A list of my papers

[24] **Gao, Laiyuan** *Relatively elastic curves and a curvature flow*. In preparation.

[23] **Gao, Laiyuan** *Remarks on Gage's inequality and the higher dimensional analogs*. to be submitted.

[22] **Gao, Laiyuan; Hou, Haoran** *Gaps between consecutive Dirichlet eigenvalues for positively curved domains*, submitted.

[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] **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), 407–422.

[15] **Gao, Laiyuan** *Whitney-Graustein homotopy of locally convex curves via a curvature flow*. Math. Res. Lett. 30 (2023), no. 4, 1045–1062.

[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.

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[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.

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[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.

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[2] **Gao, Laiyuan; Wang, Yiling** *Deforming convex curves with fixed elastic energy*. J. Math. Anal. Appl. 427 (2015), no. 2, 817–829.

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