

DAFTAR PUSTAKA

- Acevedo-Rodríguez, P. (2005). *Contributions from the United States National Herbarium Vines and Climbing Plants of Puerto Rico and the Virgin Islands by*. 51, 1–483.
- Afrianto, W. F., TAMNGE, F., & HASANAH, L. N. (2020). Review: A relation between ethnobotany and bioprospecting of edible flower Butterfly Pea (*Clitoria ternatea*) in Indonesia. *Asian Journal of Ethnobiology*, 3(2), 51–61. <https://doi.org/10.13057/asianjethnobiol/y030202>
- Afzal, A., Duiker, S. W., & Watson, J. E. (2017). ScienceDirect Leaf thickness to predict plant water status. *Biosystems Engineering*, 156(2017), 148–156. <https://doi.org/10.1016/j.biosystemseng.2017.01.011>
- Aguiar-Silva, C., Brandão, S. E., Domingos, M., & Bulbovas, P. (2016). Antioxidant responses of Atlantic Forest native tree species as indicators of increasing tolerance to oxidative stress when they are exposed to air pollutants and seasonal tropical climate. *Ecological Indicators*, 63, 154–164. <https://doi.org/10.1016/j.ecolind.2015.11.060>
- Ahsan, M. M., Cheng, W., Hussain, A. B., Chen, X., & Wajid, B. A. (2021). Knowledge Mapping of Research Progress In Vertical Greenery Systems (VGS) From 2000 To 2021 Using CiteSpace Based Scientometric Analysis. *Energy and Buildings*, 256, 111768. <https://doi.org/10.1016/j.enbuild.2021.111768>
- Altaf, R., Altaf, S., Hussain, M., Shah, R. U., Ullah, R., Ullah, M. I., Rauf, A., Ansari, M. J., Alharbi, S. A., Alfarraj, S., & Datta, R. (2021). Heavy metal accumulation by roadside vegetation and implications for pollution control. *PLoS ONE*, 16(5 May), 1–15. <https://doi.org/10.1371/journal.pone.0249147>
- Álvarez, S., Navarro, A., Nicolás, E., & Sánchez-blanco, M. J. (2011). *Scientia Horticulturae Transpiration , photosynthetic responses , tissue water relations and dry mass partitioning in C allistemon plants during drought conditions*. 129, 306–312. <https://doi.org/10.1016/j.scienta.2011.03.031>
- Alyemeni, M. N., & Almohisen, I. (2014). Effect of Anthropogenic Activities on Accumulation of Heavy Metals in Legumes Crops, Riyadh, Saudi Arabia. *APCBEE Procedia*, 10, 275–280. <https://doi.org/10.1016/j.apcbee.2014.10.052>
- Amin, H., Arain, B. A., Jahangir, T. M., Abbasi, M. S., & Amin, F. (2018). Accumulation and distribution of lead (Pb) in plant tissues of guar (*Cyamopsis tetragonoloba* L.) and sesame (*Sesamum indicum* L.): profitable phytoremediation with biofuel crops. *Geology, Ecology, and Landscapes*, 2(1), 51–60. <https://doi.org/10.1080/24749508.2018.1452464>
- Armstrong, G. A., Runge, S., Frick, G., Sperling, U., & Apel, K. (1995). Identification of

- NADPH:Protochlorophyllide oxidoreductases A and B: A branched pathway for light-dependent chlorophyll biosynthesis in *Arabidopsis thaliana*. *Plant Physiology*, 108(4), 1505–1517. <https://doi.org/10.1104/pp.108.4.1505>
- Arnon, D.I. (1949). Copper enzymes in isolated chloroplasts polyphenoloxidase in *Beta vulgaris*. *Plant Physiology*. 24(1), 1-15. DOI: [10.1104/pp.24.1.1](https://doi.org/10.1104/pp.24.1.1)
- Barrs, H. D., & Weatherley, P. E. (1962). A re-examination of the relative turgidity technique for estimating water deficits in leaves. *Australian Journal of Biological Science*, 15, 413–428.
- Barwise, Y., & Kumar, P. (2020). Designing vegetation barriers for urban air pollution abatement: a practical review for appropriate plant species selection. *Npj Climate and Atmospheric Science*, 3(1), 1–19. <https://doi.org/10.1038/s41612-020-0115-3>
- Benlloch, R., Berbel, A., Ali, L., Gohari, G., Millán, T., & Madueño, F. (2015). Genetic control of inflorescence architecture in legumes. *Frontiers in Plant Science*, 6(JULY), 1–14. <https://doi.org/10.3389/fpls.2015.00543>
- Bharti, S. K., Trivedi, A., & Kumar, N. (2018). Air pollution tolerance index of plants growing near an industrial site. *Urban Climate*, 24(October 2015), 820–829. <https://doi.org/10.1016/j.uclim.2017.10.007>
- Bhatla, S.C., & Lal, M. A. 2018. *Plant Physiology, Development and Metabolism*. Springer.
- Bielen, A., Remans, T., Vangronsveld, J., & Cuypers, A. (2013). The influence of metal stress on the availability and redox state of ascorbate, and possible interference with its cellular functions. *International Journal of Molecular Sciences*, 14(3), 6382–6413. <https://doi.org/10.3390/ijms14036382>
- Buddhika, H. D. K., Dharmadasa, R. M., Menuka Arawwawala, L. D. A., & Pakeerathan, K. (2021). Phytochemical Properties of *Clitoria ternatea* L.(Fabaceae)—A Distinct Flower Morphometric Plants Available in Sri Lanka. *Presented at the 1st International Electronic Conference on Agronomy*, 1–6.
- Bakhshoodeh, R., Ocampo, C., & Oldham, C. (2022). Exploring the evapotranspirative cooling effect of a green façade. *Sustainable Cities and Society*, 81(February), 103822. <https://doi.org/10.1016/j.scs.2022.103822>
- Bayliak, M. M., Burdyluk, N. I., & Lushchak, V. I. (2016). Effects of pH on antioxidant and prooxidant properties of common medicinal herbs. *Open Life Sciences*, 11(1), 298–307. <https://doi.org/10.1515/biol-2016-0040>
- Bhargava, S., & Mitra, S. (2020). Elevated atmospheric CO₂ and the future of crop plants. *Plant Breeding*. 140, 1-11. DOI: [10.1111/pbr.12871](https://doi.org/10.1111/pbr.12871)
- Brito, C., Mantuano, D., De Toni, K. L. G., & Mantovani, A. (2022). Untangling leaf expansion triggers: A new experimental study with *Epipremnum aureum* (Araceae). *Flora: Morphology, Distribution, Functional Ecology of Plants*, 295(March).

