



Title	Effect of alkali activators on diffusivity of metakaolin-based geopolymers
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## Supplementary materials

Table 1. Composition of geopolymers by EDX analysis (mol/mol %)

	Na <sub>2</sub> O	MgO	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	SO <sub>3</sub>	Cl	K <sub>2</sub> O	CaO	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>
K11	0.25	0.06	19.19	59.80	0.66	0.02	18.79	0.07	1.01	0.15
K9	0.32	0.04	19.26	59.51	0.45	0.06	19.24	0.05	0.92	0.15
0.66K	0.20	0.02	17.58	63.77	0.24	0.02	17.34	0.026	0.65	0.14
N11	15.92	0.04	20.39	62.61	-	-	0.15	0.05	0.69	0.14
KN11	5.60	0.28	19.99	64.99	0.44	-	7.36	-	1.21	0.12

Figure 1. XRD of MK

Figure 2. Si NMR results for the alkali activators

Figure 3. Moisture contents and LOIs of the geopolymers

Figure 4. Distribution of cesium in the geopolymers, where the upper surface is exposed

Figure 5. Scanning electron image of the geopolymers (256\*192 $\mu\text{m}$ )

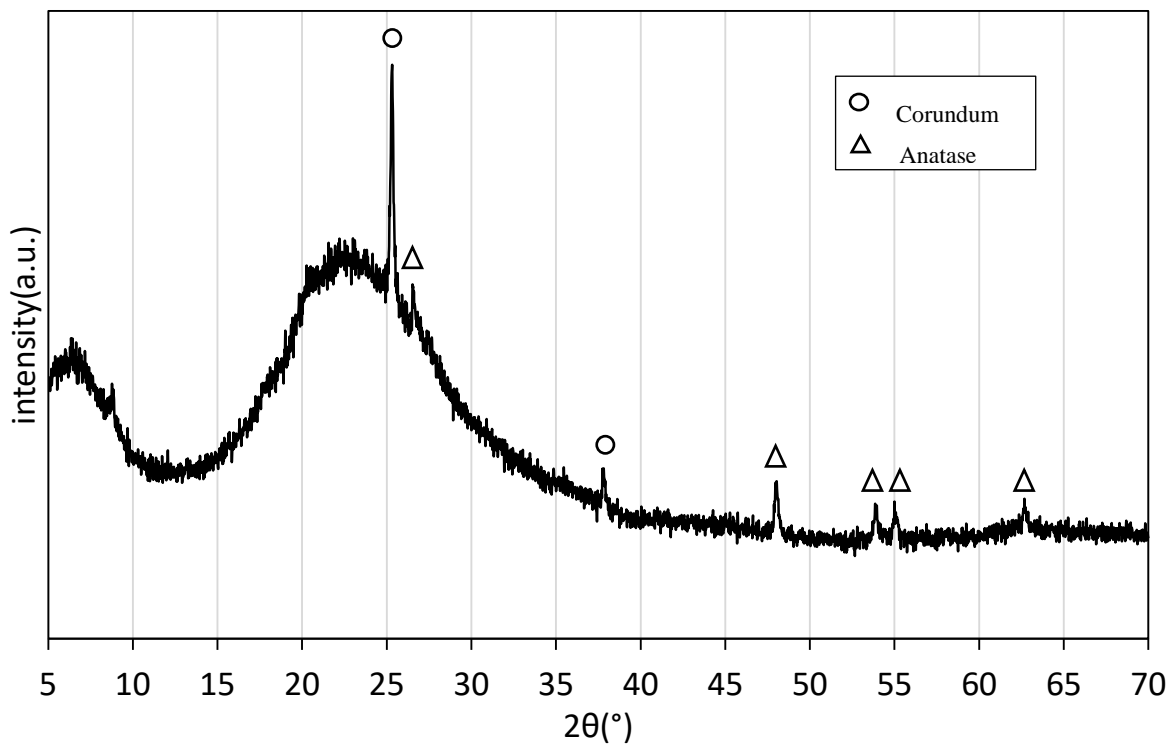


Figure 1

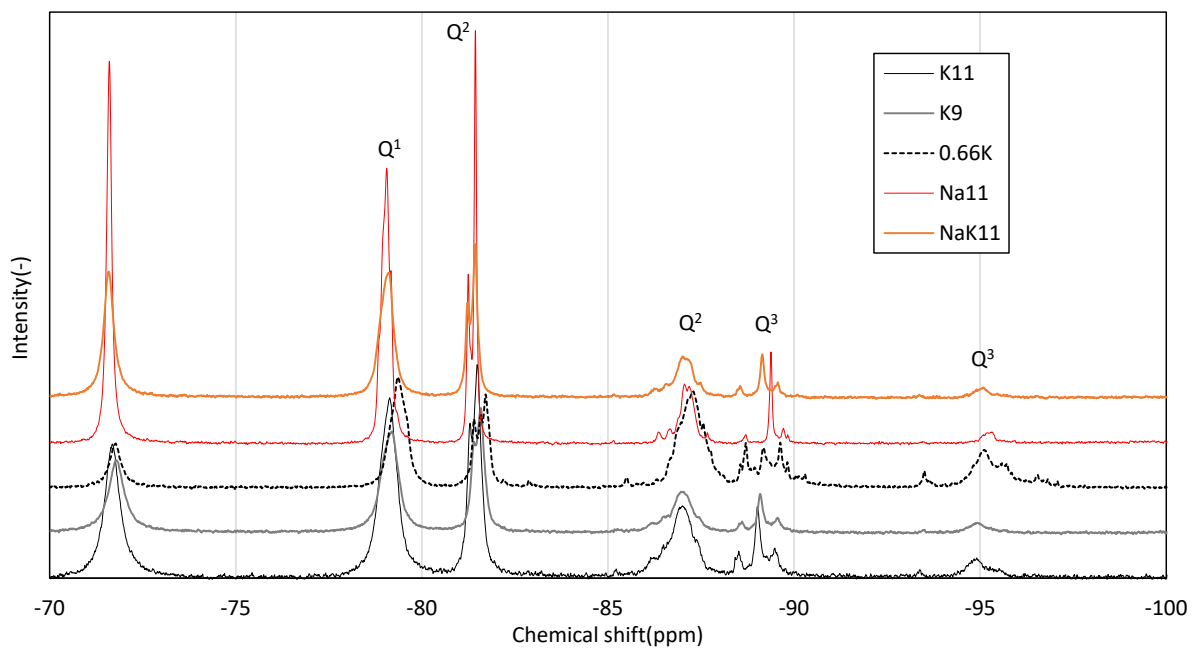


Figure 2

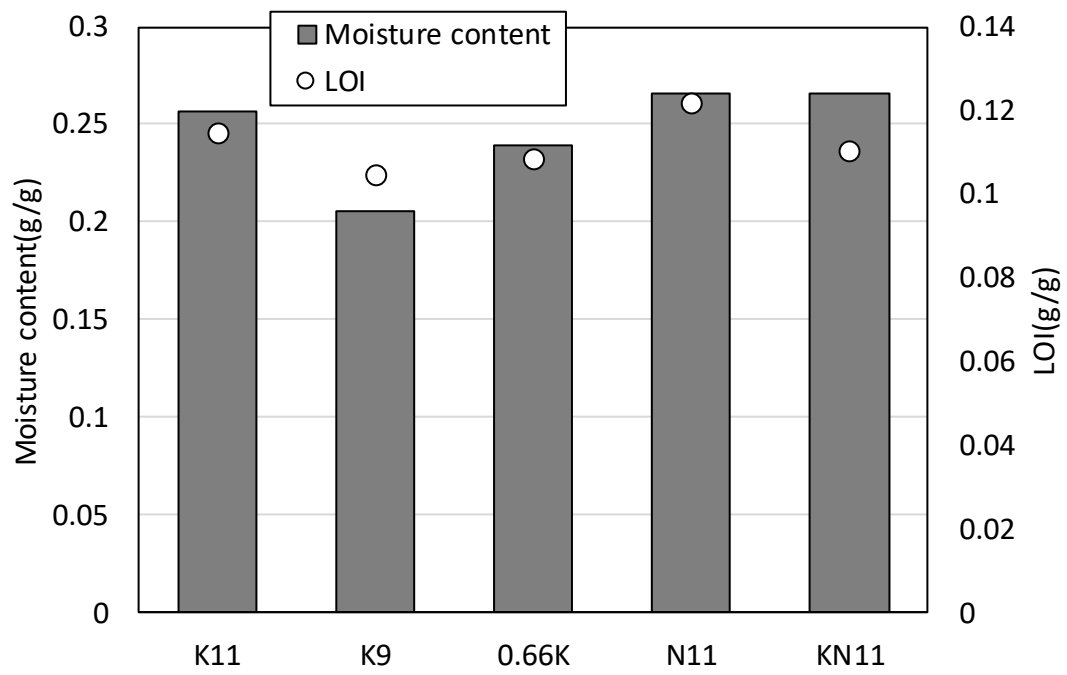


Figure 3

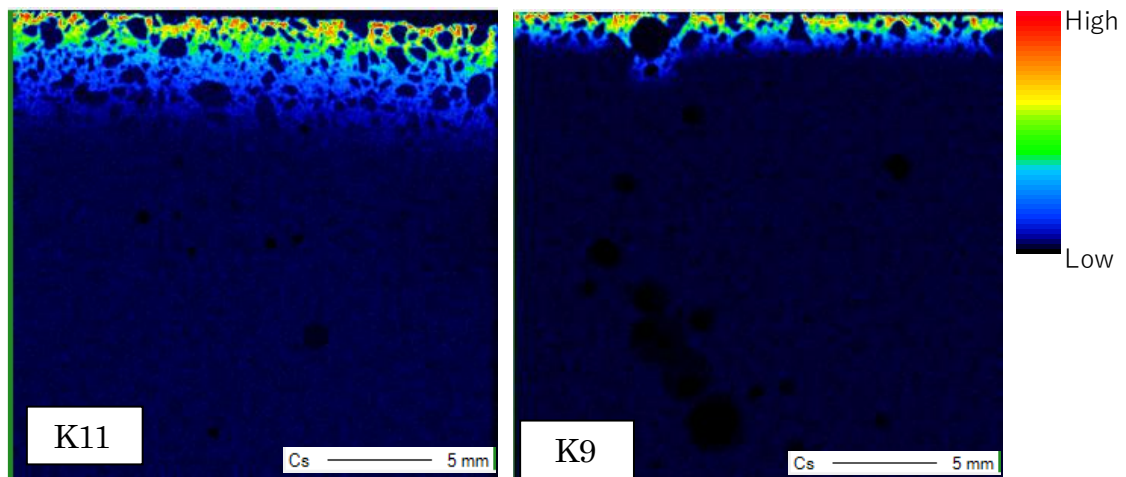


Figure 4

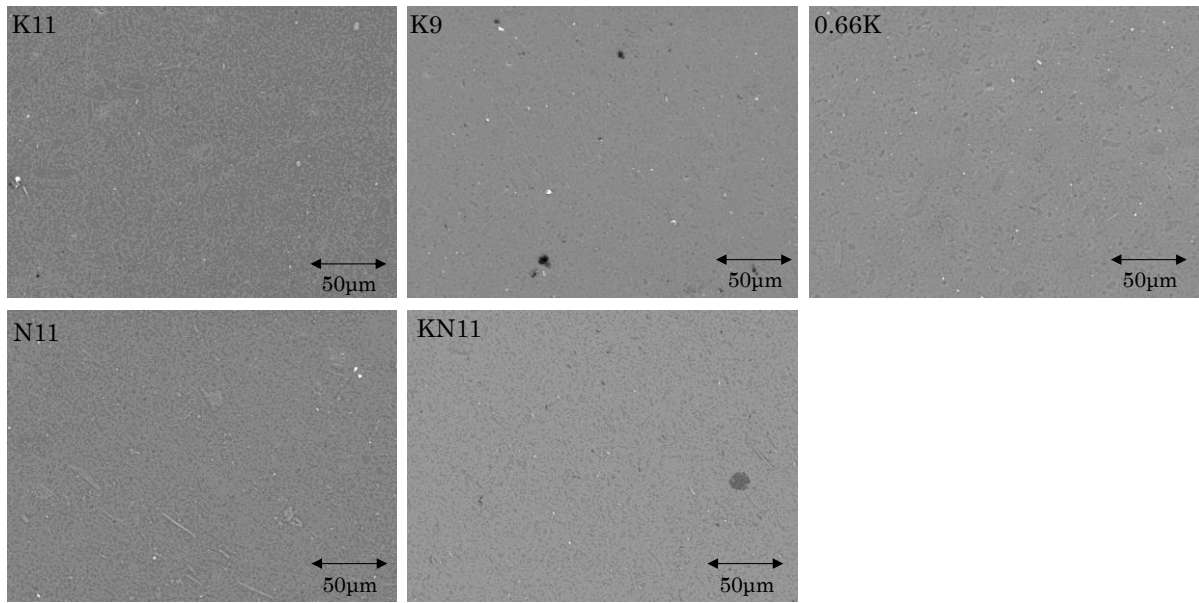


Figure 5