Equation S1-1: $\varepsilon' = 39.068 - (1.091 \times T) - (0.0120 \times f) - (3.043 \times X) + (0.00592 \times T^2) + (0.00000342 \times f^2) + (0.0442 \times X^2)$
+ $(0.000192 \times T \times f)$ + $(0.0589 \times T \times X)$ + $(0.000754 \times f \times X)$ - $(0.0000242 \times T \times f \times X)$
$R^2 = 0.898$
Normality Test: Failed ( $p = < 0.001$ )
Constant Variance Test: Failed ( $p = < 0.001$ )
Equation S1-2: $\sqrt{\varepsilon'}$ = 4.364 - (0.0968 × T) - (0.000945 × f) - (0.228 × X) + (0.000609 × T <sup>2)</sup> + (0.00000381 × f <sup>2)</sup> + (0.00340 × X <sup>2)</sup> + (0.000101 × T × f) + (0.00564 × T × X) + (0.0000411 × f × X) - (0.00000168 × T × f × X)
$R^2 = 0.948$
Normality Test: Failed ( $p = < 0.001$ )
Constant Variance Test: Failed ( $p = < 0.001$ )
Equation S1-3: $\ln(\varepsilon') = 1.437 - (0.0298 \times T) - (0.000352 \times f) - (0.0379 \times X) + (0.000267 \times T^2) + (0.000000204 \times f^2) + (0.000000204 \times f^2) + (0.000000208 \times T \times f) + (0.00000148 \times T \times Y) - (0.00000148 \times f \times Y) - (0.000000282 \times T \times f \times Y)$
$\frac{(0.000799 \times X^{-2} (0.000000000 \times 1 \times )) + (0.00213 \times 1 \times X^{-2} (0.00000149 \times ) \times X) - (0.000000202 \times 1 \times ) \times X)}{R^{2} = 0.960}$
Normality Test: Passed $(n = 0.017)$
Constant Variance Test: Failed) (n = <0.001)
Equation S1-4: $1/s' = 0.560 - (0.00263 \times T) + (0.000684 \times f) - (0.0161 \times X) - (0.0000110 \times T^2) - (0.000000260 \times t^2) + 0.000000260 \times t^2)$
$(0.000117 \times X^2) + (0.000000459 \times T \times f) + (0.00000309 \times T \times X) + (0.00000239 \times f \times X) - (0.000000544 \times T \times f \times X)$
$R^2 = 0.941$
Normality Test: Passed ( $p = 0.039$ )
Constant Variance Test: Passed ( $p = 0.091$ )
Equation S1-5: $\varepsilon' = 59.627 - (1.443 \times T) - (7.004 \times \ln f) - (4.453 \times X) + (0.00581 \times T^2) + (0.379 \times \ln f^2) + (0.0442 \times X^2) + (0.0442 \times X^2)$
$(0.0919 \times T \times \ln f) + (0.104 \times T \times X) + (0.358 \times \ln f \times X) - (0.0115 \times T \times \ln f \times X)$
$R^2 = 0.898$
Normality Test: Failed ( $p = < 0.001$ )
Constant Variance Test (Spearman Rank Correlation): Failed ( $p = < 0.001$ )
Equation S1-6: $\sqrt{\varepsilon'} = 5.492 - (0.115 \times T) - (0.422 \times \ln f) - (0.304 \times X) + (0.000599 \times T^{2)} + (0.0268 \times \ln f^{2)} + (0.00340 \times X^{2)} + (0.00479 \times T \times \ln f) + (0.00871 \times T \times X) + (0.0193 \times \ln f \times X) - (0.000782 \times T \times \ln f \times X)$
$R^2 = 0.964$
Normality Test: Failed ( $p = < 0.001$ )
Constant Variance Test: Failed ( $p = < 0.001$ )
Equation S1-7: $\ln(\varepsilon') = 1.527 - (0.0286 \times T) - (0.0594 \times \ln f) - (0.0354 \times X) + (0.000263 \times T^{2)} + (0.00581 \times \ln f^{2}) + (0.00581 $
