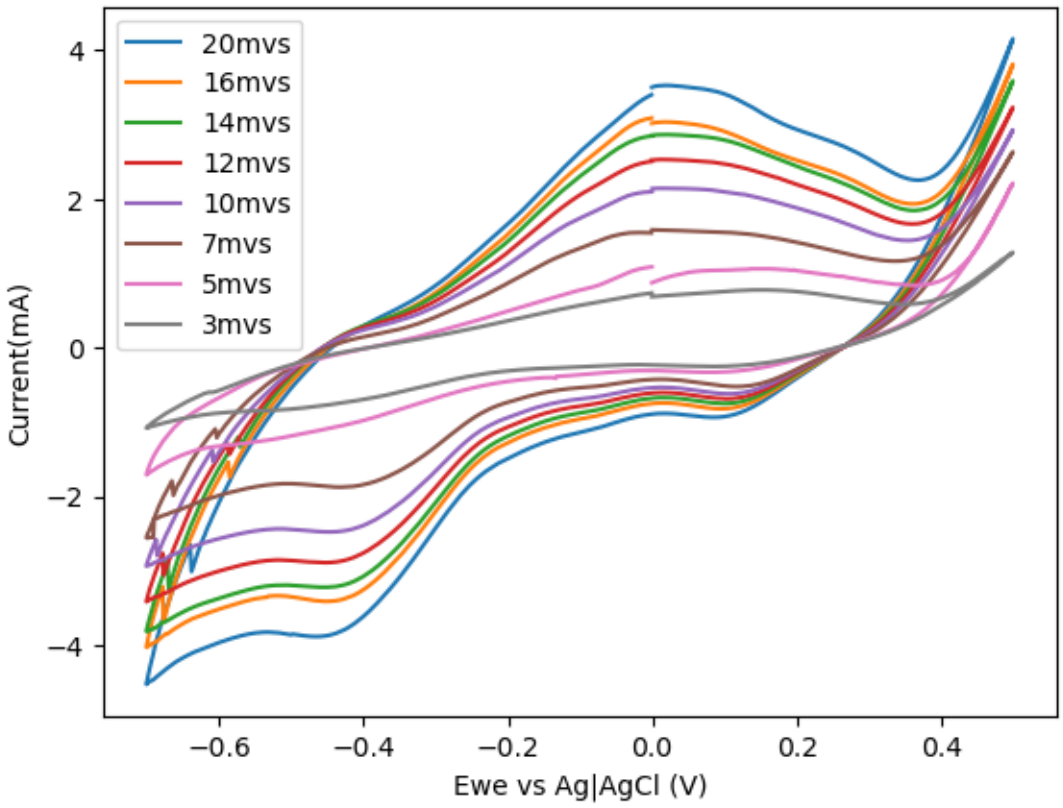
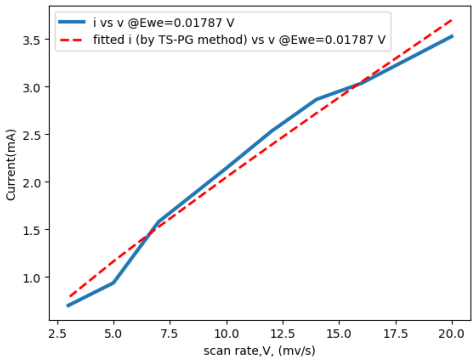


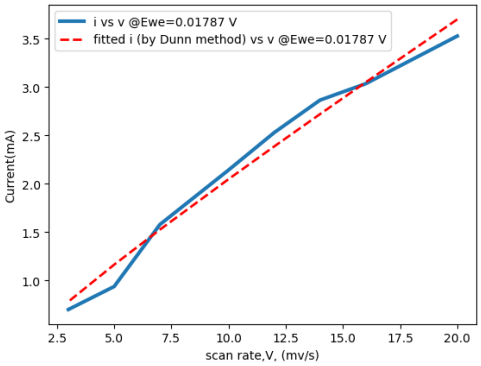
Working Electrode: Cu2O (1.17mg/cm2 loading)

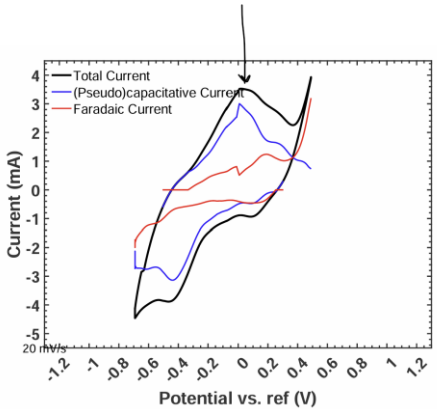
Counter Electrode: Glassy Carbon

Reference Electrode: Ag|AgCl|KCl 3M

Electrolyte: 0.5M H_2SO_4







TS-PG Method @E=0.01787 V:
Fitted parameters:
a = 0.2136 b = 0.1373 c = 0.0000
R-squared: 0.9805

Current Distributions(@20mv/s):
 faradaic(mA) = 0.9553 capacitive(mA) = 2.7459 pseudocapacitive(mA) = 0.0000
Charge Distributions(@20mv/s):
 faradaic(mAs) = 0.8858 capacitive(mAs) = 2.5463 pseudocapacitive(mAs) = 0.0000
 faradaic = 25.8096% capacitive = 74.1904% pseudocapacitive = 0.0000%

Current Distributions(@16mv/s):
 faradaic(mA) = 0.8544 capacitive(mA) = 2.1967 pseudocapacitive(mA) = 0.0000
Charge Distributions(@16mv/s):
 faradaic(mAs) = 0.9903 capacitive(mAs) = 2.5460 pseudocapacitive(mAs) = 0.0000
 faradaic = 28.0030% capacitive = 71.9970% pseudocapacitive = 0.0000%

Current Distributions(@14mv/s):
 faradaic(mA) = 0.7992 capacitive(mA) = 1.9221 pseudocapacitive(mA) = 0.0000
Charge Distributions(@14mv/s):
 faradaic(mAs) = 1.0586 capacitive(mAs) = 2.5459 pseudocapacitive(mAs) = 0.0000
 faradaic = 29.3686% capacitive = 70.6314% pseudocapacitive = 0.0000%

Current Distributions(@12mv/s):
 faradaic(mA) = 0.7399 capacitive(mA) = 1.6475 pseudocapacitive(mA) = 0.0000
Charge Distributions(@12mv/s):
 faradaic(mAs) = 1.1434 capacitive(mAs) = 2.5460 pseudocapacitive(mAs) = 0.0000
 faradaic = 30.9924% capacitive = 69.0076% pseudocapacitive = 0.0000%

Current Distributions(@10mv/s):
 faradaic(mA) = 0.6755 capacitive(mA) = 1.3730 pseudocapacitive(mA) = 0.0000
Charge Distributions(@10mv/s):
 faradaic(mAs) = 1.2830 capacitive(mAs) = 2.6078 pseudocapacitive(mAs) = 0.0000
 faradaic = 32.9751% capacitive = 67.0249% pseudocapacitive = 0.0000%

Current Distributions(@7mv/s):
 faradaic(mA) = 0.5651 capacitive(mA) = 0.9611 pseudocapacitive(mA) = 0.0000
Charge Distributions(@7mv/s):
 faradaic(mAs) = 1.5334 capacitive(mAs) = 2.6078 pseudocapacitive(mAs) = 0.0000
 faradaic = 37.0289% capacitive = 62.9711% pseudocapacitive = 0.0000%

Current Distributions(@5mv/s):
 faradaic(mA) = 0.4776 capacitive(mA) = 0.6865 pseudocapacitive(mA) = 0.0000
Charge Distributions(@5mv/s):
 faradaic(mAs) = 1.7715 capacitive(mAs) = 2.5461 pseudocapacitive(mAs) = 0.0000
 faradaic = 41.0297% capacitive = 58.9703% pseudocapacitive = 0.0000%

Current Distributions(@3mv/s):
 faradaic(mA) = 0.3700 capacitive(mA) = 0.4119 pseudocapacitive(mA) = 0.0000
Charge Distributions(@3mv/s):
 faradaic(mAs) = 2.2869 capacitive(mAs) = 2.5460 pseudocapacitive(mAs) = 0.0000
 faradaic = 47.3194% capacitive = 52.6806% pseudocapacitive = 0.0000%

Dunn Method @E=0.01787 V:
Fitted parameters:
a = 0.2136 b = 0.1373
R-squared: 0.9805

Current Distributions(@20mv/s):
 faradaic(mA) = 0.9553 (pseudo)capacitive(mA) = 2.7459
Charge Distributions(@20mv/s):
 faradaic(mAs) = 0.8858 (pseudo)capacitive(mAs) = 2.5463
 faradaic = 25.8096% (pseudo)capacitive = 74.1904%

Current Distributions(@16mv/s):
 faradaic(mA) = 0.8544 (pseudo)capacitive(mA) = 2.1967
Charge Distributions(@16mv/s):
 faradaic(mAs) = 0.9903 (pseudo)capacitive(mAs) = 2.5460
 faradaic = 28.0030% (pseudo)capacitive = 71.9970%

Current Distributions(@14mv/s):
 faradaic(mA) = 0.7992 (pseudo)capacitive(mA) = 1.9221
Charge Distributions(@14mv/s):
 faradaic(mAs) = 1.0586 (pseudo)capacitive(mAs) = 2.5459
 faradaic = 29.3686% (pseudo)capacitive = 70.6314%

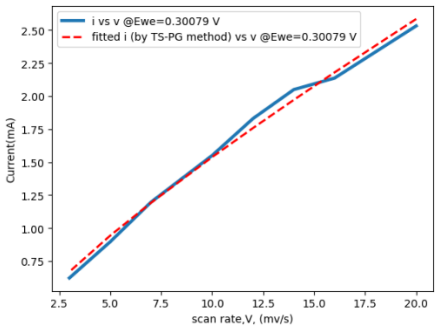
Current Distributions(@12mv/s):
 faradaic(mA) = 0.7399 (pseudo)capacitive(mA) = 1.6475
Charge Distributions(@12mv/s):
 faradaic(mAs) = 1.1434 (pseudo)capacitive(mAs) = 2.5460
 faradaic = 30.9924% (pseudo)capacitive = 69.0076%

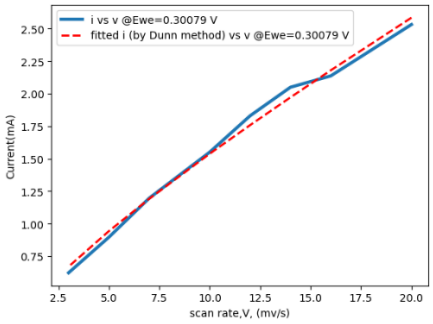
Current Distributions(@10mv/s):
 faradaic(mA) = 0.6755 (pseudo)capacitive(mA) = 1.3730
Charge Distributions(@10mv/s):
 faradaic(mAs) = 1.2830 (pseudo)capacitive(mAs) = 2.6078
 faradaic = 32.9751% (pseudo)capacitive = 67.0249%

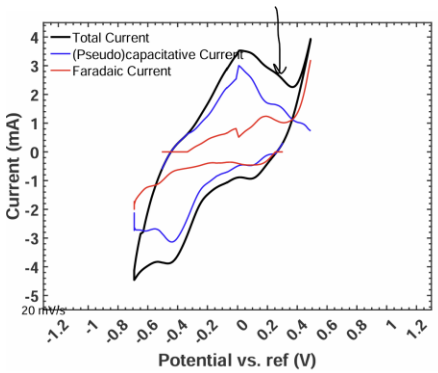
Current Distributions(@7mv/s):
 faradaic(mA) = 0.5651 (pseudo)capacitive(mA) = 0.9611
Charge Distributions(@7mv/s):
 faradaic(mAs) = 1.5334 (pseudo)capacitive(mAs) = 2.6078
 faradaic = 37.0289% (pseudo)capacitive = 62.9711%

Current Distributions(@5mv/s):
 faradaic(mA) = 0.4776 (pseudo)capacitive(mA) = 0.6865
Charge Distributions(@5mv/s):
 faradaic(mAs) = 1.7715 (pseudo)capacitive(mAs) = 2.5461
 faradaic = 41.0297% (pseudo)capacitive = 58.9703%

Current Distributions(@3mv/s):
 faradaic(mA) = 0.3700 (pseudo)capacitive(mA) = 0.4119
Charge Distributions(@3mv/s):
 faradaic(mAs) = 2.2869 (pseudo)capacitive(mAs) = 2.5460
 faradaic = 47.3194% (pseudo)capacitive = 52.6806%







TS-PG Method @E=0.30079 V:
Fitted parameters:
a = 0.2657 b = 0.0698 c = 0.0000
R-squared: 0.9932

Current Distributions(@20mv/s):
 faradaic(mA) = 1.1884 capacitive(mA) = 1.3961 pseudocapacitive(mA) = 0.0000
Charge Distributions(@20mv/s):
 faradaic(mAs) = 17.9123 capacitive(mAs) = 21.0432 pseudocapacitive(mAs) = 0.0000
 faradaic = 45.9814% capacitive = 54.0186% pseudocapacitive = 0.0000%

Current Distributions(@16mv/s):
 faradaic(mA) = 1.0629 capacitive(mA) = 1.1169 pseudocapacitive(mA) = 0.0000
Charge Distributions(@16mv/s):
 faradaic(mAs) = 20.0265 capacitive(mAs) = 21.0432 pseudocapacitive(mAs) = 0.0000
 faradaic = 48.7623% capacitive = 51.2377% pseudocapacitive = 0.0000%

Current Distributions(@14mv/s):
 faradaic(mA) = 0.9943 capacitive(mA) = 0.9773 pseudocapacitive(mA) = 0.0000
Charge Distributions(@14mv/s):
 faradaic(mAs) = 21.4092 capacitive(mAs) = 21.0431 pseudocapacitive(mAs) = 0.0000
 faradaic = 50.4312% capacitive = 49.5688% pseudocapacitive = 0.0000%

Current Distributions(@12mv/s):
 faradaic(mA) = 0.9205 capacitive(mA) = 0.8377 pseudocapacitive(mA) = 0.0000
Charge Distributions(@12mv/s):
 faradaic(mAs) = 23.1246 capacitive(mAs) = 21.0431 pseudocapacitive(mAs) = 0.0000
 faradaic = 52.3563% capacitive = 47.6437% pseudocapacitive = 0.0000%