<https://doi.org/10.1016/j.flora.2022.152139>

- Bsoul, E., Hilaire, R. S., Cruces, L., & Vanleeuwen, D. M. (2007). *Bigtooth Maples from Selected Provenances Effectively Endure Deficit Bigtooth Maples from Selected Provenances Effectively Endure Deficit Irrigation. September 2018.*
<https://doi.org/10.21273/HORTSCI.42.5.1167>
- Bustami, R.A., Beecham, S., & Hopeward, J. (2022). *Evaporative Cooling Effect of Water-Sensitive Urban Design: Comparing a Living Wall with a Porous Concrete Pavement System.*
- Cai, X., Fu, J., Li, X., Peng, L., Yang, L., Liang, Y., Jiang, M., Ma, J., Sun, L., Guo, B., & Yu, X. (2022). Low-molecular-weight organic acid-mediated tolerance and Pb accumulation in centipedegrass under Pb stress. *Ecotoxicology and Environmental Safety*, 241(June).
<https://doi.org/10.1016/j.ecoenv.2022.113755>
- Chukwuma, E. C., Soladoye, M. O., & Salaam, K. R. P. A. (2014). Taxonomic value of the leaf micro-morphology and quantitative phytochemistry of *Clitoria ternatea* and *Centrosema pubescens* (Papilionoideae , Fabaceae). *Phytologia Balcanica*, 20(1), 3–8.
- Chusak, C., Henry, C. J., Chantarasinlapin, P., Techasukthavorn, V., & Adisakwattana, S. (2018a). Influence of *clitoria ternatea* flower extract on the in vitro enzymatic digestibility of starch and its application in bread. *Foods*, 7(7). <https://doi.org/10.3390/foods7070102>
- Chusak, C., Thilavech, T., Henry, C. J., & Adisakwattana, S. (2018b). Acute effect of *Clitoria ternatea* flower beverage on glycemic response and antioxidant capacity in healthy subjects: A randomized crossover trial. *BMC Complementary and Alternative Medicine*, 18(1), 1–11. <https://doi.org/10.1186/s12906-017-2075-7>
- Cho, L. H., Yoon, J., & An, G. (2017). The control of flowering time by environmental factors. *Plant Journal*, 90(4), 708–719. <https://doi.org/10.1111/tjp.13461>
- Conti, M. E. (2018). *Biological monitoring : lichens as bioindicators of air pollution assessment - A Biological monitoring : lichens as bioindicators of air pollution assessment D a review. 7491*(February 2001). [https://doi.org/10.1016/S0269-7491\(00\)00224-4](https://doi.org/10.1016/S0269-7491(00)00224-4)
- Convertino, F., Vox, G., & Schettini, E. (2021). Evaluation of the cooling effect provided by a green façade as nature-based system for buildings. *Building and Environment*, 203(June), 108099. <https://doi.org/10.1016/j.buildenv.2021.108099>
- Cosola, V. O., Olivieri, F., & Ruiz-garcía, L. (2022). A systematic review of the impact of green walls on urban comfort: temperature reduction and noise attenuation. *Renewable and Sustainable Energy Reviews* 162, 112463, <https://doi.org/10.1016/j.rser.2022.112463>
- Côté, R., Gerrath, J. M., Peterson, C. A., Grodzinski, B., Physiology, S. P., Dec, N., Coe, R., Gerrath, J. M., Peterson, C. A., & Grodzinski, B. (1992). Sink to Source Transition in Tendrils of a Semileafless Mutant , *Pisum sativum* cv Curly, *Plant Physiology*, 100(4),

- 1640–1648. <https://www.jstor.org/stable/4274849>
- Crang, R., Lyons-Sobaski, S., & Wise, R. (2018). *Plant Anatomy*. Springer. <https://doi.org/10.1007/978-3-319-77315-5>
- Cui, D., Zhang, Y., Li, X., Yuan, L., Mak, C. M., & Kwok, K. (2022). Effects of different vertical façade greenery systems on pedestrian thermal comfort in deep street canyons. *Urban Forestry & Urban Greening*, 72(January), 127582. <https://doi.org/10.1016/j.ufug.2022.127582>
- Daningsih, E., Mardiyanningsih, A. N., Costa, Y. O. D., Primawati, R., & Karlina, S. (2022). Changes of stomatal distribution and leaf thickness in response to transpiration rate in six dicot plant species. *IOP Conference Series: Earth and Environmental Science*, 976(1). <https://doi.org/10.1088/1755-1315/976/1/012060>
- Deng, T. H. B., Tang, Y. T., van der Ent, A., Sterckeman, T., Echevarria, G., Morel, J. L., & Qiu, R. L. (2016). Nickel translocation via the phloem in the hyperaccumulator *Nocca caerulescens* (Brassicaceae). *Plant and Soil*, 404(1–2), 35–45. <https://doi.org/10.1007/s11104-016-2825-1>
- Direktorat Jenderal Bina Marga. (1997). *Manual Kapasitas Jalan Indonesia*. Departemen Pekerjaan Umum. Jakarta
- Driesen, E., Ende, W. Van Den, Proft, M. De, & Saeys, W. (2020). *Influence of Environmental Factors Light , CO 2 , Temperature , and Relative Humidity on Stomatal Opening and Development : A Review*.
- Dubbelden, K.C. & Oosterbeek. (1995). The availability of external support affects allocation patterns and morphology of herbaceous climbing plants, *Functional Ecology*, 9(4), 628–634, <https://www.jstor.org/stable/2390154>
- Engelberth, J. (2003). *Mechanosensing and signal transduction*. 32(8), 1611–1619. doi: 10.1016/S0273-1177(03)00491-5
- Eni, N. N. S., Sukenti, K., Muspiah, A., Rohyani, I. S. (2019). Studi Etnobotani Tumbuhan Obat Masyarakat Komunitas Hindu Desa Jagaraga, Kabupaten Lombok Barat, Nusa Tenggara Barat. *Biotropika Journal of Tropical Biology*, 7(3), 121-128.
- Environmental Protection Agency. 2006. *Guideline for Reporting of Daily Air Quality-Air Quality Index (AQI)*. US Environmental Protection Agency. North Carolina.
- Escher, G. B., Wen, M., Zhang, L., Rosso, N. D., & Granato, D. (2020). Phenolic composition by UHPLC-Q-TOF-MS/MS and stability of anthocyanins from *Clitoria ternatea* L. (butterfly pea) blue petals. *Food Chemistry*, 331(February), 127341. <https://doi.org/10.1016/j.foodchem.2020.127341>
- Eriksson, S., Böhlenius, H., Moritz, T., & Nilsson, O. (2006). GA4 is the active gibberellin in the regulation of LEAFY transcription and Arabidopsis floral initiation. *Plant Cell*, 18(9), 2172–

2181. <https://doi.org/10.1105/tpc.106.042317>

- Evans, G.C. 1972. *The quantitative analysis of plant growth*. Blackwell Scientific Publications, Oxford.
- Ewers, F. W., Fisher, J. B., Ewers, F. W., & Fisher, J. B. (1991). *Oecologia Why vines have narrow stems* : 88(2), 233–237.
- Fontenele, N. M., Otoch, M. de L. O., Gomes-Rochette, N. F., Sobreira, A. C. de M., Barreto, A. A. G. C., de Oliveira, F. D. B., Costa, J. H., Borges, S. da S. S., do Nascimento, R. F., & Fernandes de Melo, D. (2017). Effect of lead on physiological and antioxidant responses in two *Vigna unguiculata* cultivars differing in Pb-accumulation. *Chemosphere*, 176, 397–404. <https://doi.org/10.1016/j.chemosphere.2017.02.072>
- Gall, H. L., Philippe, F., Domon, J. M., Gillet, F., Pelloux, J., & Rayon, C. (2015). Cell wall metabolism in response to abiotic stress. *Plants*, 4(1), 112–166. <https://doi.org/10.3390/plants4010112>
- Gao, P. P., Xue, P. Y., Dong, J. W., Zhang, X. M., Sun, H. X., Geng, L. P., Luo, S. X., Zhao, J. J., & Liu, W. J. (2021). Contribution of PM2.5-Pb in atmospheric fallout to Pb accumulation in Chinese cabbage leaves via stomata. *Journal of Hazardous Materials*, 407(September 2020). <https://doi.org/10.1016/j.jhazmat.2020.124356>
- García-Cervigón, A. I., Fajardo, A., Caetano-Sánchez, C., Camarero, J. J., & Olano, J. M. (2020). Xylem anatomy needs to change, so that conductivity can stay the same: Xylem adjustments across elevation and latitude in *Nothofagus pumilio*. *Annals of Botany*, 125(7), 1101–1112. <https://doi.org/10.1093/aob/mcaa042>
- Gardner, F.P., Pearce R.B. & Mitchell, R.L., (1986). *Physiology of Crop Plants*. Iowa State University Press, Ames. ISBN 0-8138-1376. DOI: 10.1016/0378-4290(86)90065-1
- Gay, A.P., & Hurd, R.G. (1975). *The influence of light on stomatal density in the tomato*. New Phytologist, 75, 37-46
- Geilfus, C. M. (2017). The pH of the Apoplast: Dynamic Factor with Functional Impact Under Stress. *Molecular Plant*, 10(11), 1371–1386. <https://doi.org/10.1016/j.molp.2017.09.018>
- Geilfus, C. M., Zhang, X., Mithöfer, A., Burgel, L., Bárdos, G., & Zörb, C. (2021). Leaf apoplastic alkalization promotes transcription of the ABA-synthesizing enzyme Vp14 and stomatal closure in *Zea mays*. *Journal of Experimental Botany*, 72(7), 2686–2695. <https://doi.org/10.1093/jxb/eraa589>
- Ghafar, A. A., Said, I., Fauzi, A. M., Shai-In, M. S., & Jaafar, B. (2020). Comparison of leaf area index from four plant species on vertical greenery system in Pasir Gudang, Malaysia. *Pertanika Journal of Science and Technology*, 28(2), 735–748. ISSN: 0128-7680
- Gianoli, E. (2015). The behavioural ecology of climbing plants. *Annals of Botany PLANTS*, 7(1), 1–11. <https://doi.org/10.1093/aobpla/plv013>