$(0.000799 \times X^{2)} - (0.000206 \times T \times \ln f) + (0.00263 \times T \times X) - (0.000603 \times \ln f \times X) - (0.000130 \times T \times \ln f \times X)$
$R^2 = 0.965$
Normality Test: Failed ( $p = 0.002$ )
Constant Variance Test: Failed( $p = < 0.001$ )
Equation S1-8: $1/\varepsilon' = 1.267 - (0.00599 \times T) + (0.0269 \times \ln f) - (0.0356 \times X) - (0.0000162 \times T^2) + (0.00266 \times \ln f^2) + (0.002$
$(0.000245 \times X^{2)} - (0.0000889 \times T \times \ln f + (0.000110 \times T \times X) + (0.000312 \times \ln f \times X) - (0.0000217 \times T \times \ln f \times X) + (0.000312 \times \ln f \times X) - (0.0000217 \times T \times \ln f \times X) + (0.000312 \times \ln $
$R^2 = 0.951$
Normality Test: Failed ( $p = 0.002$ )
Constant Variance Test: Passed ( $p = 0.799$ )

**Table S1.** The relationship between the dielectric constant and the influencing factors and statistical criteria established by regression analysis for chickpea flour.

Equation S2-1: $\varepsilon'' = 130.867 - (3.114 \times T) - (0.0530 \times f) - (11.887 \times X) + (0.0138 \times T^2) + (0.0000984 \times f^2 + (0.208 \times X^2) + (0.00101 \times T \times f) + (0.0167 \times T \times Y) + (0.00371 \times f \times Y) - (0.000105 \times T \times f \times Y)$
$\frac{(0.00101 \times 1 \times ))}{(0.107 \times 1 \times A)} + (0.0071 \times ) \times A) = (0.000105 \times 1 \times ) \times A)$ $R^{2} = 0.688$
Normality Test: Failed $(p = < 0.001)$
Constant Variance Test: Failed ( $p = < 0.001$ )
Equation S2-2: $\sqrt{\epsilon''} = 8.247 - (0.217 \times T) - (0.00321 \times f) - (0.726 \times X) + (0.00107 \times T^2) + (0.00000841 \times f^2) + (0.0127 \times T^2)$
$X^{2)} + (0.0000591 \times T \times f) + (0.0126 \times T \times X) + (0.000208 \times f \times X) - (0.00000676 \times T \times f \times X)$
$R^2 = 0.882$
Normality Test: Failed ( $p = < 0.001$ )
Constant Variance Test: Failed ( $p = < 0.001$ )
eq:eq:eq:eq:eq:eq:eq:eq:eq:eq:eq:eq:eq:e
$(0.00226 \times X^{2)} + (0.00000614 \times T \times f) + (0.00379 \times T \times X) + (0.00000475 \times f \times X) - (0.00000149 \times T \times f \times X)$
$R^2 = 0.941$
Normality Test: Failed ( <i>p</i> = 0.006)
Constant Variance Test: Failed ( $p = < 0.001$ )
Equation S2-4: $1/\varepsilon'' = 15.518 - (0.132 \times T) - (0.00149 \times f) - (0.852 \times X) - (0.000139 \times T^2) - (0.00000000181 \times f^2) + (0.0000000181 \times f^2) + (0.0000000181 \times f^2) + (0.00000000181 \times f^2) + (0.00000000181 \times f^2) + (0.000000000181 \times f^2) + (0.0000000000000000000000000000000000$
$(0.00794 \times X^{2} + (0.0000152 \times I \times f) + (0.00601 \times I \times X) + (0.0000897 \times f \times X) - (0.000000878 \times I \times f \times X)$
$\frac{1}{K^2 = 0.754}$
$\frac{1}{1}$
Constant variance lest: Failed ( $p = < 0.001$ )