Current Distributions(@10mv/s):
 faradaic(mA) = 0.8403 capacitive(mA) = 0.6981 pseudocapacitive(mA) = 0.0000
Charge Distributions(@10mv/s):
 faradaic(mAs) = 25.3696 capacitive(mAs) = 21.0746 pseudocapacitive(mAs) = 0.0000
 faradaic = 54.6238% capacitive = 45.3762% pseudocapacitive = 0.0000%

Current Distributions(@7mv/s):
 faradaic(mA) = 0.7031 capacitive(mA) = 0.4886 pseudocapacitive(mA) = 0.0000
Charge Distributions(@7mv/s):
 faradaic(mAs) = 30.3224 capacitive(mAs) = 21.0746 pseudocapacitive(mAs) = 0.0000
 faradaic = 58.9965% capacitive = 41.0035% pseudocapacitive = 0.0000%

Current Distributions(@5mv/s):
 faradaic(mA) = 0.5942 capacitive(mA) = 0.3490 pseudocapacitive(mA) = 0.0000
Charge Distributions(@5mv/s):
 faradaic(mAs) = 35.8245 capacitive(mAs) = 21.0432 pseudocapacitive(mAs) = 0.0000
 faradaic = 62.9963% capacitive = 37.0037% pseudocapacitive = 0.0000%

Current Distributions(@3mv/s):
 faradaic(mA) = 0.4603 capacitive(mA) = 0.2094 pseudocapacitive(mA) = 0.0000
Charge Distributions(@3mv/s):
 faradaic(mAs) = 46.2492 capacitive(mAs) = 21.0432 pseudocapacitive(mAs) = 0.0000
 faradaic = 68.7288% capacitive = 31.2712% pseudocapacitive = 0.0000%

Dunn Method @E=0.30079 V:
Fitted parameters:
a = 0.2657 b = 0.0698
R-squared: 0.9932

Current Distributions(@20mv/s):
 faradaic(mA) = 1.1884 (pseudo)capacitive(mA) = 1.3961
Charge Distributions(@20mv/s):
 faradaic(mAs) = 17.9123 (pseudo)capacitive(mAs) = 21.0432
 faradaic = 45.9814% (pseudo)capacitive = 54.0186%

Current Distributions(@16mv/s):
 faradaic(mA) = 1.0629 (pseudo)capacitive(mA) = 1.1169
Charge Distributions(@16mv/s):
 faradaic(mAs) = 20.0265 (pseudo)capacitive(mAs) = 21.0432
 faradaic = 48.7623% (pseudo)capacitive = 51.2377%

Current Distributions(@14mv/s):
 faradaic(mA) = 0.9943 (pseudo)capacitive(mA) = 0.9773
Charge Distributions(@14mv/s):
 faradaic(mAs) = 21.4092 (pseudo)capacitive(mAs) = 21.0431
 faradaic = 50.4312% (pseudo)capacitive = 49.5688%

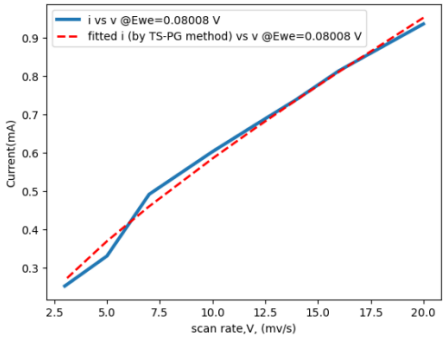
Current Distributions(@12mv/s):
 faradaic(mA) = 0.9205 (pseudo)capacitive(mA) = 0.8377
Charge Distributions(@12mv/s):
 faradaic(mAs) = 23.1246 (pseudo)capacitive(mAs) = 21.0431
 faradaic = 52.3563% (pseudo)capacitive = 47.6437%

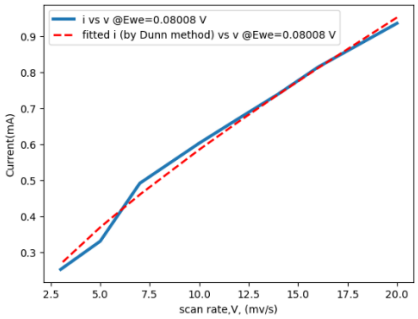
Current Distributions(@10mv/s):
 faradaic(mA) = 0.8403 (pseudo)capacitive(mA) = 0.6981
Charge Distributions(@10mv/s):
 faradaic(mAs) = 25.3696 (pseudo)capacitive(mAs) = 21.0746
 faradaic = 54.6238% (pseudo)capacitive = 45.3762%

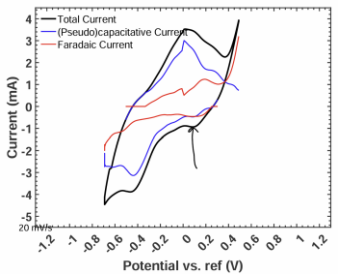
Current Distributions(@7mv/s):
 faradaic(mA) = 0.7031 (pseudo)capacitive(mA) = 0.4886
Charge Distributions(@7mv/s):
 faradaic(mAs) = 30.3224 (pseudo)capacitive(mAs) = 21.0746
 faradaic = 58.9965% (pseudo)capacitive = 41.0035%

Current Distributions(@5mv/s):
 faradaic(mA) = 0.5942 (pseudo)capacitive(mA) = 0.3490
Charge Distributions(@5mv/s):
 faradaic(mAs) = 35.8245 (pseudo)capacitive(mAs) = 21.0432
 faradaic = 62.9963% (pseudo)capacitive = 37.0037%

Current Distributions(@3mv/s):
 faradaic(mA) = 0.4603 (pseudo)capacitive(mA) = 0.2094
Charge Distributions(@3mv/s):
 faradaic(mAs) = 46.2492 (pseudo)capacitive(mAs) = 21.0432
 faradaic = 68.7288% (pseudo)capacitive = 31.2712%







TS-PG Method @E=0.08008 V:
Fitted parameters:
a = 0.1174 b = 0.0214 c = 0.0000
R-squared: 0.9913

Current Distributions(@20mv/s):
 faradaic(mA) = 0.5250 capacitive(mA) = 0.4272 pseudocapacitive(mA) = 0.0000
Charge Distributions(@20mv/s):
 faradaic(mAs) = 24.1260 capacitive(mAs) = 19.6337 pseudocapacitive(mAs) = 0.0000
 faradaic = 55.1329% capacitive = 44.8671% pseudocapacitive = 0.0000%

Current Distributions(@16mv/s):
 faradaic(mA) = 0.4695 capacitive(mA) = 0.3418 pseudocapacitive(mA) = 0.0000
Charge Distributions(@16mv/s):
 faradaic(mAs) = 26.9589 capacitive(mAs) = 19.6229 pseudocapacitive(mAs) = 0.0000
 faradaic = 57.8743% capacitive = 42.1257% pseudocapacitive = 0.0000%

Current Distributions(@14mv/s):
 faradaic(mA) = 0.4392 capacitive(mA) = 0.2990 pseudocapacitive(mA) = 0.0000
Charge Distributions(@14mv/s):
 faradaic(mAs) = 28.8203 capacitive(mAs) = 19.6230 pseudocapacitive(mAs) = 0.0000
 faradaic = 59.4929% capacitive = 40.5071% pseudocapacitive = 0.0000%

Current Distributions(@12mv/s):
 faradaic(mA) = 0.4066 capacitive(mA) = 0.2563 pseudocapacitive(mA) = 0.0000
Charge Distributions(@12mv/s):
 faradaic(mAs) = 31.1158 capacitive(mAs) = 19.6144 pseudocapacitive(mAs) = 0.0000
 faradaic = 61.3359% capacitive = 38.6641% pseudocapacitive = 0.0000%

Current Distributions(@10mv/s):
 faradaic(mA) = 0.3712 capacitive(mA) = 0.2136 pseudocapacitive(mA) = 0.0000
Charge Distributions(@10mv/s):
 faradaic(mAs) = 34.0690 capacitive(mAs) = 19.6048 pseudocapacitive(mAs) = 0.0000
 faradaic = 63.4742% capacitive = 36.5258% pseudocapacitive = 0.0000%

Current Distributions(@7mv/s):
 faradaic(mA) = 0.3106 capacitive(mA) = 0.1495 pseudocapacitive(mA) = 0.0000
Charge Distributions(@7mv/s):
 faradaic(mAs) = 40.7246 capacitive(mAs) = 19.6068 pseudocapacitive(mAs) = 0.0000
 faradaic = 67.5014% capacitive = 32.4986% pseudocapacitive = 0.0000%

Current Distributions(@5mv/s):
 faradaic(mA) = 0.2625 capacitive(mA) = 0.1068 pseudocapacitive(mA) = 0.0000
Charge Distributions(@5mv/s):
 faradaic(mAs) = 48.1938 capacitive(mAs) = 19.6100 pseudocapacitive(mAs) = 0.0000
 faradaic = 71.0783% capacitive = 28.9217% pseudocapacitive = 0.0000%

Current Distributions(@3mv/s):
 faradaic(mA) = 0.2033 capacitive(mA) = 0.0641 pseudocapacitive(mA) = 0.0000
Charge Distributions(@3mv/s):
 faradaic(mAs) = 62.1907 capacitive(mAs) = 19.6015 pseudocapacitive(mAs) = 0.0000
 faradaic = 76.0350% capacitive = 23.9650% pseudocapacitive = 0.0000%

Dunn Method @E=0.08008 V:
Fitted parameters:
a = 0.1174 b = 0.0214
R-squared: 0.9913

Current Distributions(@20mv/s):
 faradaic(mA) = 0.5250 (pseudo)capacitive(mA) = 0.4272
Charge Distributions(@20mv/s):
 faradaic(mAs) = 24.1260 (pseudo)capacitive(mAs) = 19.6338
 faradaic = 55.1329% (pseudo)capacitive = 44.8671%

Current Distributions(@16mv/s):
 faradaic(mA) = 0.4695 (pseudo)capacitive(mA) = 0.3418
Charge Distributions(@16mv/s):
 faradaic(mAs) = 26.9589 (pseudo)capacitive(mAs) = 19.6229
 faradaic = 57.8742% (pseudo)capacitive = 42.1258%

Current Distributions(@14mv/s):
 faradaic(mA) = 0.4392 (pseudo)capacitive(mA) = 0.2990
Charge Distributions(@14mv/s):
 faradaic(mAs) = 28.8203 (pseudo)capacitive(mAs) = 19.6230
 faradaic = 59.4929% (pseudo)capacitive = 40.5071%

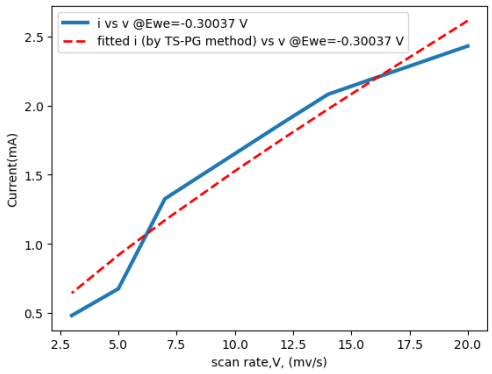
Current Distributions(@12mv/s):
 faradaic(mA) = 0.4066 (pseudo)capacitive(mA) = 0.2563
Charge Distributions(@12mv/s):
 faradaic(mAs) = 31.1158 (pseudo)capacitive(mAs) = 19.6144
 faradaic = 61.3359% (pseudo)capacitive = 38.6641%

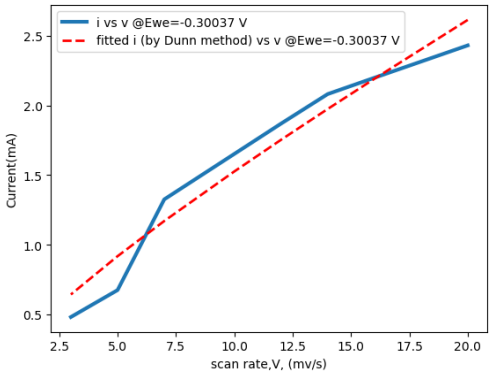
Current Distributions(@10mv/s):
 faradaic(mA) = 0.3712 (pseudo)capacitive(mA) = 0.2136
Charge Distributions(@10mv/s):
 faradaic(mAs) = 34.0690 (pseudo)capacitive(mAs) = 19.6048
 faradaic = 63.4742% (pseudo)capacitive = 36.5258%

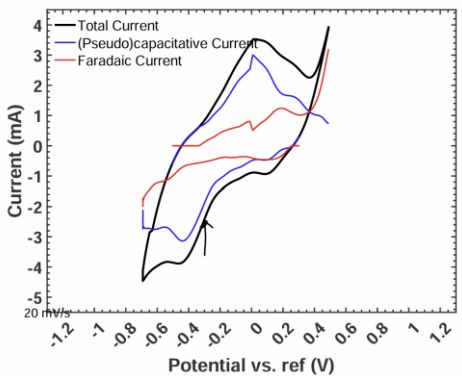
Current Distributions(@7mv/s):
 faradaic(mA) = 0.3106 (pseudo)capacitive(mA) = 0.1495
Charge Distributions(@7mv/s):
 faradaic(mAs) = 40.7245 (pseudo)capacitive(mAs) = 19.6068
 faradaic = 67.5014% (pseudo)capacitive = 32.4986%

Current Distributions(@5mv/s):
 faradaic(mA) = 0.2625 (pseudo)capacitive(mA) = 0.1068
Charge Distributions(@5mv/s):
 faradaic(mAs) = 48.1938 (pseudo)capacitive(mAs) = 19.6100
 faradaic = 71.0783% (pseudo)capacitive = 28.9217%

Current Distributions(@3mv/s):
 faradaic(mA) = 0.2033 (pseudo)capacitive(mA) = 0.0641
Charge Distributions(@3mv/s):
 faradaic(mAs) = 62.1907 (pseudo)capacitive(mAs) = 19.6015
 faradaic = 76.0350% (pseudo)capacitive = 23.9650%

