

Publication List

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[53] Landau-Lifshitz-Maxwell equations in dimension three. To appear, *Pacific Journal of Mathematics* (with S. J. Ding, X. G Liu).

[52] Regularity of Dirac-harmonic maps. To appear, *Int. Math. Research Notices* (with D. L. Xu).

[51] A remark on nonlinear Dirac equations. To appear, *Proceedings of American Mathematical Society*.

[50] The Analysis of Harmonic Maps and Their Heat Flows. World Scientific Publishing Inc (2008), ISBN-109812779423 (with F. H. Lin).

[49] Boundary regularity of polyharmonic maps in critical dimension. To appear, *Advances in Calculus of Variations* (with T. Lamm).

[48] Aronsson's equation on Carnot-Carathéodory spaces. To appear, *Illinois Journal of Mathematics* (with Y. Yu).

[47] Uniqueness and nonuniqueness of viscosity solutions to Aronsson's equation. *Arch. Ration. Mech. Anal.*, in press (with R. Jensen, Y. Yu).

[46] C^1 -regularity of the Aronsson equation in \mathbb{R}^2 . *Ann. Inst. H. Poincaré Anal. Non Linéaire* 25 (2008) 659-678 (with Y. Yu).

[45] Derivation of Aronsson's equation for C^1 Hamiltonian. *Trans. A.M.S.*, in press (with M. Crandall, Y. Yu).

[44] Asymptotic behavior of infinity harmonic functions near an isolated singularity. *International Mathematics Research Notices* Vol. 2008, article ID rnm163, 23 pages (with O. Savin, Y. Yu).

[43] Harmonic maps from manifolds of L^∞ -Riemannian metrics. *Calc. Var. & PDE* (2008), Vol 32, 387-405 (with W. Ishizuka).

[42] Heat flow of harmonic maps whose gradients belong to $L(n, \infty)$. *Arch. Ration. Mech. Anal.* 188 (2008), 309-349.

[41] Finite time singularity of Landau-Lifshitz-Gilbert equation. *International Mathematics Research Notices*, Vol. 2007, 1-25 (with S. J. Ding).

[40] The heat flow of biharmonic maps from four dimensional manifolds. *Pure and Applied Mathematics Quarterly* (Special issue in honor of L.Simon), Vol. 3, No. 2 (2007) 595-613.

[39] The Aronsson equation for absolute minimizers of L^∞ functionals associated with vector fields satisfying Hormander's condition. *Transactions of American Mathematical Society*, Vol. 359, no. 1 (2007) 91-113.

[38] On Landau-Lifshitz equation in dimensions at most four. *Indiana University Mathematics Journal*, Vol. 55, no. 6 (2006) 1615-1644.

[37] Comparison principle with generalized cones for viscosity solutions of the Aronsson equation and absolute minimizers. *Communications in Partial Differential Equations*, V.31, no. 7 (2006) 1027-1046 (with R. Gariepy, Y. Yu).

- [36] Stable-stationary harmonic maps into spheres. *Acta Math. Sin. (Engl. Ser.)* 22 (2006), no.2, 319-330 (with F-H Lin).
- [35] Viscosity convex functions on Carnot groups. *Proceedings of American Mathematical Society*, 133 (2005), no.4, 1247-1253.
- [34] A compactness theorem of n-harmonic maps. *Ann. Inst. H. Poincaré Anal. Non Linéaire*, 22 (2005), no.4, 509-519.
- [33] Regularity and Relaxed Problems of minimizing biharmonic maps into spheres. *Calculus of Variations and Partial Differential Equations*, 23 (2005), no.4, 425-450 (with M. C. Hong).
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- [22] Harmonic and quasi-harmonic spheres, part III—Rectifiability of the parabolic defect measure and the generalized varifold flow. *Ann. Inst. H. Poincaré Anal. Non Linéaire*, 19, 2(2002) 209-259 (with F. H. Lin).
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