

Table 4. Sliding angle (SA), roughness (Ra) for the samples after electrodeposition whit cerium chloride.

Substrate	Time (min)/Voltage (V)	Ra (μm)	SA ($^{\circ}$)
AS (Sandpaper + Blasting 0.3 MPa/10s)	10/10	2.57 ± 0.09	14.7
	10/20	5.56 ± 0.17	6.7
	10/30	4.57 ± 0.41	3.6
	10/40	4.94 ± 0.16	6.3
	20/10	2.91 ± 0.13	16.2
	20/20	3.99 ± 0.59	11.3
	20/30	5.41 ± 0.08	6.7
	20/40	6.91 ± 0.10	12.9
Al-Mg (Sandpaper)	20/10	2.11 ± 0.03	32.2
	20/20	1.87 ± 0.14	25.1
	20/30	2.27 ± 0.25	17.6
	20/40	3.95 ± 0.15	19.4
	30/10	2.06 ± 0.36	16.3
	30/20	2.56 ± 0.65	14.7
	30/30	3.01 ± 0.77	13.1
	30/40	2.41 ± 0.32	6.2

Table 5. Sliding angle (SA), roughness (Ra) for immersion in cerium salts on aluminized steel (AS).

Salt	Blasting (MPa)/Time (s)	Ra (μm)	SA ($^{\circ}$)
cerium nitrate	0.2/5	2.09 ± 0.28	12.3
	0.3/5	2.21 ± 0.45	11.6
	0.4/5	3.14 ± 0.25	10.9
	0.5/5	4.23 ± 0.15	7.5
	0.2/10	2.06 ± 0.54	8.9
	0.3/10	2.76 ± 0.85	6.8
	0.4/10	3.01 ± 0.37	7.0
	0.5/10	3.37 ± 0.33	6.5
cerium chloride	0.2/5	1.99 ± 0.31	23.5
	0.3/5	2.08 ± 0.37	16.3
	0.4/5	2.22 ± 0.06	14.9
	0.5/5	4.45 ± 0.68	8.3
	0.2/10	2.85 ± 0.45	16.2
	0.3/10	3.12 ± 0.19	13.8
	0.4/10	3.99 ± 0.36	7.1
	0.5/10	4.03 ± 0.74	2.7

Table 6. Sliding angle (SA), roughness (Ra) for immersion in cerium salts on aluminium-magnesium (Al-Mg).

Salt	Blasting (MPa)/ time (s)	Ra (μm)	SA ($^{\circ}$)
cerium nitrate	0.2/10	3.89 ± 0.57	2.6
	0.3/10	3.77 ± 0.59	1.6
	0.4/10	4.45 ± 0.27	1.5
	0.5/10	4.11 ± 0.22	2.8
	0.2/15	4.16 ± 0.49	1.5
	0.3/15	3.87 ± 0.85	1.8
	0.4/15	4.26 ± 0.09	1.6
	0.5/15	4.05 ± 0.43	2.3
cerium chloride	0.2/10	2.19 ± 0.21	11.2
	0.3/10	1.96 ± 0.34	9.8
	0.4/10	3.65 ± 0.16	8.3
	0.5/10	4.29 ± 0.32	6.4
	0.2/15	3.55 ± 0.33	8.3
	0.3/15	3.82 ± 0.41	6.0
	0.4/15	3.58 ± 0.76	3.4
	0.5/15	3.69 ± 0.61	2.3