

S7: Video with slideshow of the generated PARC imagery for all samples, showing a triplicate of analysed areas (a-c) per sample. For each sample, the following images are shown, covering the whole analysed area (approx. 2.5 mm wide):

- Greyscale SEM-BSE
- PARC groups, with legend showing top 20 most abundant groups and their net area % (with respect to total analysed area, excluding empty spectra pixels. N.B. area percentages given in manuscript and S9 are reported with respect to total analysed grain area per sample analysis, excluding all pixels falling outside the grain mask but not excluding empty spectra unless otherwise indicated)
- Grain populations, with legends showing: first, populations grouped by source material (detailed); second, grouped by source category, as referred to in main text.
- Miniature versions of the previous images, showing only those grain populations and grains with occurrence of Pb-rich pixels

See supplementary file S2 for details of PARC groups, S3 for documentation of grain populations.

Combined tables of PARC group and grain population abundances are given in supplementary files S8 and S9 respectively.

Time-stamps of samples (mm:ss):

Sample 01	00:00
Sample 02	00:36
Sample 03	01:12
Sample 05	01:49
Sample 06	02:25
Sample 07	03:01
Sample 08	03:37
Sample 09	04:14
Sample 10	05:02
Sample 11	05:38
Sample 12	06:15
Sample 13	06:50
Sample 14	07:26
Sample 15	08:03
Sample 17	08:39
Sample 18	09:15
Sample 21	09:52
Sample 22	10:28
Sample 23	11:04
Sample 24	11:41
Sample 25	12:17
Sample 26	12:53
Sample 27	13:30

Sample 28	14:05
Sample 29	14:41
Sample 30	15:18
Sample 31	15:54
Sample 32	16:31
Sample 33	17:07
Sample 35	17:43
Sample 36	18:19