

Application 1

List of publications and citations of prof. Vasil Kavardzhikov

A. Publications in scientific journals

- A1. Burgudjiev, Z., I. Penchev, E. Loshtilova, V. Kavardzhikov, „Raman spectra concentrational dependence of naphthalene-cyclohexane and naphthalene-methanol solutions frozen at 77 K”, Spectroscopy letters, 1975, No 8, (525-529), **ISSN:1532-2289, IF:0,741.**
- A2. Kavardjikov, V. and I. Zlatanov, „On the role of the conformation changes at the active site for allosteric interactions”, Physico chemical bases of biology information transfer; Plenum Press - New York and London, 1975, (127-135).
- A3. Tshukniisky. P., V. Kavardjikov, I. Zlatanov, „About the process of lygand’s association and regulation properties of proteins”, Biophysics, Leningrad, 1976, XXI, 6,(24-25), (in Russian).
- A4. Burgudjiev Z., I. Penchev, V. Kavardzhkov, „Effect of some aromatic admixtures on the Raman line intensity of solid cyclohexane at 77 K”, Spectroscopy letters, 1980, No 13, (891-894), **ISSN:1532-2289, IF:0,741.**
- A4*. Hadjikov, L., V. Kavardjikov, „Experimental separation of the elastic from the plastic area in metal specimens with circular holes by the method of speckle photography”, Physico-chemical mechanics, Sofia 1984,12 , (16-24), (in Bulgarian), **ISSN:0204-5978, (1975-2000).**
- A5*. Kavardjikov, V., L. Hadjikov, „An experimental study of the interaction between the surface layer and the volume of notched metal specimens undergoing tension”, Physico-chemical mechanics, Sofia 1984,12 , (25-32), (in Bulgarian) **ISSN:0204-5978, (1975-2000).**
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- A9. Ivanov, Y., L. Hadjikov, V. Kavardjikov, „Speckle photography of the rheological measurements of polymer systems”, International polymer processing”, 1988, III, 2, (113-116), **ISSN:0930-777X, IF: 0.521**
- A9. Nedelchev N., V. Kavardjikov, „Study of the new introduced poplar branches in Bulgaria - wood mechanical characterization”, Technical thought, Sofia 1991, 6, (65-72), (in Bulgarian), **ISSN:0040-2168.**
- A10. Kavardjikov V., G. Sharafutdinov; „Application of speckle interferometry to solid mechanics”, "Elastic and elastic-plastic solids deformation problems solutions (models and methods)", Moscow University, 1992, (27-37), (in Russian).
- A11. Kavardjikov, V., G. Sharafutdinov, M. Mitov, „About application of double exposure speckle photography to determination of cylindrical specimens’ deformations”, "Elastic and elastic-plastic solids deformation problems solutions (models and methods)", Moscow University, 1992, (37-42), (in Russian).
- A12**. Nedelchev N., V. Kavardjikov, N. Terziev, „Investigation of the Deformations Due to Wood Swelling in the Process of Water Sorption by Speckle Photography”, Journal of Theoretical and Applied Mechanics, Sofia, 1992, Year XXIII, No 4.(42-50), **ISSN:0861-6663.**

