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SUPPLEMENTARY MATERIAL TO

**In-house-prepared carbon-based Fe-doped catalysts for
electro-Fenton degradation of azo dyes**

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TABLE S-I. RB52 degradation rate for 70-0 electrodes (70 μm granulation and 0 % of Fe) with different amounts H₂O₂

τ, / min	c(H ₂ O ₂)			
	0 mmol dm ⁻³	1 mmol dm ⁻³	5 mmol dm ⁻³	10 mmol dm ⁻³
0	0.00	0.00	0.00	0.00
10	11.16	38.20	40.10	40.00
20	21.31	61.80	63.90	62.20
30	29.47	75.90	77.70	74.80
40	37.15	85.60	88.40	84.90
50	43.82	92.50	94.10	90.80

TABLE S-II. RB52 degradation rate for 125-0 electrodes (125 μm granulation and 0 % of Fe) with different amounts H₂O₂

τ, / min	c(H ₂ O ₂)			
	0 mmol dm ⁻³	1 mmol dm ⁻³	5 mmol dm ⁻³	10 mmol dm ⁻³
0	0.00	0.00	0.00	0.00
10	20.37	31.62	33.80	32.40
20	34.03	54.41	57.40	56.20
30	44.10	69.95	73.30	71.21
40	53.30	79.94	83.40	81.70
50	61.10	86.62	89.39	89.20

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TABLE S-III. RB52 degradation rate for 205-0 electrodes (205 μm granulation and 0 % of Fe) with different amounts H_2O_2

τ_r , / min	$c(\text{H}_2\text{O}_2)$			
	0 mmol dm^{-3}	1 mmol dm^{-3}	5 mmol dm^{-3}	10 mmol dm^{-3}
0	0.00	0.00	0.00	0.00
10	17.26	24.50	31.50	30.55
20	31.35	44.80	54.50	52.55
30	41.64	60.40	71.82	70.09
40	51.37	73.30	83.84	81.46
50	59.79	82.80	92.00	88.23

TABLE S-IV. RB52 degradation rate for 70-2 electrodes (70 μm granulation and 2 % of Fe) with different amounts H_2O_2

τ_r , / min	$c(\text{H}_2\text{O}_2)$			
	0 mmol dm^{-3}	1 mmol dm^{-3}	5 mmol dm^{-3}	10 mmol dm^{-3}
0	0.00	0.00	0.00	0.00
10	19.65	61.71	64.78	55.38
20	32.55	85.72	88.84	78.89
30	44.80	92.52	95.61	89.18
40	55.23	95.46	97.82	92.76
50	64.25	96.89	98.62	94.59

TABLE S-V. RB52 degradation rate for 125-2 electrodes (125 μm granulation and 2 % of Fe) with different amounts H_2O_2

τ_r , / min	$c(\text{H}_2\text{O}_2)$			
	0 mmol dm^{-3}	1 mmol dm^{-3}	5 mmol dm^{-3}	10 mmol dm^{-3}
0	0.00	0.00	0.00	0.00
10	27.45	57.40	58.21	54.40
20	43.47	81.86	82.92	77.90
30	56.26	90.40	91.77	88.20
40	66.50	93.30	95.00	91.40
50	75.10	94.50	95.30	92.60

TABLE S-VI. RB52 degradation rate for 205-2 electrodes (205 μm granulation and 2 % of Fe) with different amounts H_2O_2

τ_r , / min	$c(\text{H}_2\text{O}_2)$			
	0 mmol dm^{-3}	1 mmol dm^{-3}	5 mmol dm^{-3}	10 mmol dm^{-3}
0	0.00	0.00	0.00	0.00
10	11.58	59.92	63.78	54.38
20	23.02	82.46	85.80	77.89
30	33.31	89.60	91.61	86.50
40	42.20	92.00	94.20	89.70
50	50.10	93.20	95.62	91.90

TABLE S-VII. RB52 degradation rate for 70-7 electrodes (70 μm granulation and 7 % of Fe) with different amounts H_2O_2

τ , / min	$c(\text{H}_2\text{O}_2)$			
	0 mmol dm^{-3}	1 mmol dm^{-3}	5 mmol dm^{-3}	10 mmol dm^{-3}
0	0.00	0.00	0.00	0.00
10	15.83	26.09	60.83	76.00
20	27.67	46.83	82.77	93.88
30	38.04	61.20	90.55	97.93
40	46.98	72.39	93.74	99.16
50	54.80	79.30	95.73	99.31

TABLE S-VIII. RB52 degradation rate for 125-7 electrodes (125 μm granulation and 7 % of Fe) with different amounts H_2O_2

τ , / min	$c(\text{H}_2\text{O}_2)$			
	0 mmol dm^{-3}	1 mmol dm^{-3}	5 mmol dm^{-3}	10 mmol dm^{-3}
0	0.00	0.00	0.00	0.00
10	21.95	50.96	64.06	76.36
20	36.99	75.38	85.40	90.13
30	49.23	87.93	91.96	94.92
40	60.28	92.68	94.22	97.02
50	69.24	93.75	94.70	98.10

TABLE S-IX. RB52 degradation rate for 205-7 electrodes (205 μm granulation and 7 % of Fe) with different amounts H_2O_2

τ , / min	$c(\text{H}_2\text{O}_2)$			
	0 mmol dm^{-3}	1 mmol dm^{-3}	5 mmol dm^{-3}	10 mmol dm^{-3}
0	0.00	0.00	0.00	0.00
10	12.59	49.85	60.98	65.06
20	25.00	78.40	83.30	87.40
30	35.30	89.74	91.88	93.96
40	44.20	93.80	95.45	96.22
50	51.70	94.80	96.70	97.70