

A list of my papers

- [21] Gao, Laiyuan; Zhang, Yuntao; Zhang, Shicheng Star-shaped Curves under Gage's Area-preserving Flow and the CSF. arXiv:2412.18102
- [20] Gao, Laiyuan; Pan, Shengliang Evolving convex curves by a generalized length-preserving flow. arXiv:2012.11549
- [19] Gao, Laiyuan; Pan Wenjing; Zhang, Yuntao Evolving star-shaped curves to equichordal curves. Internat. J. Math. Vol. 36(2025), No. 09, Paper No.2550025, 16 pages.
- [18] Gao, Laiyuan; Wang, Zheqi Evolving an immersed star-shaped curve to another one with same winding number. J. Differential Equations Vol. 424 (2025), 421-437.
- [17] Gao, Laiyuan; Martini, Horst; Zhang, Deyan Deforming locally convex curves into curves of constant k -order width. Differential Geom. Appl. 97 (2024), Paper No. 102192, 15 pages.
- [16] Gao, Laiyuan Whitney-Graustein homotopy of locally convex curves via a curvature flow. Math. Res. Lett. 30 (2023), no. 4, 1045–1062.
- [15] 高来源, 郝瑞霞, 潘生亮 非局部平面曲线流——献给姜礼尚教授 90 华诞. 中国科学-数学, No.3, 54 (2024), 1 - 16.
- [14] Gao, Laiyuan; Pan, Shengliang Star-shaped centrosymmetric curves under Gage's area-preserving flow. J. Geom. Anal. 33 (2023), no. 11, Article No. 348, 25 pages.
- [13] Gao, Laiyuan; Zhang, Yuntao Evolving compact locally convex curves and convex hypersurfaces. Manuscripta Math. 167 (2022), no. 1-2, 365–375.
- [12] Gao, Laiyuan; Pan, Shengliang; Shi, Ke A log-type non-local flow of convex curves. Comm. Anal. Geom. 29 (2021), no. 5, 1157–1182.
- [11] Gao, Laiyuan; Pan, Shengliang; Tsai, Dong-Ho On an area-preserving inverse curvature flow of convex closed plane curves. J. Funct. Anal. 280 (2021), no. 8, Paper No. 108931, 31 pages.
- [10] Gao, Laiyuan; Zhang, Zhongyun; Zhou, Fei An extension of Rabinowitz's polynomial representation for convex curves. Beitr. Algebra Geom. 61 (2020), no. 3, 455–464.
- [9] Gao, Laiyuan; Pan, Shengliang; Tsai, Dong-Ho Nonlocal flow driven by the radius of curvature with fixed curvature integral. J. Geom. Anal. 30 (2020), no. 3, 2939–2973.
- [8] Gao, Laiyuan; Pan, Shengliang; Tsai, Dong-Ho On a length-preserving inverse curvature flow of convex closed plane curves. J. Differential Equations 269 (2020), no. 7, 5802–5831.
- [7] Gao, Laiyuan; Zhang, Yuntao On Yau's problem of evolving one curve to another: convex case. J. Differential Equations 266 (2019), no. 1, 179–201.
- [6] Gao, Laiyuan; Zhang, Yuntao Evolving convex surfaces to constant width ones. Internat. J. Math. 28 (2017), no. 11, 1750082, 18 pp.
- [5] Gao, Laiyuan; Pan, Shengliang Gage's original normalized CSF can also yield the Grayson theorem. Asian J. Math. 20 (2016), no. 4, 785–794.
- [4] Gao, Laiyuan; Tsai, Dong-Ho On a third order flow of convex closed plane curves. Taiwanese J. Math. 20 (2016), no. 3, 553–567.
- [3] Gao, Laiyuan; Pan, Shengliang; Yang, Yunlong Some notes on Green-Osher's inequality. J. Math. Inequal. 9 (2015), no. 2, 369–380.
- [2] Gao, Laiyuan; Wang, Yiling Deforming convex curves with fixed elastic energy. J. Math. Anal. Appl. 427 (2015), no. 2, 817–829.
- [1] Gao, Laiyuan; Pan, Shengliang Evolving convex curves to constant-width ones by a perimeter-preserving flow. Pacific J. Math. 272 (2014), no. 1, 131–145.

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