

Supplement S1 - Literature review

to Sperlich et al. 'Standardised determination and normalisation of
saturation plateaus of luminescence rock surface dating depth profiles'
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Accepted publications were scanned for the following query words: 'norm' (short for normalis(z)ed, normalis(z)ation, and norm.), 'saturat' (short for saturated and saturation), 'determin' (short for determined and determination), 'bleach' (short for bleached and bleaching), and 'plateau'. Text sections including those words were read and the relevant sections noted, and later classified into (i) how the plateau was identified (i.e. which data points are used for central tendency calculation) and (ii) which central tendency measure was used to calculate the normalisation factor. Tab. S1.1 shows the citation of the article, maximum citation count (from either Crossref (<https://www.crossref.org/>), Semantic Scholar (Allen Institute for Artificial Intelligence, <https://www.semanticscholar.org/>), or Web of Science™ (Clarivate Analytics, <https://www.webofscience.com/>) as of 16 April 2026, whether the respective article was analysed, how the plateau region was determined and how the central tendency was calculated in each respective article. A dash means that it was not specified in the text. The counts of each approach are reported in Tab. S1.2.

Table S1.1: Journal articles that were analysed. * from Semantic Scholar, CrossRef or Web of Science as of 16 April 2026.
** Plat. det... Plateau determination (cf. methods section in main text) 1... saturated slices, 2... deepest n slices, 3... field or lab saturation, 4... deepest x mm, 5... single highest L_n/T_n value, 6... fluctuating by less than 20 % -... not specified. *** 1... average, 2... weighted mean, 3... mean (unspecified), 4... arithmetic mean, -... not specified.

ID	Citation	Max. citation count*	Analysed	Plat. det. **	Central tendency ***
1	Margirier et al. 2025	4	y	1	-
2	Ageby et al. 2024	1	y	-	-
3	Al Khasawneh et al. 2024c	0	y	1	1
4	Andričević et al. 2024	0	y	3	-
5	Bailiff et al. 2024	2	y	-	-
6	Bench et al. 2024	1	y	4	3
7	Biswas et al. 2023	1	y	-	-
8	Cossu et al. 2024	1	y	2	1
9	Gliganic et al. 2024a	3	y	2	2
10	Liu et al. 2024	3	y	-	-
11	Pathan et al. 2024	1	y	-	-
12	Al Khasawneh et al. 2024a	1	y	1	1
13	Alexanderson et al. 2024	5	y	3	-
14	Cui et al. 2024	3	y	-	-
15	Gliganic et al. 2024b	6	y	1	-
16	Marik et al. 2024	8	y	-	-
17	Rades et al. 2024	3	y	-	-
18	Thompson et al. 2024	2	y	3	-
19	Yang et al. 2024	2	y	-	-
20	Ageby et al. 2023	6	y	1	1
21	Al Khasawneh et al. 2024b	3	y	1	1
22	Andričević et al. 2023	5	y	-	-
23	Balco et al. 2023	27	y	-	-
24	Bench et al. 2023	1	y	2	2
25	Freiesleben et al. 2023b	2	y	1	-
26	Ishii 2024	5	y	-	-
27	Liu et al. 2023	2	y	1	-

ID	Citation	Max. citation count*	Analysed	Plat. det. **	Central tendency ***
28	Luo et al. 2022	11	y	-	-
29	Moayed et al. 2023	10	y	-	-
30	Polymeris et al. 2023	1	y	-	-
31	Sohbati and Hippe 2023	2	y	-	-
32	Freiesleben et al. 2023a	13	y	1	-
33	Freiesleben et al. 2022	7	y	1	-
34	Semikolennykh et al. 2022	9		-	-
35	Smith et al. 2023	14	y	-	-
36	Ageby et al. 2022	10	y	1	4
37	Bench and Feathers 2022	3	y	2	2
38	Cui et al. 2022	2		-	-
39	Feathers et al. 2022	1		-	-
40	Liu et al. 2022	7		-	-
41	Ou et al. 2022	9		-	-
42	Thompson et al. 2022	8		-	-
43	Brill et al. 2022	7		-	-
44	Brill et al. 2021	15	y	2	1
45	Cunningham et al. 2022	7		-	-
46	Feathers and Muller 2020	1		-	-
47	Fu et al. 2022	19	y	-	-
48	Fuhrmann et al. 2022	13	y	2	2
49	Sellwood et al. 2022a	8	y	1	-
50	Ageby et al. 2021	21	y	1	3
51	Gliganic et al. 2021	23	y	-	-
52	Ishii et al. 2022	16	y	-	-
53	Sellwood et al. 2022b	15	y	-	-
54	Smedley et al. 2021	5		-	-
55	Souza et al. 2021	16	y	1	1
56	Elkadi et al. 2021	13	y	1	1
57	Galli et al. 2020	10		-	-
58	Brown and Moon 2019	24	y	-	-
59	Stange et al. 2019	3		-	-
60	Riedesel and Autzen 2020	22	y	-	-
61	Al Khasawneh et al. 2019a	34	y	-	-
62	Al Khasawneh et al. 2019b	50	y	1	-
63	Brown and Moon 2019	16	y	-	-
64	Gliganic et al. 2019	39	y	2	2
65	Lehmann et al. 2019	23	y	1	-
66	Liu et al. 2019	22	y	1	1
67	Sellwood et al. 2019	35	y	-	-
68	Souza et al. 2019	28	y	3	1
69	Liritzis et al. 2019	14	y	-	-
70	Luo et al. 2018	20	y	1	-
71	Meyer et al. 2018	55	y	2	2
72	Ou et al. 2018	52	y	1	1
73	Rades et al. 2018	49	y	-	-
74	Jenkins et al. 2018	72	y	-	-
75	Lehmann et al. 2018	46	y	6	1
76	Sohbati et al. 2018	41	y	1	1
77	Freiesleben et al. 2015	89	y	1	-
78	Liritzis 2011	58	y	-	-
79	Serra et al. 2025	3	y	5	-
80	Sohbati et al. 2015	75	y	2	1
81	Chapot et al. 2012	75	y	-	-
82	Sohbati et al. 2012a	101	y	2	1
83	Sohbati et al. 2012c	40	y	-	-

ID	Citation	Max. citation count*	Analysed	Plat. det. **	Central tendency ***
84	Pederson et al. 2014	26	y	-	-

Table S1.2: Count of each approach for plateau determination and central tendency calculation. Plat Det... Plateau Determination.

	Plat. det.	count		Central tendency	Count
1	saturated slices	22	1	average	15
2	deepest n slices	10	2	weighted mean	6
3	field or lab saturation	4	3	mean (unspecified)	2
4	deepest x mm	1	4	arithmetic mean	1
5	single highest L_n/T_n value	1			
6	fluctuating by less than 20%	1			
	sum of specified	39		sum of specified	24
-	not specified	33	-	not specified	48
	sum	72		sum	72

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