

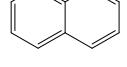
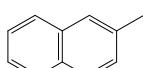
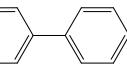
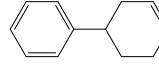
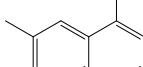
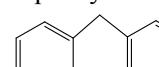
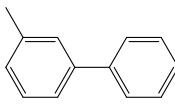
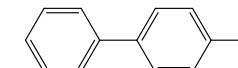
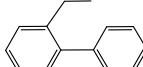
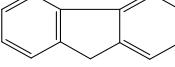
Supporting Information

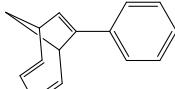
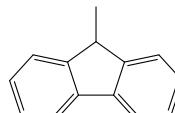
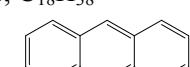
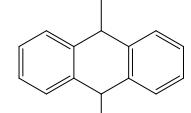
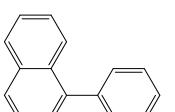
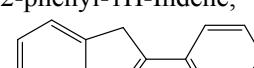
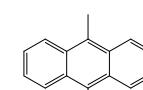
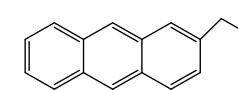
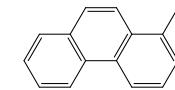
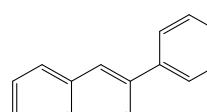
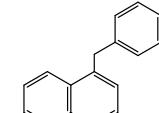
Pressurized carbonization of mixed plastics into porous carbon sheets on magnesium oxide

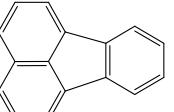
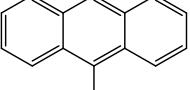
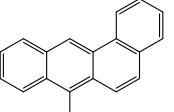
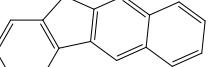
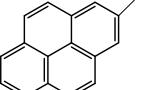
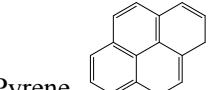
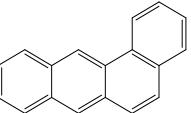
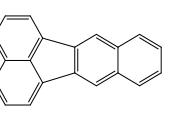
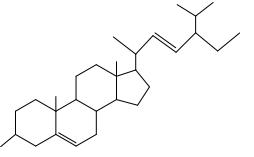
Jiali Ma,^{a,b} Jie Liu,^{b,*} Jiangfeng Song,^{a,*} Tao Tang^{b,*}

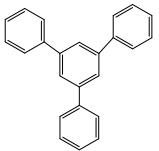
Table S1. Compounds of the liquid products from carbonization of the mixed plastics and MgO at 500 °C in relation to reaction time.

Elution time (min)	Substance	Portion of the total chromatographic peak area (%)			
		0 min	30 min	60min	90 min
2.012	Benzene,	0	2.221	0	0
2.883	Toluene,	0	6.583	0	0
4.346	Ethylbenzene,	0	5.259	0	0
4.477	1,3-Dimethylbenzene,	0	4.754	0	0
4.877	Styrene,	0	2.511	0	0
6.196	1-Ethyl-3methylbenzene,	0	0.941	0	0
6.314	1, 2, 4-Trimethylbenzene,	0	0.664	0	0
6.570	Methylstyrene,	0	0.762	0	0
6.687	1-Decene, C ₁₀ H ₂₀	0	0.171	0	0
8.457	Undecene, C ₁₁ H ₂₂	4.451	0	0	0
8.587	Undecane, C ₁₁ H ₂₄	0.144	0	0	0
8.611	Indene	0	0.681	0.308	0
9.493	3-Methylindene,	0.641	0	0.908	0