- Gotoh, E., Suetsugu, N., Higa, T., Matsushita, T., Tsukaya, H., & Wada, M. (2018). Palisade cell shape affects the light- induced chloroplast movements and leaf photosynthesis. *Scientific Reports*, August 2017, 1–9. <https://doi.org/10.1038/s41598-018-19896-9>
- Govindaraju, M., Ganeshkumar, R. S., Muthukumaran, V. R., & Visvanathan, P. (2012). Identification and evaluation of air-pollution-tolerant plants around lignite-based thermal power station for greenbelt development. *Environmental Science and Pollution Research*, 19(4), 1210–1223. <https://doi.org/10.1007/s11356-011-0637-7>
- Grey, G.W., & Deneke, F.J. 1978. *Urban Forestry*. Wiley Publishing. New Jersey. pp. 51,60,72,74,79. ISBN 9780471015154
- Hamim, Hanifatunisa, Hadisunarso, Setyaningsih, L., & Saprudin, D. (2019). Lead (Pb) toxicity effect on physio-anatomy of bead-tree, jatropha, castor bean and philippine-tung grown in water culture. *Biodiversitas*, 20(12), 3690–3697. <https://doi.org/10.13057/biodiv/d201231>
- Helfer, F., Zhang, H., & Lemckert, C. (2009). *Evaporation Reduction by Windbreaks : Overview , Modelling and Efficiency* *Evaporation Reduction by Windbreaks : Overview , Modelling and Efficiency Urban Water Security Research Alliance Technical Report No. 16*. January.
- Hepworth, C., Turner, C., Landim, M. G., Cameron, D., & Gray, J. E. (2016). *Balancing Water Uptake and Loss through the Coordinated Regulation of Stomatal and Root Development*. 1–10. <https://doi.org/10.1371/journal.pone.0156930>
- Höhner, R., Aboukila, A., Kunz, H., Venema, K., & Lindahl, A. M. (2016). *Proton Gradients and Proton-Dependent Transport Processes in the Chloroplast*. 7(February), 1–7. <https://doi.org/10.3389/fpls.2016.00218>
- Hozad, A.S. (2020). Effects of nitrogen recycling by human urine fertilization on butterfly pea (*Clitoria ternatea*) plant in green wall system on AIT campus. *Environmental Research and Technology*, 3(3), 129-134, <https://doi.org/10.35208/ert.758126>
- Houri, T., Khairallah, Y., Al, A., Osta, B., Romanos, D., & Haddad, G. (2020). Journal of King Saud University – Science Heavy Metals Accumulation Effects on The Photosynthetic Performance of Geophytes in Mediterranean Reserve. *Journal of King Saud University - Science*, 32(1), 874–880. <https://doi.org/10.1016/j.jksus.2019.04.005>
- Hu, Y., Tian, S., Foyer, C. H., Hou, D., Wang, H., Zhou, W., Liu, T., Ge, J., Lu, L., & Lin, X. (2019). Efficient phloem transport significantly remobilizes cadmium from old to young organs in a hyperaccumulator *Sedum alfredii*. *Journal of Hazardous Materials*, 365(November 2018), 421–429. <https://doi.org/10.1016/j.jhazmat.2018.11.034>
- Huberman, M. & Jaffe, M. J. (1986). Thigmotropism in Organs of the Bean Plant (*Phaseolus vulgaris* L.). *Annals of Botany*, 57(2) 133-137, <http://www.jstor.com/stable/42757577>
- Huihui, Z., Xin, L., Zisong, X., Yue, W., Zhiyuan, T., Meijun, A., Yuehui, Z., Wenxu, Z., Nan, X., & Guangyu, S. (2020). Toxic effects of heavy metals Pb and Cd on mulberry (*Morus alba*

- L.) seedling leaves: Photosynthetic function and reactive oxygen species (ROS) metabolism responses. *Ecotoxicology and Environmental Safety*, 195(March), 110469. <https://doi.org/10.1016/j.ecoenv.2020.110469>
- Ilyas, M., Nisar, M., Khan, N., Hazrat, A., Khan, A. H., Hayat, K., Fahad, S., Khan, A., & Ullah, A. (2021). Drought Tolerance Strategies in Plants: A Mechanistic Approach. *Journal of Plant Growth Regulation*, 40(3), 926–944. <https://doi.org/10.1007/s00344-020-10174-5>
- Iswari, R. S., Susanti, R., Saptono, S., Sasi, F. A., & Laila, N. (2021). Pengembangan Taman Toga Sebagai Bahan Baku Resep Toga Berbasis Biosaince pada Taman Toga yang ada di RW 07 dusun Bangkong Kecamatan Gunungpati Semarang. *Life Science*, 10(1), 83–95.
- Irwan, S.N.R., Utami, R.N., Sarwadi, A., Raya, A. B., Chairiyah, R., Christian, A.I., Aulia, D. (2021). *Lanskap Produktif Perkotaan: Pengembangan Ekosistem Kota Menuju Kota Ekologis*. Penerbit Andi. Yogyakarta. ISBN 978-623-7267-63-8
- Johnson, D.M, Smith, W. K, Vogelmann, T.C., & Craig R . Brodersen, C.R. (2005). *Leaf Architecture and Direction of Incident Light Influence Mesophyll Fluorescence Profiles*, *American Journal of Botany*, 92(9), 1425–1431, <https://www.jstor.org/stable/4126127>
- Jumrani, K., Singh, V., Govind, B., & Pandey, P. (2017). Impact of elevated temperatures on specific leaf weight , stomatal density , photosynthesis and chlorophyll fluorescence in soybean. *Photosynthesis Research*, 131(3), 333–350. <https://doi.org/10.1007/s11120-016-0326-y>
- Jahandari, A. (2020). Pollution status and human health risk assessments of selected heavy metals in urban dust of 16 cities in Iran. *Environmental Science and Pollution Research*, 27(18), 23094–23107. <https://doi.org/10.1007/s11356-020-08585-8>
- Jankowski, K., Ciepiela, A. G., Jankowska, J., Szulc, W., Kolczarek, R., Sosnowski, J., Wiśniewska-Kadzajan, B., Malinowska, E., Radzka, E., Czełusciński, W., & Deska, J. (2015). Content of lead and cadmium in aboveground plant organs of grasses growing on the areas adjacent to a route of big traffic. *Environmental Science and Pollution Research*, 22(2), 978–987. <https://doi.org/10.1007/s11356-014-3634-9>
- Jim, C. Y. (2015). Landscape and Urban Planning Assessing growth performance and deficiency of climber species on tropical greenwalls. *Landscape and Urban Planning*, 137, 107–121. <https://doi.org/10.1016/j.landurbplan.2015.01.001>
- Johnson, D.M, Smith, W. K, Vogelmann, T.C., & Craig R . Brodersen, C.R. (2005). *Leaf Architecture and Direction of Incident Light Influence Mesophyll Fluorescence Profiles*, *American Journal of Botany*, 92(9), 1425–1431, <https://www.jstor.org/stable/4126127>
- Jumrani, K., Singh, V., Govind, B., & Pandey, P. (2017). Impact of elevated temperatures on specific leaf weight , stomatal density , photosynthesis and chlorophyll fluorescence in soybean. *Photosynthesis Research*, 131(3), 333–350. <https://doi.org/10.1007/s11120-016-0326-y>