Equation 52-5: $\varepsilon$ = 242.855 - (5.054 × 1) - (19.0/1 × X) - (35.980 × ln f) + (0.0134 × 1 <sup>2</sup> ) + (1.707 × ln f <sup>2</sup> ) + (0.208 × X <sup>2</sup> ) + (0.497 × T × ln f) + (0.371 × T × X) + (1.809 × ln f × X) - (0.0511 × T × ln f × X)
$R^2 = 0.774$
Normality Test: Failed ( $p = < 0.001$ )
Constant Variance Test: Failed ( $p = < 0.001$ )
Equation S2-6: $\sqrt{\epsilon''} = 13.821 - (0.321 \times T) - (1.104 \times X) - (1.897 \times \ln f) + (0.00104 \times T^2) + (0.101 \times \ln f^2) + (0.0127 \times X^2) + (0.0274 \times T \times \ln f) + (0.0250 \times T \times X) + (0.0967 \times \ln f \times X) - (0.00315 \times T \times \ln f \times X)$
$R^2 = 0.933$
Normality Test: Failed $(n = < 0.001)$
Constant Variance Test: Failed ( $p = < 0.001$ )
Equation S2–7: $\ln(\varepsilon'') = 3.935 - (0.268 \times T) - (0.339 \times X) - (0.595 \times \ln f) + (0.00300 \times T^2) + (0.0584 \times \ln f^2) + (0.00903 \times X^2) + (0.00888 \times T \times \ln f) + (0.0122 \times T \times X) - (0.000623 \times T \times \ln f \times X) - (0.0000115 \times T^3) - (0.00000589 \times (T \times f^2) - (0.00000191 \times (T \times X)^2))$
$R^2 = 0.962$
Normality Test: Passed ( $p = < 0.001$ )
Constant Variance Test: Passed ( $p = 0.833$ )
Equation S2-8: $1/\varepsilon'' = 18.385 - (0.163 \times T) - (1.007 \times X) - (0.759 \times \ln f) - (0.000139 \times T^2) + (0.00702 \times \ln f^2) + (0.00794 \times X^2) + (0.00760 \times T \times \ln f) + (0.00770 \times T \times X) + (0.0399 \times \ln f \times X) - (0.000424 \times T \times \ln f \times X)$
$R^2 = 0.755$
Normality Test: Failed ( $p = < 0.001$ )
Constant Variance Test: Failed ( $p = < 0.001$ )

**Table S2.** The relationship between the loss factor and the influencing factors and statistical criteria established by regression analysis for chickpea flour.

Equation S3-1: $\varepsilon' = -4.225 + (0.0695 \times T) - (0.000370 \times f) + (0.184 \times X) + (0.0000754 \times T^2) + (0.00000676 \times f^2) - (0.00000878) + (0.00000878 \times T^2) + (0.000000878 \times T^2) + (0.000000878 \times T^2) + (0.000000878 \times T^2) + (0.000000878 \times T^2) + (0.0000000878 \times T^2) + (0.000000878 \times T^2) + (0.000000878 \times T^2) + (0.0000000000000000000000000000000000$
$(0.00167 \times T \times X) - (0.0000281 \times f \times X)$
R <sup>2</sup> = 0.844
Normality Test: Failed $p = <0.001$ )
Constant Variance Test: Failed ( $p = < 0.001$ )
Equation S3-2: $\sqrt{\varepsilon}' = -0.508 + (0.0226 \times T) - (0.000217 \times f) + (0.0569 \times X) + (0.000177 \times T^2) + (0.000000205 \times f^2) - (0.00000205 \times T) + (0.00000205 \times T) + (0.00000205 \times T) + (0.00000205 \times T) + (0.00000205 \times f^2) + (0.0000000000000000000000000000000000$
$(0.00000229 \times 1 \times f) - (0.000543 \times 1 \times X) - (0.00000630 \times f \times X)$
$\frac{1}{1}$
Constant Variance Test: Failed (p = < 0.001)
Equation S2 2: $\ln(c') = 1.600 \pm (0.0205 \times T) = (0.000404 \times 0 \pm (0.0711 \times X) \pm (0.0000160 \times T^2) \pm (0.00000252 \times 0)$
