

Mai-He Li's Publication list

(sorted by year of appearance)

2021

196. Jin, Y., Xu, J., He, H., Tao, Y., Wang, H., Zhang, Y., **Li, M. H.** (2020). Effects of catastrophic wind disturbance on formation of forest patch mosaic structure on the western and southern slopes of Changbai Mountain. *Forest Ecology and Management*, 118746 (10 pp.). <https://doi.org/10.1016/j.foreco.2020.118746>
195. Xu, S., Wang, Y., Zhang, W., Li, B., Du, Z., He, X., Chen, W., Zhang, Y., Li, Y., **Li, M.**, Schaub, M. (2021) Experimental warming alleviates the adverse effects from tropospheric ozone onto two urban tree species, *Environmental Pollution*, <https://doi.org/10.1016/j.envpol.2020.115289>.
194. Xue, W., Shen, J. X., Guo, Z. W., Lei, J. P., Li, J. M., Yu, F. H., & **Li, M. H.** (2021). Shoot removal interacts with soil temperature to affect survival, growth and physiology of young ramets of a bamboo. *Forest Ecology and Management*, 481, 118735 (8 pp.). <https://doi.org/10.1016/j.foreco.2020.118735>

2020

193. Wei Chen, Chen Meng, Jing Ji, **Mai-He Li**, Xiaoman Zhang, Yanyan Wu, Tiantian Xie, Changjian Du, Jiacheng Sun, Zeping Jiang, Shengqing Shi (2020) Exogenous GABA promotes adaptation and growth by altering the carbon and nitrogen metabolic flux in poplar seedlings under low nitrogen conditions, *Tree Physiology*, tpa101, <https://doi.org/10.1093/treephys/tpaa101>
192. Ao Wang, Rolf T W Siegwolf, Jobin Joseph, Frank M Thomas, Willy Werner, Arthur Gessler, Andreas Rigling, Marcus Schaub, Matthias Saurer, **Mai-He Li**, Marco M Lehmann (2020) Effects of soil moisture, needle age, and leaf morphology on C and O uptake, incorporation, and allocation: A dual labelling approach with $^{13}\text{CO}_2$ and H_2^{18}O in foliage of a coniferous forest, *Tree Physiology*, tpa114, <https://doi.org/10.1093/treephys/tpaa114>

191. Leonie Schönbeck, **Mai-He Li**, Marco M Lehmann, Andreas Rigling, Marcus Schaub, Günter Hoch, Ansgar Kahmen, Arthur Gessler (2020) Soil nutrient availability alters tree carbon allocation dynamics during drought, *Tree Physiology*, tpaal39, <https://doi.org/10.1093/treephys/tpaal39>
190. Gao, D., Bai, E., **Li, M.**, Zhao, C., Yu, K., & Hagedorn, F. (2020). Responses of soil nitrogen and phosphorus cycling to drying and rewetting cycles: a meta-analysis. *Soil Biology and Biochemistry*, 148, 107896 (15 pp.). <https://doi.org/10.1016/j.soilbio.2020.107896>
- 189 Ge, X., Cao, Y., Zhou, B., Xiao, W., Tian, X., & **Li, M. H.** (2020). Combined application of biochar and N increased temperature sensitivity of soil respiration but still decreased the soil CO₂ emissions in moso bamboo plantations. *Science of the Total Environment*, 730, 139003 (11 pp.). <https://doi.org/10.1016/j.scitotenv.2020.139003>
188. Jobin Joseph, Decai Gao, Bernhard Backes, Corinne Bloch, Ivano Brunner, Gerd Gleixner, Matthias Haeni, Henrik Hartmann, Günter Hoch, Christian Hug, Ansgar Kahmen, Marco M. Lehmann, **Mai-He Li**, Jörg Luster, Martina Peter, Christian Poll, Andreas Rigling, Kaisa A. Rissanen, Nadine K. Ruehr, Matthias Saurer, Marcus Schaub, Leonie Schönbeck, Benjamin Stern, Frank M. Thomas, Roland A. Werner, Willy Werner, Thomas Wohlgemuth, Frank Hagedorn, Arthur Gessler (2020). Rhizosphere activity in an old-growth forest reacts rapidly to changes in soil moisture and shapes whole-tree carbon allocation. *Proceedings of the National Academy of Sciences of the United States of America PNAS*. <https://doi.org/10.1073/pnas.2014084117>
187. Luo, Y., Du, Z., Yan, Z., Zhao, X., Li, Y., Jiang, H., ... **Li, M. H.** (2020). *Artemisia halodendron* litters have strong negative allelopathic effects on earlier successional plants in a semi-arid sandy dune region in China. *Frontiers in Plant Science*, 11, 961 (8 pp.). <https://doi.org/10.3389/fpls.2020.00961>
186. Schönbeck, L., Gessler, A., Schaub, M., Rigling, A., Hoch, G., Kahmen, A., & **Li, M. H.** (2020). Soil nutrients and lowered source:sink ratio mitigate effects of mild but not of extreme drought in trees. *Environmental and Experimental Botany*, 169, 103905 (10 pp.). <https://doi.org/10.1016/j.envexpbot.2019.103905>
185. Shi, Z., Deng, X., Bai, D., Lei, J., **Li, M.**, Zeng, L., & Xiao, W. (2020). Transcriptomic analysis reveals the mechanism of *Picea crassifolia* survival for alpine treeline condition. *Forests*, 11(2), 156 (27 pp.). <https://doi.org/10.3390/f11020156>

