

Preparation of sulfur-doped porous carbon from polyphenylene sulfide waste for photothermal conversion materials to achieve solar-driven water evaporation

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Peak Analysis

Data set: [Book2]Sheet1!B

Date:2024/12/25

Base Line: Constant

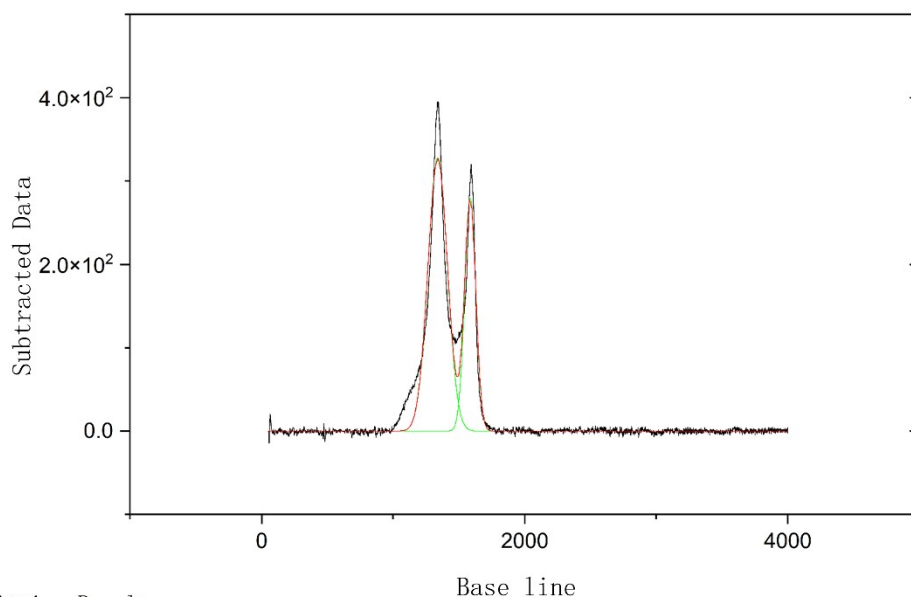
Ch² =1.57732E+02

Adj. R-Square=9.63642E-01

of Data Points =2746

SS=4.32184E+05

Degree of Freedom =2740



Fitting Results

Peak Index	Peak Type	Area Int g	FWHM	Max Height	Center Gr v ty	Area Int g p
1	Gaussian	60649.60147	173.95299	327.53963	1338.76983	67.1277
2	Gaussian	29699.98313	99.9096	279.26518	1585.71671	32.8723

Figure S1. Basic data information of the fitted peaks.

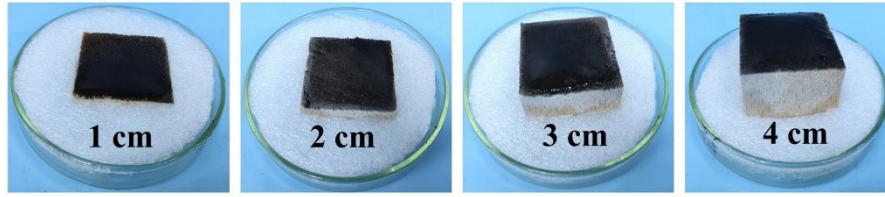


Figure S2. Digital images of 1 cm 、 2 cm 、 3 cm 、 4 cm CP-Wood evaporators during solar photothermal seawater evaporation under 1 sun radiation.

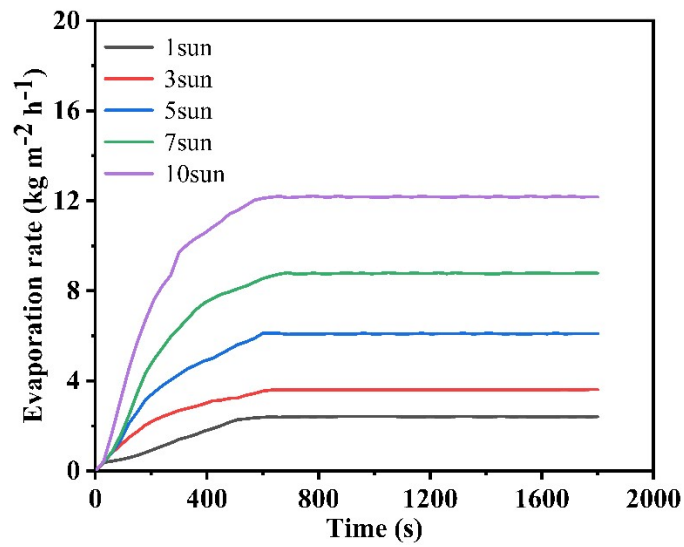


Fig S3. Evaporation rates of the KCP-Wood evaporator at different irradiation intensities.

