**Supplementary files**

**List of figures**

1. FT-IR analysis for TiO2 / MgMoO4



**Figure S3**: FT-IR analysis for TiO2 / MgMoO4

**List of tables**

1. Quantitative analysis of EDAX

Table S1: Quantitative analysis of EDAX.

|  |  |  |  |
| --- | --- | --- | --- |
| Element | Net Counts | Weight % | Atom % |
| O | 19574 | 23.97 | 47.63 |
| Cl | 28804 | 9.63 | 8.64 |
| Cl | 15 | --- | --- |
| Ti | 39863 | 31.15 | 34.10 |
| Ti | 0 | --- | --- |
| Mo | 32535 | 12.27 | 4.07 |
| Mo | 0 | --- | --- |
| Ba | 23259 | 22.98 | 5.56 |
| Ba | 0 | --- | --- |
| Total |  | 100.00 | 100.00 |