Equation 55-5: $\ln(\epsilon) = -1.099 + (0.0295 \times 1) - (0.000404 \times J) + (0.0711 \times X) + (0.000100 \times 1^{27} + (0.000000232 \times J^{27} - (0.000000232 \times T \times A)))$
$\frac{1}{R^2 - 0.802}$
$R^{-} = 0.072$
$C_{\text{restart Variance Test: Failed } (y = < 0.001)$
Constant variance lest: Failed ( $p = < 0.001$ )
Equation S3-4: $1/\varepsilon = 1.448 - (0.0127 \times 1) + (0.000273 \times f) - (0.0284 \times X) - (0.00000243 \times 1^2) - (0.000000965 \times f^2) + (0.000000524 \times T \times f) + (0.000307 \times T \times X) - (0.000000780 \times f \times X)$
$R^2 = 0.924$
Normality Test: Passed ( $p = 0.139$ )
Constant Variance Test: Failed ( $p = < 0.001$ )
Equation S3-5: $\varepsilon' = -3.421 + (0.0815 \times T) + (0.222 \times X) - (0.590 \times \ln f) + (0.0000754 \times T^2) + (0.0882 \times \ln f^2) - (0.00352 \times T \times \ln f^2) + (0.00352 \times \pi \pi \pi h^2) + (0.00352 \times \pi \pi h^2) + (0.00352 \times \pi \pi h^2) + (0.00352 \times \pi h^2) +$
f) - $(0.00167 \times T \times X) - (0.0113 \times \ln f \times X)$
$R^2 = 0.958$
Normality Test: Failed ( $p = 0.002$ )
Constant Variance Test: Failed ( $p = < 0.001$ )
Equation S3-6: $\sqrt{\varepsilon'} = -0.196 + (0.0257 \times T) + (0.0653 \times X) - (0.185 \times \ln f) + (0.0000177 \times T^{2)} + (0.0231 \times \ln f^{2)} - (0.000904 \times T) + (0$
$(0.000543 \times T \times X) - (0.00249 \times \ln f \times X)$
$R^2 = 0.965$
Normality Test: Passed ( $p = 0.014$ )
Constant Variance Test: Failed ( $p = < 0.001$ )
Equation S3-7: $\ln(\varepsilon') = -1.217 + (0.0325 \times T) + (0.0772 \times X) - (0.240 \times \ln f) + (0.0000160 \times T^2) + (0.0241 \times \ln f^2) - (0.000905 \times T^2) + (0.000905 \times T^2) + (0.0241 \times \ln f^2) + (0.000905 \times T^2) + (0.00090$
$T \times \ln f$ ) - (0.000709 × $T \times X$ ) - (0.00181 × $\ln f \times X$ )
$R^2 = 0.970$
Normality Test: Passed ( $p = 0.028$ )
Constant Variance Test: Failed ( $p = < 0.001$ )
Equation S3-8: $1/\epsilon' = 1.169 - (0.0133 \times T) - (0.0272 \times X) + (0.109 \times \ln f) - (0.00000243 \times T^2) - (0.00626 \times \ln f^2) + (0.000194 \times T) - (0.00194 \times T) - (0.001$
$(0.000307 \times T \times X) - (0.000353 \times \ln f \times X)$
$R^2 = 0.974$
Normality Test: Passed ( $p = 0.095$ )
Constant Variance Test: Passed ( $p = 0.560$ )
Best equation
Equation S3-9: $1/\epsilon' = 1.236 - (0.0136 \times T) - (0.0289 \times X) + (0.0959 \times \ln f) - (0.00626 \times \ln f^2) + (0.000194 \times T \times \ln f) + (0.00194 \times \pi \pi h) + (0.00194 \times \pi h$
$(0.000307 \times T \times X)$
$R^2 = 0.974$
Normality Test: Passed ( <i>p</i> = 0.356)
Constant Variance Test: Passed ( $p = 0.863$ )

**Table S3.** The relationship between the dielectric constant and the influencing factors and statistical criteria established by regression analysis for white bread.