- 184.** Tian, X. K., Wang, M. Y., Meng, P., Zhang, J. S., Zhou, B. Z., Ge, X. G., ... **Li, M. H.** (2020). Native bamboo invasions into subtropical forests alter microbial communities in litter and soil. *Forests*, *11*(3), 314 (14 pp.). <https://doi.org/10.3390/f11030314>
- 183.** Yang, Y., Wu, Z., Guo, L., He, H. S., Ling, Y., Wang, L., ... **Li, M. H.** (2020). Effects of winter chilling vs. spring forcing on the spring phenology of trees in a cold region and a warmer reference region. *Science of the Total Environment*, *725*, 138323 (11 pp.). <https://doi.org/10.1016>
- 182.** Zhang, Y. L., Moser, B., **Li, M. H.**, Wohlgemuth, T., Lei, J. P., & Bachofen, C. (2020). Contrasting leaf trait responses of conifer and broadleaved seedlings to altered resource availability are linked to resource strategies. *Plants*, *9*(5), 621 (15 pp.). <https://doi.org/10.3390/plants9050621>
- 181.** Zhang, Y., Pang, X., Shen, J., Yuan, X., **Li, M.**, He, Y., & Lei, J. (2020). 植物群落类型和围栏封育对高山林线岷江冷杉幼苗成活的影响. Effects of plant community types and fencing on survival of *Abies faxoniana* in the alpine treeline ecotone. *Acta Ecologica Sinica*, *40*(2), 640-647. <https://doi.org/10.5846/stxb201808211780>

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- 180.** Cong, Y., **Li, M. H.**, Liu, K., Dang, Y. C., Han, H. D., & He, H. S. (2019). Decreased temperature with increasing elevation decreases the end-season leaf-to-wood reallocation of resources in deciduous *Betula ermanii* Cham. trees. *Forests*, *10*(2), 166. <https://doi.org/10.3390/f10020166>
- 179.** Xu, S., He, X. Y., Du, Z., Chen, W., Li, B., Li, Y., **Li, M.H.**, Schaub, M. (2019). Tropospheric ozone and cadmium do not have interactive effects on growth, photosynthesis and mineral nutrients of *Catalpa ovata* seedlings in the urban areas of Northeast China. *Science of the Total Environment*, *704*, 135307 (9 pp.). <https://doi.org/10.1016/j.scitotenv.2019.135307>
- 178.** Ge, X., Cao, Y., Zhou, B., Wang, X., Yang, Z., & **Li, M. H.** (2019). Biochar addition increases subsurface soil microbial biomass but has limited effects on soil CO₂ emissions in subtropical moso bamboo plantations. *Applied Soil Ecology*, *142*, 155-165. <https://doi.org/10.1016/j.apsoil.2019.04.021>