- Junsongduang, A., Sirithip, K., Inta, A., Nachai, R., Onputtha, B., Tanming, W., & Balslev, H. (2017). Diversity and Traditional Knowledge of Textile Dyeing Plants in Northeastern Thailand. *Economic Botany*, 71(3), 241–255. <https://doi.org/10.1007/s12231-017-9390-2>
- Kalaitzoglou, P., Ieperen, W. Van, Harbinson, J., Meer, M. Van Der, & Rousseaux, M. C. (2019). *Effects of Continuous or End-of-Day Far-Red Light on Tomato Plant Growth, Morphology, Light Absorption, and Fruit Production*. 10(March), 1–11. <https://doi.org/10.3389/fpls.2019.00322>
- Kalve, S., Fotschki, J., Beeckman, T., Vissenberg, K., & Beemster, G. T. S. (2014). Three-dimensional patterns of cell division and expansion throughout the development of *Arabidopsis thaliana* leaves. *Journal of Experimental Botany*, 65(22), 6385–6397. <https://doi.org/10.1093/jxb/eru358>
- Karabourniotis, G., Liakopoulos, G., Bresta, P., & Nikolopoulos, D. (2021). *The Optical Properties of Leaf Structural Elements and Their Contribution to Photosynthetic Performance and Photoprotection*.
- Kardish, N., R. Ronen, P. Bubrick & J. Garty (1987). *The Influence of Air Pollution on the Concentration of ATP and on Chlorophyll Degradation in the Lichen, The New Phytologist*, 106(4), 697–706, <https://www.jstor.org/stable/2433176>. 106(4), 697–706.
- Karthiyayini, R. (2017). *Assessment of air pollution tolerance index of plant species growing near metal casting foundries around peelamedu, May*. <https://doi.org/10.21474/IJAR01/3564>
- Karyani, T., Djuwendah, E., & Sukayat, Y. (2021). Pemberdayaan Masyarakat Di Masa Pandemi Melalui Pertanian Organik Di Lahan Pekarangan Kawasan Perkotaan Jawa Barat. *Dharmakarya*, 10(2), 139. <https://doi.org/10.24198/dharmakarya.v10i2.32492>
- Kaur, M., & Nagpal, A. K. (2017). Evaluation of air pollution tolerance index and anticipated performance index of plants and their application in development of green space along the urban areas. *Environmental Science and Pollution Research*, 24(23), 18881–18895. <https://doi.org/10.1007/s11356-017-9500-9>
- Kebrom, T. H. (2017). *A Growing Stem Inhibits Bud Outgrowth – The Overlooked Theory of Apical Dominance*. 8(October), 1–7. <https://doi.org/10.3389/fpls.2017.01874>
- Khaksar, G., Treesubuntorn, C., & Thiravetyan, P. (2016). Endophytic *Bacillus cereus* ERBP-*Clitoria ternatea* interactions: Potentials for the enhancement of gaseous formaldehyde removal. *Environmental and Experimental Botany*, 126, 10–20. <https://doi.org/10.1016/j.envexpbot.2016.02.009>
- Khatoon, S., Irshad, S., AKS Rawat, & Misra, PK. (2016). Comparative Pharmacognostical Studies of Blue and White Flower Varieties of *Clitoria ternatea* L. *Journal of Pharmacognosy & Natural Products*, 1(1). <https://doi.org/10.4172/2472-0992.1000109>

- Khatun, M., Sarkar, S., Era, F. M., Islam, A. K. M. M., Anwar, M. P., Fahad, S., Datta, R., & Islam, A. K. M. A. (2021). Drought stress in grain legumes: Effects, tolerance mechanisms and management. *Agronomy*, 11(12), 1–35. <https://doi.org/10.3390/agronomy11122374>
- Kitajima, K., Joseph Wright, S., & Westbrook, J. W. (2016). Leaf cellulose density as the key determinant of inter-and intra-specific variation in leaf fracture toughness in a species-rich tropical forest. *Interface Focus*, 6(3). <https://doi.org/10.1098/rsfs.2015.0100>
- Kiti, K., Thanomsilp, C., & Suwanton, O. (2022). The potential use of colorimetric pH sensor from *Clitoria ternatea* flower for indicating bacterial infection in wound dressing application. *Microchemical Journal*, 177(January), 107277. <https://doi.org/10.1016/j.microc.2022.107277>
- Krzesłowska, M. (2011). The cell wall in plant cell response to trace metals: Polysaccharide remodeling and its role in defense strategy. *Acta Physiologiae Plantarum*, 33(1), 35–51. <https://doi.org/10.1007/s11738-010-0581-z>
- Lambers, H., Chapin III, F.S., & Pons, T.L. 2008. *Plant Physiological Ecology*. Springer
- Lacasta, A. M., Penaranda, A., Cantalapiedra, I. R., Auguet, C., Bures, S., & Urrestarazu, M. (2016). Acoustic evaluation of modular greenery noise barriers. *Urban Forestry and Urban Greening*, 20, 172–179. <https://doi.org/10.1016/j.ufug.2016.08.010>
- Lauri, P. E., & Normand, F. (2017). Are leaves only involved in flowering? Bridging the gap between structural botany and functional morphology. *Tree Physiology*, 37(9), 1137–1139. <https://doi.org/10.1093/treephys/tpx068>
- Lawson, T., James, W., & Weyers, J. (2014). *A surrogate measure of stomatal aperture*. May. <https://doi.org/10.1093/jexbot/49.325.1397>
- Lemoine, R., La Camera, S., Atanassova, R., Dédaldéchamp, F., Allario, T., Pourtau, N., Bonnemain, J. L., Laloi, M., Coutos-Thévenot, P., Maurousset, L., Faucher, M., Girusse, C., Lemonnier, P., Parrilla, J., & Durand, M. (2013). Source-to-sink transport of sugar and regulation by environmental factors. *Frontiers in Plant Science*, 4(JUL), 1–21. <https://doi.org/10.3389/fpls.2013.00272>
- Leonard, R. J., McArthur, C., & Hochuli, D. F. (2016). Particulate matter deposition on roadside plants and the importance of leaf trait combinations. *Urban Forestry and Urban Greening*, 20, 249–253. <https://doi.org/10.1016/j.ufug.2016.09.008>
- Li, Changchao, Du, D., Gan, Y., Ji, S., Wang, L., Chang, M., & Liu, J. (2022). Foliar dust as a reliable environmental monitor of heavy metal pollution in comparison to plant leaves and soil in urban areas. *Chemosphere*, 287(May 2021). <https://doi.org/10.1016/j.chemosphere.2021.132341>
- Li, Cuimin, Wei, J., & Li, C. (2019). Influence of foliage thickness on thermal performance of green façades in hot and humid climate. *Energy and Buildings*, 199, 72–87.

