

Publications on CEPC Gaseous detector: status and planning

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Publications: status and planning

ID	Paper title	Main editors	Proposed journal	Time line	Other information
1	Studies of beam-induced background effect at the CEPC Time Projection Chamber	She X. , Qi H.R. et al.	NIMA (2025), 1080, 170776	published	
2	High Precision Time Projection Chamber Technology R&D for the Future Circular e+e- Collider	She X. , Qi H.R., Chang Y., Zhang J.X., Wang J.C., et al.	Proceedings of Science, 2025	published	
3	Investigation of the avalanche fluctuations factor in a Time Projection Chamber detector using 266 nm UV laser	Chang Y, Qi H, She X. , et al.	JINST (2025), 20(04): P04011	Published	
4	Design and commission of TPC prototype integrated with 266 nm UV laser	Chang Y, Qi H, She X. , et al.	JINST (2025), 20(02), P022025	published	
5	基于紫外激光测量时间投影室电离能损的方法研究	常悦, 祁辉荣, 余信, 等	原子能科学技术, 2025, 59(3): 725-733	published	
6	dN/dx Reconstruction with Deep Learning for High Granularity TPCs	Guang Zhao, Yue Chang, Jinxian Zhang, et. al.	JHEP 04 (2026) 021	Published	
7	Experimental study of primary ionization counting method	Fei Huang, Mingyi Dong, et al.	RDTM (2026) 10: 36-41	Published	

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8	Integration and characterization of Readout Electronics System for dN/dx Measurement with Drift Chamber Prototype	Dongcheng Cai, Qicai Li, Mingyi Dong, Hongbin Liu, et al.	RDTM	Accepted	
9	PID-Driven Pad Size Optimization in the High Granularity Readout TPC technology for future e+e- collider	Jinxian Zhang, et. Al.	European Physical Journal Special Topics	Submitted in April	
10	Study of cluster counting method for CEPC drift chamber	Wenyu Pan, Mingyi Dong, et al.	International Journal of Modern Physics A	Submitted in April	
11	Improving Drift Chamber Tracking with Cluster Counting	Zhefei Tian, et. al.	NIMA	Planning (Nov.)	