

Supplementary Materials:

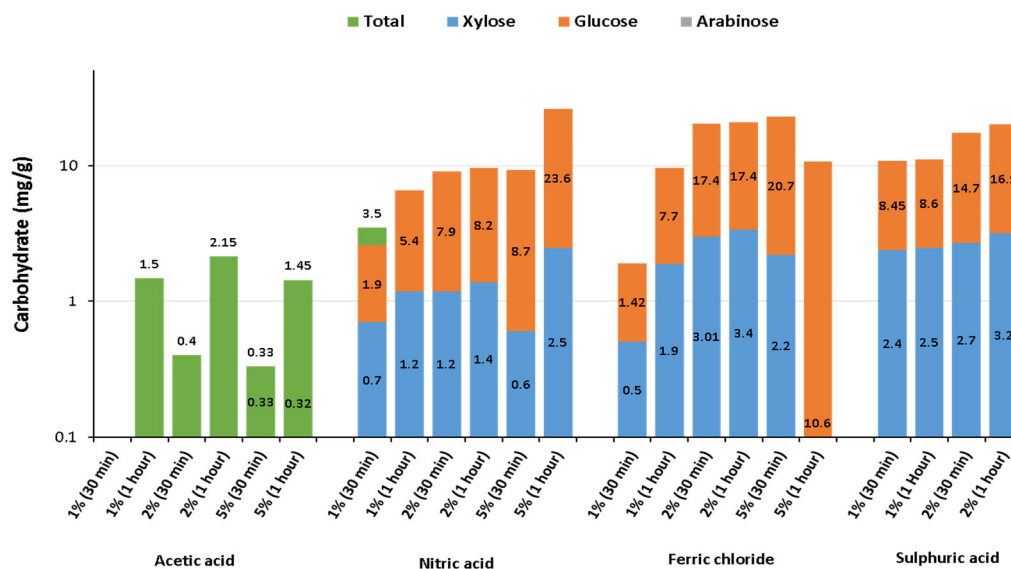


Figure S1. Carbohydrate (mg/g) in the different hydrolysates of pure cellulose powder. *Number in the figure shows the concentration (mg/g) of individual components (legend). Number on the top of each column shows the total carbohydrate content.*

Table S1. COD and TOC data obtained from various hydrolysis procedures for algae

	Acetic acid						HNO ₃						FeCl ₃						H ₂ SO ₄	
parameters	1%	2%	5%	1%	2%	5%	1%	2%	5%	1%	2%	5%	1%	2%	5%	1%	2%	5%	1%	2%
(m/g)	30	1	30	1	30	1	30	1	30	1	30	1	30	1	30	1	30	1	30	1
	mi	h	mi	h	mi	h	mi	h	mi	h	mi	h	mi	h	mi	h	mi	h	mi	h
	n	r	n	r	n	r	n	r	n	r	n	r	n	r	n	r	n	r	n	r
COD	29	2	30	2	83	10	13	1	13	12	67	6	16	1	15	1	29	2	9.	1
	±	5	±	7	±	6	±	2	±	±	±	4	±	6	±	3	±	9	0	7
	17	±	22	±	30	±	7	±	11	2	33	±	3	±	2	±	18	±	±	±
		1		1		38		4				2		2		5		1	0.	5
		8		5								8						4	2	
TOC	32	2	35	2	50	40	9	8.	6	7.	48	4	10	1	13	9.	17	1	11	7
	±	4	±	9	.0	±	±	0	±	00	±	5	±	2	±	2	±	6	±	±
	6	±	16	±	±	1	2	±	4	±	10	±	3	±	6	±	5	±	3	2
		4		7	0.			0.		0.		9		1		3		1		
					5			2		02								0		

Table S2. Characteristics of hydrolysate prepared from algae using various hydrolysing agents

	Acetic acid				Fe(NO ₃) ₃				NH ₄ Cl					
Parameters	10%		1%		2%		5%		1%		2%		5%	
(mg/g)	30 min	1 hr	30 min	1 hr	30 min	1 hr	30 min	1 hr	30 min	1 hr	30 min	1 hr	30 min	1 hr
COD	--	--	14	16.2	18.7	18.8	13.6	11.2	16	16	15	13	29	29
									±3	±2	±2	±5	±18	±14
TOC	66.8	76.7	5.58	8.55	7.52	5.92	2.02	4.51	0	0	0	0	0	0
Carbohydrates	15 ± 7	29 ± 15	0.31	0.25	0.2	0.4	0.4	0	2.7	1.9	3.3	2	1.8	1.8
NO ₃	0.82	0.84												
PO ₄	0.37	0.26												
Glucose	0	0	0	0.099		0.031								