Table 1: Test accuracy on long-tailed imbalance on CIFAR-10. We use the imbalance ratio ρ to denote the ratio between the sample sizes of the most frequent and least frequent class, *i.e.*, $\rho = \max_i n_i / \min_i n_i$. Long-tailed imbalance follows an exponential decay in sample sizes across different classes. The test accuracy on a full dataset is 89.98 ($\rho = 10$) and 75.03 ($\rho = 100$). We report the average performance across three runs.

CIFAR-10										
Imbalance Ratio	10					100				
Pruning Rate	30%	50%	70%	80%	90%	30%	50%	70%	80%	90%
Random	42.48 ±0.45	28.20 ±0.07	18.85 ±0.24	10.00 ±0.00	10.00 ±0.00	28.23 ±0.09	19.36 ±0.18	10.00 ±0.00	10.00 ±0.00	10.00 ±0.00
EL2N	89.42 ±0.20	87.59 ±0.97	68.15 ±3.44	52.90 ±1.87	33.25 ±0.41	72.70 ±1.58	66.06 ±4.27	52.90 ±2.88	41.79 ±2.61	30.30 ±0.58
Dyn-Unc	89.64 ±0.28	87.60 ±0.39	67.60 ±4.34	53.05 ±0.88	39.16 ±1.94	**74.40** ±1.32	**70.22** ±1.60	51.89 ±3.08	41.27 ±2.34	31.24 ±0.23
CCS	84.42 ±0.89	73.04 ±1.20	47.07 ±0.68	37.38 ±0.36	27.91 ±0.96	63.18 ±1.56	45.46 ±1.33	32.66 ±0.63	29.38 ±0.71	24.10 ±0.97
DUAL	**89.67** ±0.40	**88.75** ±0.36	75.38 ±3.41	56.70 ±2.83	43.58 ±2.45	72.94 ±1.14	69.66 ±0.73	52.80 ±1.00	38.32 ±1.28	25.30 ±1.28
DUAL + β	89.49 ±0.21	88.12 ±0.61	**76.00** ±2.79	**78.31** ±2.26	**71.27** ±1.44	73.81 ±2.06	68.89 ±0.24	**52.95** ±2.79	**46.49** ±1.80	**36.43** ±1.00

Table 2: Test accuracy on long-tailed imbalance on CIFAR-100. We use the imbalance ratio ρ to denote the ratio between the sample sizes of the most frequent and least frequent class, *i.e.*, $\rho = \max_i n_i / \min_i n_i$. Long-tailed imbalance follows an exponential decay in sample sizes across different classes. The test accuracy on a full dataset is 62.92 ($\rho = 10$) and 41.67 ($\rho = 100$). We report the average performance across three runs.

CIFAR-100										
Imbalance Ratio	10					100				
Pruning Rate	30%	50%	70%	80%	90%	30%	50%	70%	80%	90%
Random	32.89 ±0.23	18.79 ±0.75	8.26 ±0.41	5.43 ±0.07	3.23 ±0.05	22.88 ±0.87	11.45 ±0.11	5.90 ±0.15	3.96 ±0.05	2.48 ±0.02
EL2N	57.57 ±0.50	47.23 ±0.46	21.38 ±0.33	13.92 ±0.97	9.54 ±0.19	37.59 ±2.13	24.76 ±1.87	12.33 ±0.54	9.42 ±0.26	6.64 ±0.02
Dyn-Unc	58.09 ±0.85	46.68 ±0.69	25.95 ±2.16	20.80 ±0.68	13.48 ±0.50	**37.82** ±1.08	26.88 ±0.38	15.41 ±0.42	12.47 ±0.55	9.52 ±0.12
CCS	46.51 ±0.56	34.85 ±0.79	18.08 ±0.80	11.34 ±0.30	6.06 ±0.43	27.46 ±0.27	17.85 ±0.76	11.43 ±0.33	8.25 ±0.66	4.34 ±0.53
DUAL	**58.50** ±0.27	54.11 ±0.27	39.15 ±1.43	30.10 ±0.97	18.80 ±1.17	36.35 ±0.66	30.19 ±1.58	20.47 ±0.30	17.76 ±0.47	12.52 ±0.56
DUAL + β	58.05 ±0.34	**54.88** ±0.36	**43.53** ±0.66	**35.87** ±1.75	**27.13** ±1.49	37.04 ±0.97	**32.25** ±0.45	**21.94** ±1.27	**19.38** ±0.77	**15.42** ±0.32