Control						
Model	Temp. (°C)	Constants	<b>R</b> <sup>2</sup>	$\chi^2$	RMSE	
Henderson and Pabis	40	k = 0.002232, a = 4.313	0.9913	0.0611	0.1250	
	50	k = 0.003578, a = 4.964	0.9928	0.0580	0.1331	
	60	k = 0.004915, a = 5.958	0.9995	0.0190	0.0438	
Logarithmic	40	a = 4.07, c = 0.3989, k = 0.002959	0.9983	0.0464	0.0558	
	50	a = 5.449, c = -0.5924, k = 0.002805	0.9962	0.0473	0.0977	
	60	a = 6.032, c = -0.1061, k = 0.0048	0.9996	0.0335	0.0366	
Two-term	40	a = 1.61, b = 2.992, k0 = 0.0068, k1 = 0.0016	0.9997	0.0349	0.0232	
	50	a = -1.992, b = 6.662, k0 = 0.01093, k1 = 0.00443	0.9986	0.0263	0.0597	
	60	a = 18.27, b = -12.36, k0 = 0.0059, k1 = 0.0065	0.9997	0.0232	0.0349	
Verma	40	a = 4.273, g = 21.1, k = 0.002205	0.8422	0.3145	0.5396	
	50	a = -4.099, g = 0.003707, k = 0.23	0.8026	0.4720	0.7071	
	60	a = -4.982, g = 0.004941, k = 0.473	0.7408	0.5421	0.9829	
Wang and Singh	40	M0 = 4.171, a = -0.007404, b = 0.001934	0.9841	0.0712	0.1712	
	50	M0 = 4.788, a = -0.0132, b = 0.003161	0.9985	0.0420	0.0611	
	60	M0 = 5.684, a = -0.02103, b = 0.004599	0.9967	0.0342	0.1105	
Midilli	40	a = 4.668, b = 0.0001045, k = 0.007162, n = 0.8326	0.9998	0.0211	0.0213	
	50	a = 4.651, b = 0.0001678, k = 0.0007363, n = 1.272	0.9987	0.0914	0.0582	
	60	a = 5.89, b = -1e-05, k = 0.00405, n = 1.033	0.9917	0.0324	0.0360	
Modified Henderson and Pabis	40	a = 0.2069, b = 7.159e-08, c = 4.331, g = 10.18, h = 0.002244, k = 0.1508	0.9991	0.0128	0.0227	
	50	a = 0.417, b = 4.964, c = 1.257, g = 0.003578, h = 3.311, k = 4.112	0.9998	0.0101	0.0176	
	60	a = 0.4722, b = 4.259, c = 1.517, g = 0.004707, h = 0.004711, k = 11.67	0.9997	0.0137	0.0147	

 Table S1. Statistical results and coefficients of models of mushrooms under different drying conditions.

