Raw data description

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| **Data** | **Title** | **Description** | **Database** |
| Data.1 | Research on the application of bulking agents and nitrogen-fixing agents in aerobic composting of rural putrescible waste(in Chinese) | Thesis  (Zhejiang University) | CNKI |
| Data.2 | Microbial interaction promote the degradation rate of organic matter in thermophilic period | Paper  (Waste Management) | Web of science |
| Data.3 | The study of test on shortening of high oil and salt kitchen wastes in aerobic composting cycle(in Chinese) | Thesis  (Northeast Normal University) | CNKI |
| Data.4 | Research on composting process and microbial properties of organic waste and human manure in rural area(in Chinese) | Thesis  (Southeast University) | CNKI |
| Data.5 | Research on the technology of solar-assisted aerobic composting for disposing rural domestic waste(in Chinese) | Thesis  (Zhejiang University) | CNKI |
| Data.6 | Evaluation of the Maturity of Organic Solid Waste Compost(in Chinese) | Thesis  (Northwest A&F University) | CNKI |
| Data.7 | Study on optimization of spend coffee grounds thermophilic aerobic composting process and the specific application of the compost(in Chinese) | Thesis  (Yantai University) | CNKI |
| Data.8 | The Study of Municipal Solid Waste Sorting Behavior and the Following Food Waste Composting Degradation (in Chinese) | Thesis  (Dalian University of Technology ) | CNKI |
| Data.9 | Experiment and evaluation study on compost maturity of Municipal solid waste—a case study of integrated of MSW treatment plant in Urumqi(in Chinese) | Thesis  (Xinjiang University ) | CNKI |
| Data.10 | Inoculation promoting microbial interaction to strengthen lignocellulose degradation under the inappropriate C/N ratio | Paper  (Bioresource Technology Reports) | Web of science |

Due to the difficulty of acquiring rich data from journal articles, our study relied mostly on master's and doctoral dissertations. Searching literature through the CNKI (China National Knowledge Infrastructure) database, as well as selecting two journal articles from Web of Science. For the two journal articles, the authors were contacted to obtain original data.