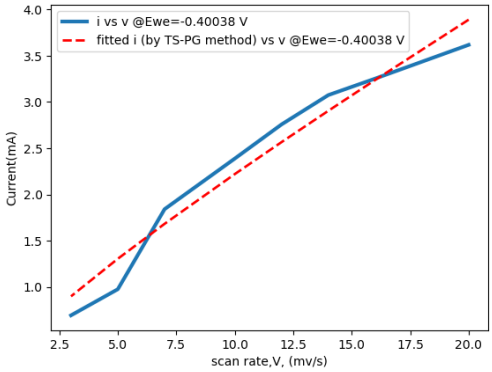


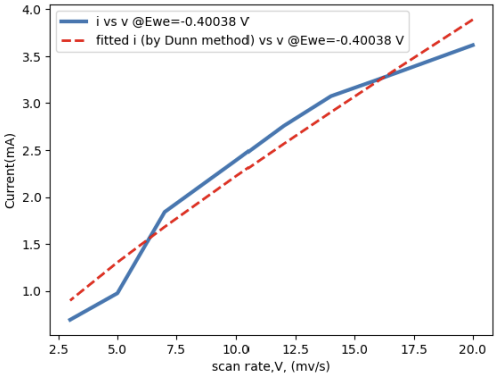


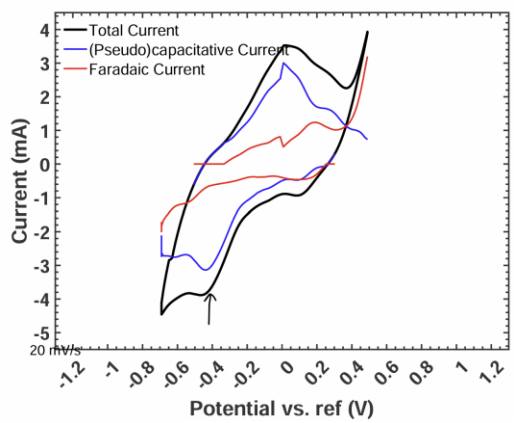



```
TS-PG Method @E=-0.30037 V:
Fitted parameters:
a = 0.2366   b = 0.0777   c = 0.0000
R-squared: 0.9480
--------------------------------------------------------------------------------

Current Distributions(@20mv/s):
 faradaic(mA) = 1.0582     capacitive(mA) = 1.5549   pseudocapacitive(mA) = 0.0000
Charge Distributions(@20mv/s):
 faradaic(mAs) = 68.7636   capacitive(mAs) = 101.0419  pseudocapacitive(mAs) = 0.0000
 faradaic = 40.4955%       capacitive = 59.5045%     pseudocapacitive = 0.0000%
--------------------------------------------------------------------------------

Current Distributions(@16mv/s):
 faradaic(mA) = 0.9465     capacitive(mA) = 1.2439   pseudocapacitive(mA) = 0.0000
Charge Distributions(@16mv/s):
 faradaic(mAs) = 76.8382   capacitive(mAs) = 100.9869  pseudocapacitive(mAs) = 0.0000
 faradaic = 43.2100%       capacitive = 56.7900%     pseudocapacitive = 0.0000%
--------------------------------------------------------------------------------

Current Distributions(@14mv/s):
 faradaic(mA) = 0.8853     capacitive(mA) = 1.0884   pseudocapacitive(mA) = 0.0000
Charge Distributions(@14mv/s):
 faradaic(mAs) = 82.1435   capacitive(mAs) = 100.9869  pseudocapacitive(mAs) = 0.0000
 faradaic = 44.8552%       capacitive = 55.1448%     pseudocapacitive = 0.0000%
--------------------------------------------------------------------------------

Current Distributions(@12mv/s):
 faradaic(mA) = 0.8197     capacitive(mA) = 0.9329   pseudocapacitive(mA) = 0.0000
Charge Distributions(@12mv/s):
 faradaic(mAs) = 88.6909   capacitive(mAs) = 100.9480  pseudocapacitive(mAs) = 0.0000
 faradaic = 46.7683%       capacitive = 53.2317%     pseudocapacitive = 0.0000%
--------------------------------------------------------------------------------

Current Distributions(@10mv/s):
 faradaic(mA) = 0.7483     capacitive(mA) = 0.7775   pseudocapacitive(mA) = 0.0000
Charge Distributions(@10mv/s):
 faradaic(mAs) = 97.1223   capacitive(mAs) = 100.9130  pseudocapacitive(mAs) = 0.0000
 faradaic = 49.0429%       capacitive = 50.9571%     pseudocapacitive = 0.0000%
--------------------------------------------------------------------------------

Current Distributions(@7mv/s):
 faradaic(mA) = 0.6260     capacitive(mA) = 0.5442   pseudocapacitive(mA) = 0.0000
Charge Distributions(@7mv/s):
 faradaic(mAs) = 116.0831   capacitive(mAs) = 100.9128  pseudocapacitive(mAs) = 0.0000
 faradaic = 53.4955%       capacitive = 46.5045%     pseudocapacitive = 0.0000%
--------------------------------------------------------------------------------

Current Distributions(@5mv/s):
 faradaic(mA) = 0.5291     capacitive(mA) = 0.3887   pseudocapacitive(mA) = 0.0000
Charge Distributions(@5mv/s):
 faradaic(mAs) = 137.3461   capacitive(mAs) = 100.9088  pseudocapacitive(mAs) = 0.0000
 faradaic = 57.6467%       capacitive = 42.3533%     pseudocapacitive = 0.0000%
--------------------------------------------------------------------------------

Current Distributions(@3mv/s):
 faradaic(mA) = 0.4098     capacitive(mA) = 0.2332   pseudocapacitive(mA) = 0.0000
Charge Distributions(@3mv/s):
 faradaic(mAs) = 177.2581   capacitive(mAs) = 100.8776  pseudocapacitive(mAs) = 0.0000
 faradaic = 63.7308%       capacitive = 36.2692%     pseudocapacitive = 0.0000%
--------------------------------------------------------------------------------
```

```
Dunn Method @E=-0.30037 V:
Fitted parameters:
a = 0.2366   b = 0.0777
R-squared: 0.9480
------------------------------------------------------------

Current Distributions(@20mv/s):
 faradaic(mA) = 1.0582     (pseudo)capacitive(mA) = 1.5549
Charge Distributions(@20mv/s):
 faradaic(mAs) = 68.7636   (pseudo)capacitive(mAs) = 101.0419
 faradaic = 40.4955%       (pseudo)capacitive = 59.5045%
------------------------------------------------------------

Current Distributions(@16mv/s):
 faradaic(mA) = 0.9465     (pseudo)capacitive(mA) = 1.2439
Charge Distributions(@16mv/s):
 faradaic(mAs) = 76.8382   (pseudo)capacitive(mAs) = 100.9869
 faradaic = 43.2100%       (pseudo)capacitive = 56.7900%
------------------------------------------------------------

Current Distributions(@14mv/s):
 faradaic(mA) = 0.8853     (pseudo)capacitive(mA) = 1.0884
Charge Distributions(@14mv/s):
 faradaic(mAs) = 82.1435   (pseudo)capacitive(mAs) = 100.9869
 faradaic = 44.8552%       (pseudo)capacitive = 55.1448%
------------------------------------------------------------

Current Distributions(@12mv/s):
 faradaic(mA) = 0.8197     (pseudo)capacitive(mA) = 0.9329
Charge Distributions(@12mv/s):
 faradaic(mAs) = 88.6909   (pseudo)capacitive(mAs) = 100.9480
 faradaic = 46.7683%       (pseudo)capacitive = 53.2317%
------------------------------------------------------------

Current Distributions(@10mv/s):
 faradaic(mA) = 0.7483     (pseudo)capacitive(mA) = 0.7775
Charge Distributions(@10mv/s):
 faradaic(mAs) = 97.1223   (pseudo)capacitive(mAs) = 100.9130
 faradaic = 49.0429%       (pseudo)capacitive = 50.9571%
------------------------------------------------------------

Current Distributions(@7mv/s):
 faradaic(mA) = 0.6260     (pseudo)capacitive(mA) = 0.5442
Charge Distributions(@7mv/s):
 faradaic(mAs) = 116.0831   (pseudo)capacitive(mAs) = 100.9128
 faradaic = 53.4955%       (pseudo)capacitive = 46.5045%
------------------------------------------------------------

Current Distributions(@5mv/s):
 faradaic(mA) = 0.5291     (pseudo)capacitive(mA) = 0.3887
Charge Distributions(@5mv/s):
 faradaic(mAs) = 137.3461   (pseudo)capacitive(mAs) = 100.9088
 faradaic = 57.6467%       (pseudo)capacitive = 42.3533%
------------------------------------------------------------

Current Distributions(@3mv/s):
 faradaic(mA) = 0.4098     (pseudo)capacitive(mA) = 0.2332
Charge Distributions(@3mv/s):
 faradaic(mAs) = 177.2581   (pseudo)capacitive(mAs) = 100.8776
 faradaic = 63.7308%       (pseudo)capacitive = 36.2692%
------------------------------------------------------------
```







TS-PG Method @E=-0.40038 V:
Fitted parameters:
a = 0.2974 b = 0.1280 c = 0.0000000000000012341
R-squared: 0.9571

Current Distributions(@20mv/s):
 faradaic(mA) = 1.329976 capacitive(mA) = 2.559509 pseudocapacitive(mA) = 0.000000
Charge Distributions(@20mv/s):
 faradaic(mAs) = 93.072903 capacitive(mAs) = 179.116743 pseudocapacitive(mAs) = 0.000000
 faradaic = 34.194138% capacitive = 65.805862% pseudocapacitive = 0.000000%

Current Distributions(@16mv/s):
 faradaic(mA) = 1.189567 capacitive(mA) = 2.047607 pseudocapacitive(mA) = 0.000000
Charge Distributions(@16mv/s):
 faradaic(mAs) = 104.006061 capacitive(mAs) = 179.026187 pseudocapacitive(mAs) = 0.000000
 faradaic = 36.747071% capacitive = 63.252929% pseudocapacitive = 0.000000%

Current Distributions(@14mv/s):
 faradaic(mA) = 1.112738 capacitive(mA) = 1.791656 pseudocapacitive(mA) = 0.000000
Charge Distributions(@14mv/s):
 faradaic(mAs) = 111.187187 capacitive(mAs) = 179.026239 pseudocapacitive(mAs) = 0.000000
 faradaic = 38.312214% capacitive = 61.687786% pseudocapacitive = 0.000000%

Current Distributions(@12mv/s):
 faradaic(mA) = 1.030195 capacitive(mA) = 1.535705 pseudocapacitive(mA) = 0.000000
Charge Distributions(@12mv/s):
 faradaic(mAs) = 120.053032 capacitive(mAs) = 178.962353 pseudocapacitive(mAs) = 0.000000
 faradaic = 40.149450% capacitive = 59.850550% pseudocapacitive = 0.000000%

Current Distributions(@10mv/s):
 faradaic(mA) = 0.940435 capacitive(mA) = 1.279755 pseudocapacitive(mA) = 0.000000
Charge Distributions(@10mv/s):
 faradaic(mAs) = 131.469040 capacitive(mAs) = 178.904562 pseudocapacitive(mAs) = 0.000000
 faradaic = 42.358319% capacitive = 57.641681% pseudocapacitive = 0.000000%

Current Distributions(@7mv/s):
 faradaic(mA) = 0.786824 capacitive(mA) = 0.895828 pseudocapacitive(mA) = 0.000000
Charge Distributions(@7mv/s):
 faradaic(mAs) = 157.135265 capacitive(mAs) = 178.904229 pseudocapacitive(mAs) = 0.000000
 faradaic = 46.760952% capacitive = 53.239048% pseudocapacitive = 0.000000%

Current Distributions(@5mv/s):
 faradaic(mA) = 0.664988 capacitive(mA) = 0.639877 pseudocapacitive(mA) = 0.000000
Charge Distributions(@5mv/s):
 faradaic(mAs) = 185.918183 capacitive(mAs) = 178.897715 pseudocapacitive(mAs) = 0.000000
 faradaic = 50.962193% capacitive = 49.037807% pseudocapacitive = 0.000000%

Current Distributions(@3mv/s):
 faradaic(mA) = 0.515097 capacitive(mA) = 0.383926 pseudocapacitive(mA) = 0.000000
Charge Distributions(@3mv/s):
 faradaic(mAs) = 239.950405 capacitive(mAs) = 178.846333 pseudocapacitive(mAs) = 0.000000
 faradaic = 57.295194% capacitive = 42.704806% pseudocapacitive = 0.000000%

Dunn Method @E=-0.40038 V:
Fitted parameters:
a = 0.2974 b = 0.1280
R-squared: 0.9571

Current Distributions(@20mv/s):
 faradaic(mA) = 1.329976 (pseudo)capacitive(mA) = 2.559509
Charge Distributions(@20mv/s):
 faradaic(mAs) = 93.072904 (pseudo)capacitive(mAs) = 179.116742
 faradaic = 34.194138% (pseudo)capacitive = 65.805862%

Current Distributions(@16mv/s):
 faradaic(mA) = 1.189567 (pseudo)capacitive(mA) = 2.047607
Charge Distributions(@16mv/s):
 faradaic(mAs) = 104.006061 (pseudo)capacitive(mAs) = 179.026186
 faradaic = 36.747071% (pseudo)capacitive = 63.252929%

Current Distributions(@14mv/s):
 faradaic(mA) = 1.112738 (pseudo)capacitive(mA) = 1.791656
Charge Distributions(@14mv/s):
 faradaic(mAs) = 111.187188 (pseudo)capacitive(mAs) = 179.026238
 faradaic = 38.312214% (pseudo)capacitive = 61.687786%

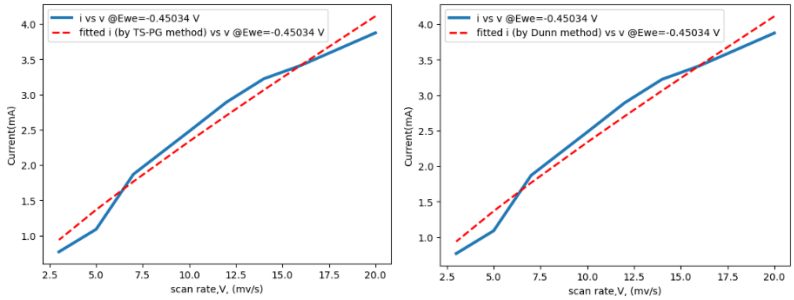
Current Distributions(@12mv/s):
 faradaic(mA) = 1.030195 (pseudo)capacitive(mA) = 1.535705
Charge Distributions(@12mv/s):
 faradaic(mAs) = 120.053033 (pseudo)capacitive(mAs) = 178.962352
 faradaic = 40.149450% (pseudo)capacitive = 59.850550%

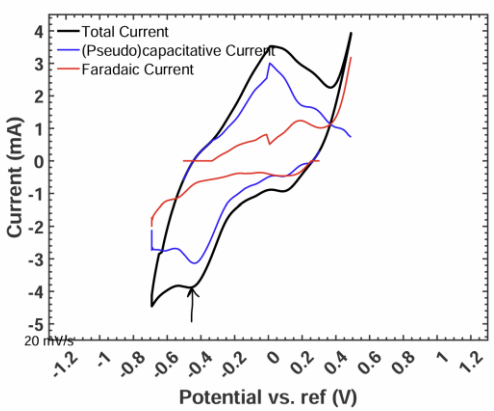
Current Distributions(@10mv/s):
 faradaic(mA) = 0.940435 (pseudo)capacitive(mA) = 1.279755
Charge Distributions(@10mv/s):
 faradaic(mAs) = 131.469041 (pseudo)capacitive(mAs) = 178.904561
 faradaic = 42.358319% (pseudo)capacitive = 57.641681%