UV-B treated samples for 30 min							
Model	Temp. (°C)	Constants	R <sup>2</sup>	$\chi^2$	RMSE		
	40	k = 0.002698, a = 4.938	0.9901	0.0745	0.1475		
Henderson and Pabis	50	k = 0.003831, a = 5.034	0.994	0.0406	0.1167		
	60	k = 0.00528, a = 5.93	0.9908	0.0647	0.1711		
	40	a = 6.43, c = -1.656, k = 0.001591	0.9982	0.0398	0.0631		
Logarithmic	50	a = 5.796, c = -0.8896, k = 0.0028	0.9985	0.0877	0.0604		
	60	a = 6.776, c = -1.007, k = 0.003853	0.9965	0.0519	0.1077		
	40	a = -34.1.61, b = 41.057,	0 9878	0.0720	0 0841		
	40	k0 = 0.0097, kl = 0.0061,	0.7070	0.0720	0.0041		
Two-torm	50	a = -39.15, b = 43.98,	0 9986	0.0774	0.0580		
i wo-term	50	k_0 = 0.0064, kl = 0.0057	0.7700				
	60	a = -32.5, b = 38.11, k0 = 0.009506, kl = 0.008545	0.9987	0.0866	0.0675		
	40	a = 4.95, g = 9.161, k = 0.002707	0.7714	0.4132	0.7204		
Verma	50	a = -4.086, g = 0.003887, k = 0.3075	0.7179	0.5771	0.8183		
	60	a = -5.121, g = 0.0054, k = 0.2483	0.6899	0.6953	1.0401		
	40	M0 = 4.74, a = -0.0094, b = 0.0021	0.9982	0.0874	0.0634		
Wang and Singh	50	M0 = 4.856, a = -0.0144, b = 0.0034	0.9993	0.0395	0.0405		
	60	M0 = 5.723, a = -0.0233, b = 0.0051	0.9986	0.0727	0.0699		
	40	a = 4.661, b = -1e-05, k = 0.0006231, n = 1.235	0.9955	0.3036	0.1006		
Midilli	50	a = 4.409, b = -0.008301, k = 2.948, n = -8.948	0.9376	0.0971	0.1472		
	60	a = 5.023, b = -0.01201, k = 2.817, n = -9.467	0.9562	0.0872	0.1532		
	40	a = -5.185, b = 9.846, c = 0.1977					
		g = 0.003771, h = 2.767,	0.9991	0.0282	0.0396		
		k = 0.005849					
Modified Henderson and	50	a = -16, b = 5.047, c = 15.92, g =	0 9994	0.0157	0.0264		
Pabis		0.003846, h = 1.963,k = 19.27	0.2224	0.0157	0.0204		
	60	a = 5.935, b = 1.888, c = 2.128, g = 0.7046, h = 10.78, k = 0.005234	0.9992	0.0220	0.0298		

 Table S1. (Continued) Statistical results and coefficients of models of mushrooms under different drying conditions.

UV-B treated samples for 60 min						
Model	Temp. (°C)	Constants	R <sup>2</sup>	$\chi^2$	RMSE	
Henderson and Pabis	40	k = 0.002458, a =3.583	0.9882	0.0701	0.1111	
	50	k = 0.004536, a = 5.531	0.995	0.0953	0.1201	
	60	k = 0.00518, a = 4.694	0.9861	0.0762	0.1622	
Logarithmic	40	a= 5.356, c = -1.898, k = 0.001216	0.9977	0.0632	0.0502	
	50	a = 5.964, c = -0.5355, k = 0.003719	0.9975	0.0761	0.0874	
	60	a = 5.948, c = -1.42, k = 0.003185	0.9963	0.0771	0.0861	
Two-term	40	a = 47.47, b = -44.04, k0 = 0.004045, kl = 0.004243	0.9944	0.0976	0.0793	
	50	a = 10.12, b = -4.819, k0 = 0.006055, kl = 0.009356	0.999	0.0884	0.0557	
	60	a = 7.04, b = -0.5704, k0 = 0.006336, kl = 2.213	0.9944	0.0940	0.1686	
Verma	40	a = 3.596, g = 10.14, k = 0.002471	0.7888	0.245	0.4775	
	50	a = -4.635, g = 0.0046, k = 0.2789	0.7172	0.3715	0.9217	
	60	a = 7.041, g = 3.033, k = 0.006336	0.6837	0.0890	1.2342	
	40	M0 = 3.442, a = -0.0062, b = 0.0016	0.9974	0.0400	0.0525	
Wang and Singh	50	M0 = 5.345, a = -0.0191, b = 0.0043	0.9996	0.0153	0.0325	
	60	M0 = 6.627, a = -0.0315, b = 0.0064	0.9988	0.0616	0.0763	
Midilli	40	a = 3.286, b = -0.0045, k = 3.75, n = -8.396	0.5978	0.1752	0.6706	
	50	a = 4.705, b = -0.009778, k = 6.602, n = -13.88	0.5314	0.7121	1.2132	
	60	a = 5.67, b = -0.01502, k = 1.023e+04, n = -44.56	0.4981	0.5722	1.5950	
Modified Henderson and Pabis	40	a = 3.596, b = 9.925, c = -10.02, g = 3.261, h = 4.913, k = 0.002471	0.9994	0.0321	0.0418	
	50	a = 2.451e-08, b = 5.531, c = 2.584, g = 0.004536, h = 0.3869, k = 4.997	0.9995	0.0245	0.0218	
	60	a = 7.68, b = 6.894, c = 2.71, g = 0.006153, h = 1.199, k = 1.219	0.9991	0.0138	0.0203	

