

Supporting Information

Keratinocytes biocompatibility, antibacterial and antioxidant properties of porous coacervate phosphate glass fibres and powders loaded with cerium and clove oil: a comparative study

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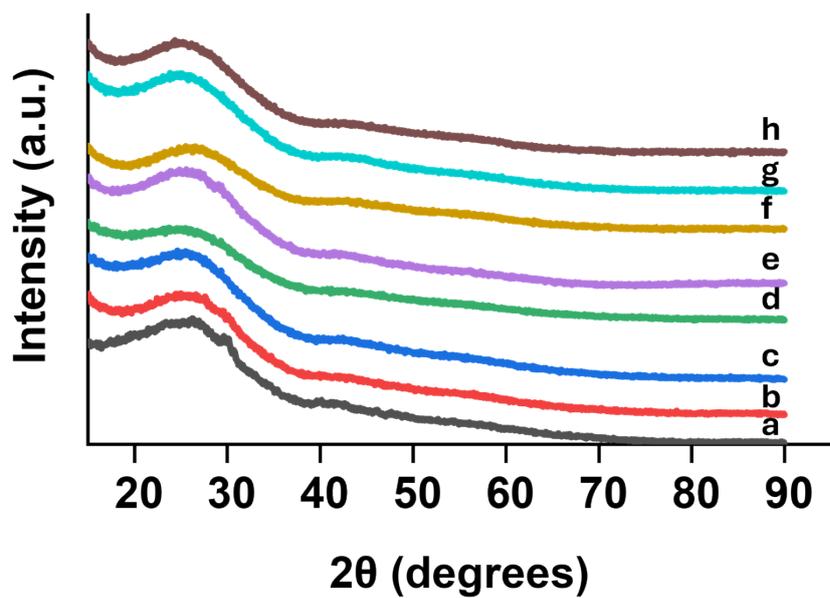


Figure SI_1. XRPD patterns of a) PGP-und, b) PGP-Ce0.1, c) PGP-Ce0.2, d) PGP-Ce0.4, e) PGF-und, f) PGF-Ce0.1, g) PGF-Ce0.2, h) PGF-Ce0.4

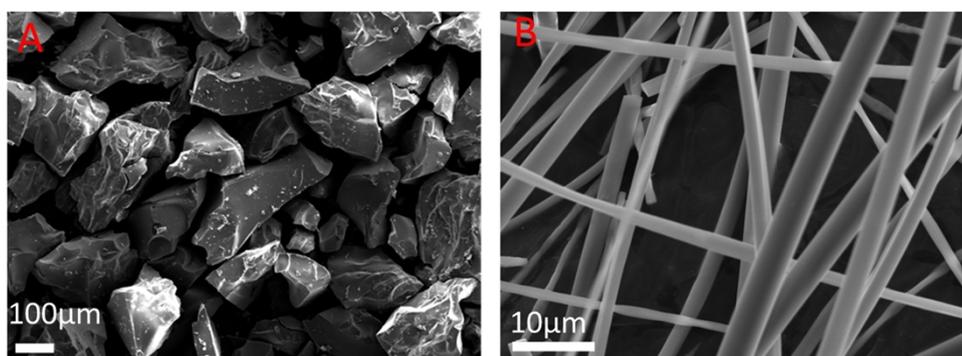


Figure SI_2. SEM images of non-porous A) PGP-unl, B) PGF-unl

Table SI_1. Compositions of PGPs and PGFs in terms of oxide (mol %) measured via EDX.