Table S1.: Evaporation rates of the KCP-Wood evaporator at different irradiation intensities.

Time (s)	Evaporation rate (kg m ⁻² h ⁻¹)				
0	0	0	0	0	0
30	0.381	0.391	0.401	0.407	0.431
60	0.433	0.811	0.821	0.851	1.702
90	0.501	1.132	1.334	1.554	3.112
120	0.581	1.485	2.101	2.453	4.515
150	0.693	1.741	2.607	3.454	5.706
180	0.822	2.041	3.167	4.352	6.711
210	0.963	2.244	3.484	4.952	7.606
240	1.101	2.412	3.783	5.451	8.210
270	1.241	2.544	4.043	5.956	8.684
300	1.401	2.691	4.285	6.351	9.704

330	1.503	2.781	4.533	6.754	10.055
360	1.621	2.872	4.708	7.151	10.335
390	1.771	2.984	4.882	7.453	10.543
420	1.881	3.112	5.001	7.655	10.826
450	2.011	3.142	5.201	7.842	11.083
480	2.163	3.223	5.403	7.953	11.410
510	2.281	3.240	5.611	8.093	11.573
540	2.314	3.360	5.732	8.209	11.796
570	2.361	3.441	5.891	8.380	12.024
600	2.381	3.550	6.111	8.543	12.112
630	2.403	3.591	6.110	8.653	12.162
660	2.391	3.610	6.111	8.746	12.204
690	2.401	3.612	6.067	8.807	12.133
720	2.411	3.601	6.076	8.736	12.168
750	2.415	3.606	6.076	8.752	12.181
780	2.410	3.608	6.081	8.791	12.210
810	2.415	3.601	6.083	8.761	12.171
840	2.413	3.604	6.101	8.763	12.154
870	2.415	3.592	6.085	8.774	12.213
900	2.416	3.610	6.090	8.801	12.163
930	2.414	3.611	6.081	8.772	12.172
960	2.416	3.593	6.120	8.786	12.179
990	2.415	3.612	6.092	8.763	12.167
1020	2.414	3.613	6.089	8.770	12.151
1050	2.415	3.612	6.105	8.808	12.169
1080	2.414	3.604	6.092	8.776	12.200
1110	2.413	3.601	6.089	8.765	12.173
1140	2.413	3.611	6.096	8.787	12.167
1170	2.412	3.601	6.114	8.770	12.201
1200	2.414	3.610	6.091	8.769	12.173
1230	2.413	3.599	6.095	8.805	12.174
1260	2.413	3.603	6.093	8.762	12.154
1290	2.414	3.602	6.101	8.807	12.160
1320	2.415	3.611	6.110	8.770	12.201
1350	2.415	3.612	6.092	8.772	12.173
1380	2.413	3.604	6.095	8.769	12.187
1410	2.413	3.601	6.115	8.763	12.157
1440	2.415	3.604	6.093	8.746	12.205
1470	2.414	3.606	6.088	8.799	12.171
1500	2.413	3.610	6.093	8.773	12.164
1530	2.414	3.608	6.085	8.764	12.173
1560	2.412	3.611	6.090	8.797	12.211
1590	2.412	3.608	6.109	8.781	12.172

1620	2.413	3.611	6.092	8.785	12.169
1650	2.412	3.613	6.119	8.765	12.202
1680	2.414	3.615	6.091	8.773	12.175
1710	2.413	3.613	6.095	8.768	12.193
1740	2.414	3.612	6.095	8.801	12.170
1770	2.413	3.615	6.098	8.778	12.173
1800	2.415	3.615	6.098	8.777	12.173