Table S1. Total organic carbon (TOC) contents of the investigated afforested and the arable soils along with the OC-based contents of vanillyl (V), syringly (S) and cinnamyl (C) units of lignin as determined by the CuO oxidation method and OC-based lignin contents as determined by spectrophotometric methods (ABSL). Stand labels: PJ = white poplar and common walnut; PJC = PJ intercropped with common hazel; PJA = PJ intercropped with Italian alder; PJE = PJ intercropped with autumn olive; AL = agricultural land. Values are mean and standard deviation of three samples. Superscript letters indicate significant differences within means in the column according to One-way ANOVA at $p \le 0.05$ and Tukey test.

Stands	тос	v	s	C	VSC	ABSL
	mg g ⁻¹	mg g ⁻¹ OC	mg g ⁻¹ OC	mg g ⁻¹ OC	mg g ⁻¹ OC	mg g ⁻¹ OC
AL	8.3 ± 0.24 °	6.3 ± 0.32 °	8.2 ± 0.42 $^{\circ}$	$2.87\pm0.12~^a$	$17.4\pm0.80~^{\text{b}}$	350.8 ± 53.64 b
РJ	$16.8 \pm 0.69~^{ab}$	$10.4\pm0.57~^{\rm a}$	$10.1\pm0.76~^{\rm a}$	$3.49\pm0.42~^a$	$24.0\pm1.44~^{\rm a}$	350.1 ± 39.19 b
PJC	17.1 ± 1.18 ab	$8.2\pm0.78~^{bc}$	$8.9 \pm 0.84~^{ab}$	$1.99\pm0.22^{\ b}$	19.1 ± 1.77 ^b	377.2 ± 36.46 b
РЈА	18.9 ± 1.23 ^a	$7.4\pm0.33~^{bc}$	$7.2\pm0.54~^{\rm b}$	$2.53\pm0.33~^{ab}$	17.1 ± 1.13^{b}	612.6 ± 48.06 a
РЈЕ	13.5 ± 0.72 b	$9.5 \pm 0.49 \text{ ab}$	$9.2 \pm 0.45~^{ab}$	$2.30\pm0.18~^{ab}$	$20.9 \pm 0.81~^{ab}$	448.6 ± 35.61 ab