Electronic Supplementary Material (ESI) for Analytical Methods.

Supplementary information

Table S1. Wood reference materials in this study.

Order	**Family**	**Species**	**Common name**
Fagales	Fagaceae	*Quercus robur*	Oak
	Fagaceae	*Quercus pyrenaica*	Oak bull
	Fagaceae	*Quercus petrae*	Sessile oak
	Fagaceae	*Castanea sativa*	Chestnut tree
	Fagaceae	*Fagus sylvatica*	Beech
	Juglandacea*e*	*Juglans regia*	Walnut tree
Rosales	Rosaceae	*Prunus avium*	Cherry tree
	Rosaceae	*Pyrus communis*	Pear tree
Urticales	Ulmaceae	*Ulmus glabra*	Scots elm
Sapindales	Sapindaceae	*Acer campestre*	Maple
Malpighiales	Salicaceae	*Populus nigra italica*	Black poplar
	Salicaceae	*Salix babylonica*	Weeping willow
Lamiales	Oleaceae	*Olea europea*	Olive tree
	Oleaceae	*Fraxiunus excelsior*	Ash
Pinales	Pinaceae	*Pinus sylvestris*	Scots pine
	Pinaceae	*Pinus halepensis*	Aleppo pine
	Pinaceae	*Cedrus libani*	Lebanon cedar
	Cupressaceae	*Juniperus sabina*	Savin juniper
	Cupressaceae	*Cupresus sempervivens*	Cypres
	Taxaceae	*Taxus baccata*	Yew
Buxales	Buxaceae	*Buxus smpervivens*	Box

Figure S1. a,b) CVs and c,d) their semi-derivative convolution, of microparticulate films deposited on GCE of ethanolic extracts of a,c) quercetin and b,d) *Olea europea* immersed into air-saturated 0.25 M aqueous acetate buffer, pH 4.75. Potential scan initiated at 0.0 V in the positive direction; potential scan rate 50 mV s^{-1}.

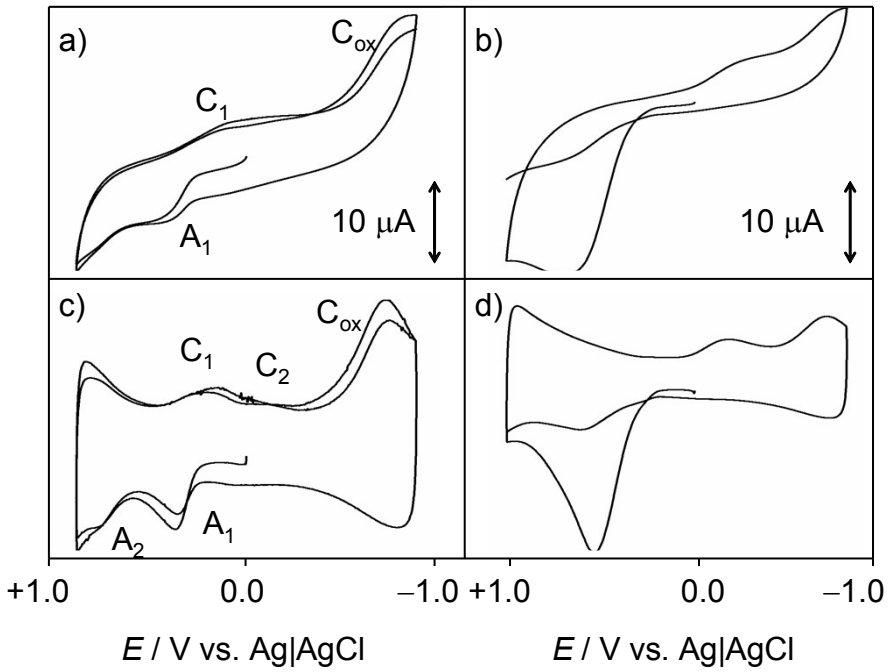

Figure S2. SWVs of microparticulate films deposited on GCE of a) ethanolic and b) acetone extracts of *Quercus robur* immersed into air-saturated 0.25 M aqueous acetate buffer, pH 4.75. Potential scan initiated at –0.85 V in the positive direction; potential step increment 4 mV; square wave amplitude 25 mV; frequency 5 Hz.

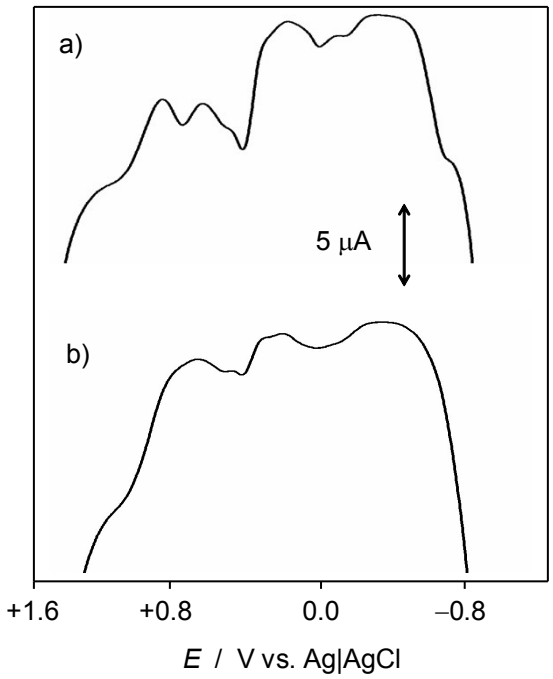

Table S2. Polyphenolic compounds identified in the ethanolic extracts of *Quercus robur*[a] and *Prunus avium*[b] from HPLC/MS data.

