

Table 1: Effectiveness results.

Method	Yelp2018		Amazon-Book		MIND	
	Recall	NDCG	Recall	NDCG	Recall	NDCG
LightGCN	0.0682	0.0443	0.1398	0.0736	0.1033	0.0520
SimGCL	<u>0.0811</u>	<u>0.0530</u>	0.1579	0.0848	<u>0.1111</u>	<u>0.0594</u>
KGCL	0.0756	0.0493	0.1496	0.0793	0.1073	0.0551
MCCLK	0.0668	0.0428	0.1368	0.0717	–	–
CKER	0.0691	0.0433	<u>0.1591</u>	<u>0.0851</u>	0.0969	0.0485
KACL	0.0658	0.0430	0.1520	0.0812	0.1077	0.0553
SIMKGCL	<b>0.0864</b>	<b>0.0567</b>	<b>0.1739</b>	<b>0.0948</b>	<b>0.1258</b>	<b>0.0662</b>

Table 2: The training time comparison.

Methods	Component	Yelp2018(s)	Amazon-Book(s)	MIND(s)
LightGCN	Single epoch time	12.94	8.33	82.59
	Total training epochs	180	207	52
	Total training time	2,329.20 (1×)	1,724.31 (1×)	4,294.68 (1×)
KGCL	Single epoch time	383.82	196.11	1103.31
	Total training epochs	30	22	18
	Total training time	11,514.60 (4.94×)	4,314.42 (2.50×)	19,859.58 (4.62×)
KACL	Single epoch time	118.28	70.25	154.80
	Total training epochs	36	139	157
	Total training time	4,258.08 (1.83×)	9,764.75 (5.66×)	24,303.60(5.66×)
MCCLK	Single epoch time	3562.53	876.20	–
	Total training epochs	71	148	–
	Total training time	252,939.63 (108.60×)	129,784.60 (75.21×)	–
CKER	Single epoch time	15.53	30.03	87.69x61=5959.09
	Total training epochs	136	137	61
	Total training time	2,112.08 (0.91×)	4,114.11 (2.38×)	5959.09 (1.39×)
SIMKGCL	Single epoch time	144.33	232.06	324.55
	Total training epochs	22	6	2
	Total training time	3175.26 (1.36×)	1392.36 (0.81×)	649.10 (0.15×)