Magyarhoni Földtani Társulat
Földtani Közlöny
Hungarian Geological Society
156/3, 277–286., Budapest, 2026
DOI: 10.23928/foldt.kozl.2026.156.3.277

Mineralogical mosaics from the Carpathian–Pannonian region 7

This paper is dedicated to Tamás G. WEISZBURG on the occasion of his 70th birthday

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Supplement

Electronic supplementary materials
Elektronikus kiegészítő anyagok

Mineralogical mosaics from the Carpathian-Pannonian region 7
Ásványtani mozaikok a Kárpát-Pannon régióból 7.

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Table E1. X-ray powder diffraction data of gerhardtite from Rudabánya compared to the reflections of the ICDD 00-014-0687 card
E1. táblázat. A rudabányai gerhardtit röntgen-pordiffrakciós adatai, összehasonlítva az ICDD 00-014-0687 kártya reflexióival

Gerhardtite Rudabánya		**Gerhardtite ICDD 00-014-0687**				
***I* (%)**	***d* (Å)**	***I* (%)**	***d* (Å)**	***h***	***k***	***l***
100	6.91	100	6.91	0	0	2
4	4.58	10	4.561	0	1	2
2	4.35	10	4.351	1	0	2
31	4.12	50	4.121	1	1	0
3	3.944	10	3.950	1	1	1
34	3.542	50	3.539	1	1	2
89	3.450	60	3.454	0	0	4
5	3.073	10	3.070	1	1	3
		20	3.038	0	2	0
13	3.005	20	3.006	0	1	4
9	2.935	20	2.939	1	0	4
41	2.794	60	2.797	2	0	0
		10	2.785	0	2	2
5	2.738	30	2.743	2	0	1
32	2.670	60	2.669	1	2	0
75	2.622	80	2.624	1	2	1
44	2.587	70	2.595	2	0	2
		10	2.541	2	1	0
		20	2.520	0	1	5
41	2.490	50	2.493	1	2	2
19	2.387	40	2.391	2	0	3
86	2.309	80	2.310	1	2	3
57	2.173	50	2.174	2	0	4

Gerhardtite Rudabánya		**Gerhardtite ICDD 00-014-0687**				
***I* (%)**	***d* (Å)**	***I* (%)**	***d* (Å)**	***h***	***k***	***l***
		20	2.155	0	1	6
27	2.111	30	2.114	1	2	4
6	2.074	5	2.006	0	3	1
4	1.968	10	1.973	2	2	2
63	1.918	60	1.923	1	2	5
		5	1.875	0	1	7
2	1.848	20	1.852	0	3	3
		5	1.838	1	3	2
32	1.776	40	1.780	1	1	7
2	1.748	5	1.742	1	2	6
23	1.726	30	1.727	0	0	8
2	1.704	20	1.708	2	1	6
72	1.579	40	1.589	3	2	0
		80	1.579	3	2	1
		20	1.569	1	3	5
4	1.548	20	1.550	3	2	2

Table E2. X-ray powder diffraction data of parnauite from Rudabánya in comparison with those of the ICDD 00-029-0533 card
E2. táblázat. A rudabányai parnauit röntgen-pordiffrakciós adatai, összehasonlítva az ICDD 00-029-0533 kártya megfelelő reflexióival

Parnauite Rudabánya		**Parnauite ICDD 00-029-0533**				
d **(Å)**	$I_{rel.}$ **(%)**	***d*** **(Å)**	$I_{rel.}$ **(%)**	***h***	***k***	***l***
14.11	100	14.30	100	0	1	0
10.29	61	10.40	25	1	1	0
7.09	2	7.14	10	0	2	0
6.38	6	6.42	8	1	2	0
5.12	2	5.16	1	2	2	0
4.71	2	4.73	2	0	3	0
4.49	18	4.52	60	1	3	0
3.985	16	4.00	20	2	3	0
3.428	8	3.44	7	3	3	0
3.198	2	3.21	4	2	4	0
2.933	6	2.93	4	5	1	0
2.890	2	2.90	3	4	2	1
2.841	1	2.849	19	0	5	0
2.751	6	2.757	3	5	2	0
2.581	22	2.577	7	3	0	2
2.536	13	2.537	6	3	1	2
2.519	7	2.529	7	5	3	0
2.315	4	2.315	1	4	1	2
2.268	4	2.264	5	3	3	2
2.125	2	2.141	2	5	4	1

