Selected Publications

Books:


Articles:

- Radon transform on Grassmannians for mutually orthogonal planes (joint with Yingzhan Wang), arXiv:1901.01150 [math.FA].

- Reconstruction of functions on the sphere from their integrals over hyper-plane sections, arXiv:1810.09017 [math.FA].


- Norm estimates for k-plane transforms and geometric inequalities, arXiv:1801.00186 [math.MG].


- On the determination of star bodies from their half-sections, Mathematika 63 (2017), no. 2, 462-468.

- Gegenbauer-Chebyshev integrals and Radon transforms, I, Analysis and Mathematical Physics, 7 (1917), Issue 2, 117-150.

- Radon Transforms and Gegenbauer-Chebyshev integrals, II; Examples, Analysis and Mathematical Physics, 7 (1917), Issue 4, 349–375.


- Comparison of volumes of convex bodies in real, complex, and quaternionic spaces, Advances in Math., 225 (2010), 1461-1498.


- The Radon transform of functions of matrix argument (with E. Ournycheva), math.FA/0406573.


- Composite cosine transforms (with E. Ournycheva), Mathematika, 52 (2005), 53-68.


- Reconstruction of functions from their integrals over $k$-planes, Israel J. of Math., 141 (2004), 93-117.


- Spherical harmonics associated to the Laplace-Bessel operator and generalized spherical convolutions (with I.A. Aliev), Analysis and Applications (Singap), 1, (2003), 81-109.


See also MathSciNet for the complete list of publications.