

- [1] **Q Huang***, C Rohde, W-A Yong, R Zhang. A hyperbolic relaxation system of the incompressible Navier-Stokes equations with artificial compressibility. 2024, arXiv:2411.15575. <https://doi.org/10.48550/arXiv.2411.15575>.
- [2] R Zhang, Y Chen, **Q Huang***, W-A Yong. Dissipativeness of the hyperbolic quadrature method of moments for kinetic equations. 2024, arXiv:2406.13931. <https://doi.org/10.48550/arXiv.2406.13931>
- [3] R Zhang, **Q Huang***, W-A Yong. Stability analysis of an extended quadrature method of *SIAM Journal on Mathematical Analysis*, 2024, 56(4): 4687-4711. <https://doi.org/10.1137/23M157911X>.
- [4] Z Wang, **Q Huang***, G Liu, K Wang, J Lyu, S Q Li. Knowledge-inspired data-driven prediction of metal overheating risks in flexible utility boilers. *Applied Energy*, 2024, 364: 123185. <https://doi.org/10.1016/j.apenergy.2024.123185>.
- [5] Y Chen, **Q Huang***, W-A Yong, R Zhang. Poisson quadrature method of moments for 2D kinetic equations with velocity of constant magnitude. *Multiscale Modeling and Simulation*, 2025, in press. arXiv:2308.10083. <https://doi.org/10.48550/arXiv.2308.10083>.
- [6] Y Chen, **Q Huang***, W-A Yong. Discrete-velocity-direction models of BGK-type with minimum entropy: II. Weighted model. *Journal of Scientific Computing*, 2024, 99: 84. <https://doi.org/10.1007/s10915-024-02531-3>.
- [7] **Q Huang**, Y Chen, W-A Yong. Discrete-velocity-direction models of BGK-type with minimum entropy: I. Basic idea. *Journal of Scientific Computing*, 2023, 95: 80. <https://doi.org/10.1007/s10915-023-02211-8>
- [8] **Q Huang**, J Koellermeier, W-A Yong. Equilibrium stability analysis of hyperbolic shallow water moment equations. *Mathematical Methods in the Applied Sciences*, 2022, 45: 6459-6480. <https://doi.org/10.1002/mma.8180>
- [9] **Q Huang**, S Q Li, W-A Yong. Stability analysis of quadrature-based moment methods for kinetic equations. *SIAM Journal on Applied Mathematics*, 2020, 80: 206-231. <https://doi.org/10.1137/18M1231845>
- [10] P Ma, **Q Huang***, T Si, Y Yang, S Q Li. Experimental investigation of NO_x emission and ash-related issues in ammonia/coal/biomass co-combustion in a 25-kW down-fired furnace. *Proceedings of the Combustion Institute*, 2023, 39: 3467-3477. <https://doi.org/10.1016/j.proci.2022.07.223>
- [11] P Ma, **Q Huang***, Z Wu, J Lyu, S Q Li. Optical diagnostics on coal ignition and gas-phase combustion in co-firing ammonia with pulverized coal on a two-stage flat flame burner. *Proceedings of the Combustion Institute*, 2023, 39: 3457-3466. <https://doi.org/10.1016/j.proci.2022.07.221>
- [12] **Q Huang**, P Ma, L Cai, S Q Li*. Kinetic simulation of fine particulate matter evolution and deposition in a 25 kW pulverized coal combustor. *Energy & Fuels*, 2020, 34: 15389-15398. <https://doi.org/10.1021/acs.energyfuels.0c02440>.
- [13] **Q Huang**, S Q Li, Y Shao, Y Zhao, Q Yao. Dynamic evolution of impaction and sticking behaviors of fly ash particle in pulverized coal combustion. *Proceedings of the Combustion Institute*, 2019, 37: 4419-4426. <https://doi.org/10.1016/j.proci.2018.06.035>

- [14] **Q Huang**, Y Zhang, Q Yao, S Q Li. Mineral manipulation of Zhundong lignite towards fouling mitigation in a down-fired combustor. *Fuel*, 2018, 232: 519-529. <https://doi.org/10.1016/j.fuel.2018.05.139>
- [15] **Q Huang**, S Q Li, G D Li, Q Yao. Mechanisms on the size partitioning of sodium in particulate matter from pulverized coal combustion. *Combustion and Flame*, 2017, 182: 313-323. <https://doi.org/10.1016/j.combustflame.2017.04.026>