

Table S2. Experimental isotherm data of tungsten removal by delaminated iron-based LDH.

| 25 °C | | | | 45 °C | | | |
|-----------------------|-----------------------|-----------------------|-------|-----------------------|-----------------------|-----------------------|-------|
| c _o (mg/L) | c _e (mg/L) | q _e (mg/g) | R (%) | c _o (mg/L) | c _e (mg/L) | q _e (mg/g) | R (%) |
| 0.0184 | 0.002 | 0.008 | 89.7 | 0.0184 | 0.0007 | 0.009 | 96.2 |
| 0.0919 | 0.004 | 0.044 | 96.2 | 0.0919 | 0.001 | 0.045 | 99.0 |
| 0.184 | 0.003 | 0.090 | 98.4 | 0.184 | 0.001 | 0.091 | 99.2 |
| 0.919 | 0.008 | 0.455 | 99.1 | 0.919 | 0.007 | 0.456 | 99.2 |
| 1.84 | 0.017 | 0.911 | 99.1 | 1.84 | 0.014 | 0.912 | 99.3 |
| 3.68 | 0.032 | 1.82 | 99.1 | 3.68 | 0.038 | 1.82 | 99.0 |
| 9.19 | 0.108 | 4.54 | 98.8 | 9.19 | 0.095 | 4.55 | 99.0 |
| 18.4 | 0.353 | 9.01 | 98.1 | 18.4 | 0.397 | 8.99 | 97.8 |
| 36.8 | 1.77 | 17.5 | 95.2 | 36.8 | 0.943 | 17.9 | 97.4 |
| 91.9 | 14.7 | 38.6 | 84.0 | 91.9 | 12.4 | 39.7 | 86.5 |
| 184 | 72.7 | 55.5 | 60.4 | 184 | 71.8 | 56.0 | 61.0 |
| 368 | 218 | 75.0 | 40.8 | 368 | 184 | 91.7 | 49.9 |
| 919 | 738 | 90.5 | 19.7 | 919 | 719 | 100 | 21.8 |

| 65 °C | | | |
|-----------------------|-----------------------|-----------------------|-------|
| c _o (mg/L) | c _e (mg/L) | q _e (mg/g) | R (%) |
| 0.0184 | 0.0001 | 0.009 | 99.6 |
| 0.0919 | 0.0003 | 0.046 | 99.6 |
| 0.184 | 0.003 | 0.090 | 98.5 |
| 0.919 | 0.004 | 0.457 | 99.5 |
| 1.84 | 0.007 | 0.915 | 99.6 |
| 3.68 | 0.018 | 1.83 | 99.5 |
| 9.19 | 0.061 | 4.56 | 99.3 |
| 18.4 | 0.131 | 9.12 | 99.3 |
| 36.8 | 0.565 | 18.1 | 98.5 |
| 91.9 | 5.81 | 43.0 | 93.7 |
| 184 | 51.0 | 66.4 | 72.3 |
| 368 | 169 | 99.4 | 54.1 |
| 919 | 645 | 137 | 29.8 |