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- A32. Kirilova M., S. Stoytchev, Pashkouleva D., V. Kavardzhikov, V. Tsenova, "Mechanical properties of human fascia transversalis", *Comptes rendus de l'Academie bulgare des Sciences*, vol. 59, No. 7, 2006, (731–736), **ISSN 1310-1331**.
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- A37. Kirilova, M., V. Georgieva, D. Pashkouleva, V. Kavardzhikov, S. Stoytchev, G. Georgiev, "Effect of the grafted polyzwitterions on the mechanical properties of polypropene hernial meshes", *Comptes rendus de l'Academie bulgare des Sciences*, 2009, vol. 62, No 12, (1310-1331), **ISSN 1310-1331, IF:0.204**.
- A38. Stoilov, G., J. Genov, V. Kavardzhikov, J. Kovachev, "A software system for determination of forming limit diagrams", International Book Series, "Intelligent Engineering", Book 11, Intelligent Technologies and Applications, 2009, (45-52), **ISSN 1313-0455**.
- A39. Kavardzhikov, V., D. Pashkouleva, G. Stoilov, „Abiaxial tensile test for meshes, fabrics and tissues" *Journal of Theoretical and Applied Mechanics*, 2010, vol. 40, No 2, (77-82), **ISSN 0861-6663**.
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- A41. Pashkouleva, D., G. Stoilov, V. Kavardzhikov, "Computer generated random patterns for digital image correlation method (DICM)", *Comptes rendus de l'Academie bulgare des Sciences*, 2011, vol. 64, No 6, (831-896), **ISSN 1310-1331, IF:0.204**.
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- A43. Kavardzhikov V., D. Pashkouleva, *Nanomaterial&Nanotechnology, Micro- and nanometrology*. In: *Mechanics of Nanomaterials and Nanotechnology (Series in Applied Mathematics and Mechanics*, vol. 3, Eds. V. Kavardzhikov, L. Parashkevova, A. Baltov), Institute of Mechanics – BAS, Sofia, 2012, Part IV, **Chapter 1**, 227-259, **ISSN: 1314-3034**.

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- A45. Popov Al., V. Kavardzhikov, D. Pashkouleva, “Non-destructive evaluation of the yield stress for low carbon steel by ultrasound measurements”, *Russian Journal of Nondestructive Testing*, 2013, vol. 49, № 6, 328-333, ISSN: 1061-8309(print version), ISSN: 1608-3385 (electronic version), **IF: 0.217**.

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- B3. Koulev, P., P. Sotirov, L. Hadjиков, V. Kavardjikov, I. Russev, “A solution of a two-dimensional problem concerning solid deformation by double exposure speckle photography”, *Proc. of the IV-th National Congress of Mechanics with international participation*, Varna, Bulgaria, 1981, (80-84), (in Russian).
- B4. Kavardjikov, V., L. Hadjиков, P. Koulev, V. Valeva, “An experimental study of the separation of a viscous-elastic material from a rigid cylindrical heterogeneity”, *Proc. of the 3-th National conference with international participation*, Varna, Bulgaria, 1982, (251-254), (in Russian).
- B5*. Hadjиков L., V. Kavardjikov, V. Valeva, “Boundary Element and Speckle Photography Methods for Solving Elastoplastic Problems”, *TRANSACTIONS of the 8-th International Conference on Structural Mechanics in Reactor Technology*, Brussels, Belgium, 1985, (141-146).
- B6*. Hadjиков, L., V. Kavardjikov, V. Valeva, P. Bekiarova, “An application of the one beam speckle interferometry and the finite difference method to determination of inelastic areas at metal specimens”, *Proc. the 5-th National Congress of Mechanics with international participation*, Varna, Bulgaria, 1985, (480-485), (in Bulgarian).
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- B12. Shapiro, V., V. Kavardjikov, D. Goutev, “A direct method for automatic processing of Young's fringe images”, *Proc. of the III-th International symposium “Current problems of rheology, biorheology and biomechanics”*, Moscow, 1992, September, (192-196).

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- B24. Kotsilkova, R., V. Stoianov and V. Kavardjikov, "Volume fraction and size dependencies in rheology and flow-induced structure of fiber suspension", Proc. of the II-th Symposium "Advances in Structured and Heterogenous Continua", Moscow, August, 1995, (abstract)
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- B44. Popov Al., V. Kavardzhikov, D. Pashkouleva, "Non-destructive evaluation of characteristics of stress-strain diagrams for iron-carbon alloy systems", Proc. of the XI National Congress on Theoretical and Applied Mechanics, Borovets, Bulgaria, September 2-5, 2009, ISSN: 1313-9665.
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August 2016 .