177. Ge, X., Yang, Z., Zhou, B., Cao, Y., Xiao, W., Wang, X., & Li, M. H. (2019). Biochar fertilization significantly increases nutrient levels in plants and soil but has no effect on biomass of *Pinus massoniana* (Lamb.) and *Cunninghamia lanceolata* (Lamb.) Hook saplings during the first growing season. *Forests*, 10(8), 612 (17 pp.).
<https://doi.org/10.3390/f10080612>
176. He, P., Fontana, S., Sardans, J., Peñuelas, J., Gessler, A., Schaub, M., Li, M. H. (2019). The biogeochemical niche shifts of *Pinus sylvestris* var. *mongolica* along an environmental gradient. *Environmental and Experimental Botany*, 167, 103825 (11 pp.).
<https://doi.org/10.1016/j.envexpbot.2019.103825>
175. Jin, Y., Xu, J., He, H., Li, M. H., Tao, Y., Zhang, Y., Han, Y. (2019). The Changbai alpine shrub tundra will be replaced by herbaceous tundra under global climate change. *Plants*, 8(10), 370 (16 pp.). <https://doi.org/10.3390/plants8100370>
174. Knüsel, S., Liu, J., Conedera, M., Gärtner, H., Bugmann, H., Li, M. H., Wunder, J. (2019). Comparative dendroecological characterisation of *Ailanthus altissima* (Mill.) Swingle in its native and introduced range. *Dendrochronologia*, 57, 125608 (10 pp.).
<https://doi.org/10.1016/j.dendro.2019.125608>
173. Liu, J. F., Jiang, Z. P., Schaub, M., Gessler, A., Ni, Y. Y., Xiao, W. F., & Li, M. H. (2019). No ontogenetic shifts in C-, N- and P-allocation for two distinct tree species along elevational gradients in the Swiss Alps. *Forests*, 10(5), 394 (12 pp.).
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172. Lyu, L., Zhang, Q. B., Pellatt, M. G., Büntgen, U., Li, M. H., & Cherubini, P. (2019). Drought limitation on tree growth at the Northern Hemisphere's highest tree line. *Dendrochronologia*, 53, 40-47. <https://doi.org/10.1016/j.dendro.2018.11.006>
171. Lyu, L., Büntgen, U., Treydte, K., Yu, K., Liang, H., Reinig, F., Nievergelt, D, Li, M.H., Cherubini, P. (2019). Tree rings reveal hydroclimatic fingerprints of the Pacific Decadal Oscillation on the Tibetan Plateau. *Climate Dynamics*, 53(1-2), 1023-1037.
<https://doi.org/10.1007/s00382-019-04629-z>
170. Shen, J., Yuan, X., Li, M.H., Yu, F., Wang, X., Liu, L., Lei, J. (2019). Effects of soil temperature and moisture on nitrogen and phosphorus contents in *Picea balfouriana* seedlings. *Scientia Silvae Sinicae*, 55(4), 31-41. <https://doi.org/10.11707/j.1001-7488.20190404>