Equation S4-1: $\varepsilon'' = -37.684 + (0.217 \times T) + (0.0107 \times f) + (1.121 \times X) + (0.00164 \times T^{2}) + (0.00000571 \times f^{2}) - (0.000131 \times T \times f) - (0.00542 \times T \times X) - (0.000519 \times f \times X)$
$R^2 = 0.691$
Normality Test: Failed $p = < 0.001$ )
Constant Variance Test: Failed ( $p = < 0.001$ )
Equation S4-2: $\sqrt{\varepsilon''} = -8.171 + (0.0906 \times T) + (0.000577 \times f) + (0.269 \times X) + (0.000169 \times T^{2}) + (0.00000128 \times f^{2}) - (0.0000197 \times T \times f) - (0.00210 \times T \times X) - (0.0000828 \times f \times X)$
$R^2 = 0.845$
Normality Test: Failed ( $p = < 0.001$ )
Constant Variance Test: Failed ( $p = < 0.001$ )
Equation S4-3: $\ln(\varepsilon'') = -9.622 + (0.124 \times T) - (0.00211 \times f) + (0.290 \times X) + (0.0000507 \times T^{2}) + (0.00000139 \times f^{2}) - (0.0000102 \times T \times f) - (0.00291 \times T \times X) - (0.0000345 \times f \times X)$
$R^2 = 0.841$
Normality Test: Failed ( $p = < 0.001$ )
Constant Variance Test: Failed ( $p = < 0.001$ )
Equation S4-4: $1/\varepsilon'' = 6.225 - (0.0903 \times T) + (0.00496 \times f) - (0.159 \times X) + (0.0000207 \times T^{2}) - (0.000000683 \times f^{2}) - (0.00000671 \times T \times f) + (0.00229 \times T \times X) - (0.0000694 \times f \times X)$
$R^2 = 0.960$
Normality Test: Failed ( $p = < 0.001$ )
Constant Variance Test: Failed ( $p = < 0.001$ )
Equation S4-5: $\varepsilon'' = -38.906 + (0.412 \times T) + (1.901 \times X) - (5.157 \times \ln f) + (0.00164 \times T^{2)} + (1.362 \times \ln f^{2)} - (0.0560 \times T \times \ln f) - (0.00542 \times T \times X) - (0.224 \times \ln f \times X)$
$R^2 = 0.920$
Normality Test: Passed ( $p = 0.015$ )
Constant Variance Test: Failed ( $p = < 0.001$ )
Equation S4-6: $\sqrt{\epsilon''} = -8.256 + (0.118 \times T) + (0.386 \times X) - (0.703 \times \ln f) + (0.000169 \times T^{2}) + (0.180 \times \ln f^{2}) - (0.00796 \times T \times \ln f) - (0.00210 \times T \times X) - (0.0342 \times \ln f \times X)$
$R^2 = 0.980$
Normality Test: Passed ( $p = 0.429$ )
Constant Variance Test: Failed ( $p = < 0.001$ )
Equation S4-7: $\ln(\epsilon'') = -8.366 + (0.136 \times T) + (0.336 \times X) - (0.716 \times \ln f) + (0.0000507 \times T^2) + (0.0793 \times \ln f^2) - (0.00369 \times T \times \ln f) - (0.00291 \times T \times X) - (0.0137 \times \ln f \times X)$
$R^2 = 0.993$
Normality Test: Passed ( $p = 0.017$ )
Constant Variance Test: Passed ( $p = 0.985$ )