<https://doi.org/10.1016/j.enbuild.2019.06.045>

- Li, Y., Wang, Y., Wang, B., Wang, Y., & Yu, W. (2019). The Response of Plant Photosynthesis and Stomatal Conductance to Fine Particulate Matter (PM_{2.5}) based on Leaf Factors Analyzing. *Journal of Plant Biology*, 62(2), 120–128. <https://doi.org/10.1007/s12374-018-0254-9>
- Li, Yuping, Li, H., Li, Y., & Zhang, S. (2017). Improving water-use efficiency by decreasing stomatal conductance and transpiration rate to maintain higher ear photosynthetic rate in drought-resistant wheat. *Crop Journal*, 5(3), 231–239. <https://doi.org/10.1016/j.cj.2017.01.001>
- Li, Yifan, Wang, Y., Wang, B., Wang, Y., & Yu, W. (2019). The Response of Plant Photosynthesis and Stomatal Conductance to Fine Particulate Matter (PM_{2.5}) based on Leaf Factors Analyzing. *Journal of Plant Biology*, 62(2), 120–128. <https://doi.org/10.1007/s12374-018-0254-9>
- Li, S. Z., Zhu, X. K., Wu, L. H., & Luo, Y. M. (2020). Zinc, iron, and copper isotopic fractionation in *Elsholtzia splendens* Nakai: A study of elemental uptake and (re)translocation mechanisms. *Journal of Asian Earth Sciences*, 192(November 2019), 104227. <https://doi.org/10.1016/j.jseaes.2020.104227>
- Li, S., Liu, J., Liu, H., Qiu, R., Gao, Y., & Duan, A. (2021). *Role of Hydraulic Signal and ABA in Decrease of Leaf Stomatal and Mesophyll Conductance in Soil Drought-Stressed Tomato*. 12(April), 1–12. <https://doi.org/10.3389/fpls.2021.653186>
- Liu, M., & Qin, X. (2018). *Landscape Design of Vine Garden of Xishuangbanna Tropical Botanical Garden of Chinese Academy of Sciences*. 232(Icadce), 522–525. <https://doi.org/10.2991/icadce-18.2018.110>
- Lohe, R. N., Tyagi, B., Singh, V., Tyagi, P. K., Khanna, D. R., Bhutiani, R., & Science, E. (2015). *A comparative study for air pollution tolerance index of some terrestrial plant species*. 1(4), 315–324. <https://doi.org/10.7508/gjesm.2015.04.006>
- Lovisolo, C., Schubert, A., & Sorce, C. (2002). Are xylem radial development and hydraulic conductivity in downwardly-growing grapevine shoots influenced by perturbed auxin metabolism? *New Phytologist*, 156(1), 65–74. <https://doi.org/10.1046/j.1469-8137.2002.00492.x>
- Lugoan, C., & Ciulca, S. (2011). *Evaluation of relative water content in winter wheat*. 15(2), 173–177.
- Mahfouz, H., Megawer, E. A., Maher, A., & Shaaban, A. (2020). Integrated effect of planting dates and irrigation regimes on morpho-physiological response, forage yield and quality, and water use efficiency of clitoria (*Clitoria ternatea* L.) in arid region. *Archives of Agronomy and Soil Science*, 66(2), 152–167.

<https://doi.org/10.1080/03650340.2019.1605165>

- Martin, T. A., Hinckley, T. M., Meinzer, F. C., & Sprugel, D. G. (1999). Boundary layer conductance, leaf temperature and transpiration of *Abies amabilis* branches. *Tree Physiology*, 19(7), 435–443. <https://doi.org/10.1093/treephys/19.7.435>
- Mason, M. G., Ross, J. J., Babst, B. A., Wienclaw, B. N., & Beveridge, C. A. (2014). Sugar demand, not auxin, is the initial regulator of apical dominance. *Proceedings of the National Academy of Sciences of the United States of America*, 111(16), 6092–6097. <https://doi.org/10.1073/pnas.1322045111>
- Massmann, A. (2019). *When Does Vapor Pressure Deficit Drive or Reduce Evapotranspiration?* *Journal of Advances in Modeling Earth Systems*. 3305–3320. <https://doi.org/10.1029/2019MS001790>
- Matsoukas, I. G., Massiah, A. J., & Thomas, B. (2013). Starch metabolism and antiflorigenic signals modulate the juvenile-to-adult phase transition in *Arabidopsis*. *Plant, Cell and Environment*, 36(10), 1802–1811. <https://doi.org/10.1111/pce.12088>
- Matsoukas, I. G. (2015). Florigens and antiflorigens: A molecular genetic understanding. *Essays in Biochemistry*, 58, 133–149. <https://doi.org/10.1042/BSE0580133>
- Mori, J., Hanslin, H. M., Burchi, G., & Sæbø, A. (2015). Particulate matter and element accumulation on coniferous trees at different distances from a highway. *Urban Forestry and Urban Greening*, 14(1), 170–177. <https://doi.org/10.1016/j.ufug.2014.09.005>
- Medl, A., Florineth, F., Kikuta, S. B., & Mayr, S. (2018). Irrigation of 'Green walls' is necessary to avoid drought stress of grass vegetation (*Phleum pratense* L.). *Ecological Engineering*, 113(October 2017), 21–26. <https://doi.org/10.1016/j.ecoleng.2018.01.007>
- Mellidou, I., & Kanellis, A. K. (2017). Genetic control of ascorbic acid biosynthesis and recycling in horticultural crops. *Frontiers in Chemistry*, 5(JUL), 1–8. <https://doi.org/10.3389/fchem.2017.00050>
- Mukherjee, A., & Agrawal, M. (2018). Use of GLM approach to assess the responses of tropical trees to urban air pollution in relation to leaf functional traits and tree characteristics. *Ecotoxicology and Environmental Safety*, 152(February), 42–54. <https://doi.org/10.1016/j.ecoenv.2018.01.038>
- Murray, M., Soh, W. K., Yiotis, C., Batke, S., Parnell, A. C., Spicer, R. A., Lawson, T., Caballero, R., Wright, I. J., Purcell, C., McElwain, J. C., Adams, H. D., & Clifford, M. J. (2019). *Convergence in Maximum Stomatal Conductance of C3 Woody Angiosperms in Natural Ecosystems Across Bioclimatic Zones*. 10(May). <https://doi.org/10.3389/fpls.2019.00558>
- Nadgórska-Socha, A., Kandziora-Ciupa, M., Trzęsicki, M., & Barczyk, G. (2017). Air pollution tolerance index and heavy metal bioaccumulation in selected plant species from urban biotopes. *Chemosphere*, 183, 471–482.

<https://doi.org/10.1016/j.chemosphere.2017.05.128>

- Negi, S., Perrine, Z., Friedland, N., Kumar, A., Tokutsu, R., Minagawa, J., & Berg, H. (2020). *Light regulation of light-harvesting antenna size substantially enhances photosynthetic efficiency and biomass yield in*. 584–603. <https://doi.org/10.1111/tpj.14751>
- Nema, N. K., Maity, N., Sarkar, B. K., & Mukherjee, P. K. (2014). Determination of trace and heavy metals in some commonly used medicinal herbs in Ayurveda. *Toxicology and Industrial Health*, 30(10), 964–968. <https://doi.org/10.1177/0748233712468015>
- Nguyen, H. T. (2017). *Leaf water storage increases with salinity and aridity in the mangrove Avicennia marina : integration of leaf structure , osmotic adjustment and access to multiple water sources*. 1576–1591. <https://doi.org/10.1111/pce.12962>
- Noctor, G., & Foyer, C. H. (1998). Ascorbate and Glutathione: Keeping Active Oxygen under Control. *Annual Review of Plant Biology*, 49(July), 249–279. <https://doi.org/10.1146/annurev.arplant.49.1.249>
- Ogagaoghene, A. J. (2017). pH level, ascorbic acid, proline and soluble sugar as bio - indicators for pollution. *ChemSearch Journal*, 8(2), 41–49.
- Onoda, Y., Schieving, F., & Anten, N. P. R. (2015). *RESEARCH PAPER A novel method of measuring leaf epidermis and mesophyll stiffness shows the ubiquitous nature of the sandwich structure of leaf laminas in broad-leaved angiosperm species*. 66(9), 2487–2499. <https://doi.org/10.1093/jxb/erv024>
- Othman, Y., Vanleeuwen, D., Heerema, R., & Hilaire, R. S. (2014). *Midday Stem Water Potential Values Needed to Maintain Photosynthesis and Leaf Gas Exchange Established for Pecan*. 139(5), 537–546.
- Ottel , M., van Bohemen, H. D., & Fraaij, A. L. A. (2010). Quantifying the deposition of particulate matter on climber vegetation on living walls. *Ecological Engineering*, 36(2), 154–162. <https://doi.org/10.1016/j.ecoleng.2009.02.007>
- Padmavathi P, Cherukuri J, R. M. (2013). Impact of air pollution on crops in the vicinity of a power plant: a case study. *International Journal of Engineering and Technology*, 2(12), 3641–3651. ISSN: 2278-0181
- Pan, L., Wei, S., Lai, P. Y., & Chu, L. M. (2020). Effect of plant traits and substrate moisture on the thermal performance of different plant species in vertical greenery systems. *Building and Environment*, 175(March), 106815. <https://doi.org/10.1016/j.buildenv.2020.106815>
- Panchal, P., Miller, A. J., & Giri, J. (2021). *Organic acids : Versatile stress response roles in plants Organic acids : versatile stress-response roles in plants. January.* <https://doi.org/10.1093/jxb/erab019>
- Pandey, A. K., Pandey, M., & Tripathi, B. D. (2015). Air Pollution Tolerance Index of climber plant species to develop Vertical Greenery Systems in a polluted tropical city. *Landscape*

