Movchan, A., Movchan, N. and Piccolroaz, A. (2012). Interaction of an interfacial crack with linear small defects under out-of-plane shear loading. <http://arxiv.org/abs/1010.6223>
- [11] Piccolroaz, A., Mishuris, G., Movchan, A., and Movchan, N. (2012). Perturbation analysis of Mode III interfacial cracks advancing in a dilute heterogeneous material. <http://arxiv.org/abs/1105.3497>
- [12] Piccolroaz, A. and Mishuris, G. (2012). Integral identities for a semi-infinite interfacial crack in 2D and 3D elasticity. <http://arxiv.org/abs/1110.3612>
- [13] Piccolroaz, A., Mishuris, G., Movchan, A., and Movchan, N. (2012). Mode III crack propagation in a bimaterial plane driven by a channel of small line defects. <http://arxiv.org/abs/1110.5836>
- [14] Mishuris, G., Piccolroaz, A., Radi, E. (2012). Steady-state propagation of a Mode III crack in couple stress elastic materials. <http://arxiv.org/abs/1203.3970>
- [15] Morini, L., Piccolroaz, A., Mishuris, G., Radi, E. (2012). Integral identities for a semi-infinite interfacial crack in anisotropic elastic bimaterials. <http://arxiv.org/abs/1205.1321>

### Papers in preparation.

- [16] Mishuris, G., Piccolroaz, A., Radi, E. Mode III crack in couple stress elastic materials under time-harmonic loadings.
- [17] Piccolroaz, A., Mishuris, G., Movchan, A.B. 3D skew-symmetric weight functions for semi-infinite interfacial cracks.
- [18] Vellender, A., Mishuris, G., Piccolroaz, A.
- [19] Piccolroaz, A., Mishuris, G. Crack dynamics in a bimaterial lattice.