169. Wang, X., Jiang, Y., Ren, H., Yu, F. H., & Li, M. H. (2019). Leaf and soil $\delta^{15}\text{N}$ patterns along elevational gradients at both treelines and shrublines in three different climate zones. *Forests*, *10*(7), 557 (14 pp.). <https://doi.org/10.3390/f10070557>
168. Wang, J., Fu, X., Zhang, Z., Li, M., Cao, H., Zhou, X., & Ni, H. (2019). Responses of soil respiration to nitrogen addition in the Sanjiang Plain wetland, northeastern China. *PLoS One*, *14*(1), e0211456 (12 pp.). <https://doi.org/10.1371/journal.pone.0211456>
167. Wang, C., Zong, S., & Li, M. H. (2019). The contrasting responses of mycorrhizal fungal mycelium associated with woody plants to multiple environmental factors. *Forests*, *10*(11), 973 (18 pp.). <https://doi.org/10.3390/f10110973>
166. Wang, C., Brunner, I., Zong, S., & Li, M. H. (2019). The dynamics of living and dead fine roots of forest biomes across the Northern Hemisphere. *Forests*, *10*(11), 953 (15 pp.). <https://doi.org/10.3390/f10110953>
165. Wang, C., He, J., Zhao, T. H., Cao, Y., Wang, G., Sun, B., Li, M. H. (2019). The smaller the leaf is, the faster the leaf water loses in a temperate forest. *Frontiers in Plant Science*, *10*, 58 (12 pp.). <https://doi.org/10.3389/fpls.2019.00058>
164. Yang, B., Zhang, X., Zagorchev, L., Li, J., Frey, B., & Li, M. (2019). Parasitism changes rhizospheric soil microbial communities of invasive *Alternanthera philoxeroides*, benefitting the growth of neighboring plants. *Applied Soil Ecology*, *143*, 1-9. <https://doi.org/10.1016/j.apsoil.2019.05.025>
163. Yu, D., Wang, Q., Wang, X., Dai, L., & Li, M. (2019). Microsite effects on physiological performance of *Betula ermanii* at and beyond an alpine treeline site on Changbai Mountain in Northeast China. *Forests*, *10*(5), 400 (15 pp.). <https://doi.org/10.3390/f10050400>
162. Zhou, Y. M., Meng, G. L., Tai, Z. J., Han, J. Q., Deng, J. F., Wang, H. W., & Li, M. H. (2019). Effects of experimental warming on growing season temperature and carbon exchange in an alpine tundra ecosystem. *Russian Journal of Ecology*, *50*(5), 474-481. <https://doi.org/10.1134/S1067413619050138>
161. Zhou, Y., Deng, J., Tai, Z., Jiang, L., Han, J., Meng, G., & Li, M. H. (2019). Leaf anatomy, morphology and photosynthesis of three tundra shrubs after 7-year experimental warming on Changbai Mountain. *Plants*, *8*(8), 271 (14 pp.). <https://doi.org/10.3390/plants8080271>

160. Liu JF, Deng YP, Wang XF, Ni YY, Wang Q, Xiao WF, Lei JP, Jiang ZP, **Li MH.** (2018) The concentration of non-structural carbohydrates, N, and P in *Quercus variabilis* does not decline toward its northernmost distribution range along a 1500 km transect in China. **Frontiers in Plant Science** 9: 1444. doi: 10.3389/fpls.2018.01444
159. Zhang, L., Cai, X., Wu, J., Liu, M., Grob, S., Cheng, F., Liang J, Cai C., Liu Z., Liu B., Wang F., Li S., Liu F., Li X., Cheng L., Yang W., **Li M-H.**, Grossniklaus U., Zheng H., Wang, X. (2018) Improved *Brassica rapa* reference genome by single-molecule sequencing and chromosome conformation capture technologies. **Horticulture Research**, 5: 50. <https://doi.org/10.1038/s41438-018-0071-9>
158. Luo WT, Zuo X, Ma W, Xu C, Li A, Yu Q, Knapp AK, Tognetti R, Dijkstra F.A, **Li MH**, Han G, Wang Z, Han X. (2018) Differential responses of canopy nutrients to experimental drought along a natural aridity gradient. **Ecology** 99(10): 2230-2239.
157. He P, Fontana S, Sui X, Gessler A, Schaub M, Rigling A, Jiang Y, **Li MH.** (2018) Scale dependent responses of pine reproductive traits to experimental and natural precipitation gradients. **Environmental and Experimental Botany** 156: 62-73. <https://doi.org/10.1016/j.envexpbot.2018.08.028>
156. Cong Y, Wang A, He HS, Yu FH, Tognetti R, Cherubini P, Wang X, **Li MH.** (2018) Evergreen *Quercus aquifolioides* remobilizes more soluble carbon components but less N and P from leaves to shoots than deciduous *Betula ermanii* at the end-season. **iForest** 11: 517-525. doi: 10.3832/ifor2633-011
155. Wang CG, Chen Z, Brunner I, Zhang Z, Zhu X, Li J, Yin H, Guo W, Zhao T, Zheng X, Wang S, Geng Z, Shen S, Jin D, **Li MH.** (2018) Global patterns of dead fine root stocks in forest ecosystems. **Journal of Biogeography** 45: 1378-1394. DOI: 10.1111/jbi.13206
154. Wang CG, Chen Z, Yin H, Guo W, Cao Y, Wang G, Sun B, Yan X, Li J, Zhao TH, Brunner I, Dai G, Zheng Y, Zheng Y, Zu W, **Li MH.** (2018) The responses of forest fine root biomass/necromass ratio to environmental factors depend on mycorrhizal type and latitudinal region. **Journal of geographical research – Biogeosciences** 123: 1769-1788. <https://doi.org/10.1029/2017JG004308>