- and *Urban Planning*, 144, 119–127. <https://doi.org/10.1016/j.landurbplan.2015.08.014>
- Panditharathna, P. A. K. A. K., Singhakumara, B. M. P., Griscom, H. P., & Ashton, M. S. (2008). *Change in leaf structure in relation to crown position and size class for tree species within a Sri Lankan tropical rain forest. May 2014*. <https://doi.org/10.1139/B08-039>
- Paul, G. S., & Yavitt, J. B. (2011). Tropical Vine Growth and the Effects on Forest Succession: A Review of the Ecology and Management of Tropical Climbing Plants. *Botanical Review*, 77(1), 11–30. <https://doi.org/10.1007/s12229-010-9059-3>
- Paull, N. J., Irga, P. J., & Torpy, F. R. (2018). Active green wall plant health tolerance to diesel smoke exposure. *Environmental Pollution*, 240, 448–456. <https://doi.org/10.1016/j.envpol.2018.05.004>
- Paull, N. J., Krix, D., Torpy, F. R., & Irga, P. J. (2020). Can green walls reduce outdoor ambient particulate matter, noise pollution and temperature? *International Journal of Environmental Research and Public Health*, 17(14), 1–19. <https://doi.org/10.3390/ijerph17145084>
- Parlange, J., Waggoner, P. E., & Heichel, G. H. (1971). *Boundary Layer Resistance and Temperature Distribution Still and Flapping Leaves*. 437–442.
- Pawlak-Sprada, S., Arasimowicz-Jelonek, M., Podgórska, M., & Deckert, J. (2011). Activation of phenylpropanoid pathway in legume plants exposed to heavy metals. Part I. Effects of cadmium and lead on phenylalanine ammonia-lyase gene expression, enzyme activity and lignin content. *Acta Biochimica Polonica*, 58(2), 211–216.
- Pemerintah Republik Indonesia. PP Nomor 22/2021. *Penyelenggaraan Perlindungan dan Pengelolaan Lingkungan Hidup*.
- Pérez, G., Rincón, L., Vila, A., González, J. M., & Cabeza, L. F. (2011). Green vertical systems for buildings as passive systems for energy savings. *Applied Energy*, 88(12), 4854–4859. <https://doi.org/10.1016/j.apenergy.2011.06.032>
- Pérez, G., Coma, J., Barreneche, C., De Gracia, A., Urrestarazu, M., Burés, S., & Cabeza, L. F. (2016). Acoustic insulation capacity of Vertical Greenery Systems for buildings. *Applied Acoustics*, 110, 218–226. <https://doi.org/10.1016/j.apacoust.2016.03.040>
- Pérez, G., Coma, J., Chàfer, M., & Cabeza, L. F. (2022). Seasonal influence of leaf area index (LAI) on the energy performance of a green facade. *Building and Environment*, 207(June 2021). <https://doi.org/10.1016/j.buildenv.2021.108497>
- Perini, K., Ottel  , M., Fraaij, A. L. A., Haas, E. M., & Raiteri, R. (2011). Vertical greening systems and the effect on air flow and temperature on the building envelope. *Building and Environment*, 46(11), 2287–2294. <https://doi.org/10.1016/j.buildenv.2011.05.009>
- Phang, I. C., Leung, D. W. M., Taylor, H. H., & Burritt, D. J. (2011). Correlation of growth inhibition with accumulation of Pb in cell wall and changes in response to oxidative stress

- in *Arabidopsis thaliana* seedlings. *Plant Growth Regulation*, 64(1), 17–25.
<https://doi.org/10.1007/s10725-010-9527-0>
- Popek, R., Fornal-Pieniak, B. Chylinski, F., Pawełkowicz, M., Bobrowicz, J., Chrzanowska, D., Piechota, N., Przybysz, A. (2022). Not Only Trees Matter—Traffic-Related PM Accumulation by Vegetation of Urban Forests. *Sustainability*, 14, 2973.
<https://doi.org/10.3390/su14052973>
- Prasetyaningsih, D. D., & Sitawati. (2019). Pengaruh Posisi Penanaman dan Pemberian Zat Pengatur Tumbuh Terhadap Keberhasilan Pertumbuhan Stek Batang Tanaman Lee Kwan Yew (*Vernonia elliptica*). *Jurnal Produksi Tanaman*, 7(1), 173–180.
- Pratami, W. N., C. A., Muryatini, N. N., Sukerti, N. K., Made, N., Meitridwiastiti, A. A. A., Bagus, I. G., Kusuma, A., Putu, N., Santiari, L., Rahayuda, I. G. S., Wibawa, I. G. S., & Bhargo, K. (2021). PKM Pengembangan Usaha IRT Bunga Telang di Desa Pemecutan Denpasar. *Jurnal Ilmiah Populer*. 3(3), 91–98.
- Pritchard, S. G., Rogers, H. H., Prior, S. A., & Peterson, C. M. (1999). Elevated CO₂ and plant structure: a review. *Global Change Biology*. 5, 807–837,
- Priya, M., Saravana R. A., Vinosh M. P., & Bharathiraja, B. (2016). Experimental study on biochemical and physiological adaptation of mercury accumulation and tolerance in *clitoria ternatea* L. *Journal of Chemical and Pharmaceutical Sciences*, 9(1), 298–303.
ISSN 2300-9675
- Rahul, J., & Jain, M. K. (2016). Effect of heavy metals on some selected roadside plants and its morphological study. *Nature Environment and Pollution Technology*, 15(4), 1133–1142.
ISSN: 0972-6268
- Rai, A., Kulshreshtha, K., Srivastava, P. K., & Mohanty, C. S. (2010). Leaf surface structure alterations due to particulate pollution in some common plants. *Environmentalist*, 30(1), 18–23. <https://doi.org/10.1007/s10669-009-9238-0>
- Ram, S. S., Majumder, S., Chaudhuri, P., Chanda, S., Santra, S. C., Chakraborty, A., & Sudarshan, M. (2015). A review on air pollution monitoring and management using plants with special reference to foliar dust adsorption and physiological stress responses. *Critical Reviews in Environmental Science and Technology*, 45(23), 2489–2522.
<https://doi.org/10.1080/10643389.2015.1046775>
- Ramli, M. E., Salleh, R. M., Tajarudin, H. A., & Zulkurnain, M. (2021). Influence of amylose content on phenolics fortification of different rice varieties with butterfly pea (*Clitoria ternatea*) flower extract through parboiling. *LWT-Food and Technology*, 147, 111493.
<https://doi.org/10.1016/j.lwt.2021.111493>
- Reinhold, L. (1967). Induction of Coiling in Tendrils by Auxin and Carbon Dioxide, *American Association for the Advancement of Science*, 158(3802), 791–793.
<https://www.jstor.org/stable/1723088>.