Sample	Oxide (Mol %)					
	name	P ₂ O ₅	CaO	Na ₂ O	Ce ₂ O ₃	CeO ₂
PGP-		47.78	43.54	8.68	-	-
und						
PGP-		48.26	41.53	10.01	0.2	-
Ce0.1		48.17	41.47	9.98	-	0.38
PGP-		46.85	42.68	10.07	0.4	-
Ce0.2		46.65	42.54	10.03	-	0.78
PGP-		48.45	39.91	10.74	0.9	-
Ce0.4		48.09	39.56	10.65	-	1.7
PGF-		50.80	40.89	8.31	-	-
und						
PGF-		46.20	46.49	7.11	0.2	-
Ce0.1		46.15	46.45	7.08	-	0.32
PGF-		47.78	41.05	10.77	0.4	-
Ce0.2						
		47.57	40.89	10.74	-	0.8
PGF-		47.76	43.12	8.52	0.6	-
Ce0.4		47.52	42.88	8.5	-	1.1

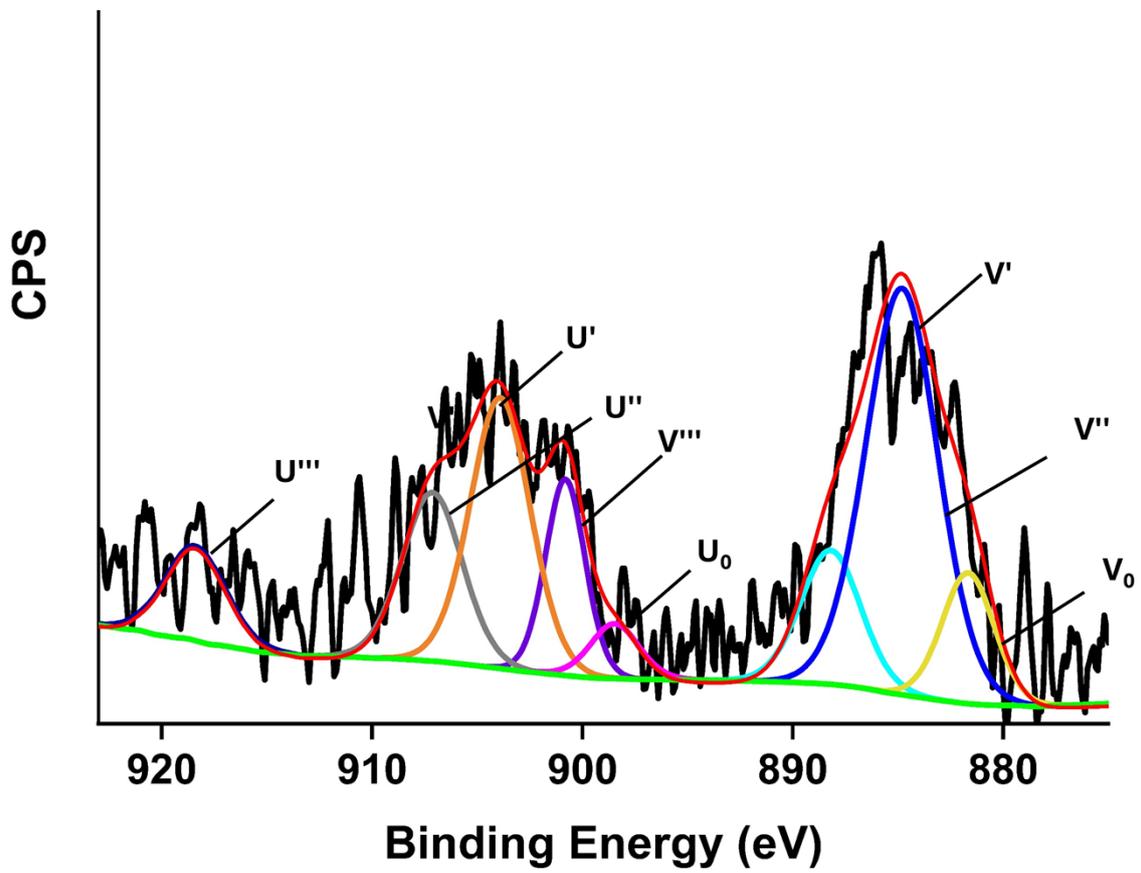


Figure SI_3. Fitted Ce 3d_{3/2} and Ce 3d_{5/2} XPS spectra of Ce³⁺ and Ce⁴⁺ for PGF-Ce_{0.4}