Table E3. X-ray powder diffraction data of an armenite-bearing sample from Recsk
E3. táblázat. A recski armenittartalmú minta röntgen-pordiffrakciós adatai

Recsk (this study)		**Armenite ICDD 00-045-1481**		**Quartz ICDD 00-046-1045**		**Calcite ICDD 00-005-0586**		**Clinozoisite ICDD 00-044-1400**	
***d* (Å)**	***I* (%)**	***d* (Å)**	***I* (%)**	***d* (Å)**	***I* (%)**	***d* (Å)**	***I* (%)**	***d* (Å)**	***I* (%)**
9.318	2	9.278	32						
6.952	7	6.927	55						
5.014	5							5.016	9
4.257	28	4.243	69	4.255	16				
4.009	5							4.006	3
3.981	3							3.986	2
3.860	15	3.853	100			3.860	12		
3.750	2							3.754	7
3.480	6							3.482	11
3.408	16	3.408	85					3.399	11
3.346	100			3.343	100				
3.202	3							3.204	7
3.096	5	3.092	67						
3.031	53					3.035	100	3.053	11
2.915	14	2.912	97					2.918	10
2.893	18							2.893	100
2.801	6	2.799	17					2.802	47
2.780	10	2.777	77					2.781	10
2.682	10	2.686	50					2.681	24
2.648	2							2.647	6
2.592	7	2.585	13					2.595	6
2.579	4	2.577	17						
2.566	4	2.569	16						
2.528	5	2.532	14					2.527	18
2.501	6	2.505	26					2.505	24
2.493	8	2.493	16			2.495	14		
2.469	3	2.470	12						
2.459	8	2.463	12	2.457	9				
2.399	5							2.399	12
2.291	5							2.293	8
2.283	13			2.281	8	2.285	18		
2.238	3			2.236	4				
2.212	3	2.199	14						
2.161	3							2.163	26
2.127	5	2.124	27	2.128	6			2.120	3
2.107	3							2.109	6
2.101	4							2.100	17
2.092	7					2.095	18		
2.064	2	2.067	8					2.065	6
2.040	1	2.034	20					2.044	13
2.026	2	2.025	20						
2.003	2							2.009	4

Recsk (this study)		Armenite ICDD 00-045-1481		Quartz ICDD 00-046-1045		Calcite ICDD 00-005-0586		Clinozoisite ICDD 00-044-1400	
d **(Å)**	***I*** **(%)**	***d*** **(Å)**	***I*** **(%)**	***d*** **(Å)**	***I*** **(%)**	***d*** **(Å)**	***I*** **(%)**	***d*** **(Å)**	***I*** **(%)**
1.982	3			1.980	4			1.989	4
1.947	2	1.945	21						
1.922	3					1.927	5		
1.910	8					1.913	17		
1.888	2	1.886	16					1.878	9
1.870	9					1.875	17	1.868	8
1.856	2	1.855	18						
1.819	11			1.818	13				
1.751	2	1.752	29						
1.741	2	1.747	31						
1.736	2	1.734	16						
1.673	3			1.672	4				
1.660	2			1.659	2				
1.634	9							1.636	12
1.630	5							1.627	2
1.622	3					1.626	4	1.623	12
1.603	2					1.604	8		
1.587	3					1.587	2		
1.583	2							1.575	8
1.542	7			1.542	9				
1.538	4					1.525	5	1.540	5
1.503	2	1.509	15						
1.490	2	1.488	19						
1.454	3	1.456	11	1.453	2			1.459	5
1.438	1					1.440	5		
1.414	1	1.412	19						
1.398	1							1.401	7
1.390	1							1.391	6
1.383	4			1.382	6				
1.375	5			1.375	7				
1.372	5			1.372	5				