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152. Wang RZ, Wang X, Jiang Y, Cerdà A, Yin J, Liu H, Feng X, Shi Z, Dijkstra FA, Li MH. (2018) Soil properties determine the elevational patterns of base cations and micronutrients in plant-soil system up to the upper limits of trees and shrubs. **Biogeoscience** 15, 1763–1774. Doi: 10.5194/bg-2017-298
151. Xu ZW, Li MH, Zimmermann NK, Li S, Li H, Ren H, Sun H, Han X, Jiang Y, Jiang L. (2018) Plant functional diversity modulates global environmental change effects on grassland productivity. **Journal of Ecology** 106: 1941-1951. DOI: 10.1111/1365-2745.12951
150. Li MH, Jiang Y, Wang A, Li X, Zhu W, Yan CF, Du Z, Shi Z, Lei J, Schönbeck L, He P, Yu FH, Wang X. (2018) Active summer carbon storage for winter persistence in trees at the cold alpine treeline. **Tree Physiology** 38: 1345-1355. doi:10.1093/treephys/tpy020
149. Pang XY, Yuan XJ, Wang A, Li MH, Liu XL, Pan HL, Yu FH, Lei JP (2018) Effects of simulated warming and functional group removal on survival and growth of *Abies faxoniana* seedlings. **Chinese Journal of Applied Ecology** 29(3): 687-695 (庞晓瑜, 袁秀锦, 王奥, 李迈和, 刘兴良, 潘红丽, 于飞海, 雷静品 (2018) 模拟增温和功能群去除对岷江冷杉幼苗存活和生长的影响. **应用生态学报** 29(3):687-695) (in Chinese with an English Abstract)
148. Wang A., Wang X, Tognetti R, Lei JP, Pan HL, Liu XL, Jiang Y, Wang XY, He P, Yu FH, Li MH. (2018) Elevation alters carbon and nutrient concentrations and stoichiometry in *Quercus aquifolioides* in southwestern China. **Science of the Total Environment** 622-623: 1463-1475.
147. Lei L, Xiao W, Zeng L, Zhu J, Huang Z, Cheng R, Gao S, Li M-H (2018) Thinning but not understory removal increased heterotrophic respiration and total soil respiration in *Pinus massoniana* stands. **Science of the Total Environment** 621: 1360-1369. <https://doi.org/10.1016/j.scitotenv.2017.10.092>

146. Du H, Liu J, Li M-H, Büntgen U, Yang Y, Wu Z, He HS, Wang L (2018) Warming-induced upward migration of the alpine treeline in the Changbai Mountains, northeast China. **Global Change Biology** 24:1256–1266. DOI: 10.1111/gcb.13963

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144. Zhu W, Ran F, Li MH, Wang W, Jia M (2017) Alpine timberline dynamics and physiological mechanisms of the timberline formation on the Mt. Gongga. **Mountain Research** 35(5): 622-628 (朱万泽, 冉飞, 李迈和, 王文志, 贾敏 (2017) 贡嘎山高山林线动态与生理形成机制. **山地学报** 35(5): 622-628) (in Chinese with an English Abstract).
143. Sui X, Zhang R, Xu N, Liu Y, Ni H, Lei J, Li MH (2017) Diversity of soil acidobacterial community of different land use types in the Sanjiang Plain, Northeast of China. **International Journal of Agriculture and Biology** 19: 1279-1285.
142. Wang C, Geng Z, Chen Z, Li J, Guo W, Zhao TH, Cao Y, Shen S, Jin D, Li MH (2017) Six-year nitrogen-water interaction shifts the frequency distribution and size inequality of the first-order roots of *Fraxinus mandschurica* in a mixed mature *Pinus koraiensis* forest. **Frontiers in Plant Science** 8: article 1691. Doi: 10.3389/fpls.2017.01691
141. Sui X, Zhang R, Xu N, Liu Y, Zhong H, Wang J, Lei J, Li MH. Zhang X, Ni H (2017) Response of soil fungal diversity to nitrogen deposition in a *Deyeuxia augustifolia* wetland of Sanjiang Plain, Northeast, China. **International Journal of Agriculture and Biology** 19: 841-848
140. Luo W, Li MH, Sardans J, Lü XT, Wang C, Penuelas J, Wang Z, Han XG, Jiang Y (2017) Carbon and nitrogen allocation shifts in plants and soils along aridity and fertility gradients in grasslands of China. **Ecology and Evolution** 7: 6927-6934
139. Wang X, Xu Z, Lü X, Wang R, Cai J, Yang S, Li MH. Jiang Y (2017) Responses of litter decomposition and nutrient release rate to water and nitrogen addition differed

