| Trait | Term | Degrees of freedom | Sum of squares | Mean squares | F-statistic | p-value |
| --- | --- | --- | --- | --- | --- | --- |
| Surface area (mm²) | Species | 8 | 3.5e+22 | 4.4e+21 | 9.05 | **<0.001** |
| Residuals | 235 | 1.1e+23 | 4.8e+20 |  |  |
| Surface area:volume (mm²/mL) | Species | 8 | 3.9e+12 | 4.9e+11 | 24.57 | **<0.001** |
| Residuals | 235 | 4.7e+12 | 2.0e+10 |  |  |
| Surface area:dry weight (mm²/dry mg) | Species | 8 | 7.0e+12 | 8.7e+11 | 21.99 | **<0.001** |
| Residuals | 235 | 9.3e+12 | 4.0e+10 |  |  |
| Surface area:perimeter (mm²/mm) | Species | 8 | 29318.68 | 3664.84 | 146.44 | **<0.001** |
| Residuals | 235 | 5881.31 | 25.03 |  |  |