

Table III. Stonepaste composition of all samples determined by FESEM-EDS (wt%). *avg*: average over at least two areas of the ceramics. *std*: standard deviation of the measurements.

Date	Accession number of selected tile		Na ₂ O	MgO	Al ₂ O ₃	SiO ₂	SO ₃	Cl	K ₂ O	CaO	TiO ₂	FeO
13 th century	EAX.289.b	<i>avg</i>	4.0	1.1	6.5	80.6	0.6	0.7	1.8	2.4	1.4	0.8
		<i>std</i>	0.0	0.1	0.2	0.7	0.0	0.2	0.1	0.2	0.3	0.0
	1838B-1876	<i>avg</i>	2.9	1.5	10.4	78.8	0.5	0.6	1.0	2.2	1.0	0.8
		<i>std</i>	0.1	0.1	1.3	1.7	0.0	0.1	0.1	0.0	0.1	0.3
	1077A-1892	<i>avg</i>	3.7	1.5	8.2	77.8	0.5	0.8	2.0	3.2	1.0	0.7
		<i>std</i>	0.9	0.0	2.0	3.6	0.1	0.0	0.1	0.5	0.0	0.1
	1837H-1876	<i>avg</i>	3.2	1.5	5.0	81.5	0.5	0.3	1.7	3.0	1.3	0.9
		<i>std</i>	0.4	0.2	1.0	2.5	0.1	0.1	0.2	0.3	0.1	0.2
	1837L-1876	<i>avg</i>	2.6	1.3	8.5	79.4	0.4	0.6	1.7	3.2	1.0	1.0
		<i>std</i>	0.1	0.2	0.7	0.5	0.0	0.0	0.1	0.4	0.0	0.0
19 th century	567-1888	<i>avg</i>	2.0	0.5	3.8	90.6	0.1	0.6	0.8	1.0	0.4	0.4
		<i>std</i>	0.1	0.2	0.7	0.5	0.0	0.0	0.1	0.4	0.0	0.0

Citation: Trinitat Pradell, Judit Molera, Moujan Matin, and Keelan Overton. “Microanalytical and Microstructural Analysis of Thirteenth-Century Luster Tiles Attributed to the Emamzadeh Yahya in Varamin, including a Comparison to a Nineteenth-Century Imitation ‘Luster’ Tile by ‘Ali Mohammad Esfahani.’” Essay in *The Emamzadeh Yahya at Varamin: An Online Exhibition of an Iranian Shrine*. 33 Arches Productions, June 7, 2026. Host: Khamseen: Islamic Art History Online.

Direct links to [this essay](#), the [Luster gallery](#), and the Emamzadeh Yahya [website](#).