Current Distributions(@7mv/s):
 faradaic(mA) = 0.786824 (pseudo)capacitive(mA) = 0.895828
Charge Distributions(@7mv/s):
 faradaic(mAs) = 157.135266 (pseudo)capacitive(mAs) = 178.904228
 faradaic = 46.760952% (pseudo)capacitive = 53.239048%

Current Distributions(@5mv/s):
 faradaic(mA) = 0.664988 (pseudo)capacitive(mA) = 0.639877
Charge Distributions(@5mv/s):
 faradaic(mAs) = 185.918185 (pseudo)capacitive(mAs) = 178.897714
 faradaic = 50.962194% (pseudo)capacitive = 49.037806%

Current Distributions(@3mv/s):
 faradaic(mA) = 0.515097 (pseudo)capacitive(mA) = 0.383926
Charge Distributions(@3mv/s):
 faradaic(mAs) = 239.950408 (pseudo)capacitive(mAs) = 178.846332
 faradaic = 57.295195% (pseudo)capacitive = 42.704805%





TS-PG Method @E=-0.45034 V:
Fitted parameters:
a = 0.3028 b = 0.1378 c = 0.0000000000000091061
R-squared: 0.9711

Current Distributions(@20mv/s):
 faradaic(mA) = 1.354056 capacitive(mA) = 2.755818 pseudocapacitive(mA) = 0.000000
Charge Distributions(@20mv/s):
 faradaic(mAs) = 98.142120 capacitive(mAs) = 199.741955 pseudocapacitive(mAs) = 0.000000
 faradaic = 32.946414% capacitive = 67.053586% pseudocapacitive = 0.000000%

Current Distributions(@16mv/s):
 faradaic(mA) = 1.211105 capacitive(mA) = 2.204654 pseudocapacitive(mA) = 0.000000
Charge Distributions(@16mv/s):
 faradaic(mAs) = 109.672665 capacitive(mAs) = 199.644454 pseudocapacitive(mAs) = 0.000000
 faradaic = 35.456384% capacitive = 64.543616% pseudocapacitive = 0.000000%

Current Distributions(@14mv/s):
 faradaic(mA) = 1.132885 capacitive(mA) = 1.929073 pseudocapacitive(mA) = 0.000000
Charge Distributions(@14mv/s):
 faradaic(mAs) = 117.245059 capacitive(mAs) = 199.644536 pseudocapacitive(mAs) = 0.000000
 faradaic = 36.998709% capacitive = 63.001291% pseudocapacitive = 0.000000%

Current Distributions(@12mv/s):
 faradaic(mA) = 1.048847 capacitive(mA) = 1.653491 pseudocapacitive(mA) = 0.000000
Charge Distributions(@12mv/s):
 faradaic(mAs) = 126.595348 capacitive(mAs) = 199.575503 pseudocapacitive(mAs) = 0.000000
 faradaic = 38.812588% capacitive = 61.187412% pseudocapacitive = 0.000000%

Current Distributions(@10mv/s):
 faradaic(mA) = 0.957462 capacitive(mA) = 1.377909 pseudocapacitive(mA) = 0.000000
Charge Distributions(@10mv/s):
 faradaic(mAs) = 138.635172 capacitive(mAs) = 199.513500 pseudocapacitive(mAs) = 0.000000
 faradaic = 40.998290% capacitive = 59.001710% pseudocapacitive = 0.000000%

Current Distributions(@7mv/s):
 faradaic(mA) = 0.801070 capacitive(mA) = 0.964536 pseudocapacitive(mA) = 0.000000
Charge Distributions(@7mv/s):
 faradaic(mAs) = 165.700449 capacitive(mAs) = 199.513169 pseudocapacitive(mAs) = 0.000000
 faradaic = 45.370830% capacitive = 54.629170% pseudocapacitive = 0.000000%

Current Distributions(@5mv/s):
 faradaic(mA) = 0.677028 capacitive(mA) = 0.688954 pseudocapacitive(mA) = 0.000000
Charge Distributions(@5mv/s):
 faradaic(mAs) = 196.052496 capacitive(mAs) = 199.506128 pseudocapacitive(mAs) = 0.000000
 faradaic = 49.563449% capacitive = 50.436551% pseudocapacitive = 0.000000%

Current Distributions(@3mv/s):
 faradaic(mA) = 0.524424 capacitive(mA) = 0.413373 pseudocapacitive(mA) = 0.000000
Charge Distributions(@3mv/s):
 faradaic(mAs) = 253.032534 capacitive(mAs) = 199.450833 pseudocapacitive(mAs) = 0.000000
 faradaic = 55.920848% capacitive = 44.079152% pseudocapacitive = 0.000000%

Dunn Method @E=-0.45034 V:
Fitted parameters:
a = 0.3028 b = 0.1378
R-squared: 0.9711

Current Distributions(@20mv/s):
 faradaic(mA) = 1.354056 (pseudo)capacitive(mA) = 2.755818
Charge Distributions(@20mv/s):
 faradaic(mAs) = 98.142120 (pseudo)capacitive(mAs) = 199.741955
 faradaic = 32.946414% (pseudo)capacitive = 67.053586%

Current Distributions(@16mv/s):
 faradaic(mA) = 1.211105 (pseudo)capacitive(mA) = 2.204654
Charge Distributions(@16mv/s):
 faradaic(mAs) = 109.672664 (pseudo)capacitive(mAs) = 199.644454
 faradaic = 35.456384% (pseudo)capacitive = 64.543616%

Current Distributions(@14mv/s):
 faradaic(mA) = 1.132885 (pseudo)capacitive(mA) = 1.929073
Charge Distributions(@14mv/s):
 faradaic(mAs) = 117.245058 (pseudo)capacitive(mAs) = 199.644537
 faradaic = 36.998709% (pseudo)capacitive = 63.001291%

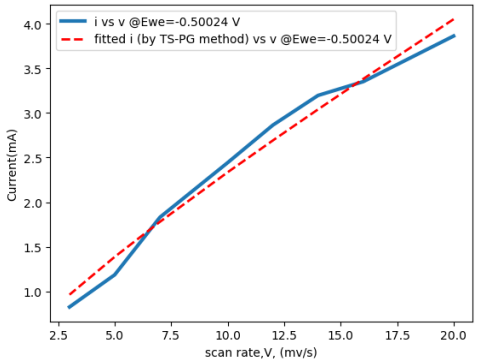
Current Distributions(@12mv/s):
 faradaic(mA) = 1.048847 (pseudo)capacitive(mA) = 1.653491
Charge Distributions(@12mv/s):
 faradaic(mAs) = 126.595348 (pseudo)capacitive(mAs) = 199.575504
 faradaic = 38.812588% (pseudo)capacitive = 61.187412%

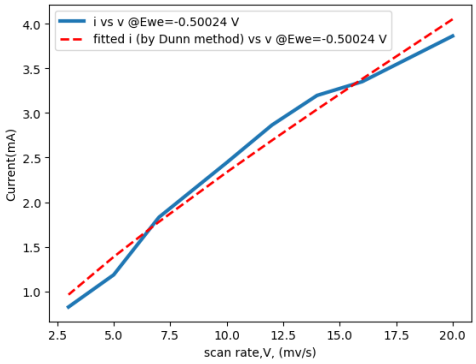
Current Distributions(@10mv/s):
 faradaic(mA) = 0.957462 (pseudo)capacitive(mA) = 1.377909
Charge Distributions(@10mv/s):
 faradaic(mAs) = 138.635171 (pseudo)capacitive(mAs) = 199.513500
 faradaic = 40.998289% (pseudo)capacitive = 59.001711%

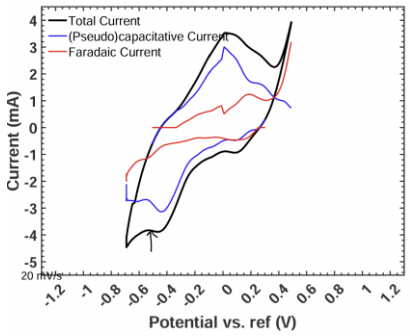
Current Distributions(@7mv/s):
 faradaic(mA) = 0.801070 (pseudo)capacitive(mA) = 0.964536
Charge Distributions(@7mv/s):
 faradaic(mAs) = 165.700448 (pseudo)capacitive(mAs) = 199.513170
 faradaic = 45.370830% (pseudo)capacitive = 54.629170%

Current Distributions(@5mv/s):
 faradaic(mA) = 0.677028 (pseudo)capacitive(mA) = 0.688954
Charge Distributions(@5mv/s):
 faradaic(mAs) = 196.052495 (pseudo)capacitive(mAs) = 199.506129
 faradaic = 49.563449% (pseudo)capacitive = 50.436551%

Current Distributions(@3mv/s):
 faradaic(mA) = 0.524424 (pseudo)capacitive(mA) = 0.413373
Charge Distributions(@3mv/s):
 faradaic(mAs) = 253.032532 (pseudo)capacitive(mAs) = 199.450833
 faradaic = 55.920847% (pseudo)capacitive = 44.079153%

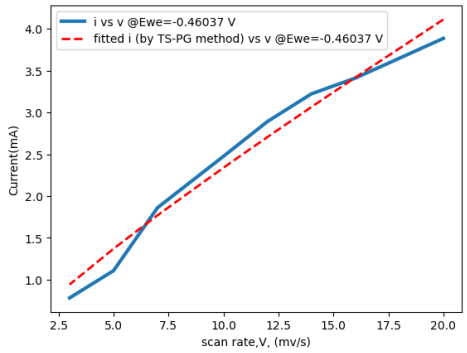


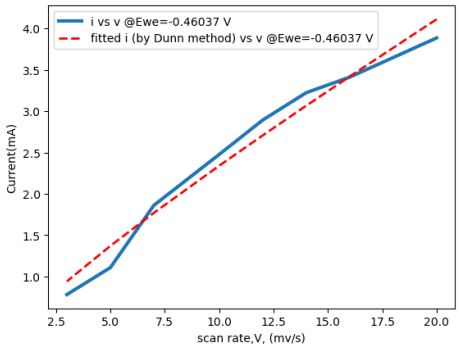


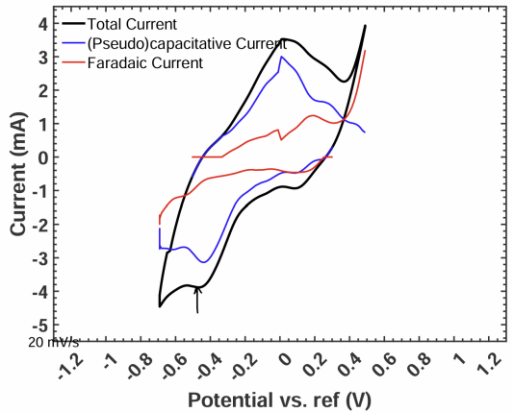



```
TS-PG Method @E=-0.50024 V:
Fitted parameters:
a = 0.3343   b = 0.1278   c = 0.0000000000000000000
R-squared: 0.9799
--------------------------------------------------------------------------------

Current Distributions(@20mv/s):
 faradaic(mA) = 1.494891     capacitive(mA) = 2.556365   pseudocapacitive(mA) = 0.000000
Charge Distributions(@20mv/s):
 faradaic(mAs) = 112.085895   capacitive(mAs) = 191.674486  pseudocapacitive(mAs) = 0.000000
 faradaic = 36.899445%       capacitive = 63.100555%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@16mv/s):
 faradaic(mA) = 1.337071     capacitive(mA) = 2.045092   pseudocapacitive(mA) = 0.000000
Charge Distributions(@16mv/s):
 faradaic(mAs) = 125.256708   capacitive(mAs) = 191.584042  pseudocapacitive(mAs) = 0.000000
 faradaic = 39.533017%       capacitive = 60.466983%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@14mv/s):
 faradaic(mA) = 1.250716     capacitive(mA) = 1.789456   pseudocapacitive(mA) = 0.000000
Charge Distributions(@14mv/s):
 faradaic(mAs) = 133.905000   capacitive(mAs) = 191.583965  pseudocapacitive(mAs) = 0.000000
 faradaic = 41.139643%       capacitive = 58.860357%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@12mv/s):
 faradaic(mA) = 1.157938     capacitive(mA) = 1.533819   pseudocapacitive(mA) = 0.000000
Charge Distributions(@12mv/s):
 faradaic(mAs) = 144.585779   capacitive(mAs) = 191.520184  pseudocapacitive(mAs) = 0.000000
 faradaic = 43.017916%       capacitive = 56.982084%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@10mv/s):
 faradaic(mA) = 1.057048     capacitive(mA) = 1.278183   pseudocapacitive(mA) = 0.000000
Charge Distributions(@10mv/s):
 faradaic(mAs) = 158.338136   capacitive(mAs) = 191.462566  pseudocapacitive(mAs) = 0.000000
 faradaic = 45.265243%       capacitive = 54.734757%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@7mv/s):
 faradaic(mA) = 0.884390     capacitive(mA) = 0.894728   pseudocapacitive(mA) = 0.000000
Charge Distributions(@7mv/s):
 faradaic(mAs) = 189.249904   capacitive(mAs) = 191.462195  pseudocapacitive(mAs) = 0.000000
 faradaic = 49.709453%       capacitive = 50.290547%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@5mv/s):
 faradaic(mA) = 0.747446     capacitive(mA) = 0.639091   pseudocapacitive(mA) = 0.000000
Charge Distributions(@5mv/s):
 faradaic(mAs) = 223.930965   capacitive(mAs) = 191.468573  pseudocapacitive(mAs) = 0.000000
 faradaic = 53.907370%       capacitive = 46.092630%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@3mv/s):
 faradaic(mA) = 0.578969     capacitive(mA) = 0.383455   pseudocapacitive(mA) = 0.000000
Charge Distributions(@3mv/s):
 faradaic(mAs) = 288.996772   capacitive(mAs) = 191.404421  pseudocapacitive(mAs) = 0.000000
 faradaic = 60.157380%       capacitive = 39.842620%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------
```

```
Dunn Method @E=-0.50024 V:
Fitted parameters:
a = 0.3343   b = 0.1278
R-squared: 0.9799
------------------------------------------------------------

Current Distributions(@20mv/s):
 faradaic(mA) = 1.494891     (pseudo)capacitive(mA) = 2.556365
Charge Distributions(@20mv/s):
 faradaic(mAs) = 112.085894   (pseudo)capacitive(mAs) = 191.674487
 faradaic = 36.899445%       (pseudo)capacitive = 63.100555%
------------------------------------------------------------

Current Distributions(@16mv/s):
 faradaic(mA) = 1.337071     (pseudo)capacitive(mA) = 2.045092
Charge Distributions(@16mv/s):
 faradaic(mAs) = 125.256707   (pseudo)capacitive(mAs) = 191.584043
 faradaic = 39.533017%       (pseudo)capacitive = 60.466983%
------------------------------------------------------------

Current Distributions(@14mv/s):
 faradaic(mA) = 1.250716     (pseudo)capacitive(mA) = 1.789456
Charge Distributions(@14mv/s):
 faradaic(mAs) = 133.904999   (pseudo)capacitive(mAs) = 191.583966
 faradaic = 41.139643%       (pseudo)capacitive = 58.860357%
------------------------------------------------------------

Current Distributions(@12mv/s):
 faradaic(mA) = 1.157938     (pseudo)capacitive(mA) = 1.533819
Charge Distributions(@12mv/s):
 faradaic(mAs) = 144.585778   (pseudo)capacitive(mAs) = 191.520184
 faradaic = 43.017915%       (pseudo)capacitive = 56.982085%
------------------------------------------------------------

Current Distributions(@10mv/s):
 faradaic(mA) = 1.057048     (pseudo)capacitive(mA) = 1.278183
Charge Distributions(@10mv/s):
 faradaic(mAs) = 158.338135   (pseudo)capacitive(mAs) = 191.462567
 faradaic = 45.265242%       (pseudo)capacitive = 54.734758%
------------------------------------------------------------

Current Distributions(@7mv/s):
 faradaic(mA) = 0.884390     (pseudo)capacitive(mA) = 0.894728
Charge Distributions(@7mv/s):
 faradaic(mAs) = 189.249903   (pseudo)capacitive(mAs) = 191.462196
 faradaic = 49.709453%       (pseudo)capacitive = 50.290547%
------------------------------------------------------------

Current Distributions(@5mv/s):
 faradaic(mA) = 0.747446     (pseudo)capacitive(mA) = 0.639091
Charge Distributions(@5mv/s):
 faradaic(mAs) = 223.930964   (pseudo)capacitive(mAs) = 191.468574
 faradaic = 53.907370%       (pseudo)capacitive = 46.092630%
------------------------------------------------------------

Current Distributions(@3mv/s):
 faradaic(mA) = 0.578969     (pseudo)capacitive(mA) = 0.383455
Charge Distributions(@3mv/s):
 faradaic(mAs) = 288.996770   (pseudo)capacitive(mAs) = 191.404422
 faradaic = 60.157380%       (pseudo)capacitive = 39.842620%
------------------------------------------------------------
```