Equation S4-8: $1/\epsilon'' = 2.285 - (0.0802 \times T) - (0.0725 \times X) + (1.093 \times \ln f) + (0.000207 \times T^{2)} + (0.0344 \times \ln f^{2)} - (0.00291 \times 10^{-1}) + (0.00207 \times T^{2}) + (0.0344 \times \ln f^{2)} - (0.00291 \times 10^{-1}) + (0.000207 \times T^{2}) + (0.0344 \times \ln f^{2}) - (0.00291 \times 10^{-1}) + (0.000207 \times T^{2}) + (0.0344 \times \ln f^{2}) - (0.00291 \times 10^{-1}) + (0.000207 \times T^{2}) + (0.0344 \times \ln f^{2}) - (0.00291 \times 10^{-1}) + (0.000207 \times T^{2}) + (0.0344 \times \ln f^{2}) - (0.00291 \times 10^{-1}) + (0.000207 \times T^{2}) + (0.0344 \times \ln f^{2}) - (0.000291 \times 10^{-1}) + (0.000207 \times T^{2}) + (0.00291 \times 10^{-1}) + (0.000207 \times 10^{-1}) + (0.00291 \times 10^{-1}) + (0.0$
$T \times \ln f$ ) + (0.00229 × T × X) - (0.0262 × ln f × X)
$R^2 = 0.968$
Normality Test: Failed ( $p = < 0.001$ )
Constant Variance Test: Failed ( $p = < 0.001$ )

**Table S4.** The relationship between the loss factor and the influencing factors and statistical criteria established by regression analysis for white bread.

(I) Liquid
Equation S5-1: $\varepsilon' = 191.437 + (0.160 \times T) - (47.142 \times \ln f) + (0.00505 \times T^{2}) + (4.390 \times \ln f^{2}) - (0.134 \times T \times \ln f)$
$R^2 = 0.904$
Normality Test: Passed ( <i>p</i> = 0.420)
Constant Variance Test: Failed ( $p = < 0.001$ )
Equation S5-2: $\sqrt{\epsilon'} = 15.047 + (0.00612 \times T) - (2.528 \times \ln f) + (0.000279 \times T^2) + (0.231 \times \ln f^2) - (0.00716 \times T \times \ln f)$
$R^2 = 0.920$
Normality Test: Passed ( $p = 0.787$ )
Constant Variance Test: Failed ( $p = 0.021$ )
Equation S5-3: $\ln(\varepsilon') = 5.736 + (0.000700 \times T) - (0.548 \times \ln f) + (0.0000632 \times T^{2}) + (0.0490 \times \ln f^{2}) - (0.00155 \times T \times \ln f)$
R <sup>2</sup> = 0.928
Normality Test: Passed $(p = 0.579)$
Constant Variance Test: Passed ( $p = 0.304$ )
Equation S5-4: $1/\epsilon' = -0.00480 + (0.0000107 \times T) + (0.00662 \times \ln f) - (0.00000872 \times T^{2}) - (0.000565 \times \ln f^{2}) + (0.0000193 \times T) + (0.000107 \times T) + (0.000107 \times T) + (0.00000872 \times T^{2}) - (0.000565 \times \ln f^{2}) + (0.0000193 \times T) + (0.0000197 \times T) + (0.00000872 \times T^{2}) - (0.000565 \times \ln f^{2}) + (0.0000193 \times T) + (0.0000197 \times T) + (0.00000872 \times T^{2}) - (0.000565 \times \ln f^{2}) + (0.0000193 \times T) + (0.0000197 \times T) + (0.000000872 \times T^{2}) - (0.000565 \times \ln f^{2}) + (0.0000193 \times T) + (0.00000872 \times T^{2}) - (0.000000872 \times T^{2}) + (0.0000193 \times T) + (0.0000193 \times T) + (0.00000872 \times T^{2}) + (0.0000193 \times T) + (0.0000193 \times T) + (0.00000872 \times T^{2}) + (0.00000872 \times T^{2}) + (0.0000193 \times T) + (0.0000193 \times T) + (0.00000872 \times T^{2}) + (0.0000193 \times T) + (0.0000193 \times T) + (0.00000872 \times T^{2}) + (0.0000193 \times T) + (0.0000193 \times T) + (0.00000872 \times T^{2}) + (0.0000193 \times T) + (0.00000872 \times T^{2}) + (0.000000872 \times T) + (0.00000872 \times T) + (0.0000872 \times T) + (0.000872 \times$
x 1 × In f)
$\frac{K^2 = 0.927}{N_{\rm entropy} = 1.6 \times 0.520}$
Normality Test: Passed ( $p = 0.520$ )
Example a final field of the f
Equation 55-5: $\mathcal{E} = 2238.005 + (12.754 \times 1) - (801.003 \times 10) + (0.0443 \times 1^{2} + (79.932 \times 10)^{2} - (2.615 \times 1 \times 10))$
$\frac{1}{1}$
$\frac{1}{1}$
$E_{\mu} = \frac{1}{2} = \frac{1}{2} \left[ $
Equation S5-6: $\sqrt{\varepsilon}^{2} = 61.699 + (0.243 \times 1) - (18.220 \times \ln f) + (0.000604 \times 1^{2} + (1.445 \times \ln f^{2} - (0.0423 \times 1 \times \ln f))$
$\frac{1}{K^2 = 0.990}$
$\frac{1}{2}$
Example 25.7 $\ln(r') = 0.002 + (0.0115 \text{ w.T}) - (1.222 \text{ w.hr} + 0.000048(\text{ w.T}) + (0.0478 \text{ w.hr} + 0.000124 \text{ w.T}) + r + 0.000124 \text{ w.T} + 1 + 0.000124 \text{ w.T} + 1 + 0.000048(\text{ w.T}) + (0.0478 \text{ w.hr} + 0.000124 \text{ w.T}) + 1 + 0.000048(\text{ w.T}) + (0.0478 \text{ w.hr} + 0.000124 \text{ w.T}) + 1 + 0.000048(\text{ w.T}) + (0.0478 \text{ w.hr} + 0.000124 \text{ w.T}) + 1 + 0.000048(\text{ w.T}) + (0.0478 \text{ w.hr} + 0.000124 \text{ w.T}) + 1 + 0.000048(\text{ w.T}) + (0.0478 \text{ w.hr} + 0.000048(\text{ w.T}) $
Equation 55-7: $\ln(\varepsilon) = 9.692 + (0.0115 \times 1) - (1.322 \times \ln f) + (0.0000486 \times 1^{2} + (0.0478 \times \ln f^{-7} - (0.00124 \times 1 \times \ln f))$
Normality Tast: Passed $(n = 0.777)$
Constant Variance Test: Passed (p = 0.777)
Equation S5.8: $1/c'' = 0.0547 \pm (0.000024 \times T)$ (0.0325 × ln f) (0.00000779 × $T_2^2 \pm (0.00483 \times \ln \theta)$ (0.00000779 × $T_2^2$
Equation 55-6. $1/c = 0.0047 + (0.000424 \times 1) - (0.0020 \times 11)^{-1} + (0.00000777 \times 1^{-1} + (0.00403 \times 11)^{-1} + (0.0000777 \times 1^{-1} + (0.00403 \times 11)^{-1} + (0.0043 \times 11)^{-$
$R^2 = 0.970$
Normality Test: Failed ( $v = < 0.001$ )
Constant Variance Test: Failed ( $v = < 0.001$ )
(II) Precooked
Equation S5-9: $\varepsilon' = 181838 + (0278 \times T) - (39590 \times \ln t) + (000242 \times T^2) + (3427 \times \ln t^2) - (0107 \times T \times \ln t)$
$R^2 = 0.959$
Normality Test: Eailed $(n = < 0.001)$
Constant Variance Test: Failed (n = 0.018)