- Reformasintansari, A. (2021). *Kodifikasi dan Deskripsi Tahapan Pertumbuhan Fenologi Bunga Telang (Clitoria ternatea L .) Menurut Skala BBCH Codification and Description of Phenological Growth Stages of Butterfly Pea (Clitoria ternatea L .) According to The BBCH Scale. Jurnal Produksi Tanaman. 9(2), 169–176. ISSN: 2527-8452*
- Rojas-Sandoval J., 2016. *Clitoria ternatea (butterfly-pea). Invasive Species Compendium. Wallingford, UK: CABI. DOI:10.1079/ISC.55416.20203482785*
- Salsinha, Y. C. F., Maryani, Indradewa, D., Purwestri, Y. A., & Rachmawati, D. (2021). Leaf physiological and anatomical characters contribute to drought tolerance of Nusa Tenggara Timur local rice cultivars. *Journal of Crop Science and Biotechnology, 24(3), 337–348. <https://doi.org/10.1007/s12892-020-00082-1>*
- Sari, D. P. (2021). A Review of How Building Mitigates the Urban Heat Island in Indonesia and Tropical Cities. *Earth, 2(3), 653–666. <https://doi.org/10.3390/earth2030038>*
- Savage, J. A., Zwieniecki, M. A., & Michele Holbrook, N. (2013). Phloem transport velocity varies over time and among vascular bundles during early cucumber seedling development. *Plant Physiology, 163(3), 1409–1418. <https://doi.org/10.1104/pp.113.225359>*
- Scamoni, F., Scrosati, C., Depalma, M., & Barozzi, B. (2022). Experimental evaluations of acoustic properties and long-term analysis of a novel indoor living wall. *Journal of Building Engineering, 47(December 2021). <https://doi.org/10.1016/j.jobbe.2021.103890>*
- Schymanski, S. J., & Or, D. (2016). *Wind increases leaf water use efficiency. 1448–1459. <https://doi.org/10.1111/pce.12700>*
- Shabnam, N., Oh, J., Park, S., & Kim, H. (2021). Impact of particulate matter on primary leaves of *Vigna radiata* (L.) R. Wilczek. *Ecotoxicology and Environmental Safety, 212, 0–8. <https://doi.org/10.1016/j.ecoenv.2021.111965>*
- Sharma, P., Jha, A. B., Dubey, R. S., & Pessarakli, M. (2012). Reactive Oxygen Species, Oxidative Damage, and Antioxidative Defense Mechanism in Plants under Stressful Conditions. *Journal of Botany, 2012, 1–26. <https://doi.org/10.1155/2012/217037>*
- Shen, J., Zeng, Y., Zhuang, X., Sun, L., Yao, X., & Pimpl, P. (2013). Organelle pH in the Arabidopsis Endomembrane System. *Molecular Plant, 6(5), 1419–1437. <https://doi.org/10.1093/mp/sst079>*
- Shipley, B. (2005). *Functional linkages between leaf traits and net photosynthetic rate : reconciling empirical and. 602–615. <https://doi.org/10.1111/j.1365-2435.2005.01008.x>*
- Sikder, S., Mohammad, H., Science, D., Foulkes, M. J., Silva, J. G. De, & Gaju, O. (2015). *Evaluation of photosynthetic potential of wheat genotypes under drought condition Evaluation of photosynthetic potential of wheat genotypes under drought condition. October. <https://doi.org/10.1007/s11099-015-0082-9>*
- Singh, S. K., Rao, D. N., Agrawal, M., Pandey, J., & Naryan, D. (1991). Air pollution tolerance

- index of plants. *Journal of Environmental Management*, 32(1), 45–55.
[https://doi.org/10.1016/S0301-4797\(05\)80080-5](https://doi.org/10.1016/S0301-4797(05)80080-5)
- Singh, H., Bandyopadhyay, S., Kumar, A., Singh, M., Malik, A., Kumari, G., Raturi, A., Yadav, S. K., Kumar, M., Barthwal, S., Thakur, A., & Rawat, P. S. (2022). Understanding the physiological and biophysical response of urban roadside plantations for assessing adaptation and mitigation mechanisms toward vehicular emissions. *Urban Climate*, 44, 1–12. <https://doi.org/10.1016/j.ucldim.2022.101183>
- Song, F., & Gao, Y. (2011). Size distributions of trace elements associated with ambient particular matter in the affinity of a major highway in the New Jersey-New York metropolitan area. *Atmospheric Environment*, 45(37), 6714–6723. <https://doi.org/10.1016/j.atmosenv.2011.08.031>
- Suarna, W., & Wijaya, M. S. (2021). Butterfly pea (*clitoria ternatea* L.: Fabaceae) and its morphological variations in Bali. *Journal of Tropical Biodiversity and Biotechnology*, 6(2), 1–12. <https://doi.org/10.22146/JTBB.63013>
- Sulaiman, F. R., & Hamzah, H. A. (2018). Heavy metals accumulation in suburban roadside plants of a tropical area (Jengka, Malaysia). *Ecological Processes*, 7(1). <https://doi.org/10.1186/s13717-018-0139-3>
- Smith, L.W., Goering, H.K., & Gordon, C.H. (1972). Relationship of forage compositions with rates of cell wall digestion and indigestibility of cell walls. *Journal of Dairy Science*, 55(8), 1140–1147, [https://doi.org/10.3168/jds.S0022-0302\(72\)85636-4](https://doi.org/10.3168/jds.S0022-0302(72)85636-4)
- Stanfield, R. C., Schulte, P. J., Randolph, K. E., & Hacke, U. G. (2019). Computational models evaluating the impact of sieve plates and radial water exchange on phloem pressure gradients. *Plant Cell and Environment*, 42(2), 466–479. <https://doi.org/10.1111/pce.13414>
- Sun, X., Li, P., & Zheng, G. (2021). Cellular and subcellular distribution and factors influencing the accumulation of atmospheric Hg in *Tillandsia usneoides* leaves. *Journal of Hazardous Materials*, 414(November 2020), 125529. <https://doi.org/10.1016/j.jhazmat.2021.125529>
- Suparwoko, & Taufani, B. (2017). Urban Farming Construction Model on the Vertical Building Envelope to Support the Green Buildings Development in Sleman, Indonesia. *Procedia Engineering*, 171, 258–264. <https://doi.org/10.1016/j.proeng.2017.01.333>
- Tahjib-Ul-Arif, M., Zahan, M., Karim, M., Imran, S., Hunter, C.T., Islam, M., Mia, M., Hannan, M., Rhaman, M., Hossain, M., et al. (2021). Citric Acid-Mediated Abiotic Stress Tolerance in Plants. *Int. J. Mol. Sci.*, 22, 7235. <https://doi.org/10.3390/ijms22137235>
- Tan, C. L., Wong, N. H., & Jusuf, S. K. (2014). Effects of vertical greenery on mean radiant temperature in the tropical urban environment. *Landscape and Urban Planning*, 127, 52–64. <https://doi.org/10.1016/j.landurbplan.2014.04.005>

- Taur, D. J., Taware, S. B., Patil, R. N., Patil, R. Y., & Kharya, M. D. (2010). Pharmacognostical and preliminary phytochemical evaluation of *Clitoria ternatea* leaves. *Pharmacognosy Journal*, 2(9), 260–265. [https://doi.org/10.1016/S0975-3575\(10\)80114-2](https://doi.org/10.1016/S0975-3575(10)80114-2)
- Taylor, G. E. (1978). Plant and Leaf Resistance To Gaseous Air Pollution Stress. *New Phytologist*, 80(3), 523–534. <https://doi.org/10.1111/j.1469-8137.1978.tb01584.x>
- Telewski, F. W. (2006). *A Unified Hypothesis of Mechanoperception in Plants* Author (s): Frank W . Telewski Source : *American Journal of Botany* , Oct . , 2006 , Vol . 93 , No . 10 (Oct . , 2006) , pp . 1466- Published by : Wiley Stable URL : <https://www.jstor.org/stable/4123130> . 93(10), 1466–1476.
- Thérroux-rancourt, G., Roddy, A. B., Earles, J. M., Gilbert, M. E., Zwieniecki, M. A., Boyce, C. K., Tholen, D., Mcelrone, A. J., Simonin, K. A., Brodersen, C. R., Thérroux-rancourt, G., & Roddy, A. B. (2021). *Maximum CO₂ diffusion inside leaves is limited by the scaling of cell size and genome size*.
- Tsega, C. T. & Prasad, A. G. D. (2014). Variation in air pollution tolerance index and anticipated performance index of roadside plants in Mysore, India. *Journal of Environmental Biology*, 35, 185-190, ISSN 0254-8704
- Uzu, G., Sobanska, S., Moreau, M., Choël, M., & Dumat, C. (2010). Foliar lead uptake by lettuce exposed to atmospheric fallouts: Raman imaging study. *AIP Conference Proceedings*, 1267(3), 504–505. <https://doi.org/10.1063/1.3482642>
- Van Volkenburgh, E., & Cleland, R. E. (1980). Proton excretion and cell expansion in bean leaves, Springer, 148 (3), 273-278, <https://www.jstor.org/stable/23374827>
- Van Volkenburgh, E., Cleland, R.E., Watanabe, M. (1990). Light-stimulated cell expansion in bean (*Phaseolus vulgaris* L.) leaves: II. Quantity and quality of light required, Springer, 182 (1), 77-80, <https://www.jstor.org/stable/23380384>
- Varghese, J. T., Ghosh, S., Pandey, S., & Samanta, R. (2015). Evaluating the cleansing efficiency of an extended living façade draped with *vernonia elaeagnifolia*. *Journal of Green Building*, 10(2), 157–177. <https://doi.org/10.3992/jgb.10.2.157>
- Watson, D. J. (1958). *The Dependence of Net Assimilation Rate on Leaf-area*, *Annals of Botany*, 22(85), 37–54. <http://www.jstor.org/stable/42907407> .
- Werger, L., Bergmann, J., Weber, E., & Heinze, J. (2020). *Wind intensity affects fine root morphological traits with consequences for plant-soil feedback effects*. 12(5), 1–12. <https://doi.org/10.1093/aobpla/plaa050>
- Widiastuti, R., Zaini, J., Caesarendra, W., Kokogiannakis, G., & Binti Suhailian, S. N. N. (2022). Thermal insulation effect of green façades based on calculation of heat transfer and long wave infrared radiative exchange. *Measurement: Journal of the International Measurement Confederation*, 188(December 2021), 110555.