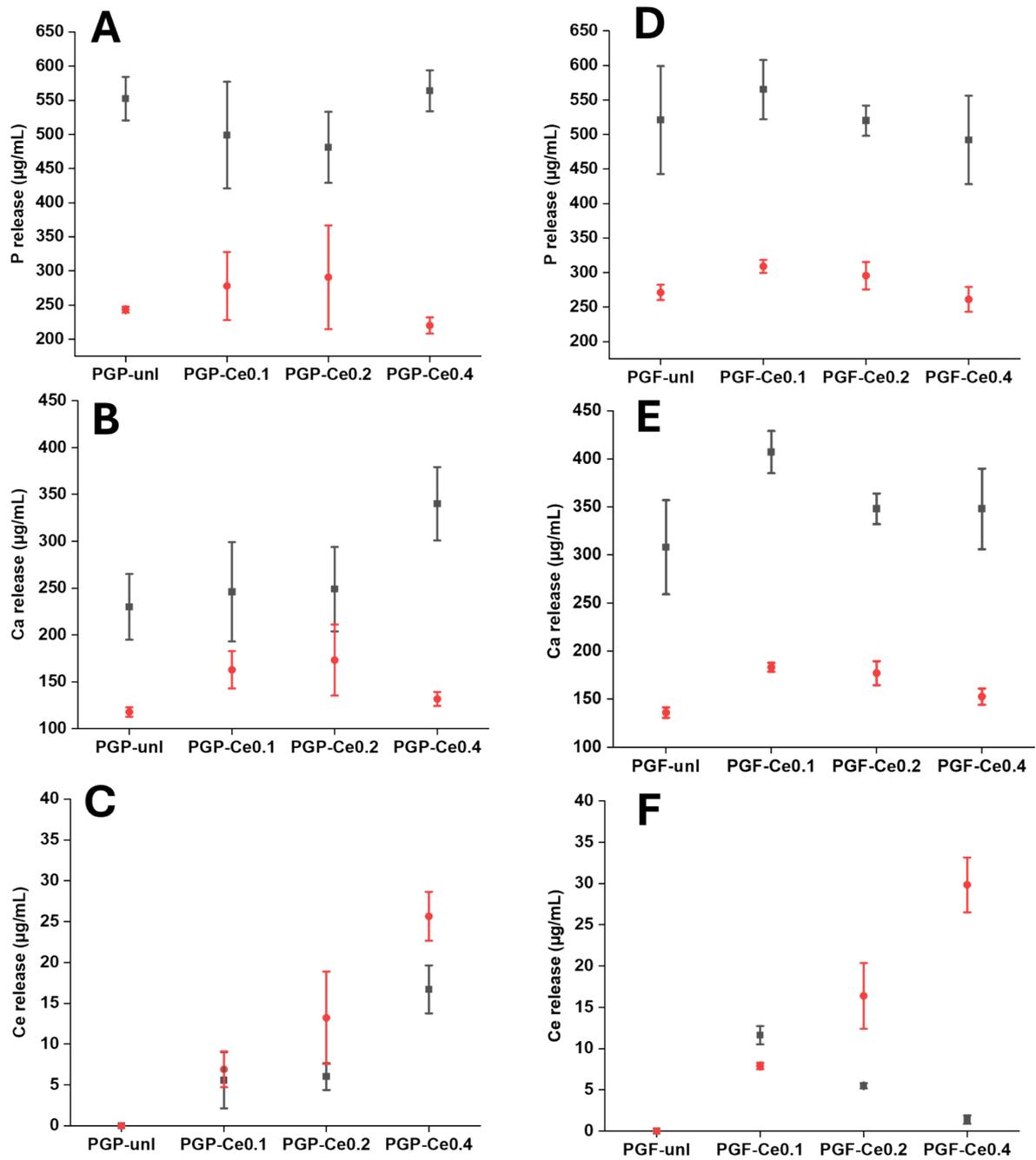


Figure SI_4. Release of P, Ca and Ce from PGPs (A-C) and PGFs (D-F) after immersion in PBS (black) and DI water (red) after 3 h. Error bars indicate the mean \pm standard deviation ($n = 3$)