Example $r \in 10$ , $\sqrt{r} = 14.200 \pm (0.0156 \text{ m/T}) + (0.004 \text{ m/T}) + (0.000127 \text{ m/T}) + (0.170 \text{ m/T}) + (0.000000 \text{ m/T}) + (0.0000000 \text{ m/T}) + (0.00000000000 \text{ m/T}) + (0.0000000000000000000000000000000000$
Equation 55-10: $\sqrt{\epsilon} = 14.398 + (0.0155 \times 1) - (2.094 \times \ln f) + (0.000127 \times 1^{2} + (0.178 \times \ln f^{2} - (0.00606 \times 1 \times \ln f))$
$R^2 = 0.969$
Normality Test Failed: $(p = 0.011)$
Constant Variance Test: Failed ( $p = 0.016$ )
Equation S5-11: $\ln(\varepsilon') = 5.552 + (0.00355 \times T) - (0.443 \times \ln f) + (0.0000269 \times T^{2}) + (0.0372 \times \ln f^{2}) - (0.00140 \times T \times \ln f)$
$R^2 = 0.976$
Normality Test: Passed ( $p = 0.051$ )
Constant Variance Test: Passed ( $p = 0.251$ )
Equation S5-12: $1/\epsilon' = -0.000903 - (0.0000504 \times T) + (0.00494 \times \ln f) - (0.000000317 \times T^2) - (0.000402 \times \ln f^2) + (0.000402 \times \ln f^2) $
$(0.0000201 \times T \times \ln f)$
$R^2 = 0.981$
Normality Test: Passed ( $p = 0.137$ )
Constant Variance Test: Failed ( $p = 0.032$ )
Equation S5-13: $\epsilon'' = 2340.995 + (13.582 \times T) - (896.688 \times \ln t) + (0.0174 \times T^2) + (80.816 \times \ln t^2) - (2.210 \times T \times \ln t)$
$R^2 = 0.964$

Table S5. The relationship between the dielectric properties and the influencing factors and	d
statistical criteria established by regression analysis for two types of egg white.	

Normality Test: Failed ( $p = 0.006$ )
Constant Variance Test: Failed ( $p = < 0.001$ )
Equation S5-14: $\sqrt{\epsilon''} = 63.754 + (0.269 \times T) - (19.051 \times \ln f) + (0.000113 \times T^2) + (1.489 \times \ln f^2) - (0.0368 \times T \times \ln f)$
$R^2 = 0.994$
Normality Test: Passed ( $p = 0.214$ )
Constant Variance Test: Failed ( $p = 0.008$ )
Equation S5-15: $\ln(\epsilon'') = 9.793 + (0.0169 \times T) - (1.403 \times \ln f) - (0.00000389 \times T^{2}) + (0.0553 \times \ln f^{2}) - (0.00113 \times T \times \ln f)$
$R^2 = 0.999$
Normality Test: Passed ( $p = 0.402$ )
Constant Variance Test: Passed ( $p = 0.391$ )
Equation S5-16: $1/\varepsilon'' = 0.0525 + (0.000245 \times T) - (0.0292 \times \ln f) + (0.000000199 \times T^{2}) + (0.00438 \times \ln f^{2}) - (0.0000852 \times T) + (0.0000852 \times T) + (0.0000852 \times T) + (0.0000852 \times T) + (0.00000199 \times T^{2}) + (0.0000852 \times T) + (0.0000852 \times T) + (0.0000852 \times T) + (0.00000199 \times T^{2}) + (0.000438 \times \ln f^{2}) + (0.0000852 \times T) + (0.000852 \times T)$
$\times \ln f$
$R^2 = 0.993$
Normality Test: Passed ( $p = 0.048$ )
Constant Variance Test: Passed ( $p = 0.313$ )