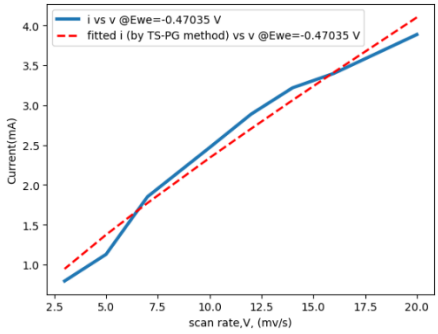


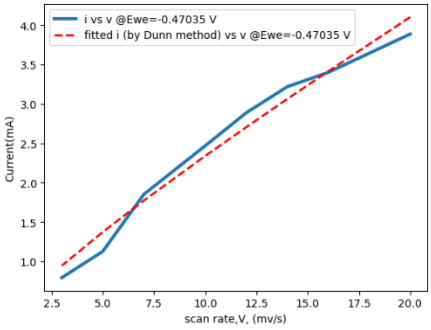


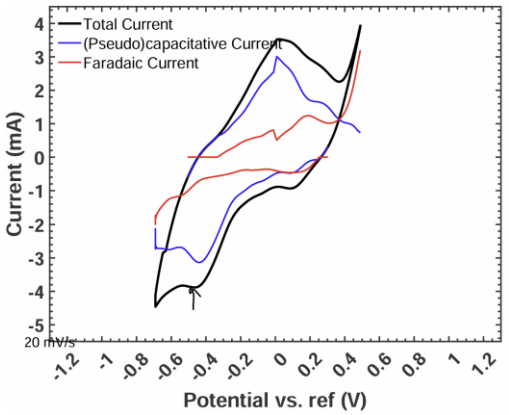



```
TS-PG Method @E=-0.46037 V:
Fitted parameters:
a = 0.3063   b = 0.1371   c = 0.0000000000000026804
R-squared: 0.9734
--------------------------------------------------------------------------------

Current Distributions(@20mv/s):
 faradaic(mA) = 1.369632     capacitive(mA) = 2.741263   pseudocapacitive(mA) = 0.000000
Charge Distributions(@20mv/s):
 faradaic(mAs) = 99.955571   capacitive(mAs) = 200.057097  pseudocapacitive(mAs) = 0.000000
 faradaic = 33.317117%       capacitive = 66.682883%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@16mv/s):
 faradaic(mA) = 1.225036     capacitive(mA) = 2.193010   pseudocapacitive(mA) = 0.000000
Charge Distributions(@16mv/s):
 faradaic(mAs) = 111.699610   capacitive(mAs) = 199.960221  pseudocapacitive(mAs) = 0.000000
 faradaic = 35.840233%       capacitive = 64.159767%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@14mv/s):
 faradaic(mA) = 1.145916     capacitive(mA) = 1.918884   pseudocapacitive(mA) = 0.000000
Charge Distributions(@14mv/s):
 faradaic(mAs) = 119.411889   capacitive(mAs) = 199.960193  pseudocapacitive(mAs) = 0.000000
 faradaic = 37.389583%       capacitive = 62.610417%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@12mv/s):
 faradaic(mA) = 1.060912     capacitive(mA) = 1.644758   pseudocapacitive(mA) = 0.000000
Charge Distributions(@12mv/s):
 faradaic(mAs) = 128.935501   capacitive(mAs) = 199.891854  pseudocapacitive(mAs) = 0.000000
 faradaic = 39.210698%       capacitive = 60.789302%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@10mv/s):
 faradaic(mA) = 0.968476     capacitive(mA) = 1.370632   pseudocapacitive(mA) = 0.000000
Charge Distributions(@10mv/s):
 faradaic(mAs) = 141.197953   capacitive(mAs) = 199.829849  pseudocapacitive(mAs) = 0.000000
 faradaic = 41.403649%       capacitive = 58.596351%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@7mv/s):
 faradaic(mA) = 0.810285     capacitive(mA) = 0.959442   pseudocapacitive(mA) = 0.000000
Charge Distributions(@7mv/s):
 faradaic(mAs) = 168.763555   capacitive(mAs) = 199.829520  pseudocapacitive(mAs) = 0.000000
 faradaic = 45.785872%       capacitive = 54.214128%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@5mv/s):
 faradaic(mA) = 0.684816     capacitive(mA) = 0.685316   pseudocapacitive(mA) = 0.000000
Charge Distributions(@5mv/s):
 faradaic(mAs) = 199.690565   capacitive(mAs) = 199.836359  pseudocapacitive(mAs) = 0.000000
 faradaic = 49.981754%       capacitive = 50.018246%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@3mv/s):
 faradaic(mA) = 0.530456     capacitive(mA) = 0.411189   pseudocapacitive(mA) = 0.000000
Charge Distributions(@3mv/s):
 faradaic(mAs) = 257.710701   capacitive(mAs) = 199.767595  pseudocapacitive(mAs) = 0.000000
 faradaic = 56.332880%       capacitive = 43.667120%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------
```

```
Dunn Method @E=-0.46037 V:
Fitted parameters:
a = 0.3063   b = 0.1371
R-squared: 0.9734
--------------------------------------------------------------

Current Distributions(@20mv/s):
 faradaic(mA) = 1.369632     (pseudo)capacitive(mA) = 2.741263
Charge Distributions(@20mv/s):
 faradaic(mAs) = 99.955571   (pseudo)capacitive(mAs) = 200.057097
 faradaic = 33.317117%       (pseudo)capacitive = 66.682883%
--------------------------------------------------------------

Current Distributions(@16mv/s):
 faradaic(mA) = 1.225036     (pseudo)capacitive(mA) = 2.193010
Charge Distributions(@16mv/s):
 faradaic(mAs) = 111.699609   (pseudo)capacitive(mAs) = 199.960221
 faradaic = 35.840233%       (pseudo)capacitive = 64.159767%
--------------------------------------------------------------

Current Distributions(@14mv/s):
 faradaic(mA) = 1.145916     (pseudo)capacitive(mA) = 1.918884
Charge Distributions(@14mv/s):
 faradaic(mAs) = 119.411889   (pseudo)capacitive(mAs) = 199.960194
 faradaic = 37.389583%       (pseudo)capacitive = 62.610417%
--------------------------------------------------------------

Current Distributions(@12mv/s):
 faradaic(mA) = 1.060912     (pseudo)capacitive(mA) = 1.644758
Charge Distributions(@12mv/s):
 faradaic(mAs) = 128.935501   (pseudo)capacitive(mAs) = 199.891854
 faradaic = 39.210698%       (pseudo)capacitive = 60.789302%
--------------------------------------------------------------

Current Distributions(@10mv/s):
 faradaic(mA) = 0.968476     (pseudo)capacitive(mA) = 1.370632
Charge Distributions(@10mv/s):
 faradaic(mAs) = 141.197952   (pseudo)capacitive(mAs) = 199.829849
 faradaic = 41.403649%       (pseudo)capacitive = 58.596351%
--------------------------------------------------------------

Current Distributions(@7mv/s):
 faradaic(mA) = 0.810285     (pseudo)capacitive(mA) = 0.959442
Charge Distributions(@7mv/s):
 faradaic(mAs) = 168.763554   (pseudo)capacitive(mAs) = 199.829520
 faradaic = 45.785872%       (pseudo)capacitive = 54.214128%
--------------------------------------------------------------

Current Distributions(@5mv/s):
 faradaic(mA) = 0.684816     (pseudo)capacitive(mA) = 0.685316
Charge Distributions(@5mv/s):
 faradaic(mAs) = 199.690565   (pseudo)capacitive(mAs) = 199.836360
 faradaic = 49.981754%       (pseudo)capacitive = 50.018246%
--------------------------------------------------------------

Current Distributions(@3mv/s):
 faradaic(mA) = 0.530456     (pseudo)capacitive(mA) = 0.411189
Charge Distributions(@3mv/s):
 faradaic(mAs) = 257.710701   (pseudo)capacitive(mAs) = 199.767595
 faradaic = 56.332880%       (pseudo)capacitive = 43.667120%
--------------------------------------------------------------
```







TS-PG Method @E=-0.47035 V:
Fitted parameters:
a = 0.3120 b = 0.1353 c = 0.0000000000000003561
R-squared: 0.9755

Current Distributions(@20mv/s):
 faradaic(mA) = 1.395244 capacitive(mA) = 2.705160 pseudocapacitive(mA) = 0.000000
Charge Distributions(@20mv/s):
 faradaic(mAs) = 102.522131 capacitive(mAs) = 198.774335 pseudocapacitive(mAs) = 0.000000
 faradaic = 34.026994% capacitive = 65.973006% pseudocapacitive = 0.000000%

Current Distributions(@16mv/s):
 faradaic(mA) = 1.247944 capacitive(mA) = 2.164128 pseudocapacitive(mA) = 0.000000
Charge Distributions(@16mv/s):
 faradaic(mAs) = 114.568162 capacitive(mAs) = 198.678843 pseudocapacitive(mAs) = 0.000000
 faradaic = 36.574384% capacitive = 63.425616% pseudocapacitive = 0.000000%

Current Distributions(@14mv/s):
 faradaic(mA) = 1.167345 capacitive(mA) = 1.893612 pseudocapacitive(mA) = 0.000000
Charge Distributions(@14mv/s):
 faradaic(mAs) = 122.478550 capacitive(mAs) = 198.678897 pseudocapacitive(mAs) = 0.000000
 faradaic = 38.136606% capacitive = 61.863394% pseudocapacitive = 0.000000%

Current Distributions(@12mv/s):
 faradaic(mA) = 1.080752 capacitive(mA) = 1.623096 pseudocapacitive(mA) = 0.000000
Charge Distributions(@12mv/s):
 faradaic(mAs) = 132.246923 capacitive(mAs) = 198.611268 pseudocapacitive(mAs) = 0.000000
 faradaic = 39.970878% capacitive = 60.029122% pseudocapacitive = 0.000000%

Current Distributions(@10mv/s):
 faradaic(mA) = 0.986587 capacitive(mA) = 1.352580 pseudocapacitive(mA) = 0.000000
Charge Distributions(@10mv/s):
 faradaic(mAs) = 144.824812 capacitive(mAs) = 198.550350 pseudocapacitive(mAs) = 0.000000
 faradaic = 42.176846% capacitive = 57.823154% pseudocapacitive = 0.000000%

Current Distributions(@7mv/s):
 faradaic(mA) = 0.825438 capacitive(mA) = 0.946806 pseudocapacitive(mA) = 0.000000
Charge Distributions(@7mv/s):
 faradaic(mAs) = 173.098404 capacitive(mAs) = 198.549944 pseudocapacitive(mAs) = 0.000000
 faradaic = 46.575857% capacitive = 53.424143% pseudocapacitive = 0.000000%

Current Distributions(@5mv/s):
 faradaic(mA) = 0.697622 capacitive(mA) = 0.676290 pseudocapacitive(mA) = 0.000000
Charge Distributions(@5mv/s):
 faradaic(mAs) = 204.819631 capacitive(mAs) = 198.556572 pseudocapacitive(mAs) = 0.000000
 faradaic = 50.776330% capacitive = 49.223670% pseudocapacitive = 0.000000%

Current Distributions(@3mv/s):
 faradaic(mA) = 0.540376 capacitive(mA) = 0.405774 pseudocapacitive(mA) = 0.000000
Charge Distributions(@3mv/s):
 faradaic(mAs) = 264.330710 capacitive(mAs) = 198.488767 pseudocapacitive(mAs) = 0.000000
 faradaic = 57.113134% capacitive = 42.886866% pseudocapacitive = 0.000000%

