**Appendix 1.** A list of the primary studies from with raw data used in the meta-analysis were extracted.

1 Y. Xiang, H. Hu, T. Hu, J. Wan, M. Pu, Z. Yan, Y. Ding. (2011). Study on the characteristics of litter production and decomposition in plantations of Eucalyptus grandis in rainy area of west China. Journal of Sichuan Agricultural University. 29(4), 465-471. (in Chinese with English abstract)

2 Y. Liu, W. Yang, F. Wu, Z. Xu, F. Yang, B. Li, Y. Chang, B. Tan. (2017). Soil organic layer enzyme activities in subalpine coniferous forests of Western Sichuan, China. Ecology and Environmental Sciences. 26(5), 747-753. (in Chinese with English abstract)

3 Y. Qin, J. Ma, J. Mei, D. Yang, F. Zhuang, J. Su. (2017). The initial dynamic of litter decomposition of Loropetalum chinense communities amomg different recovery stages in karst area of Lijiang river watershed. Acta Ecologica Sinica. 37(20), 6792-6799. (in Chinese with English abstract)

4 H. Wang, P. Yan, P. Zhan, X. Zhang, Z. Liu, G. Yujing, D. Xiao. (2018). The relative contributions of plant quality，simulated rising temperature，and habitat to litter decomposition. Chinese Journal of Applied Ecology. 29(2), 474-482. (in Chinese with English abstract)

5 Y. Li, T. Xie, W. Shi, X. Li. (2019). Response of topsoil organic carbon mineralization to litter addition in the revegetation area in the southeastern fringe of the Tengger Desert. Journal of Desert Research. 39(5), 200-209. (in Chinese with English abstract)

6 H. Yang, Y. Li, Z. Ning, Z. Zhang. (2019). Effects of mixed litter on organic carbon mineralization in a dune grassland. Acta Ecologica Sinica. 39(7), 2510-2519. (in Chinese with English abstract)

7 X. Zhang, L. Zhang, H. Lei, S. Wang, Y. Dong, H. Mi, Z. Liu. (2020). Effects of combined remediation using grass litters and urea on the biochemical properties of petroleum-contaminated soil. Acta Ecologica Sinica. 40(8), 2715-2725. (in Chinese with English abstract)

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9 W. Li. (2016). Effect of nutrient addition on litter decomposition in Stipa baicalensis steppe. Shenyang Agricultural University. (in Chinese with English abstract)

10 S. Li. (2015). Effects of substrata on riparian plant litter decomposition in a mountain stream, SW China. Central China Normal University. (in Chinese with English abstract)

11 C. Long. (2020). Litter decomposition processes and their microbiological characteristics under different land use types. Wuhan Botanical Garden, Chinese Academy of Sciences. (in Chinese with English abstract)

12 Z. Fu. (2019). Response characteristics of litter decomposition with different masses to altitude gradient. Fujian Normal University. (in Chinese with English abstract)

13 Y. Lv. (2013). Effect of nitrogen and acid deposition on litter decomposition in subtropocal forest ecosystem. Nanjing University. (in Chinese with English abstract)

14 K. Li. (2006). Nitrogen deposition affects carbon and nitrogen turnover on the early stage of forest litter decomposition. Northeast Forest University. (in Chinese with English abstract)

15 Y. Bai. (2020). Effects of Nitrogen deposition on litter decomposition of different communities in Changbai Montain tundra. Northeast Normal University. (in Chinese with English abstract)

16 S. Peng. (2016). Effects of nitrogen addition on litter decomposition in poplar plantations in a coastal area, China. Nanjing Forestry University. (in Chinese with English abstract)

17 J. Li. (2016). Interactions between invertebrate and microbial communities in decomposing litter along with the change of altitude. Sichuan Agricultural University. (in Chinese with English abstract)

18 R. Lv. (2010). The effect of thinning on litter decomposition of the coniferous plantation. Beijing Forestry University. (in Chinese with English abstract)

19 M. Pang. (2018). Relationship between litter decomposition and litter traits in subtropical evergreen broad-leaved forest in Gutianshan, China. Chongqing University. (in Chinese with English abstract)

20 J. Wu. (2015). The effect of light radiation on litter decomposition in an alpine meadow of the Tibetan Plateau. Lanzhou University. (in Chinese with English abstract)

21 R. Deng. (2008). Effect of Seasonal freeze-thaw on litter decomposition in the subalpine forest. Sichuan Agricultural University. (in Chinese with English abstract)

22 P. Liu. (2006). Characteristics and responses to changes in environmental conditions of litter decomposition in plant species of Stipa krylovii Roshev. steppe. Institute of Botany, the Chinese Academy of Sciences. (in Chinese with English abstract)

23 Z. Ma. (2015). Effect of simulating light intensity on forest litter decomposition. Sichuan Agricultural University. (in Chinese with English abstract)

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25 L. Zhang. (2017). Study on decomposition of 15 common plant litter in Tibetan alpine meadow. Lanzhou University. (in Chinese with English abstract)

26 F. Wang. (2013). Effect of species richness and evenness on litter decomposition and N and P release in alpine meadow of the Tibetan Plateau. Lanzhou University. (in Chinese with English abstract)

27 Q. Yu. (2015). Effect of different micro-sites and soil fauna on litter decomposition in an alpine swamp meadow of the Tibetan Plateau. Lanzhou University. (in Chinese with English abstract)

28 J. Gu. (2016). Research on aquatic plant litter decomposition characteristics and mechanism of constructed wetlands clogging. Nanjing University of Information Science and Technology. (in Chinese with English abstract)

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31 B. Song. (2008). Study on characteristics of soil fauna community and their function in litter decomposition in Leymus chinensis steppe, Songnen plain. Northeast Normal University. (in Chinese with English abstract)

32 Z. Wang. (2017). The analysis of soil microbe diversity during the decomposition of mixed litter under Cunninghamia lanceolata plantations in acid rain region. Fujian Agriculture & Forestry University. (in Chinese with English abstract)

33 L. Chen. (2014). The initial responses of simulated N deposition in litter decomposition of intercropping system Alnus formosana- Lolium multiflorum compound mode. Sichuan Agricultural University. (in Chinese with English abstract)

34 Y. Liu. (2010). Litter decomposition and nutrient dynamics on soil in complex ecosystem of Alnus formosana-Hemarthria compressa. Sichuan Agricultural University. (in Chinese with English abstract)

35 J. Fang. (2020). Effects of carbon, nitrogen addition and dry-wet alternations on litter decomposition of Robinia pseudoacacia forest in dump site. Liaoning Technical University. (in Chinese with English abstract)

36 X. Dong. (2018). Litter decomposition mechanism driven by temperature and nitrogen deposition. Heilongjiang University. (in Chinese with English abstract)

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