<https://doi.org/10.1016/j.measurement.2021.110555>

- Williams, J., Phillips, A. L., Gaskin, P., & Hedden, P. (1998). *Function and Substrate Specificity of the Gibberellin 3 α -Hydroxylase Encoded by the Arabidopsis GA4 Gene 1*. 7,559–563.
- Wilson, P. J., Thompson, K., & Hodgson, J. G. (1999). Specific leaf area and leaf dry matter content as alternative predictors of plant strategies. *New Phytologist*, 143(1), 155–162. <https://doi.org/10.1046/j.1469-8137.1999.00427.x>
- Wei, X., Lyu, S., Yu, Y., Wang, Z., Liu, H., Pan, D., & Chen, J. (2017). Phylloremediation of air pollutants: Exploiting the potential of plant leaves and leaf-associated microbes. *Frontiers in Plant Science*, 8(2), 1–23. <https://doi.org/10.3389/fpls.2017.01318>
- Wen, D., Zhai, W., Xiang, S., Hu, Z., Wei, T., & Noll, K. E. (2017). Near-roadway monitoring of vehicle emissions as a function of mode of operation for light-duty vehicles. *Journal of the Air and Waste Management Association*, 67(11), 1229–1239. <https://doi.org/10.1080/10962247.2017.1330713>
- Wong, N. H., Kwang Tan, A. Y., Tan, P. Y., Chiang, K., & Wong, N. C. (2010). Acoustics evaluation of vertical greenery systems for building walls. *Building and Environment*, 45(2), 411–420. <https://doi.org/10.1016/j.buildenv.2009.06.017>
- World Health Organization. 2021. *WHO Global Air Quality Guidelines: Particulate Matter, Ozone, Nitrogen Dioxide, Sulfur Dioxide and Carbon Monoxide*.
- Wyka, T. P., Zadworny, M., Mucha, J., Żytkowiak, R., Nowak, K., & Oleksyn, J. (2019). Species-specific responses of growth and biomass distribution to trellis availability in three temperate lianas. *Trees - Structure and Function*, 33(3), 921–932. <https://doi.org/10.1007/s00468-019-01828-3>
- Xiong, T., Zhang, T., Dumat, C., Sobanska, S., Dappe, V., Shahid, M., Xian, Y., Li, X., & Li, S. (2019). Airborne foliar transfer of particular metals in *Lactuca sativa* L.: translocation, phytotoxicity, and bioaccessibility. *Environmental Science and Pollution Research*, 26(20), 20064–20078. <https://doi.org/10.1007/s11356-018-3084-x>
- Xu, Z., Jiang, Y., Jia, B., & Zhou, G. (2016). *Elevated-CO₂ Response of Stomata and Its Dependence on Environmental Factors*. 7(May), 1–15. <https://doi.org/10.3389/fpls.2016.00657>
- Yang, H. M., Zhang, X. Y., & Wang, G. X. (2004). Effects of heavy metals on stomatal movements in broad bean leaves. *Russian Journal of Plant Physiology*, 51(4), 464–468. <https://doi.org/10.1023/B:RUPP.0000035737.29487.dc>
- Yang, Y., Zhang, L., Huang, X., Zhou, Y., Quan, Q., Li, Y., & Zhu, X. (2020). Response of photosynthesis to different concentrations of heavy metals in *Davidia involucreata*. *PLoS ONE*, 15(3), 1–16. <https://doi.org/10.1371/journal.pone.0228563>
- Ye, N., Zhu, G., Liu, Y., Zhang, A., Li, Y., Liu, R., Shi, L., & Jia, L. (2012). *Ascorbic acid and*

reactive oxygen species are involved in the inhibition of seed germination by abscisic acid in rice seeds. 63(5), 1809–1822. <https://doi.org/10.1093/jxb/err336>

- Yooyongwech, S., Samphumphuang, T., Tisarum, R., Theerawitaya, C., & Cha-Um, S. (2017). Water-deficit tolerance in sweet potato [*Ipomoea batatas* (L.) Lam.] by foliar application of paclobutrazol: Role of soluble sugar and free proline. *Frontiers in Plant Science*, 8(August), 1–13. <https://doi.org/10.3389/fpls.2017.01400>
- Zhang, F., Yan, X., Zeng, C., Zhang, M., Shrestha, S., Devkota, L. P., & Yao, T. (2012). Influence of traffic activity on heavy metal concentrations of roadside farmLand soil in mountainous areas. *International Journal of Environmental Research and Public Health*, 9(5), 1715–1731. <https://doi.org/10.3390/ijerph9051715>
- Zhang, P. qian, Liu, Y. ju, Chen, X., Yang, Z., Zhu, M. hao, & Li, Y. ping. (2016). Pollution resistance assessment of existing landscape plants on Beijing streets based on air pollution tolerance index method. *Ecotoxicology and Environmental Safety*, 132,212–223.
- Zhang, H., Zhang, Y., Wang, Z., Ding, M., Jiang, Y., & Xie, Z. (2016). Traffic-related metal(loid) status and uptake by dominant plants growing naturally in roadside soils in the Tibetan plateau, China. *Science of the Total Environment*, 573(11), 915–923. <https://doi.org/10.1016/j.scitotenv.2016.08.128>
- Zhang, W., Zhang, Z., Meng, H., & Zhang, T. (2018). *How Does Leaf Surface Micromorphology of Different Trees Impact Their Ability to Capture Particulate Matter?* 2. <https://doi.org/10.3390/f9110681>
- Zhou, J. Y., Hao, D. L., & Yang, G. Z. (2021). Regulation of cytosolic pH: The contributions of plant plasma membrane H⁺-atpases and multiple transporters. *International Journal of Molecular Sciences*, 22(23), 14–16. <https://doi.org/10.3390/ijms222312998>
- Zhu, Y., Cheng, Z., Feng, K., Chen, Z., Cao, C., Huang, J., Ye, H., & Gao, Y. (2022). Influencing factors for transpiration rate : A numerical simulation of an individual leaf system. *Thermal Science and Engineering Progress*, 27(October 2021), 101110. <https://doi.org/10.1016/j.tsep.2021.101110>
- Zhu, J., & Xu, C. (2021). Intraspecific differences in plant functional traits are related to urban atmospheric particulate matter. *BMC Plant Biology*, 21(1), 1–12. <https://doi.org/10.1186/s12870-021-03207-y>
- Zhu, J., Zhu, H., Cao, Y., Li, J., Zhu, Q., Yao, J., & Xu, C. (2020). Effect of simulated warming on leaf functional traits of urban greening plants. *BMC Plant Biology*, 20(1), 1–13. <https://doi.org/10.1186/s12870-020-02359-7>
- Zhu, Y., & Wagner, D. (2020). Plant inflorescence architecture: The formation, activity, and fate of axillary meristems. *Cold Spring Harbor Perspectives in Biology*, 12(1), 1–22. <https://doi.org/10.1101/cshperspect.a034652>