Dunn Method @E=-0.47035 V:
Fitted parameters:
a = 0.3120 b = 0.1353
R-squared: 0.9755

Current Distributions(@20mv/s):
 faradaic(mA) = 1.395244 (pseudo)capacitive(mA) = 2.705160
Charge Distributions(@20mv/s):
 faradaic(mAs) = 102.522132 (pseudo)capacitive(mAs) = 198.774334
 faradaic = 34.026995% (pseudo)capacitive = 65.973005%

Current Distributions(@16mv/s):
 faradaic(mA) = 1.247944 (pseudo)capacitive(mA) = 2.164128
Charge Distributions(@16mv/s):
 faradaic(mAs) = 114.568163 (pseudo)capacitive(mAs) = 198.678842
 faradaic = 36.574384% (pseudo)capacitive = 63.425616%

Current Distributions(@14mv/s):
 faradaic(mA) = 1.167345 (pseudo)capacitive(mA) = 1.893612
Charge Distributions(@14mv/s):
 faradaic(mAs) = 122.478551 (pseudo)capacitive(mAs) = 198.678896
 faradaic = 38.136606% (pseudo)capacitive = 61.863394%

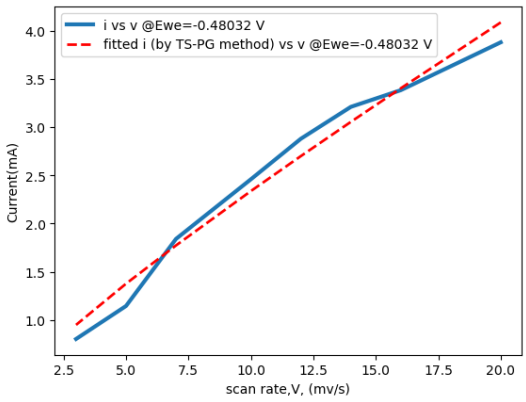
Current Distributions(@12mv/s):
 faradaic(mA) = 1.080752 (pseudo)capacitive(mA) = 1.623096
Charge Distributions(@12mv/s):
 faradaic(mAs) = 132.246924 (pseudo)capacitive(mAs) = 198.611267
 faradaic = 39.970878% (pseudo)capacitive = 60.029122%

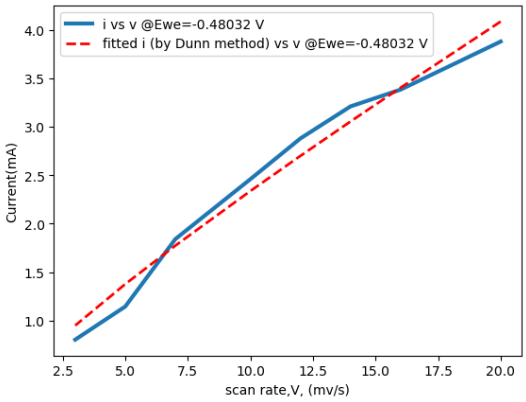
Current Distributions(@10mv/s):
 faradaic(mA) = 0.986587 (pseudo)capacitive(mA) = 1.352580
Charge Distributions(@10mv/s):
 faradaic(mAs) = 144.824813 (pseudo)capacitive(mAs) = 198.550349
 faradaic = 42.176846% (pseudo)capacitive = 57.823154%

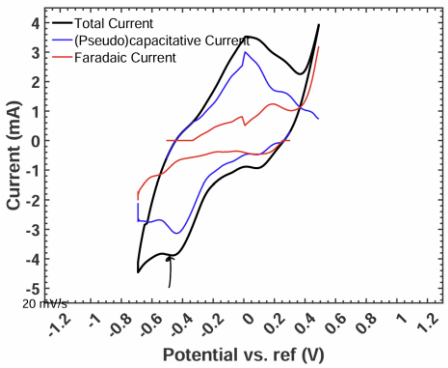
Current Distributions(@7mv/s):
 faradaic(mA) = 0.825438 (pseudo)capacitive(mA) = 0.946806
Charge Distributions(@7mv/s):
 faradaic(mAs) = 173.098406 (pseudo)capacitive(mAs) = 198.549943
 faradaic = 46.575858% (pseudo)capacitive = 53.424142%

Current Distributions(@5mv/s):
 faradaic(mA) = 0.697622 (pseudo)capacitive(mA) = 0.676290
Charge Distributions(@5mv/s):
 faradaic(mAs) = 204.819633 (pseudo)capacitive(mAs) = 198.556571
 faradaic = 50.776330% (pseudo)capacitive = 49.223670%

Current Distributions(@3mv/s):
 faradaic(mA) = 0.540376 (pseudo)capacitive(mA) = 0.405774
Charge Distributions(@3mv/s):
 faradaic(mAs) = 264.330712 (pseudo)capacitive(mAs) = 198.488766
 faradaic = 57.113135% (pseudo)capacitive = 42.886865%

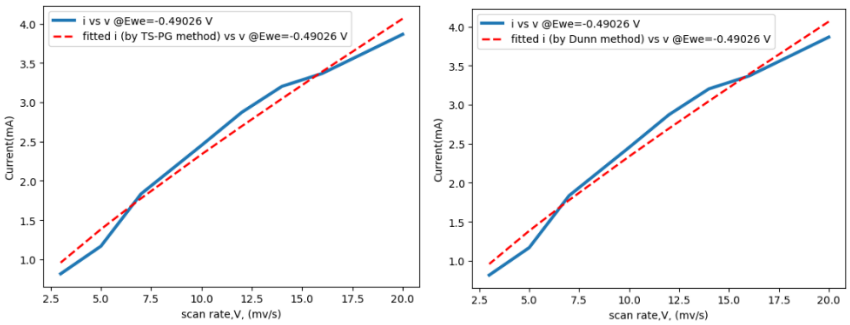


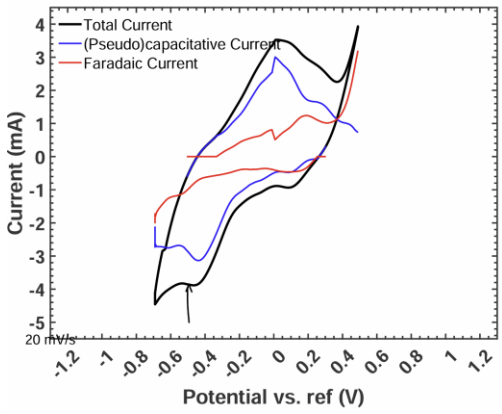





```
TS-PG Method @E=-0.48032 V:
Fitted parameters:
a = 0.3191   b = 0.1328   c = 0.0000000000000000203
R-squared: 0.9771
--------------------------------------------------------------------------------

Current Distributions(@20mv/s):
 faradaic(mA) = 1.426993     capacitive(mA) = 2.656762   pseudocapacitive(mA) = 0.000000
Charge Distributions(@20mv/s):
 faradaic(mAs) = 105.568191   capacitive(mAs) = 196.545934  pseudocapacitive(mAs) = 0.000000
 faradaic = 34.943150%       capacitive = 65.056850%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@16mv/s):
 faradaic(mA) = 1.276341     capacitive(mA) = 2.125410   pseudocapacitive(mA) = 0.000000
Charge Distributions(@16mv/s):
 faradaic(mAs) = 117.972571   capacitive(mAs) = 196.452256  pseudocapacitive(mAs) = 0.000000
 faradaic = 37.520120%       capacitive = 62.479880%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@14mv/s):
 faradaic(mA) = 1.193908     capacitive(mA) = 1.859734   pseudocapacitive(mA) = 0.000000
Charge Distributions(@14mv/s):
 faradaic(mAs) = 126.118069   capacitive(mAs) = 196.452389  pseudocapacitive(mAs) = 0.000000
 faradaic = 39.097836%       capacitive = 60.902164%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@12mv/s):
 faradaic(mA) = 1.105344     capacitive(mA) = 1.594057   pseudocapacitive(mA) = 0.000000
Charge Distributions(@12mv/s):
 faradaic(mAs) = 136.176899   capacitive(mAs) = 196.385784  pseudocapacitive(mAs) = 0.000000
 faradaic = 40.947739%       capacitive = 59.052261%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@10mv/s):
 faradaic(mA) = 1.009036     capacitive(mA) = 1.328381   pseudocapacitive(mA) = 0.000000
Charge Distributions(@10mv/s):
 faradaic(mAs) = 149.128873   capacitive(mAs) = 196.325956  pseudocapacitive(mAs) = 0.000000
 faradaic = 43.168849%       capacitive = 56.831151%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@7mv/s):
 faradaic(mA) = 0.844220     capacitive(mA) = 0.929867   pseudocapacitive(mA) = 0.000000
Charge Distributions(@7mv/s):
 faradaic(mAs) = 178.242818   capacitive(mAs) = 196.325651  pseudocapacitive(mAs) = 0.000000
 faradaic = 47.586178%       capacitive = 52.413822%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@5mv/s):
 faradaic(mA) = 0.713496     capacitive(mA) = 0.664191   pseudocapacitive(mA) = 0.000000
Charge Distributions(@5mv/s):
 faradaic(mAs) = 210.906782   capacitive(mAs) = 196.332200  pseudocapacitive(mAs) = 0.000000
 faradaic = 51.789438%       capacitive = 48.210562%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@3mv/s):
 faradaic(mA) = 0.552672     capacitive(mA) = 0.398514   pseudocapacitive(mA) = 0.000000
Charge Distributions(@3mv/s):
 faradaic(mAs) = 272.187115   capacitive(mAs) = 196.265595  pseudocapacitive(mAs) = 0.000000
 faradaic = 58.103435%       capacitive = 41.896565%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------
```

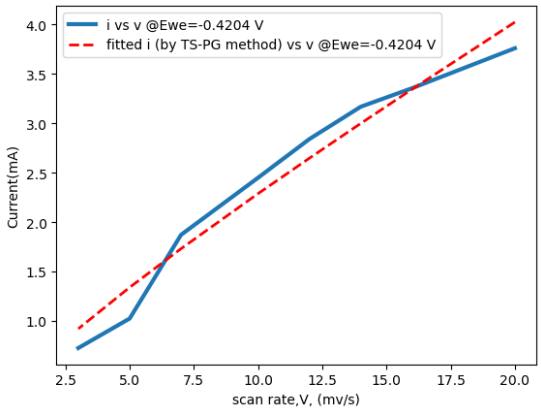
```
Dunn Method @E=-0.48032 V:
Fitted parameters:
a = 0.3191   b = 0.1328
R-squared: 0.9771
--------------------------------------------------------------

Current Distributions(@20mv/s):
 faradaic(mA) = 1.426993     (pseudo)capacitive(mA) = 2.656762
Charge Distributions(@20mv/s):
 faradaic(mAs) = 105.568190   (pseudo)capacitive(mAs) = 196.545935
 faradaic = 34.943149%       (pseudo)capacitive = 65.056851%
--------------------------------------------------------------

Current Distributions(@16mv/s):
 faradaic(mA) = 1.276341     (pseudo)capacitive(mA) = 2.125410
Charge Distributions(@16mv/s):
 faradaic(mAs) = 117.972570   (pseudo)capacitive(mAs) = 196.452257
 faradaic = 37.520119%       (pseudo)capacitive = 62.479881%
--------------------------------------------------------------

Current Distributions(@14mv/s):
 faradaic(mA) = 1.193908     (pseudo)capacitive(mA) = 1.859734
Charge Distributions(@14mv/s):
 faradaic(mAs) = 126.118068   (pseudo)capacitive(mAs) = 196.452390
 faradaic = 39.097836%       (pseudo)capacitive = 60.902164%
--------------------------------------------------------------

Current Distributions(@12mv/s):
 faradaic(mA) = 1.105344     (pseudo)capacitive(mA) = 1.594057
Charge Distributions(@12mv/s):
 faradaic(mAs) = 136.176897   (pseudo)capacitive(mAs) = 196.385785
 faradaic = 40.947738%       (pseudo)capacitive = 59.052262%
--------------------------------------------------------------

Current Distributions(@10mv/s):
 faradaic(mA) = 1.009036     (pseudo)capacitive(mA) = 1.328381
Charge Distributions(@10mv/s):
 faradaic(mAs) = 149.128872   (pseudo)capacitive(mAs) = 196.325957
 faradaic = 43.168849%       (pseudo)capacitive = 56.831151%
--------------------------------------------------------------

Current Distributions(@7mv/s):
 faradaic(mA) = 0.844220     (pseudo)capacitive(mA) = 0.929867
Charge Distributions(@7mv/s):
 faradaic(mAs) = 178.242817   (pseudo)capacitive(mAs) = 196.325652
 faradaic = 47.586178%       (pseudo)capacitive = 52.413822%
--------------------------------------------------------------

Current Distributions(@5mv/s):
 faradaic(mA) = 0.713496     (pseudo)capacitive(mA) = 0.664191
Charge Distributions(@5mv/s):
 faradaic(mAs) = 210.906780   (pseudo)capacitive(mAs) = 196.332201
 faradaic = 51.789438%       (pseudo)capacitive = 48.210562%
--------------------------------------------------------------

Current Distributions(@3mv/s):
 faradaic(mA) = 0.552672     (pseudo)capacitive(mA) = 0.398514
Charge Distributions(@3mv/s):
 faradaic(mAs) = 272.187113   (pseudo)capacitive(mAs) = 196.265596
 faradaic = 58.103435%       (pseudo)capacitive = 41.896565%
--------------------------------------------------------------
```

