

Kelpie Wilson — Publications

Books, Research, Reports, and Public Writing

A curated collection of published work on biochar, climate, forestry, soil systems, and regenerative land practices.



Featured Publications

The Biochar Handbook: A Practical Guide to Making and Using Bioactivated Charcoal

Link: <https://www.chelseagreen.com/product/the-biochar-handbook/>

Mobile Biochar Production by Flame Carbonization: Reducing Wildfire Risk and Improving Forest Resilience

Link: https://www.fs.usda.gov/rm/pubs_series/rmrs/gtr/rmrs_gtr439.pdf

Producing, Characterizing and Quantifying Biochar in the Woods Using Portable Flame Cap Kilns

Link:

<https://www.jove.com/b/65543/carbon-sequestration-soil-enhancement-through-onsite-biochar>

A Carbon Conservation Corps to Restore Forests with Biochar Using Flame Cap Kilns

Link: <https://elibrary.asabe.org/abstract.asp?aid=52390>



Research Papers & Journal Articles

Life Cycle Assessment of Biochar Produced from Forest Residues Using Portable Systems

Link: <https://www.sciencedirect.com/science/article/abs/pii/S0959652619344348>

Waste to Wisdom Report: Life Cycle Assessment of Biochar from Postharvest Forest Residues

Link:

<https://img1.wsimg.com/blobby/go/55a2e356-17ba-48af-b8c3-a76d3f66be29/downloads/w2w-biochar-lca-final-report.pdf>

IBI White Paper: Implications and Risks of Potential Dioxin Presence in Biochar

Link:

https://biochar-international.org/wp-content/uploads/2023/01/IBI_White_Paper-Implications_of_Potential_-Dioxin_in_Biochar.pdf

Odor in Commercial Scale Compost: Literature Review and Critical Analysis

Link: <https://apps.ecology.wa.gov/publications/documents/1307066.pdf>

Biochar, Climate & Forestry Reports

Biomass to Biochar: Maximizing the Carbon Value

Link: <https://csanr.wsu.edu/biomass2biochar/>

Combined Heat and Biochar Technology Assessment for a Composting Operation

Link:

<https://img1.wsimg.com/blobby/go/55a2e356-17ba-48af-b8c3-a76d3f66be29/downloads/Com%20Ht%20ABWhite%20Pr%20KW%20TM%20082720.pdf>

Converting Shelterbelt Biomass to Biochar: A Feasibility Analysis for North Dakota Forest Service

Link:

<https://img1.wsimg.com/blobby/go/55a2e356-17ba-48af-b8c3-a76d3f66be29/downloads/WBA%20Converting%20Shelterbelt%20to%20BiocharLoRes.pdf>

Biochar for Forest Restoration in the Western United States

Link:

https://img1.wsimg.com/blobby/go/55a2e356-17ba-48af-b8c3-a76d3f66be29/downloads/Biochar_for_Forest_Restoration_WBA_rev.pdf

Biochar for Arborists

Link:

https://img1.wsimg.com/blobby/go/55a2e356-17ba-48af-b8c3-a76d3f66be29/downloads/TCI_Mag_Sept2012-digimag.pdf

Agriculture, Composting & Soil Systems

On-Farm Production and Use of Biochar for Composting with Manure

Link:

<https://img1.wsimg.com/blobby/go/55a2e356-17ba-48af-b8c3-a76d3f66be29/downloads/Biochar%20%26%20Manure%20CIG%20Final%20Report.pdf>

How Biochar Works in Soil

Link: <https://www.biochar-journal.org/itjo/media/doc/1414798880420.pdf>

Global Development & Climate Policy

Biochar Systems for Smallholders in Developing Countries: Leveraging Current Knowledge and Exploring Future Potential for Climate-Smart Agriculture

Link:

<https://openknowledge.worldbank.org/entities/publication/57d966b2-fca1-5fb0-828c-6a27797b7c4b>

Articles, Essays & Public Writing

The Good Black Magic That Could Save the Earth

Link: <https://yogainternational.com/article/view/the-good-black-magic-that-could-save-the-earth/>

Justus von Liebig and the Birth of Modern Biochar

Link: <https://www.ithaka-journal.net/en/ct/148-justus-von-liebig-and-the-birth-of-modern-biochar>

Last updated: February 2026

For speaking, consulting, or collaboration inquiries: Ms.Kelpie Wilson

[Wilson Biochar Associates](#)

Email: kelpiew@gmail.com

Mobile: 541-218-9890

Time zone: Pacific Time, USA