

Table captions

Table 1. Performance of BP-ANN model.

Table 2. Performance comparison of PLS and BP-ANN models.

Table 1. Performance of BP-ANN model

Index	Training		Validation		Testing	
	MSE	R ²	MSE	R ²	MSE	R ²
TPC	0.539	0.980	0.639	0.977	0.753	0.965
TGP	0.302	0.982	0.429	0.977	0.616	0.968
THP	0.121	0.991	0.249	0.985	0.449	0.972
OTG	0.252	0.915	0.077	0.955	0.381	0.863
AV	0.133	0.957	0.107	0.945	0.142	0.940
PV	0.287	0.969	0.604	0.930	0.303	0.966

MSE: Mean Square Error, R²: coefficient of determination

Table 2. Performance comparison of PLS and BP-ANN models

Index	Model	R ²	RMSEC	RMSEP
TPC	PLS	0.910	1.144	1.257
	BP-ANN	0.977	0.614	0.550
TGP	PLS	0.913	1.132	0.965
	BP-ANN	0.979	0.344	0.310
THP	PLS	0.896	0.877	0.713
	BP-ANN	0.987	0.184	0.124
OTG	PLS	0.876	0.689	0.633
	BP-ANN	0.926	0.281	0.264
AV	PLS	0.917	0.422	0.418
	BP-ANN	0.955	0.134	0.130
PV	PLS	0.920	0.625	0.547
	BP-ANN	0.963	0.293	0.288

R²: coefficient of determination; RMSEC: root mean square error of calibration;
RMSEP: root mean square error of prediction