

Publication List

Note: Publications 1–8 were done when I was a graduate student of master program in China.

1. On normal families and singular directions of meromorphic functions with multiplicity values, *J. Fujian Normal Univ.* 1(1984), 21–38.
2. On a normal criteria of a class of functions, *J. Fujian Normal Univ.* 1(1984), 153–158.
3. On normal families of meromorphic functions (with H. Xie), *Advance in Math., China* 1(1985) 71–73.
4. Moduli distribution and normal families (with H. Xie), *Pure and Appl. Math. (China)* 1(1986), 57–67.
5. On the distributions of the singular directions of gap entire functions, *J. Fujian Normal Univ.* 2(1986), 1–7.
6. A note on Bloch law, *J. Math. Res. Expo.* 2(1986), 10–11.
7. On normal families of meromorphic functions (with H. Xie), *Acta Math. Sinica* 4(1986), 468–476.
8. Hayman directions of meromorphic functions in the complex plane, *Acta Math. Sinica Series (2)*, 4(1988), 97–110.
9. A Plessner decomposition along transverse curves (with F. Beatrous), *Can. J. Math.* 5(1988), 1243–1255.
10. Toeplitz and Hankel operators on $H^p(S)$ with $0 < p \leq 1$, *Integral Equations and Operator Theory*, 5(1992), 807–824.
11. Corona problem of several complex variables, *Contemporary Mathematics*, 137 (1992), 307–328.
12. On the boundedness and compactness of operators of Hankel type (with F. Beatrous), *J. of Functional Analysis*, 111 (1993), 350–379.
13. A note on Hardy spaces and functions of bounded mean oscillation on domain in \mathbf{C}^n (with S. G. Krantz), *Michigan J. of Mathematics*, 41(1994), 51–72.
14. On the Dunford-Pettis property for some functions algebras in domains in \mathbf{C}^n (with B. Russo), *J. of London Mathematics Society*, 50(1994), 392–403.
15. On the compactness of composition operators on Hardy spaces in strongly pseudoconvex domains in \mathbf{C}^n (with B. Russo), *Proceeding of A.M.S.*, 123(1995), 161–172.
16. Some remarks on the Corona problem in strongly pseudoconvex domains in \mathbf{C}^n (with S. G. Krantz), *Illionis J. of Mathematics*, 39(1995), 323–349.

17. On the Neumann problems of complex Monge-Ampère equations, *Indiana University J. of Mathematics*, 44(1995), 1099–1122.
18. Hadamard products for the spaces of holomorphic functions in the unit ball in \mathbf{C}^n (with J. Burbea), *Pacific J. of Mathematics*, 168(1995), 235–270.
19. A criteria for composition operators belonging to Schatten trace ideal on Bergman spaces, *Amer. J. of Math.*, 117(1995), 1299–1323.
20. On the decomposition theorems of Hardy spaces on domains in \mathbf{C}^n and applications (with Steven Krantz), *J. of Fourier Analysis and Application*, 2(1995), 65–107.
21. On the trace ideals of operators of Hankel type in a domain in \mathbf{C}^n (with F. Beatrous), *Illinois J. of Mathematics*, 39(1995), 723–754.
22. Characterization of the boundedness for a family of commutators on L^p , *Colloquium Math.*, Vol LXX(1996), 59–71.
23. Duality Theorems for Hardy and Bergman Spaces on Convex Domain of Finite Type in \mathbf{C}^n (with S. Krantz), *Annales of the Fourier Institute in Grenoble*, 45(1995), 1305–1327.
24. The explicit solution for the Lipschitz Corona problem in the polydisc (with S. G. Krantz), *Pacific J. of Math.*, vol iii (1996), 287–302.
25. Factorization theorems for functions in subspaces of L^1 and application to Corona problem, (with S. Krantz) *Indiana U. J. of Math.*, 45 (1996), 83–102.
26. Effect of the boundary regularity on the singular numbers of the Friechers operators on Bergman spaces, (with S. Krantz, P. Lin and R. Rochberg), *Michigan Math. J.*, 43(1996), 337–348.
27. Area integral characterizations of functions in Hardy space on domains in \mathbf{C}^n (with S. Krantz), *Complex variables*, 32(1997), 373–399.
28. On the real analytic hypoellipticity for $\bar{\partial}$ and $\bar{\partial}_b$ (with M. Christ), *Math. Z.*, 32(1997), 373–399.
29. Composition operators belongs to trace ideals on weighted Bergman spaces of bounded symmetric domains in \mathbf{C}^n (with B. Russo), *Annali D. Math. Pure Appl.*, CLXXII,1997 379–394.
30. On the holomorphic extension of maps from the boundaries of Kähler manifolds, (with J. Chen), *Tohoku Math. J.*, 49(1997), 585–597.
31. Effect of the boundary geometry on the Hankel operators belonging to trace ideals of Bergman spaces, (with Krantz and Rochberg), *IEOT*, 28(1997), 196–213.

