## Antoine's Google Scholar profile

#### Refereed Journal Articles

- **Harfouche, A. L.,** Nakhle, F., Corona, P. (2023). Metaverse technology innovating plant science research and learning. *Trends in Plant Science*. (Invited Article in Press).
- **Harfouche**, **A. L.**, Nakhle, F. (2023). Artificial intelligence, blockchain, and extended reality: emerging digital technologies to turn the tide on illegal logging and illegal wood trade. **Annals of Silvicultural Research** 48 (1): 12–21.
- Harfouche, A. L., Nakhle, F., Harfouche, A. H., Sardella, O. G., Dart, E., Jacobson, D. (2023). A primer on artificial intelligence in plant digital phenomics: embarking on the data to insights journey. *Trends in Plant Science*, 28 (2): 154-184. (Featured Invited Article) and (Article chosen for journal cover image, Number 2, February 2023)
- Nakhle, F., **Harfouche, A.L.** (2023). Extended reality gives digital agricultural biotechnology a new dimension. *Trends in Biotechnology*, 41 (1): 1-5. (Invited Article).
- Sallustio, L., Harfouche, A.L., Salvati, L., Marchetti, M., Corona, P. (2022). Evaluating the potential of marginal lands available for sustainable cellulosic biofuel production in ltaly. Socio-Economic Planning Sciences, 82, 101309.
- **Harfouche, A.,** Romagnoli, M., Corona, P. (2022). Under the "publish or perish" mantra and the race for grants, insights to catalyze research into wood science. *Annals of Silvicultural Research* 47 (2): 116-118.
- Tauro, F., Maltese, A., Giannini, R., Harfouche, A. (2022). Latent heat flux variability and response to drought stress of black poplar: A multi-platform multi-sensor remote and proximal sensing approach to relieve the data scarcity. Remote Sensing of Environment 268, 112771.
- Nakhle, F., **Harfouche, A.L.** (2021). Ready, Steady, Go AI: A practical tutorial on fundamentals of artificial intelligence and its applications in phenomics image analysis. *Patterns* 2 (9), 100323. (Invited Article) and (Article chosen for journal cover image, Number 9, September 2021)
- Harfouche, A.L., Petousi, V., Meilan, R., Sweet, J., Twardowski, T., Altman, A. (2021) Promoting ethically responsible use of agricultural biotechnology. *Trends in Plant Science* 26: 546-559. (Featured Invited Article) and (Article chosen for journal cover image, Number 6, June 2021)
- Francesconi, S., **Harfouche, A.,** Maesano, M., Balestra, G.M. (2021). UAV-based thermal, RGB imaging and gene expression analysis allowed detection of Fusarium Head blight and gave new insights into the physiological responses to the disease in durum wheat. *Frontiers in plant science* 12:551.
- **Harfouche**, **A.L**, Nakhle, F. (2020). Creating bioethics distance learning through virtual reality. *Trends in Biotechnology* 38: 1187-1192. (Invited Article)

- Maesano, M., Khoury, S., Nakhle, F., Firrincieli, A., Gay, A., Tauro, F., **Harfouche, A.** (2020). UAV-based LiDAR for high-throughput determination of plant height and above-ground biomass of the bioenergy grass *Arundo donax*. **Remote Sensing** 12(20), 3464.
- Streich, J Romero, J Gazolla JGFM, Kainer D, Cliff A, Prates ET, Brown JB, Khoury S, Tuskan GA, Garvin M, Jacobson D, **Harfouche AL**. (2020). Can exascale computing and explainable artificial intelligence applied to plant biology deliver on the United Nations sustainable development goals? *Current Opinion in Biotechnology* 61: 217-225. (Invited Article)
- Taylor G., Donnison I.S., Murphy-Bokern D., Morgante M., Bogeat Triboulot M-B., Bhalerao R., Hertzberg M., Polle A., Harfouche A., Alasia F., Petoussi V., Trebbi D., Schwarz K., Keurentjes J.J.B., Centritto M., Genty B., Flexas J., Grill E., Salvi S., Davis WJ. (2019). Sustainable bioenergy for climate mitigation: developing drought tolerant trees and grasses. *Annals of Botany* 124: 513–520. (Article chosen for journal cover image, Number 4, September 2019)
- Harfouche, A.L, Jacobson, D., Kainer, D., Romero, J., Harfouche, A.H., Scarascia Mugnozza, G., Moshelion, M., Tuskan, G., Keurentjes, J., Altman, A. (2019). Accelerating climate resilient plant breeding by applying next-generation artificial intelligence. *Trends in Biotechnology* 37: 1217–1235. (Invited Article) and (Article chosen for journal cover image, Number 11, November 2019)
- Firrincieli, A., Presentato, A., Favoino, G., Marabottini, R., Allevato, E., Stazi S.R., Scarascia-Mugnozza, G., **Harfouche, A.,** Petruccioli, M., Zannoni, D., Turner, R.J., Cappelletti, M. (2019). Identification of resistance genes and response to arsenic in *Rhodococcus aetherivorans* BCP1. *Frontiers in Microbiology* 10:888.
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- Ludovisi, R., F. Tauro, R. Salvati, S. Khoury, G. Mugnozza Scarascia, and **A. Harfouche**. (2017). UAV-based thermal imaging for high-throughput field phenotyping of black poplar response to drought. *Frontiers in Plant Science* 8:1681. (Article has more citations than 98% of all Frontiers articles)
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### **Edited Book**