 Table S1. (Continued) Statistical results and coefficients of models of mushrooms under different drying conditions.

UV-B treated samples for 90 min						
Model	Temp.(°C)	Constants	<b>R</b> <sup>2</sup>	$\chi^2$	RMSE	
Henderson and Pabis	40	k = 0.003313, a = 4.355	0.9902	0.0913	0.1296	
	50	k = 0.004781, a = 4.718	0.9938	0.0793	0.1106	
	60	k = 0.006477, a = 5.252	0.9874	0.0938	0.1768	
	40	a = 0.782, c = 1.278, k = 0.002002	0.9597	0.0417	0.0974	
Logarithmic	50	a = 5.231, c = -0.614, k = 0.003729	0.9972	0.0422	0.0762	
	60	a = 5.867, c = -0.7453, k = 0.004942	0.9928	0.0594	0.1373	
	40	a = 39.17, b = -35.06,	0.0002	0.0472	0.0561	
	40	k0 = 0.005508, k1 = 0.005952	0.9903	0.0473	0.0561	
Two term	50	a = 39.55, b = -35.02,	0.0085	0.0357	0.0573	
I wo-term	50	k0 = 0.007445, k1 = 0.007986	0.9965			
	60	a = 37.077, b = -32.195,	0.0072	0.0743	0.0865	
	60	k0 = 0.008298, k1 = 0.02223	0.9973			
Verma	40	a = 4.455, g = 0.2495, k = 0.00342	0.7817	0.2481	0.6222	
	50	a = -3.742, g = 0.004816, k = 20	0.6912	0.3912	0.7999	
	60	a = 5.38, g = 10.89, k = 0.006701	0.6673	0.5713	0.9346	
	40	M0 = 4.199, a = -0.01062,	0.9983	0.0673	0.0541	
		b = 0.002682		0.0075	0.0341	
Wang and Singh	50	M0 = 4.565, a = -0.01728,	0.9992	0.0243	0.0398	
Wang and Singh		b = 0.004275				
	60	M0 = 5.064, a = -0.02561,	0.9959	0 0982	0 1035	
		b = 0.005941		0.0902	0.1055	
	40	a = 3.885, b = -0.006528,	0.6059	0 2351	0.8525	
		k = 4.866, n = -27.58		0.2001	0.0020	
Midilli	50	a = 4.062, b = -0.009288,	0.4685	0 0976	1 0753	
Witdilli		k = 8.109, n = -10.35		0.0770	1.0700	
	60	a = 4.111, b = -0.01256, k = 0.07225,	0.4329	1 0624	1 2110	
		n = -8.142		1.0021	1.2110	
	40	a = 0.03427, b = 4.317, c = 0.002789,	0 9996	0 0141	0.0443	
Modified Henderson and Pabis	10	g = 0.003267, h = 0.6401, k = 0.5542	0.7770	0.0111	0.0110	
	50	a = 1.238, b = 9.183, c = 4.718,	0.9998	0.0237	0.0316	
	00	g = 9.991, h = 0.004781, k = 0.5382		0.0207	0.0010	
		a = 2.972, b = 6.213, c = -4.534,				
	60	g = 0.008611, h = 0.04144, k =	0.9991	0.0181	0.0497	
		0.05117				

 Table S1. (Continued) Statistical results and coefficients of models of mushrooms under different drying conditions.