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Degradation Rate Control Issues of PEO-Coated Wrought Mg0.5Zn0.2Ca Alloy

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Table S1. Coating surface porosity characteristics from plan view of PEO-T and PEO-S at three treatment times (Figure 3a–c,g–i).

Parameters	PEO-T			PEO-S		
	300 s	600 s	900 s	300 s	600 s	900 s
Thickness (μm)	13.10 ± 1.95	18.34 ± 3.89	16.34 ± 3.04	13.14 ± 1.41	14.88 ± 1.01	18.10 ± 3.95
S_a (μm)	3.94 ± 0.68	2.76 ± 0.30	2.68 ± 0.05	2.47 ± 0.41	2.28 ± 0.21	1.08 ± 0.15
S_{10z} (μm)	12.66 ± 2.62	13.98 ± 0.64	14.78 ± 2.61	11.95 ±1.51	12.04 ± 0.77	12.47 ± 1.6
Surface pore density (pore/mm^2)	$1.09 \pm 0.3 \cdot 10^6$	$8.9 \pm 0.9 \cdot 10^5$	$7.3 \pm 1.2 \cdot 10^5$	$4.97 \pm 0.8 \cdot 10^6$	$4.22 \pm 1.5 \cdot 10^6$	$3.03 \pm 0.5 \cdot 10^6$
Fraction pore area (%)	15.70	29.84	19.11	4.96	2.52	1.8
Average of pore size (μm)	0.91 ± 0.35	2.53 ± 0.70	1.35 ± 0.23	0.51 ± 0.02	0.24 ± 0.07	0.45 ± 0.08