9.937	Decadiene, C ₁₀ H ₁₈		0.201	0	0	0
10.094	Naphthalene, 		3.607	16.763	17.6	0
11.430	Tridecadiene, C ₁₃ H ₂₄		1.377	0.045	0.056	0
11.539	1-Tridecene, C ₁₃ H ₂₆		2.493	0.271	0.473	0.252
11.653	Tridecene, C ₁₃ H ₂₈		1.169	0.114	0.212	0.146
11.731	2-Methyl-naphthalene, 		4.635	6.403	9.776	1.867
11.87	1-Tetradecene, C ₁₄ H ₂₈		4.284	0	0	0
12.898	Biphenyl, 		0	7.246	10	0
	3-Cyclohexen-1-yl-benzene					
12.922			0.24	0	0	9.449
13.011	Tetradecane, C ₁₄ H ₃₀		1.543	0	0.445	0
13.438	1,7-Dimethylnaphthalene, 		0.719	1.99	2.432	0.834
	Biphenylmethane, 					
13.586			0.535	0	0.839	0.933
13.819	1-Hexadecene, C ₁₆ H ₃₂		3.222	0	0.541	0
14.187	1-Pentadecene, C ₁₅ H ₃₀		2.566	0.445	0.538	0
14.257			0.205	0.686	2.499	4.852
	3-methyl-1,1'-Biphenyl					
	4-methyl-1,1'-Biphenyl, 					
14.265			0	2.234	1.445	0
14.283	10-Methyl-eicosane, C ₂₁ H ₄₄		1.448	0	0	0
14.829	2,6,10-trimethyl-Tetradecane, C ₁₇ H ₃₆		1.584	0.847	0.416	0.217
14.977	1-Heptadecene, C ₁₇ H ₃₄		3.08	0.575	0.576	0.897
15.310	1,9-Tetradecadiene, C ₁₄ H ₂₆		0.55	0	0	0
15.345	2-Ethyl-1,1'-Biphenyl, 		0	0.263	0.28	1.236
15.476	Hexadecane, C ₁₆ H ₃₄		1.738	0.417	0	0.194
15.510	Fluorene, 		0.801	1.447	3.092	4.24
16.074	1-Octadecene, C ₁₈ H ₃₆		0	0.433	0	0.413
16.268	7-phenyl-Bicyclo[4.2.1]nona-2,4,7-		2.592	0.622	0.239	0

		triene,				
16.817		9-methyl-9H-Fluorene, C ₁₇ H ₁₆	0	1.473	1.764	1.236
17.688	Octadecane, C ₁₈ H ₃₈		1.211	0.47	0.31	0
17.766		Anthracene, C ₁₄ H ₁₀	1.759	4.665	7.034	15.721
17.879		9,10-dihydro-9,10-dimethyl-Anthracene, C ₁₆ H ₁₆	0.831	1.272	0	0
18.533		1-phenyl-Naphthalene, C ₁₃ H ₁₂	0.949	2.268	2.236	4.41
18.611		2-phenyl-1H-Indene, C ₁₃ H ₁₂	1.492	0	0.901	0.928
18.646	1-Nonadecene, C ₁₉ H ₃₈		5.428	2.341	1.203	0
18.707	Nonadacene, C ₁₉ H ₄₀		1.415	0	0	0.197
18.950		1,3-Diphenyl-3-methylcyclopropene, C ₁₅ H ₁₆	0.928	0	0	0
18.959		1-Eicosene, C ₂₀ H ₄₀	0	0.932	0.94	0.475
19.203		1-Phenylnaphthalene, C ₁₄ H ₁₂	0.458	0.731	0.582	0.91
19.630	1-Eicosene, C ₂₀ H ₄₀		1.422	0.609	0.352	0
19.691		2-Phenylnaphthalene, C ₁₄ H ₁₂	4.139	5.506	5.794	15.884
19.874		1-Docosene, C ₂₂ H ₄₄	1.081	0.495	1.383	0.648
20.57	1-Docosene, C ₂₂ H ₄₄		3.365	1.315	0.507	0

20.588	 Fluoranthene,	0	0	1.365	0
20.614	Tricosane, C ₂₃ H ₄₈	1.524	0	0	0.822
20.657	Hexacosene, C ₂₆ H ₅₂	0.667	0.381	0	0
20.794		0	1.026	0.933	1.483
21.284		0.313	0.631	0.151	0.49
21.311		0	0	0.705	0
21.511	Octacosane, C ₂₈ H ₅₆	1.401	0	0	3.317
21.964		0	0	1.531	1.967
21.972		0.419	0	0.436	1.276
22.376	Heptacosane, C ₂₇ H ₅₆	13.321	4.725	4.697	0
22.329	Tricosene, C ₂₃ H ₄₆	1.773	0.451	0.538	0
23.157	C ₂₄ H ₄₉ OH	1.997	0	0	0
23.621	 Pyrene,	0.752	1.103	2.839	6.442
23.949	Pentacosene, C ₂₅ H ₅₀	1.379	0	0	6.346
24.080	 Benzanthracene,	0	0	2.953	0
24.716	1-Heptacosene, C ₂₇ H ₅₄	1.417	0	0	0
26.370	C ₃₅ H ₇₀	5.367	2.835	3.742	0
27.372	C ₄₄ H ₉₀	2.839	0.408	0	0.809
27.381	 Benzofluoranthene,	0	0.262	1.921	0
27.413		0	0	0	15.447

28.121		0	0.19	0.335	0
<u>1,3,5-Triphenylbenzene,</u>					