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- 138.** Ge X, Xiao W, Zeng L, Huang Z, Zhou B, Schaub M, **Li MH** (2017) Relationships between soil-litter interface enzyme activities and decomposition in *Pinus massoniana* plantations in China. **Journal of soils and sediments** 17: 996-1008.
- 136.** Wang X, Yu D, Wang S, Lewis BJ, Zhou W, Zhou L, Dai L, Lei JP, **Li MH**. (2017) Tree Height-diameter Relationships in the Alpine Treeline Ecotone Compared with Those in Closed Forests on Changbai Mountain, Northeastern China. **Forests** 8, 132 (1-13); doi:10.3390/f8040132
- 135.** Wang P, Li H, Pang XY, Wang A, Dong BC, Lei JP, Yu FH, **Li MH** (2017) Clonal integration increases tolerance of a phalanx clonal plant to defoliation. **Science of the Total Environment** 593-594: 236-241.
- 134.** Wang X, Xu ZW, Yan CF, Luo WT, Wang RZ, Han XG, Jiang Y, **Li MH**. (2017) Responses and sensitivity of N, P and mobile carbohydrates of dominant species to increased water, N and P availability in semi-arid grasslands in northern China. **Journal of Plant Ecology** 10, 486-496. DOI doi:10.1093/jpe/rtw053
- 133.** Xu Z., Ren H., **Li M.H.**, Brunner I., Yin J., Liu H., Kong D., Lü X.T., Sun T., Cai J., Wang R., Zhang Y., He P., Han X., Wan S., Jiang Y. (2017) Experimentally increased water and nitrogen affect root production and vertical allocation of an old-field grassland. **Plant and Soil** 412, 369-380.
- 132.** Liu J.-F., Arend M., Yang W.-J., Schaub M, Ni Y-Y, Gessler A, Jiang Z-P, Rigling A, **Li MH** (2017) Effects of drought on leaf carbon source and growth of European beech are modulated by soil type. **Scientific Reports** 7, 42462; doi: 10.1038/srep42462.
- 131.** Li R., Yang Q., Zhang W., Zheng W., Chi Y., Xu M., Fang Y., Gessler A., **Li M.H.**, Wang S. (2017) Thinning effect on photosynthesis depends on needle ages in a Chinese fir (*Cunninghamia lanceolata*) plantation. **Science of the Total Environment** 580: 900-906.
- 130.** Wang J., Sui X., Zhang R., Xu N., Yang L., Liu Y., Fu X., Chai C., Xu M., Xing J., Zhong H., Ni H., **Li M.** (2017) Effects of different land use on soil bacterial functional diversity in Sanjiang Plain, Northeast China. **Journal of Residuals Science & Technology** 14: 91-98

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124. Luo W, Dijkstra FA, Bai E, Feng J, Lv XT, Wang C, Wu H, **Li MH,** Han X, and Jiang Y. (2016) A threshold reveals decoupled relationship of sulfur with carbon and nitrogen in soils across arid and semi-arid grasslands in northern China. **Biogeochemistry** 127. 141-153. DOI 10.1007/s10533-015-0174-4
123. Zhou YM, Hagedorn F, Zhou CL, Jiang XJ, Wang XX, **Li MH.** (2016) Experimental warming of a mountain tundra increases soil CO₂ effluxes and enhances CH₄ and N₂O uptake at Changbai Mountain, China. **Nature Scientific Reports** 6:21108: DOI: 10.1038/srep21108
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