Table E4. X-ray powder diffraction data of zeunerite from Badacsonyörs in comparison with the corresponding reflections of the ICDD 00-017-0150 card
E4. táblázat. A badacsonyörsi zeunerit röntgen-pordiffrakciós adatai, összehasonlítva az ICDD 00-017-0150 kártya megfelelő reflexióival

Zeunerite Badacsonyörs		**Zeunerite ICDD 00-017-0150**				
***d* (Å)**	***I* (%)**	***d* (Å)**	***I* (%)**	***h***	***k***	***l***
10.39	100	10.3	100	0	0	2
6.79	52	6.81	30	1	0	1
5.20	29	5.20	70	0	0	4
5.04	62	4.98	50	1	0	3
4.56	9	4.58	5	1	1	2
3.595	97	3.59	100	2	0	0
3.390	43	3.39	50	2	0	2
3.175	9	3.16	10	2	1	1
2.957	16	2.95	30	2	0	4
2.913	11	2.91	5	2	1	3
2.863	2	2.86	10	1	1	6
2.754	4	2.74	30	1	0	7
2.542	16	2.53	40	2	2	0
2.468	12	2.46	30	2	2	2
2.377	2	2.37	5	3	0	1
2.317	3	2.32	20	1	1	8
2.272	14	2.26	40	3	0	3
2.216	5	2.21	40	3	1	2
2.187	7	2.18	20	2	1	7
2.078	15	2.08	60	3	1	4
1.929	9	1.924	60	1	1	10
1.796	16	1.794	50	4	0	0
1.770	5	1.765	5	4	0	2
1.713	3	1.708	10	3	1	8
1.694	6	1.690	10	4	1	3
1.669	2	1.661	5	3	0	9
1.644	3	1.640	40	1	1	12
1.606	14	1.602	40	4	2	1
1.588	3	1.584	10	4	2	2
1.567	3	1.562	20	1	0	13
1.536	11	1.532	50	3	1	10
1.433	3	1.427	30	1	1	14

Table E5. X-ray powder diffraction data of margarite from Remeţi compared to the reflections of the ICDD 00-018-0276 card

E5. táblázat. A jádremetei margarit röntgen-pordiffrakciós adatai, összehasonlítva az ICDD 00-018-0276 kártya reflexióival

Margarite Remeţi		**Margarite ICDD 00-018-0276**				
***d* (Å)**	***I* (%)**	***d* (Å)**	***I* (%)**	***h***	***k***	***l***
9.648	11	9.56	10	0	0	2
4.407	31	4.42	10	1	1	0
4.380	36	4.37	10	-1	1	1
4.215	8	4.23	4	1	1	1
3.773	12	3.771	8	-1	1	3
3.631	15	3.636	6	0	2	3
3.381	12	3.381	8	-1	1	4
3.178	44	3.180	100	0	0	6
3.125	13	3.123	14	1	1	4
3.065	10	3.001	4	-1	1	5
2.888	18	2.883	8	0	2	5
2.774	14	2.775	10	1	1	5
2.700	27	2.687	6	-1	1	6
2.544	31	2.549	10	2	0	0
2.515	100	2.517	25	-2	0	2
2.486	13	2.508	18	1	3	1
2.405	27	2.407	12	2	0	2
2.207	7	2.199	4	0	4	0
2.171	10	2.168	8	2	0	4
2.167	11	2.161	6	-1	3	5
2.076	24	2.077	12	0	4	3
1.909	17	1.908	35	0	0	10
1.904	17	1.903	18	-1	3	7
1.667	12	1.665	6	-2	4	0
1.598	12	1.596	10	-2	0	10
1.594	15	1.593	10	1	3	9
1.474	38	1.475	12	-3	3	1
1.466	18	1.466	16	2	0	10

Table E6. X-ray powder diffraction data of coquandite from Baia Sprie compared to the reflections of the ICDD 00-046-1417 card
E6. táblázat. A felsőbányai coquandit röntgen-pordiffrakciós adatai, összehasonlítva az ICDD 00-046-1417 kártya reflexióival