32. On some analysis of function spaces associated with Hankel operators (with S. Krantz and R. Rochberg), *Ill. J. of Math.*, 41(1997), 398–411.
33. Hankel operators in Dixmier class (with B. Russo), *C.R. Acad. Sci. Paris*, t. 324, Series 1 (1997), 21–26.
34. On oblique boundary value problems of Monge-Ampère equations, *Pacific J. of Math.*, 190(1999), 155–172.
35. On the Boundedness of Multipliers, Commutators and Second Derivatives of Green's Operators on H^1 and BMO (with D. C. Chang), *Annali della Scuola Normale Superiore di Pisa*, XX VIII (1999), 341–356..
36. On the holomorphicity of proper harmonic maps between balls in \mathbf{C}^n with Bergman metrics (with L. Ni), *Math. Ann.*, 316 (2000), 333-354.
37. Applications of the singular integral operators in real and complex analysis, *Advance in Math.* , China, 29 (2000), 481–501..
38. On the Existence of Smooth Plurisubharmonic Solutions for Certain Degenerate Monge-Ampère Equations (with S. Krantz), *Complex variables*, 41(2000), 207–219.
39. Boundedness and compactness of integral operators on space of homogeneous type and application (I) (with S. Krantz), *J. of Math. Analysis and Applications*, 258(2001), 629–641.
40. Boundedness and compactness of integral operators on space of homogeneous type and application (II) (with S. Krantz), *J. of Math. Analysis and Applications*, 258(2001), 642–657.
41. A Riemann zeta functions associated to sub-Laplacian on the boundary of the unit sphere in \mathbf{C}^n (with D-C. Chang), *Journal d'Analyse Mathématique*, 86(2002), 25–48.
42. Boundary behavior of harmonic functions of Bergman metric on polydisc (with E. Simon), *Amer. J. of Math.*, 124(2002), 1045–1057.
43. The Sharp Lower Bound for the First Positive Eigenvalue of Sub-Laplacian on a Pseudo-Hermitian Manifolds (with H-S. Luk), *Proc. AMS*, 132(2003), 789-798.
44. On existence and regularity for the Dirichlet boundary value problem for complex Monge-Ampère equations on weakly pseudoconvex domains in \mathbf{C}^n , *Calculus of Variation and PDEs*, 20(2004), 119–132.
45. On the Dirichlet problems for the elementary symmetric function equations of the eigenvalues of complex hessian, *Asian Journal of Mathematics*, 8(2004), 87–106.
46. Criteria for Schatten Class Composition Operators on Hardy and Bergman Spaces, *Geometric Function Theory in Several Complex Variables*, edited by Carl H FitzGerald & Sheng Gong, 2004.

- 47 Some function theoretical results on domains in \mathbf{C}^n , *Proceeding of ICCM 2001*, Editors: C-S Lin, L. Yang and S.T. Yau, International press, 2004.
48. Characterization for Balls by Potential Function of Kähler-Einstein Metrics for domains in \mathbf{C}^n , *Comm. in Analysis and Geometry*, 13(2005), 461–478.
49. On characterization of Besov space and application. Part I (with W. Luo), *J. of Math. Analysis and Applications*, 310(2005), 477-491.
50. Analysis on Besov spaces II: Embedding and Duality Theorems (with W. Luo), *J. of Math. Analysis and Applications*, 2007, to appear.
- 51 An explicit formula Webster pseudo Ricci curvature and its applications for characterizing balls in \mathbf{C}^{n+1} (with H.-S. Luk), *Communication in Analysis and Geometry*, 14(2006), 673-701.
- 52 An explicit formula for the Webster torsion of a pseudo-hermitian manifold and its application to torsion-free hypersurfaces (with H-S. Luk), *Science in China*, 49(2006), 1662–1682.
- 53 Composition Operators and Isometries on Holomorphic Function Spaces over Domains in \mathbf{C}^n , *The Proceedings of the International Conference on Complex Geometry and Related Fields*, AMS/IP Studies in Advanced Math., IP press, 39(2007), 161–174.
54. On Pseudo-hermitian CR Manifolds, *Proceeding of ICCM 2004, Hong-Kong*, to appear.
55. On proper harmonic map between two strictly pseudoconvex domains with Kähler metrics (with E. Simon), *Asian Journal of Mathematics*, 11(2007), 251–276.
56. On Characterizations of Isometries on Function Spaces (joint with Yingbin Ruan), *Sciences in China*, 2007, to appear.
57. On existence and regularity for the holomorphic solutions of nonlinear parabolic type partial differential equations with holomorphic initial data (with E. Titi), Preprint.
58. On the existence and regularity for solutions of $\bar{\partial}_b$ on the boundary of convex domain in \mathbf{C}^2 (with M. Christ), Preprint.
59. Characterization for a class of pseudoconvex domains whose boundaries having positive constant pseudo scalar curvature, Preprint.