

Priloga V: Primeri naprednih metod odstranjevanja BPA in analogov

BP	Začetna koncentracija	Pogoji	UV	O ₃	H ₂ O ₂	Fentonova reakcija	Ultrazvok [kHz]	Dodatek	Odstranitev [%]	Vir
BPA	44 μM	T = 20 ± 2 °C V = 500 mL t = 60 min			20 mM		35		47	(50)
BPA	4,4 μM	T = 30 ± 1 °C t = 60 min			0,1 mM		800		100	(51)
BPA	9 μM	pH = 11 t = 150 min			0,9 mM		130		98,65	(52)
BPA	200 μM	pH = 3 V = 80 mL T = 20 °C t = 60 min			15 mM	1 g/L	20		98,0	(53)
BPA	220 μM	pH = 5 V = 450 mL T = 29 ± 3 °C t = 300 min	40 W 276 nm		11,76 mM				95	(54)
BPA	0,1 μM	T = 20 °C t = 120 min			1,5 mg/L				100	(55)
BPA BPAF BPS	5 μM	T = 25 ± 1 °C t = 150 min pH = 5						[MnO ₂] =100 μM	100 65 15	(56)

BPA BPAF BPS								[MnO ₂] =100 μM [HOI] =15 μM	100 90 70	
BPAF BPS	5 μM	T = 25 ± 1 °C t = 90 min pH = 7						[MnO ₂] =100 μM [HOI] =15 μM	100 100	(57)
BPF BPS BPZ	0,001 μM in 25 μM	V = 760 mL T = 23 °C t = 120 min	6 W 254 nm						50 85 60	(58)
BPF BPS BPZ	0,0008 μM in 20 μM			[β-CD] : [BP] = 1:1	55 95 90					
BPF BPS BPZ	0,0007 μM in 18,6 μM			[Fe] : [H ₂ O ₂] : [BP] = 0,01:10:1	100 100 100					
BPA BPAF BPF	0,438 μM	V = 250 mL T = 20 °C t = 4 h	150 W 365 nm						14 11 20	(59)
BPA BPAF BPF			150 W 365 nm	[TiO ₂] = 0,3 M	100 100 100					