Pyatigorets, A. V., and D. B. Russell. "Implementation of Advanced Numerical Solvers in *FLAC3D* Thermal and Fluid Implicit Formulation," in *Applied Numerical Modeling in Geomechanics 2020 (Proceedings, 5th International Itasca Symposium, February 2020)*, Paper 13–05. Minneapolis, Minnesota: Itasca, 2020.

Pyatigorets, A. V., and S. G. Mogilevskaya. "Evaluation of Effective Transverse Mechanical Properties of Transversely Isotropic Viscoelastic Composite Materials," *Journal of Composite Materials*, **45**(25), pp. 2641-2658. 2011.

Hambleton, J. P., A. V. Pyatigorets, V. R. Voller and S. W. Sloan. "Lower Bound Limit Analysis Using the Control Volume Finite Element Method," *in Proceedings, 13th International Conference of the International Association for Computer Methods and Advances in Geomechanics (Melbourne, Australia)*, Vol. 1, pp. 88-93. 2011.

Mogilevskaya, S. G., A. V. Pyatigorets and S. L. Crouch. "Green Function for the Problem of a Plane Containing a Circular Hole with Surface Effects," *Journal of Applied Mechanics*, 78, pp. 1-9. 2011.

Pyatigorets, A. V. *Evaluation of Local Fields and Effective Behavior of Viscoelastic Heterogeneous Materials*. Ph.D. Thesis. University of Minnesota, 2010.

Pyatigorets, A. V., M. O. Marasteanu, L. Khazanovich and H. K. Stolarski. "Application of a Matrix Operator Method for Thermo-Viscoelastic Analysis of Composite Structures," *Journal of Mechanics of Materials and Structures*, 5(5), pp. 837-854. 2010.

Pyatigorets, A. V., J. F. Labuz, S. G. Mogilevskaya and H. K. Stolarski. "Novel Approach for Measuring the Effective Shear Modulus of Porous Materials," *Journal of Materials Science*, **45**, pp. 936–945. 2010.

Pyatigorets, A. V., and S. G. Mogilevskaya. "Viscoelastic State of a Semi-Infinite Medium with Multiple Circular Elastic Inhomogeneities," *Journal of Mechanics of Materials and Structures*, **4**(1), pp. 57-87. 2009.

Pyatigorets, A. V., S. G. Mogilevskaya and M. O. Marasteanu. "Linear Viscoelastic Analysis of a Semi-Infinite Porous Medium," *International Journal of Solids and Structures*, **45**(5), pp. 1458-1482. 2008.

Bagayev, S. N., V. A. Orlov and A. V. Pyatigorets. "Observation of Earth's Oscillations by the Laser Interferometric Method," *in Proceeding, Society of Photographic Instrumentation Engineers (St. Petersburg, Russia)*, 6284, pp. 4-12. 2006.

Pyatigorets, A. V., and V. A. Orlov. "Laser Strain Meter Investigations of the Long-Period Earth Oscillations," in *Proceedings, International Symposium Active Geophysical Monitoring of the Earth's Lithosphere (Novosibirsk, Russia)*, pp. 180-185. 2005.

Orlov, V. A., and A. V. Pyatigorets. "Observation of Long-Period Oscillation Features by a Highly Sensitive Laser Method," *in Proceedings, 7th International Conference on Actual Problems of Electronic Instrument Engineering (Novosibirsk, Russia)*, Vol. 1, pp. 148-159, 2004.

Pyatigorets, A. V. "Research of Super-Long Period Oscillations by Means of a Laser Interferometry Method," in *Proceedings, XLII Conference Student and Scientific Progress (Novosibirsk, Russia)*, 70. 2004.