**Table 5.** Modeling results of the strain energy density (J m–3) dissipated per loading–unloading cycle (the values given in parentheses are error percentages of model predictions relative to experimental results).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Specimen no. | Frequency | | | | |
| 0.001 Hz | 0.002 Hz | 0.01 Hz | 0.1 Hz | 0.2 Hz |
| Dry-5ppt-1 | 9.12  (3%) | 5.16  (-5%) | 1.74  (-13%) | 0.69  (3%) | 0.68  (-4%) |
| Dry-5ppt-2 | 5.22  (-3%) | 3.10  (6%) | 1.15  (-27%) | 0.55  (19%) | 0.33  (-8%) |
| Dry-7ppt-1 | 15.1  (5%) | 8.76  (22%) | 2.65  (-8%) | 0.86  (-5%) | 0.79  (20%) |
| Dry-7ppt-2 | 21.9  (5%) | 12.5  (-11%) | 6.44  (-17%) | 2.00  (-20%) | 1.97  (-4%) |
| Floating-5ppt-1 | 27.0  (8%) | 14.9  (-3%) | 4.05  (-15%) | 0.91  (7%) | 0.73  (16%) |
| Floating-5ppt-2 | 30.3  (7%) | 16.8  (4%) | 4.58  (-4%) | 0.89  (-2%) | 0.61  (13%) |
| Floating-7ppt-1 | 125  (-17%) | 68.5  (1%) | 18.6  (-8%) | 3.79  (-2%) | 2.58  (2%) |
| Floating-7ppt-2 | 65.4  (3%) | 36.4  (-5%) | 10.0  (-15%) | 2.18  (-9%) | 1.73  (6%) |

**Table 6.** Modeling results of the strain energy dissipation rate (%) per loading–unloading cycle (the values given in parentheses are error percentages of model predictions relative to experimental results).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Specimen no. | Frequency | | | | |
| 0.001 Hz | 0.002 Hz | 0.01 Hz | 0.1 Hz | 0.2 Hz |
| Dry-5ppt-1 | 49.2  (19%) | 36.7  (-9%) | 18.5  (-16%) | 9.43  (-4%) | 9.81  (-1%) |
| Dry-5ppt-2 | 37.4  (6%) | 25.9  (14%) | 13.9  (-21%) | 7.5  (-14%) | 5.70  (4%) |
| Dry-7ppt-1 | 53.1  (-4%) | 41.3  (11%) | 20.2  (-6%) | 8.99  (-18%) | 8.50  (1%) |
| Dry-7ppt-2 | 51.3  (-8%) | 38.9  (-13%) | 25.7  (-20%) | 12.6  (-21%) | 13.9  (-2%) |
| Floating-5ppt-1 | 87.8  (-2%) | 77.1  (1%) | 40.0  (-10%) | 16.0  (3%) | 14.0  (19%) |
| Floating-5ppt-2 | 91.1  (-4%) | 82.0  (17%) | 45.1  (-14%) | 17.6  (1%) | 13.4  (19%) |
| Floating-7ppt-1 | 86.4  (-12%) | 77.4  (-16%) | 59.9  (-15%) | 34.0  (6%) | 28.2  (12%) |
| Floating-7ppt-2 | 94.5  (7%) | 88.3  (16%) | 52.9  (-6%) | 23.8  (-10%) | 20.5  (1%) |