List of Publications of Professor Ding Xiaxi

Papers

1. Differential equations of mixed type (in Chinese), *Acta Mathematica Sinica*, **5** (2) (1955) , 192–204.

2. Uniqueness of Tricomi problem on Chaplygin equation (in Chinese) (with Ou Xin-Mou), *Acta Mathematica Sinica*, **5** (3) (1955), 393–399.

3. On embedding theorems (in Chinese), *Science Record, New Series*, **1** (5) (1957), 287–290.

4. Some properties on a class of Banach spaces. *Science Record*, **2** (2) (1958), 57–60.

5. Definition of ellipticity of second order systems with constant coefficients (in Chinese) (with Wang Kang-Ting, Ma Ru-Nian and Zhang Tong), *Acta Mathematica Sinica*, **10** (3) (1960), 276–287.

6. Difinition of ellipticity of second order system with constant coefficients (in Chinese) (with Wang Kang-Ting, Ma Ru-Nian and Zhang Tong), *Science Record*, **4** (3) (1960), 126–128.

7. Some properties of a class of functional spaces and application, *Acta Mathematica Sinica*, **10** (3) (1960), 316–360.

8. Definition of ellipticity of second order system with constant coefficients (in Russian), (with Wang Kang-Ting, Ma Ru-Nian and Zhang Tong), *Science Record, New Series*, **4** (3) (1960), 160–163.

9. An announcement on the paper "Some properties of a class of functional spaces and application" (in Chinese), *Acta Mathematica Sinica*, **12** (1) (1962), 107–108.

10. Necessary and sufficient condition for the uniqueness of Dirichlet problem of the second order systems with constant coefficients (in Russian), *Scientia Sinica*, **11** (11) (1962), 1475–1479.

11. Differential Equations of Mixed Type, Selected Translations Series II, Vol.33, Translated by Seminar at Wayne State University, 47–58.

12. A class of functional inequalities (in Chinese), *Mathematical Advancement*, **7** (1) (1964), 49–56.

13. A study of the global solution for quasilinear hyperbolic systems of conservations laws (with Zhang Tong, Wang Jinghua, Xiao Ling and Li Caizhong), *Scientia Sinica*, **14** (3) (1973), 317–335.

14. Global solutions for quasilinear hyperbolic systems of conservation laws (in Chinese) (with Zhang Tong, Wang Jinghua, Xiao Ling and Li Caizhong), *Scientia Sinica*, (3) (1973), 239–254.

15. A mean value theorem (in Chinese) (with Pang Cheng-Dong), *Acta Mathematica Sinica*, **18** (4) (1975), 254–262.

16. On the representations of every large even number as a sum of a prime and an almost prime (with Wang Yuan and Pan Cheng-Dong), *Scientia Sinica*, **18** (5) (1975), 599–610.

17. On the representations of every large even number as a sum of a prime and an almost prime (in Chinese) (with Wang Yuan and Pan Cheng-Dong), *Journal of Shandong University*, (2) (1975), 15–26.

18. A mean value theorem (in Chinese) (with Pan Cheng-Dong), *Journal of Shandong University*, (4) (1975).

19. Correctness on "A mean value theorem" (in Chinese) (with Pan Cheng-Dong), *Acta Mathematica Sinica*, **19** (3) (1976), 217–218.

20. Finite element method for a 4th order nonlinear equation (in Chinese) (with Jiang Lishang, Lin Qun and Luo Peizhu), *Acta Mathematica Sinica*, **20** (2) (1977), 109–118.

21. On some imbedding theorem, *Scientia Sinica*, **21** (3) (1978), 287–297.

22. On weighted Bessel potential (in Chinese), *Journal of Wuhan University*, (1) (1978), 13–22.

23. Special spaces and error estimates, *Kexue Tongbao*, **23** (1) (1978), 19–26.

24. Spaces $B_{p,q}^{\bar{r}}(\phi)$ and $L_p(\phi)$ error estimate of difference method (in Chinese) (with Luo Peizhu), *Journal of Shandong University*, (2) (1978), 93–96.

25. Some function spaces and embedding theorems, Procceddings of 1978 Hanzhou Conference on Function Approximations,

26. Imbedding theorems of the space $L_p^{\bar{l}}(E_n)$, (in Chinese), *Acta Mathematica Sinica*, **22** (2) (1979), 258–260.

27. A new mean value theorem (with Pan Cheng-Dong), *Scientia Sinica, Special Series* (1979), 149–161.

28. Embedding theorem and large Sieve over algebraic number field (in Chinese), *Acta Mathematica Sinica*, **22**(4) (1979), 448–458.

29. Some results on $L_p(\phi)$ estimates, *Kexue Tongbao*, **24**(8) (1979), 244-246.

30. On $L_p(\phi)$ estimates (in Chinese) (with Luo Peizhu), *Kexue Tongbao*, **24**(18) (1979), 825–828.

31. Trace theorem of the spaces $W^l L_p(\phi)$ and calculus of variations with strong nonlinearity (in Chinese) (with Luo Peizhu, Fang Huizhong, and Gu Yonggeng). *Journal of Wuhan University*, **2** (1979), 4–15.

32. The spaces $L_p(\phi)$ and weighted Bessel potential (in Chinese), *Acta Mathematica Sinica*, **23**(1) (1980), 135–145.

33. Trace theorems of a class of Orlicz-Sobolev spaces and calculus of variations with strong nonlinearity (in Chinese) (with Luo Peizhu, Gu Yonggeng and Fang Huizhong), *Kexue Tongbao*, (15) (1980), 676–678.

34. Calculus variations with strong nonlinearity (with Luo Peizhu, Gu Yonggeng and Fang Huizhong), *Scientia Sinica*, **23**(8) (1980), 945–955.

35. A note on second order elliptic systems with constant coefficient (with Gu Yonggeng), *Proceedings of the 1980 Beijing Symposium on Differential Geometry and Differential Equations*. Vol. III, 1221–1226.

36. Spaces of differentiable functions and calculus of variations. Proceedings of the 1980 Beijing Symposium on Differential Geometry and Differential Equations, Vol. III, 1171–1177.

37. Trace theorem of the spaces $W^l L_p(\phi, \Omega)$ and calculus variations with strong nonlinearity, *Kexue Tongbao*, **25**(12) (1980), 981–984.

38. Spaces $B_{p,q}^{(\bar{r})}$ and difference method (in Chinese) (with Luo Peizhu), *Acta Mathematica Scientia*, **1**(2) (1981), 227–239.

39. On the interior regularities of solutions of quasilinear elliptic equation (with Luo Peizhu, Gu Yonggeng and Fang Huizhong), *Acta Mathematica Scientia*, **1**(1) (1981), 93–113.

40. The spaces of differential functions and differential equations, Institute of System Sciences, Academia Sinica.