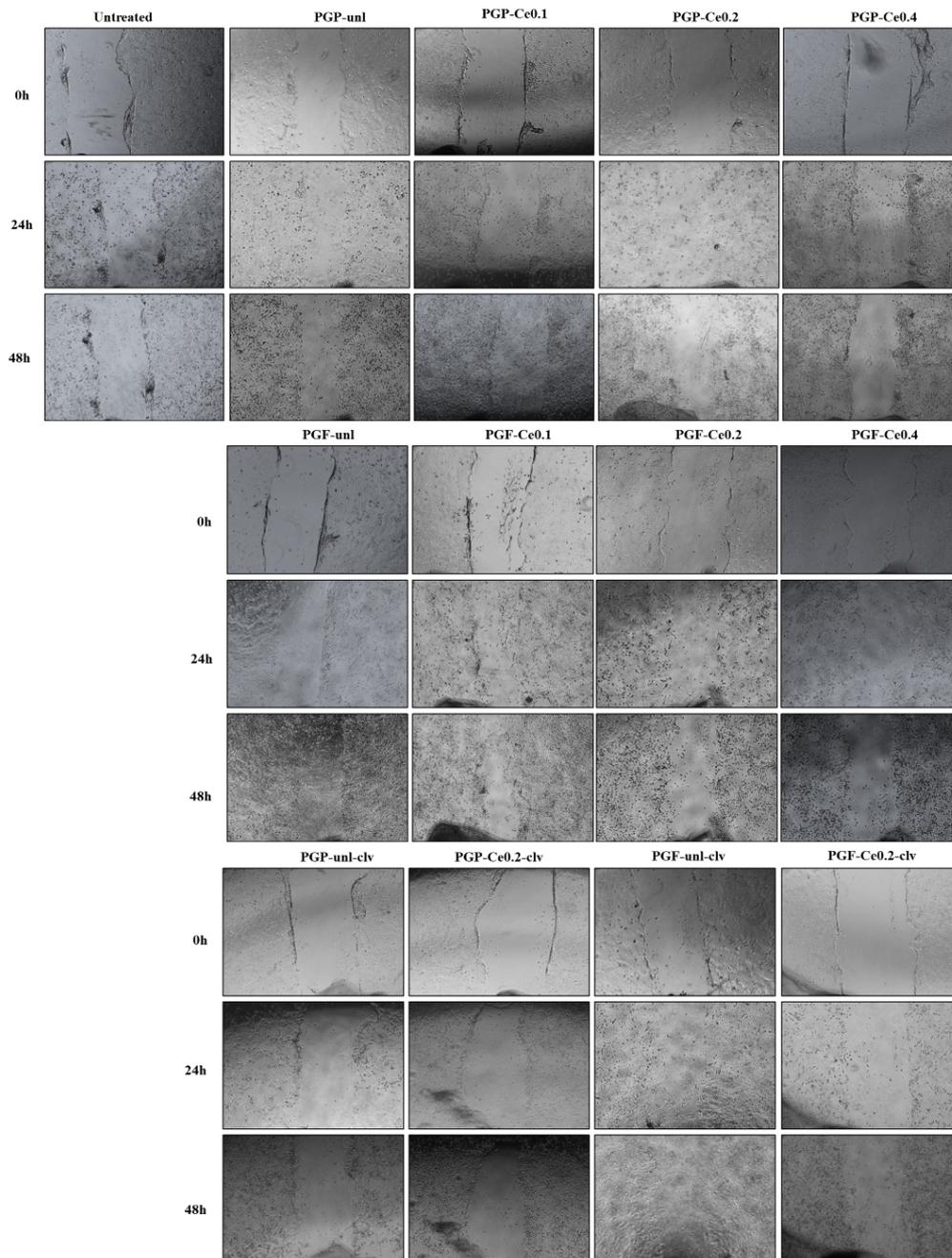


Figure SI_5. Representative micrographs showing scratch area closure over time for different treatments