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Research Projects	1. Jan.2018--Dec.2021, Principal investigator, NSFC (No. 11771291), Existence and stability of solitary waves in nematic liquid crystals. 2. Jan.2015--Dec.2017, Principal investigator, Shanghai Natural Science Foundation (No. 15ZR1429500), Critical point theory and its application in solitary waves in nematic liquid crystals. 3. Apr.2011--Mar.2014, Principal investigator, Shanghai Natural Science Foundation (No. 11ZR1424500), The variational method and qualitative research on semilinear Schrödinger equation and Dirac equation. 4. June 2007--Feb.2009, Principal investigator, China

	Postdoctoral Science Foundation (No.20070410738), Theoretical and numerical methods on nonlinear variational problems. 5. Sep.2007--Dec.2009, Principal investigator, Scientific innovation projects of Shanghai Education Committee (No.08YZ93), Research on the theory and algorithm of variational inequalities. 6. Jan.2005--Dec.2006, Principal investigator, Foundation for outstanding young teachers in higher education institutions in Shanghai (No.04YQHB149), Applications of critical point theory in nonlinear differential difference equations
Publications/ Preprints	1. Guoqing Zhang, XiaoZhi Wang, Sanyang Liu, On a class of singular elliptic problems with the perturbed Hardy-Sobolev operator, CALCULUS OF VARIATIONS AND PARTIAL DIFFERENTIAL EQUATIONS, 2013, 46(1):97-111. 2. Guoqing Zhang, Zhonghai Ding, Existence of Solitary Waves in Nonlocal Nematic Liquid Crystals, Nonlinear Analysis Series B: Real World Applications., 2015, 22(1):107-114. 3. Guoqing Zhang, D. G. Costa, Existence result for a class of biharmonic equations with critical growth and singular potential in R^N, APPLIED MATHEMATICS LETTERS, 2014, 29(1):7-12. 4. Guoqing Zhang, Ground state solution for quasilinear elliptic equation with critical growth in R^N, NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS, 2012, 75(6): 3178-3187. 5. Guoqing Zhang,Jia-yu Shao, Sanyang Liu, Linking solutions for N-Laplace elliptic equations with Hardy-Sobolev operator and indefinite weights, COMMUNICATIONS ON PURE AND APPLIEDANALYSIS, 2011, 10(2):571-58. 6. Guoqing Zhang, Sanyang Liu, Some existence results for a class of four-order elliptic equations with non-smooth potential, Rocky Mountain Journal of Mathematics, 2010, 40(5):1729-1743. 7. Guioqing Zhang, Sanyang Liu, Necessary and sufficient conditions of existence for positive solution to a class of quasilinear elliptic systems in R^N, Acta Applicanda Math., 2010, 110(3):771-783.

	8. Guoqing Zhang, Weighted Sobolev spaces and ground state solutions for quasilinear elliptic problems with unbounded and decaying potentials, BOUNDARY VALUEPROBLEMS, 2013(189):1-15. 9. Guoqing Zhang, Shoudong Man, Weiguo Zhang, On a class of critical singular quasilinear elliptic problem with indefinite weights, NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS, 2011, 74(14):4771-4784. 10. Guoqing Zhang, Jing Sun, Morse theory and its application in a class of N-Laplacian equations, Acta Mathematica Sinica,Chinese Series , 2014, 57(2):261-271.
Academic Service	Aug.2011--present, Reviewer of Mathematical Reviews, American Mathematical Society