2023. "The Impact of Artificial Intelligence on Business and Society — The Advent of the Smart Organization", **Springer Nature Switzerland AG**. Editors Antoine H. Harfouche and **Antoine L. Harfouche**, (in progress).

### **Edited Volumes**

2019. Special issue on "Developing Sustainable Bioenergy Crops for Future Climates", *Annals of Botany* (Guest co-editor with Rishi Bhalerao, Bill Davies, Iain Donnison, Joost Keurentjes, Michele Morgante, Donal Murphy-Boekern, Steve Long, Andrea Polle, Andrew Smith and Gail Taylor).

# **Book Chapters**

- Kuzminsky, E., Rugini, E., **Harfouche**, **A**. (2015). Rigenerazione da tessuti maturi di due genotipi di pioppo bianco (*Populus alba* L.) adatti ad ambienti salini. In: Micheli M, Caboni E, Lambardi M, Monticelli S, Colture *in vitro*: note di laboratorio, Società di Ortoflorofrutticoltura Italiana, Sesto Fiorentino, Firenze, Italy. pp. 175-176.
- Vettori, C., Pilate G, Häggman H, Gallardo F, Ionita L, Ruohonen-Lehto M, Glandorf B, Harfouche, A., Biricolti, S., Paffetti, D., Kazana,V., Sijacic-Nikolic, M., Tsourgiannis, L., Migliacci, F., Donnarumma, F., Minol, K. and Faldung, M. (2014). COST Action FP0905: Biosafety of Forest Transgenic Trees. In: Ramawat K.G., Mérillon J-M., and Ahuja M. R. Tree Biotechnology, CRC Press, Boca Raton, USA. pp. 112-124.
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## Linee Guida

Corona et al. 2022. Prospettive e potenzialità della digitalizzazione del settore forestale in Italia. Rete Rurale Nazionale 2014-2020, Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria, Roma, ISBN:9788833852157.

# Publications in Proceedings of National and International Conferences

- <u>Firrincieli, A.</u>, (presenter), Minuti, A., Cappelletti, M., Ferilli, M., Ajmone-Marsan, P., Bani, P., Petruccioli, M., **Harfouche, A.L.** (2023). Structural and functional analysis of the active cow rumen's microbial community provides a catalogue of genes and microbes participating in the deconstruction of cardoon biomass. XXXIV SIMGBM (Società Italiana di Microbiologia Generale e Biotecnologie Microbiche) CONGRESS MICROBIOLOGY 2023, Cagliari, 21-24 September 2023 (Invited for Oral Presentation) (in progress).
- Pignatti, S., Casa, R., **Harfouche, A.,** Pascucci, S., Palombo, A. (2019). Maize crop and weeds species detection by using UAV VNIR hyperpectral data. *IGARSS 2019 2019 IEEE International Geoscience and Remote Sensing Symposium*, Yokohama, Japan, 2019, pp. 7235-7238, doi: 10.1109/IGARSS.2019.8900241.
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- **Harfouche, A.**, Salvati, R., Fabbrini, F., Scarascia-Mugnozza, G. (2015). Field-based phenomics: toward more efficient forest tree breeding. International Plant and Algal Phenomics Meeting (IPAP). p. 20. (**Invited Keynote Speaker**)
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