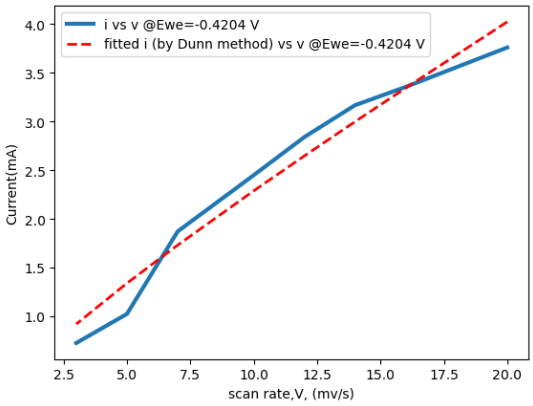


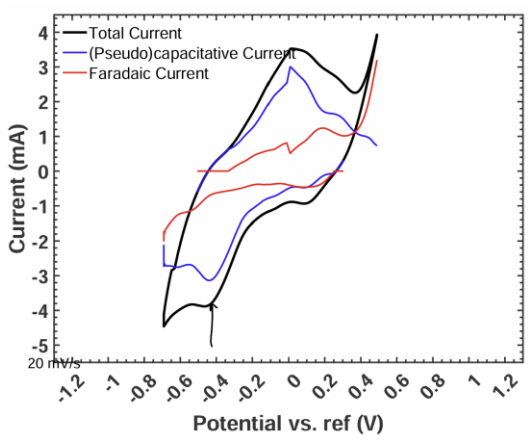



```
TS-PG Method @E=-0.49026 V:
Fitted parameters:
a = 0.3279   b = 0.1299   c = 0.0000000000000000000
R-squared: 0.9783
--------------------------------------------------------------------------------

Current Distributions(@20mv/s):
 faradaic(mA) = 1.466520     capacitive(mA) = 2.597741   pseudocapacitive(mA) = 0.000000
Charge Distributions(@20mv/s):
 faradaic(mAs) = 109.225356   capacitive(mAs) = 193.477940  pseudocapacitive(mAs) = 0.000000
 faradaic = 36.083306%       capacitive = 63.916694%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@16mv/s):
 faradaic(mA) = 1.311695     capacitive(mA) = 2.078193   pseudocapacitive(mA) = 0.000000
Charge Distributions(@16mv/s):
 faradaic(mAs) = 122.059914   capacitive(mAs) = 193.386448  pseudocapacitive(mAs) = 0.000000
 faradaic = 38.694348%       capacitive = 61.305652%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@14mv/s):
 faradaic(mA) = 1.226978     capacitive(mA) = 1.818419   pseudocapacitive(mA) = 0.000000
Charge Distributions(@14mv/s):
 faradaic(mAs) = 130.487554   capacitive(mAs) = 193.386473  pseudocapacitive(mAs) = 0.000000
 faradaic = 40.289601%       capacitive = 59.710399%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@12mv/s):
 faradaic(mA) = 1.135961     capacitive(mA) = 1.558645   pseudocapacitive(mA) = 0.000000
Charge Distributions(@12mv/s):
 faradaic(mAs) = 140.895430   capacitive(mAs) = 193.321660  pseudocapacitive(mAs) = 0.000000
 faradaic = 42.156860%       capacitive = 57.843140%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@10mv/s):
 faradaic(mA) = 1.036986     capacitive(mA) = 1.298871   pseudocapacitive(mA) = 0.000000
Charge Distributions(@10mv/s):
 faradaic(mAs) = 154.296465   capacitive(mAs) = 193.263109  pseudocapacitive(mAs) = 0.000000
 faradaic = 44.394250%       capacitive = 55.605750%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@7mv/s):
 faradaic(mA) = 0.867605     capacitive(mA) = 0.909209   pseudocapacitive(mA) = 0.000000
Charge Distributions(@7mv/s):
 faradaic(mAs) = 184.419103   capacitive(mAs) = 193.262642  pseudocapacitive(mAs) = 0.000000
 faradaic = 48.829234%       capacitive = 51.170766%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@5mv/s):
 faradaic(mA) = 0.733260     capacitive(mA) = 0.649435   pseudocapacitive(mA) = 0.000000
Charge Distributions(@5mv/s):
 faradaic(mAs) = 218.214899   capacitive(mAs) = 193.269084  pseudocapacitive(mAs) = 0.000000
 faradaic = 53.031201%       capacitive = 46.968799%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@3mv/s):
 faradaic(mA) = 0.567981     capacitive(mA) = 0.389661   pseudocapacitive(mA) = 0.000000
Charge Distributions(@3mv/s):
 faradaic(mAs) = 281.619276   capacitive(mAs) = 193.203946  pseudocapacitive(mAs) = 0.000000
 faradaic = 59.310342%       capacitive = 40.689658%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------
```

```
Dunn Method @E=-0.49026 V:
Fitted parameters:
a = 0.3279   b = 0.1299
R-squared: 0.9783
------------------------------------------------------------

Current Distributions(@20mv/s):
 faradaic(mA) = 1.466520     (pseudo)capacitive(mA) = 2.597741
Charge Distributions(@20mv/s):
 faradaic(mAs) = 109.225356   (pseudo)capacitive(mAs) = 193.477940
 faradaic = 36.083306%       (pseudo)capacitive = 63.916694%
------------------------------------------------------------

Current Distributions(@16mv/s):
 faradaic(mA) = 1.311695     (pseudo)capacitive(mA) = 2.078193
Charge Distributions(@16mv/s):
 faradaic(mAs) = 122.059914   (pseudo)capacitive(mAs) = 193.386448
 faradaic = 38.694348%       (pseudo)capacitive = 61.305652%
------------------------------------------------------------

Current Distributions(@14mv/s):
 faradaic(mA) = 1.226978     (pseudo)capacitive(mA) = 1.818419
Charge Distributions(@14mv/s):
 faradaic(mAs) = 130.487554   (pseudo)capacitive(mAs) = 193.386473
 faradaic = 40.289601%       (pseudo)capacitive = 59.710399%
------------------------------------------------------------

Current Distributions(@12mv/s):
 faradaic(mA) = 1.135961     (pseudo)capacitive(mA) = 1.558645
Charge Distributions(@12mv/s):
 faradaic(mAs) = 140.895430   (pseudo)capacitive(mAs) = 193.321660
 faradaic = 42.156860%       (pseudo)capacitive = 57.843140%
------------------------------------------------------------

Current Distributions(@10mv/s):
 faradaic(mA) = 1.036986     (pseudo)capacitive(mA) = 1.298871
Charge Distributions(@10mv/s):
 faradaic(mAs) = 154.296465   (pseudo)capacitive(mAs) = 193.263109
 faradaic = 44.394250%       (pseudo)capacitive = 55.605750%
------------------------------------------------------------

Current Distributions(@7mv/s):
 faradaic(mA) = 0.867605     (pseudo)capacitive(mA) = 0.909209
Charge Distributions(@7mv/s):
 faradaic(mAs) = 184.419103   (pseudo)capacitive(mAs) = 193.262642
 faradaic = 48.829234%       (pseudo)capacitive = 51.170766%
------------------------------------------------------------

Current Distributions(@5mv/s):
 faradaic(mA) = 0.733260     (pseudo)capacitive(mA) = 0.649435
Charge Distributions(@5mv/s):
 faradaic(mAs) = 218.214899   (pseudo)capacitive(mAs) = 193.269084
 faradaic = 53.031201%       (pseudo)capacitive = 46.968799%
------------------------------------------------------------

Current Distributions(@3mv/s):
 faradaic(mA) = 0.567981     (pseudo)capacitive(mA) = 0.389661
Charge Distributions(@3mv/s):
 faradaic(mAs) = 281.619276   (pseudo)capacitive(mAs) = 193.203946
 faradaic = 59.310342%       (pseudo)capacitive = 40.689658%
------------------------------------------------------------
```

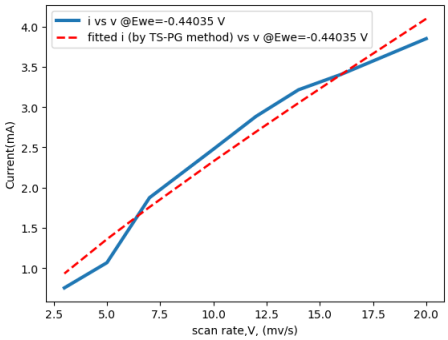


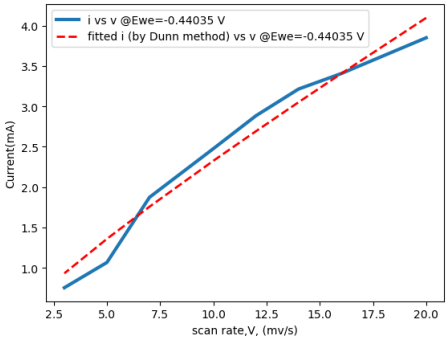


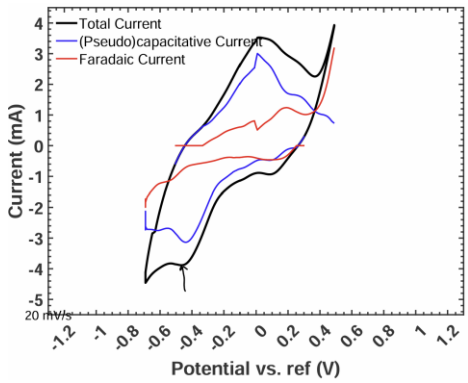



```
TS-PG Method @E=-0.4204 V:
Fitted parameters:
a = 0.2984   b = 0.1345   c = 0.00000000000000182284
R-squared: 0.9626
--------------------------------------------------------------------------------

Current Distributions(@20mv/s):
 faradaic(mA) = 1.334314     capacitive(mA) = 2.690938    pseudocapacitive(mA) = 0.000000
Charge Distributions(@20mv/s):
 faradaic(mAs) = 94.710237    capacitive(mAs) = 191.004115  pseudocapacitive(mAs) = 0.000000
 faradaic = 33.148575%        capacitive = 66.851425%      pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@16mv/s):
 faradaic(mA) = 1.193446     capacitive(mA) = 2.152750    pseudocapacitive(mA) = 0.000000
Charge Distributions(@16mv/s):
 faradaic(mAs) = 105.836603   capacitive(mAs) = 190.909125  pseudocapacitive(mAs) = 0.000000
 faradaic = 35.665755%        capacitive = 64.334245%      pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@14mv/s):
 faradaic(mA) = 1.116367     capacitive(mA) = 1.883657    pseudocapacitive(mA) = 0.000000
Charge Distributions(@14mv/s):
 faradaic(mAs) = 113.144104   capacitive(mAs) = 190.909152  pseudocapacitive(mAs) = 0.000000
 faradaic = 37.211936%        capacitive = 62.788064%      pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@12mv/s):
 faradaic(mA) = 1.033555     capacitive(mA) = 1.614563    pseudocapacitive(mA) = 0.000000
Charge Distributions(@12mv/s):
 faradaic(mAs) = 122.166484   capacitive(mAs) = 190.841798  pseudocapacitive(mAs) = 0.000000
 faradaic = 39.029793%        capacitive = 60.970207%      pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@10mv/s):
 faradaic(mA) = 0.943502     capacitive(mA) = 1.345469    pseudocapacitive(mA) = 0.000000
Charge Distributions(@10mv/s):
 faradaic(mAs) = 133.784260   capacitive(mAs) = 190.781308  pseudocapacitive(mAs) = 0.000000
 faradaic = 41.219486%        capacitive = 58.780514%      pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@7mv/s):
 faradaic(mA) = 0.789391     capacitive(mA) = 0.941828    pseudocapacitive(mA) = 0.000000
Charge Distributions(@7mv/s):
 faradaic(mAs) = 159.902414   capacitive(mAs) = 190.780878  pseudocapacitive(mAs) = 0.000000
 faradaic = 45.597386%        capacitive = 54.402614%      pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@5mv/s):
 faradaic(mA) = 0.667157     capacitive(mA) = 0.672734    pseudocapacitive(mA) = 0.000000
Charge Distributions(@5mv/s):
 faradaic(mAs) = 189.192309   capacitive(mAs) = 190.774043  pseudocapacitive(mAs) = 0.000000
 faradaic = 49.791859%        capacitive = 50.208141%      pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@3mv/s):
 faradaic(mA) = 0.516777     capacitive(mA) = 0.403641    pseudocapacitive(mA) = 0.000000
Charge Distributions(@3mv/s):
 faradaic(mAs) = 244.177110   capacitive(mAs) = 190.720062  pseudocapacitive(mAs) = 0.000000
 faradaic = 56.145941%        capacitive = 43.854059%      pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------
```

```
Dunn Method @E=-0.4204 V:
Fitted parameters:
a = 0.2984   b = 0.1345
R-squared: 0.9626
--------------------------------------------------------------

Current Distributions(@20mv/s):
 faradaic(mA) = 1.334313     (pseudo)capacitive(mA) = 2.690938
Charge Distributions(@20mv/s):
 faradaic(mAs) = 94.710233    (pseudo)capacitive(mAs) = 191.004120
 faradaic = 33.148574%        (pseudo)capacitive = 66.851426%
--------------------------------------------------------------

Current Distributions(@16mv/s):
 faradaic(mA) = 1.193446     (pseudo)capacitive(mA) = 2.152750
Charge Distributions(@16mv/s):
 faradaic(mAs) = 105.836599   (pseudo)capacitive(mAs) = 190.909130
 faradaic = 35.665753%        (pseudo)capacitive = 64.334247%
--------------------------------------------------------------

Current Distributions(@14mv/s):
 faradaic(mA) = 1.116367     (pseudo)capacitive(mA) = 1.883657
Charge Distributions(@14mv/s):
 faradaic(mAs) = 113.144099   (pseudo)capacitive(mAs) = 190.909157
 faradaic = 37.211935%        (pseudo)capacitive = 62.788065%
--------------------------------------------------------------

Current Distributions(@12mv/s):
 faradaic(mA) = 1.033555     (pseudo)capacitive(mA) = 1.614563
Charge Distributions(@12mv/s):
 faradaic(mAs) = 122.166478   (pseudo)capacitive(mAs) = 190.841803
 faradaic = 39.029791%        (pseudo)capacitive = 60.970209%
--------------------------------------------------------------

Current Distributions(@10mv/s):
 faradaic(mA) = 0.943502     (pseudo)capacitive(mA) = 1.345469
Charge Distributions(@10mv/s):
 faradaic(mAs) = 133.784254   (pseudo)capacitive(mAs) = 190.781313
 faradaic = 41.219485%        (pseudo)capacitive = 58.780515%
--------------------------------------------------------------

Current Distributions(@7mv/s):
 faradaic(mA) = 0.789390     (pseudo)capacitive(mA) = 0.941828
Charge Distributions(@7mv/s):
 faradaic(mAs) = 159.902406   (pseudo)capacitive(mAs) = 190.780883
 faradaic = 45.597384%        (pseudo)capacitive = 54.402616%
--------------------------------------------------------------

Current Distributions(@5mv/s):
 faradaic(mA) = 0.667157     (pseudo)capacitive(mA) = 0.672735
Charge Distributions(@5mv/s):
 faradaic(mAs) = 189.192300   (pseudo)capacitive(mAs) = 190.774048
 faradaic = 49.791857%        (pseudo)capacitive = 50.208143%
--------------------------------------------------------------

Current Distributions(@3mv/s):
 faradaic(mA) = 0.516777     (pseudo)capacitive(mA) = 0.403641
Charge Distributions(@3mv/s):
 faradaic(mAs) = 244.177099   (pseudo)capacitive(mAs) = 190.720068
 faradaic = 56.145939%        (pseudo)capacitive = 43.854061%
--------------------------------------------------------------
```