Coquandite Baia Sprie		**Coquandite ICDD 00-046-1417**				
***d* (Å)**	***I* (%)**	***d* (Å)**	***I* (%)**	***h***	***k***	***l***
14.927	19	14.84	50	0	2	0
9.251	5	9.27	41	1	1	-1
8.601	3	8.59	25	-1	2	0
8.022	5	8.01	34	0	2	1
6.795	5	6.81	67	1	3	0
5.714	9	5.70	14	1	-1	1
4.611	13	4.63	14	2	2	0
3.757	9	3.765	19	2	0	1
3.685	7	3.690	15	2	0	-3
3.579	24	3.580	14	3	2	-1
3.444	74	3.440	20	1	8	-1
3.294	100	3.304	93	0	9	0
3.214	18	3.200	39	-3	2	3
3.129	54	3.138	24	-1	9	1
3.105	63	3.092	100	3	3	0
3.070	75	3.052	16	0	-4	3
2.837	26	2.842	32	-3	6	0
2.808	23	2.813	16	0	5	3
2.711	29	2.712	32	3	6	-3
2.572	9	2.575	13	3	7	-3
2.106	33	2.097	4	2	9	2
1.989	6	1.989	5	-5	8	2
1.915	12	1.918	16	0	3	5
1.859	8	1.865	4	-6	4	3
1.754	5	1.754	3	2	5	4
1.683	5	1.685	4	-6	9	3
1.648	5	1.655	5	3	8	3
1.591	4	1.590	6	6	4	-6

Table E7. X-ray powder diffraction data of a delafossite-bearing sample from Sasca Montană
E7. táblázat. A szászkabányai delafossittartalmú minta röntgen-pordiffrakciós adatai

Sasca Montană (this study)		**Delafossite ICDD 00-039-0246**		**Copper ICDD 00-004-0836**		**Cuprite ICDD 00-005-0667**		**Goethite ICDD 00-029-0713**	
***d* (Å)**	***I* (%)**	***d* (Å)**	***I* (%)**	***d* (Å)**	***I* (%)**	***d* (Å)**	***I* (%)**	***d* (Å)**	***I* (%)**
5.735	8	5.722	10						
4.991	6							4.98	12
4.185	22							4.183	100
3.377	6							3.383	10
3.027	5					3.020	9		
2.863	58	2.861	60						
2.690	10							2.693	35
2.589	20	2.597	9					2.583	12
2.513	97	2.513	100						
2.465	43					2.465	100		
2.452	30							2.450	50
2.254	11							2.253	14
2.239	24	2.2414	22						
2.193	6							2.190	18
2.137	9					2.135	37		
2.089	100	2.0864	3	2.088	100			2.089	1
1.911	5	1.9063	7					1.920	5
1.810	34			1.808	46				
1.806	26							1.802	6
1.774	5							1.7728	1
1.719	8							1.7192	20
1.695	5							1.6906	6
1.661	13	1.6618	20						
1.660	13							1.6593	3
1.607	3							1.6037	4
1.565	7							1.5637	10
1.562	6							1.5614	8
1.518	25	1.5175	20						
1.512	19					1.510	27		
1.509	13							1.5091	8
1.464	5							1.4675	2
1.456	4							1.4541	5
1.436	12	1.4370	12						
1.431	11	1.4306	12						
1.421	4							1.4207	2
1.393	5							1.3936	3
1.359	5							1.3590	3
1.345	6							1.3459	1
1.340	13	1.3412	12						
1.318	5							1.3173	3
1.300	8	1.2992	7						
1.286	6					1.287	17		

Sasca Montană (this study)		Delafossite ICDD 00-039-0246		Copper ICDD 00-004-0836		Cuprite ICDD 00-005-0667		Goethite ICDD 00-029-0713	
***d* (Å)**	***I* (%)**	***d* (Å)**	***I* (%)**	***d* (Å)**	***I* (%)**	***d* (Å)**	***I* (%)**	***d* (Å)**	***I* (%)**
1.279	17			1.278	20				
1.266	3							1.2654	1
1.255	5	1.2565	3						
1.241	3							1.2437	1
1.231	4					1.233	4		