List of publications by Renjun Duan

• Peer-reviewed research papers accepted and published

- 1. With Shuangqian Liu and Tong Yang: The Boltzmann equation for plane Couette flow, **Journal of the European Mathematical Society** (online published, 16 December 2023). DOI
- 2. With Ling-Bing He, Tong Yang, and Yu-Long Zhou: Solutions to the non-cutoff Boltzmann equation in the grazing limit, **Annales de l'Institut Henri Poincaré**, **Analyse Non Linéaire**, 41 (2024), no. 1, 1–94. DOI
- 3. With Shota Sakamoto and Yoshihiro Ueda: An $L_k^1 \cap L_k^p$ approach for the non-cutoff Boltzmann equation in \mathbb{R}^3 , **SIAM Journal on Mathematical Analysis**, 56 (2024), no. 1, 762–800. DOI
- 4. With Gyounghun Ko and Donghyun Lee: The Boltzmann equation with a class of large-amplitude initial data and specular reflection boundary condition, **Journal of Statistical Physics**, 190 (2023), no. 12, Paper No. 189, 46 pp. DOI
- 5. With Dongcheng Yang and Hongjun Yu: Compressible Euler-Maxwell limit for global smooth solutions to the Vlasov-Maxwell-Boltzmann system, **Mathematical Models and Methods in Applied Sciences**, 33 (2023), no. 10, 2157–2221. DOI
- 6. With Zongguang Li: Global bounded solutions to the Boltzmann equation for a polyatomic gas, **International Journal of Mathematics**, 34 (2023), no. 7, Paper No. 2350036, 43 pp. DOI
- 7. With Dingqun Deng: Low regularity solutions for the Vlasov-Poisson-Landau/Boltzmann system, **Nonlinearity**, 36 (2023), no. 5, 2193–2248. DOI
- 8. With Dingqun Deng: Spectral gap formation to kinetic equations with soft potentials in bounded domain, Communications in Mathematical Physics, 397 (2023), no. 3, 1441–1489. DOI
- 9. With Shuangqian Liu: On smooth solutions to the thermostated Boltzmann equation with deformation, Communications in Mathematical Analysis and Applications, 1 (2022), no. 1, 152–212. DOI
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- 17. With Dongcheng Yang and Hongjun Yu: Small Knudsen rate of convergence to rarefaction wave for the Landau equation, **Archive for Rational Mechanics and Analysis**, 240 (2021), no. 3, 1535–1592. DOI
- 18. With Shuangqian Liu, Shota Sakamoto and Robert M. Strain: Global mild solutions of the Landau and non-cutoff Boltzmann equations, **Communications on Pure and Applied Mathematics**, 74 (2021), no. 5, 932–1020. DOI
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- 20. With Shuangqian Liu and Zhu Zhang: Ion-acoustic shock in a collisional plasma, **Journal** of Differential Equations, 269 (2020), no. 4, 3721–3768. DOI
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