Compound[a]	Formula[a]	*M*(error)[a]	Compound[b]	Formula[b]	*M*(error)[b]
6-Geranylnaringenin	$C_{25}H_{28}O_5$	407.18(-0.1)	Trans-ferulic acid	$C_{10}H_{10}O_4$	193.05(0.1)
7-Hydroxyseco isolariciresinol	$C_{20}H_{26}O_7$	377.16(0.1)	Kaempferol 3-O-rhamnosoide	$C_{21}H_{20}O_{10}$	431.09(0.2)
Prodelphinidin dimer B3	$C_{30}H_{26}O_{13}$	593.13(-0.4)	Dihydroquercetin	$C_{15}H_{12}O_7$	303.05(0.2)
7,4 dihydroxyflavone	$C_{15}H_{10}O_4$	253.05(-1.1)	4-vinylphenol	C_8H_8O	119.05(-0.3)
Chrysisn	$C_{15}H_{10}O_4$	253.05(-1.1)	Engeletin	$C_{21}H_{22}O_{10}$	433.11(0.4)
Pirocembrim-7-methyleter	$C_{16}H_{14}O_4$	269.08(-1.6)	Nepetin	$C_{16}H_{12}O_7$	315.05(0.5)
5,4’ Dihydroxy-3,3’-dimethoxy-6:7-methylenedioxyflavone	$C_{18}H_{14}O_8$	357.06(-1.7)	Gardenin B	$C_{19}H_{18}O_7$	357.09(0.7)
6-Hydroxyluteolin	$C_{15}H_{10}O_7$	357.06(-1.7)	Eriodictyol	$C_{15}H_{12}O_6$	287.05(0.8)
4-ethylguaiacol	$C_9H_{12}O_2$	151.07(-1.9)	5,4’ Dihydroxy-3,3’-dimethoxy-6:7-methylenedioxyflavone	$C_{18}H_{14}O_8$	357.06(1)
Baicalein	$C_{15}H_{10}O_5$	269.04(-2)	Glycitin	$C_{22}H_{22}O_{10}$	445.11(1)
Trans-ferulic acid	$C_{10}H_{10}O_4$	193.05(-2.4)	Hesperetin	$C_{16}H_{14}O_6$	301.07(1.1)
Nepetin	$C_{16}H_{12}O_7$	315.05(-2.5)	Luteolin	$C_{15}H_{10}O_6$	285.04(1.2)
Kaempferol	$C_{15}H_{10}O_6$	285.04(-2.5)	Pinocembrin	$C_{15}H_{12}O_4$	255.06(1.2)
Dihydrocapsaicin	$C_{18}H_{29}NO_3$	306.2(-2.7)	4-Hydroxyphenyllactic	$C_9H_{10}O_4$	181.05(1.3)
Patuletin	$C_{16}H_{12}O_8$	331.04(-2.7)	Homovanilic acid	$C_9H_{10}O_4$	181.05(1.3)
Glycitin	$C_{22}H_{22}O_{10}$	445.11(-3.6)	Glycitein	$C_{16}H_{12}O_5$	283.06(1.4)
Carnosol	$C_{20}H_{26}O_4$	329.17(-3.8)	Dihydrocapsaicin	$C_{18}H_{29}NO_3$	306.2(1.6)
6-Hydroxyluteolin 7-O-rhamnoside	$C_{21}H_{20}O_{11}$	447.09(-4.7)	Spinacetin	$C_{17}H_{14}O_8$	345.06(-1.7)
Luteolin-8-C-glucoside	$C_{21}H_{20}O_{11}$	447.09(-4.7)	3,7-dimethylquercetin	$C_{17}H_{14}O_7$	329.06(1.8)
Luteolin-7-O-glucuronide	$C_{21}H_{18}O_{12}$	461,07(-5.4)	Butein	$C_{15}H_{12}O_5$	271.06(2)
[6]-Gingerol	$C_{17}H_{26}O_4$	461,07(-5.4)	Piceatannol	$C_{14}H_{12}O_4$	243.06(2.3)
			Sakuranetin	$C_{16}H1_4O_5$	285.07(2.4)
			Prodelphinidin dimer B3	$C_{30}H_{26}O_{13}$	593.13(2.5)
			Chysoeriol	$C_{16}H_{12}O_6$	299.05(3.1)
			7, 3’,4’-Trihydroxyflavor	$C_{15}H_{10}O_5$	269.04(3.1)

			6-Geranylnaringenin	$C_{25}H_{28}O_5$	407.18(3.2)
			Cirsimaritin	$C_{17}H_{14}O_6$	313.07(3.3)
			Phloridzin	$C_{21}H_{24}O_{10}$	435.12(3.4)
			Avenanthramide 1p	$C_{16}H_{13}NO_4$	282.07(-5.5)