

Fig. 5. Percentage reduction in the TOC and COD ($\alpha = 0.05$; $df = 33$).

concentration is the main factor affecting the efficiency of the landfill leachate decontamination process. Given that the best results in the TOC elimination were obtained at the weight ratio of 0.125, this particular relation was adopted for the subsequent stages of the study (Fig. 4).

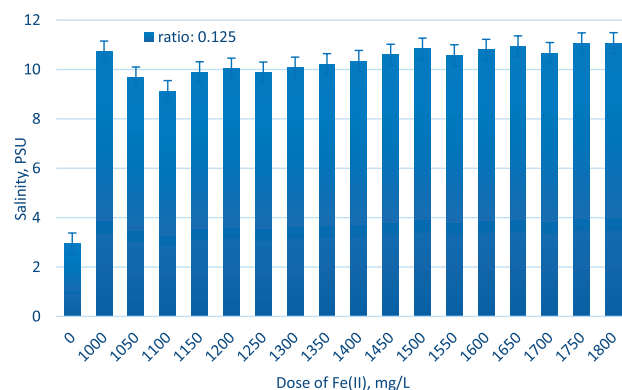


Fig. 6. Dependence of the solution salinity on the Fe(II) dose function ($\alpha = 0.05$; $df = 16$).

Then, the susceptibility of landfill leachate to oxidation by the Fenton's method using hydrogen peroxide at the set pH of 4.0, the catalyst/oxidant

Table 1. Heavy metal content (mg/L) of leachate samples before and after the Fenton process.

Sample	HMs	Cd	Cu	Cr	Ni	Pb	Fe	Zn
Raw	Mean	0.000	0.139	0.094	0.067	0.011	24.49	0.767
	Min	0.000	0.102	0.089	0.066	0.006	24.11	0.691
	Max	0.002	0.144	0.099	0.068	0.015	24.53	0.771
	Median	0.000	0.138	0.094	0.066	0.009	24.51	0.766
1000	Mean	0.000	0.000	0.020	0.069	0.001	0.356	0.723
	Min	0.000	0.000	0.016	0.049	0.000	0.351	0.693
	Max	0.000	0.000	0.027	0.081	0.007	0.357	0.762
	Median	0.000	0.000	0.020	0.071	0.000	0.355	0.720
1150	Mean	0.000	0.039	0.068	0.126	0.002	8.129	0.735
	Min	0.000	0.033	0.030	0.071	0.000	8.111	0.706
	Max	0.000	0.052	0.102	0.161	0.007	8.133	0.762
	Median	0.000	0.037	0.066	0.129	0.001	8.131	0.737
1300	Mean	0.002	0.203	0.040	0.055	0.060	12.23	0.871
	Min	0.001	0.069	0.025	0.043	0.051	12.12	0.870
	Max	0.003	0.369	0.072	0.063	0.064	12.30	0.873
	Median	0.002	0.185	0.034	0.059	0.060	12.23	0.872
1550	Mean	0.002	0.018	0.030	0.038	0.035	15.26	0.381
	Min	0.000	0.000	0.019	0.035	0.009	15.17	0.379
	Max	0.004	0.072	0.038	0.041	0.048	15.31	0.383
	Median	0.000	0.000	0.029	0.039	0.038	15.26	0.381
1800 mgFe/L	Mean	0.001	0.199	0.064	0.056	0.064	7.982	0.231
	Min	0.000	0.180	0.023	0.036	0.058	7.911	0.229
	Max	0.002	0.250	0.246	0.091	0.070	8.002	0.232
	Median	0.001	0.191	0.030	0.041	0.064	7.980	0.231

