

Selected Publications

A. Research papers published in referred research journals

- [A1] “*Multiplicity of singular values for tensors*” (with K.C. Chang); Commun. Math. Sci. (2009) **vol. 7** (3) pp.611–625
- [A2] “*On eigenvalue problems of real symmetric tensors*” (with K.C. Chang and Kelly Pearson); J. Math. Anal. Appl. (2009) **350** pp.416–422
- [A3] “*Perron Frobenius Theorem for nonnegative tensors*” (with K.C. Chang and Kelly Pearson); Commun. Math. Sci. (2008) **vol. 6** (2) pp.507–520
- [A4] “*Reducible over any finite field but irreducible over \mathbf{Q}* ” (with Kelly Pearson); Int. Math. Forum (2008) **3** (33) pp.1607–1610
- [A5] “*Multiple solutions of the prescribed mean curvature equation*” (with K. C. Chang); Inspired by S.S. Chern, Nankai Tracts in Mathematics, **vol. 11** (2006) pp.113–127
- [A6] “*The dimension of the cohomology groups of the Orlik-Solomon algebras*” (with Kelly Pearson); Algebra Colloq. (2005) **12** (4) pp.541–552
- [A7] “*Topological complexity and motion planning in certain real Grassmannians*” (with Kelly Pearson); Appl. Math. Lett. (2004) **17** pp.499–502
- [A8] “*Orbits of quantum states and geometry of Bloch vectors for N -level system*” (with Sonia Schirmer and John Leahy); J. Phys. A: Math. Gen. (2004) **37** pp.1389–1402
- [A9] “*Szabó Osserman IP pseudo Riemannian manifolds*” (with Peter Gilkey and Raina Ivanova); Publ. Math. Debrecen (2003) **vol. 62** (3-4) pp.387-401
- [A10] “*The nonexistence of rank 4 IP tensors in signature (1,3)*” (with Kelly Pearson); Int. J. Math. Math. Sci. (2002) **vol. 31** (5) pp.259–269
- [A11] “*Higher order Jordan Osserman pseudo Riemannian manifolds*” (with Peter Gilkey and Raina Ivanova); Classical Quantum Gravity (2002) **19** pp.4543-4551
- [A12] “*Algebraic curvature tensors for indefinite metrics whose skew-symmetric curvature tensor has constant Jordan normal form*” (with Peter Gilkey); Houston J. Math. (2002) **vol. 28** (2) pp.311–328
- [A13] “*Algebraic curvature tensors whose skew-symmetric curvature operator has constant rank 2*” (with Peter Gilkey); Period. Math. Hungar. (2002) **vol. 44** (1) pp.7–26
- [A14] “*Applications of algebraic topology in bounding the rank of the skew-symmetric curvature operator*”; Topology Appl. (2002) **vol. 124** (1) pp.9–24

B. Research papers published in referred conference proceedings

- [B1] “*The spectral geometry of the Riemann curvature tensor*”; (with Peter Gilkey and Raina Ivanova); Trends in Mathematics (Proceedings of Daewoo Workshops in Pure Mathematics 2002) **vol. 5** (2) pp.105–114
- [B2] “*Manifolds with indefinite metrics whose skew-symmetric curvature operator has constant eigenvalues*” Steps in Differential Geometry (Proceedings of the Colloquium on Differential Geometry, Debrecen 2001), pp.401–407