TS-PG Method @E=-0.44035 V:
Fitted parameters:
a = 0.3004 b = 0.1377 c = 0.0000000000000193895
R-squared: 0.9683

Current Distributions(@20mv/s):
 faradaic(mA) = 1.343354 capacitive(mA) = 2.753427 pseudocapacitive(mA) = 0.000000
Charge Distributions(@20mv/s):
 faradaic(mAs) = 96.694757 capacitive(mAs) = 198.191920 pseudocapacitive(mAs) = 0.000000
 faradaic = 32.790480% capacitive = 67.209520% pseudocapacitive = 0.000000%

Current Distributions(@16mv/s):
 faradaic(mA) = 1.201532 capacitive(mA) = 2.202741 pseudocapacitive(mA) = 0.000000
Charge Distributions(@16mv/s):
 faradaic(mAs) = 108.055128 capacitive(mAs) = 198.094944 pseudocapacitive(mAs) = 0.000000
 faradaic = 35.294824% capacitive = 64.705176% pseudocapacitive = 0.000000%

Current Distributions(@14mv/s):
 faradaic(mA) = 1.123931 capacitive(mA) = 1.927399 pseudocapacitive(mA) = 0.000000
Charge Distributions(@14mv/s):
 faradaic(mAs) = 115.515791 capacitive(mAs) = 198.094944 pseudocapacitive(mAs) = 0.000000
 faradaic = 36.834132% capacitive = 63.165868% pseudocapacitive = 0.000000%

Current Distributions(@12mv/s):
 faradaic(mA) = 1.040558 capacitive(mA) = 1.652056 pseudocapacitive(mA) = 0.000000
Charge Distributions(@12mv/s):
 faradaic(mAs) = 124.727992 capacitive(mAs) = 198.026164 pseudocapacitive(mAs) = 0.000000
 faradaic = 38.644891% capacitive = 61.355109% pseudocapacitive = 0.000000%

Current Distributions(@10mv/s):
 faradaic(mA) = 0.949895 capacitive(mA) = 1.376713 pseudocapacitive(mA) = 0.000000
Charge Distributions(@10mv/s):
 faradaic(mAs) = 136.589926 capacitive(mAs) = 197.964214 pseudocapacitive(mAs) = 0.000000
 faradaic = 40.827451% capacitive = 59.172549% pseudocapacitive = 0.000000%

Current Distributions(@7mv/s):
 faradaic(mA) = 0.794739 capacitive(mA) = 0.963699 pseudocapacitive(mA) = 0.000000
Charge Distributions(@7mv/s):
 faradaic(mAs) = 163.255756 capacitive(mAs) = 197.963691 pseudocapacitive(mAs) = 0.000000
 faradaic = 45.195727% capacitive = 54.804273% pseudocapacitive = 0.000000%

Current Distributions(@5mv/s):
 faradaic(mA) = 0.671677 capacitive(mA) = 0.688357 pseudocapacitive(mA) = 0.000000
Charge Distributions(@5mv/s):
 faradaic(mAs) = 193.160072 capacitive(mAs) = 197.956780 pseudocapacitive(mAs) = 0.000000
 faradaic = 49.386794% capacitive = 50.613206% pseudocapacitive = 0.000000%

Current Distributions(@3mv/s):
 faradaic(mA) = 0.520279 capacitive(mA) = 0.413014 pseudocapacitive(mA) = 0.000000
Charge Distributions(@3mv/s):
 faradaic(mAs) = 249.298916 capacitive(mAs) = 197.901477 pseudocapacitive(mAs) = 0.000000
 faradaic = 55.746578% capacitive = 44.253422% pseudocapacitive = 0.000000%

Dunn Method @E=-0.44035 V:
Fitted parameters:
a = 0.3004 b = 0.1377
R-squared: 0.9683

Current Distributions(@20mv/s):
 faradaic(mA) = 1.343354 (pseudo)capacitive(mA) = 2.753427
Charge Distributions(@20mv/s):
 faradaic(mAs) = 96.694758 (pseudo)capacitive(mAs) = 198.191919
 faradaic = 32.790480% (pseudo)capacitive = 67.209520%

Current Distributions(@16mv/s):
 faradaic(mA) = 1.201532 (pseudo)capacitive(mA) = 2.202741
Charge Distributions(@16mv/s):
 faradaic(mAs) = 108.055129 (pseudo)capacitive(mAs) = 198.094943
 faradaic = 35.294824% (pseudo)capacitive = 64.705176%

Current Distributions(@14mv/s):
 faradaic(mA) = 1.123931 (pseudo)capacitive(mA) = 1.927399
Charge Distributions(@14mv/s):
 faradaic(mAs) = 115.515791 (pseudo)capacitive(mAs) = 198.094943
 faradaic = 36.834132% (pseudo)capacitive = 63.165868%

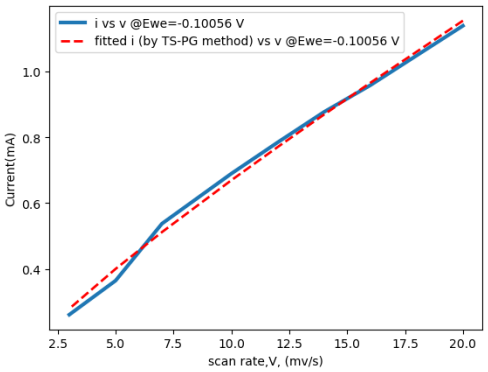
Current Distributions(@12mv/s):
 faradaic(mA) = 1.040558 (pseudo)capacitive(mA) = 1.652056
Charge Distributions(@12mv/s):
 faradaic(mAs) = 124.727993 (pseudo)capacitive(mAs) = 198.026163
 faradaic = 38.644891% (pseudo)capacitive = 61.355109%

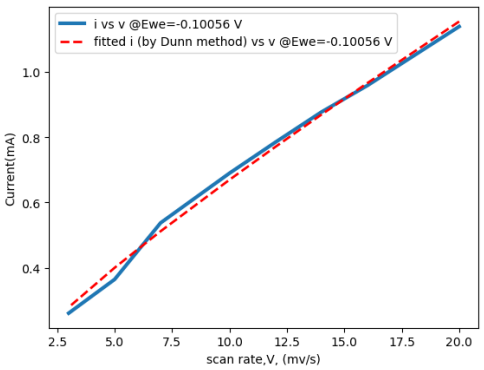
Current Distributions(@10mv/s):
 faradaic(mA) = 0.949895 (pseudo)capacitive(mA) = 1.376713
Charge Distributions(@10mv/s):
 faradaic(mAs) = 136.589927 (pseudo)capacitive(mAs) = 197.964213
 faradaic = 40.827451% (pseudo)capacitive = 59.172549%

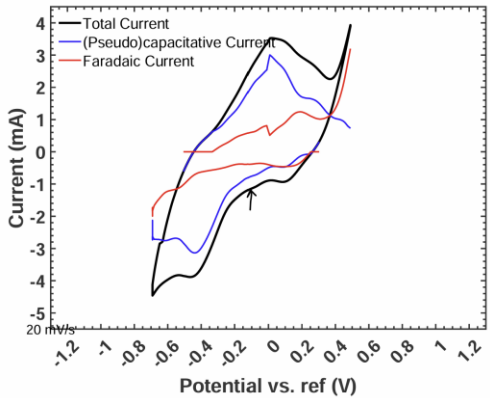
Current Distributions(@7mv/s):
 faradaic(mA) = 0.794739 (pseudo)capacitive(mA) = 0.963699
Charge Distributions(@7mv/s):
 faradaic(mAs) = 163.255758 (pseudo)capacitive(mAs) = 197.963690
 faradaic = 45.195728% (pseudo)capacitive = 54.804272%

Current Distributions(@5mv/s):
 faradaic(mA) = 0.671677 (pseudo)capacitive(mA) = 0.688357
Charge Distributions(@5mv/s):
 faradaic(mAs) = 193.160074 (pseudo)capacitive(mAs) = 197.956779
 faradaic = 49.386794% (pseudo)capacitive = 50.613206%

Current Distributions(@3mv/s):
 faradaic(mA) = 0.520279 (pseudo)capacitive(mA) = 0.413014
Charge Distributions(@3mv/s):
 faradaic(mAs) = 249.298918 (pseudo)capacitive(mAs) = 197.901476
 faradaic = 55.746578% (pseudo)capacitive = 44.253422%







TS-PG Method @E=-0.10056 V:
Fitted parameters:
a = 0.0997 b = 0.0354 c = 0.0000000000079174761
R-squared: 0.9949

Current Distributions(@20mv/s):
 faradaic(mA) = 0.445662 capacitive(mA) = 0.708611 pseudocapacitive(mA) = 0.000000
Charge Distributions(@20mv/s):
 faradaic(mAs) = 24.505011 capacitive(mAs) = 38.963446 pseudocapacitive(mAs) = 0.000000
 faradaic = 38.609747% capacitive = 61.390253% pseudocapacitive = 0.000000%

Current Distributions(@16mv/s):
 faradaic(mA) = 0.398612 capacitive(mA) = 0.566888 pseudocapacitive(mA) = 0.000000
Charge Distributions(@16mv/s):
 faradaic(mAs) = 27.369841 capacitive(mAs) = 38.924203 pseudocapacitive(mAs) = 0.000000
 faradaic = 41.285520% capacitive = 58.714480% pseudocapacitive = 0.000000%

Current Distributions(@14mv/s):
 faradaic(mA) = 0.372867 capacitive(mA) = 0.496027 pseudocapacitive(mA) = 0.000000
Charge Distributions(@14mv/s):
 faradaic(mAs) = 29.259596 capacitive(mAs) = 38.924210 pseudocapacitive(mAs) = 0.000000
 faradaic = 42.912823% capacitive = 57.087177% pseudocapacitive = 0.000000%

Current Distributions(@12mv/s):
 faradaic(mA) = 0.345208 capacitive(mA) = 0.425166 pseudocapacitive(mA) = 0.000000
Charge Distributions(@12mv/s):
 faradaic(mAs) = 31.592463 capacitive(mAs) = 38.910031 pseudocapacitive(mAs) = 0.000000
 faradaic = 44.810419% capacitive = 55.189581% pseudocapacitive = 0.000000%

Current Distributions(@10mv/s):
 faradaic(mA) = 0.315130 capacitive(mA) = 0.354305 pseudocapacitive(mA) = 0.000000
Charge Distributions(@10mv/s):
 faradaic(mAs) = 34.593617 capacitive(mAs) = 38.894074 pseudocapacitive(mAs) = 0.000000
 faradaic = 47.074029% capacitive = 52.925971% pseudocapacitive = 0.000000%

Current Distributions(@7mv/s):
 faradaic(mA) = 0.263657 capacitive(mA) = 0.248014 pseudocapacitive(mA) = 0.000000
Charge Distributions(@7mv/s):
 faradaic(mAs) = 41.350923 capacitive(mAs) = 38.897500 pseudocapacitive(mAs) = 0.000000
 faradaic = 51.528642% capacitive = 48.471358% pseudocapacitive = 0.000000%

Current Distributions(@5mv/s):
 faradaic(mA) = 0.222831 capacitive(mA) = 0.177153 pseudocapacitive(mA) = 0.000000
Charge Distributions(@5mv/s):
 faradaic(mAs) = 48.933725 capacitive(mAs) = 38.902789 pseudocapacitive(mAs) = 0.000000
 faradaic = 55.710003% capacitive = 44.289997% pseudocapacitive = 0.000000%

Current Distributions(@3mv/s):
 faradaic(mA) = 0.172604 capacitive(mA) = 0.106292 pseudocapacitive(mA) = 0.000000
Charge Distributions(@3mv/s):
 faradaic(mAs) = 63.150079 capacitive(mAs) = 38.888571 pseudocapacitive(mAs) = 0.000000
 faradaic = 61.888391% capacitive = 38.111609% pseudocapacitive = 0.000000%

Dunn Method @E=-0.10056 V:
Fitted parameters:
a = 0.0997 b = 0.0354
R-squared: 0.9949

Current Distributions(@20mv/s):
 faradaic(mA) = 0.445662 (pseudo)capacitive(mA) = 0.708611
Charge Distributions(@20mv/s):
 faradaic(mAs) = 24.505011 (pseudo)capacitive(mAs) = 38.963446
 faradaic = 38.609747% (pseudo)capacitive = 61.390253%

Current Distributions(@16mv/s):
 faradaic(mA) = 0.398612 (pseudo)capacitive(mA) = 0.566888
Charge Distributions(@16mv/s):
 faradaic(mAs) = 27.369841 (pseudo)capacitive(mAs) = 38.924203
 faradaic = 41.285520% (pseudo)capacitive = 58.714480%

Current Distributions(@14mv/s):
 faradaic(mA) = 0.372867 (pseudo)capacitive(mA) = 0.496027
Charge Distributions(@14mv/s):
 faradaic(mAs) = 29.259596 (pseudo)capacitive(mAs) = 38.924210
 faradaic = 42.912823% (pseudo)capacitive = 57.087177%

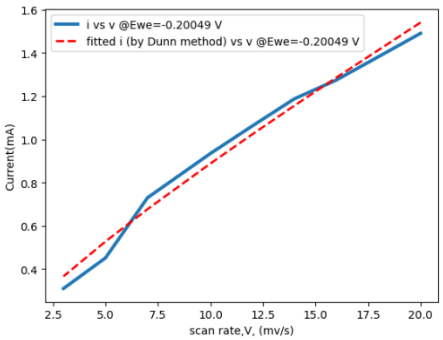
Current Distributions(@12mv/s):
 faradaic(mA) = 0.345208 (pseudo)capacitive(mA) = 0.425166
Charge Distributions(@12mv/s):
 faradaic(mAs) = 31.592463 (pseudo)capacitive(mAs) = 38.910031
 faradaic = 44.810419% (pseudo)capacitive = 55.189581%

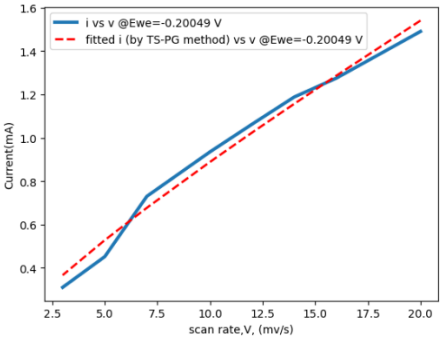
Current Distributions(@10mv/s):
 faradaic(mA) = 0.315130 (pseudo)capacitive(mA) = 0.354305
Charge Distributions(@10mv/s):
 faradaic(mAs) = 34.593617 (pseudo)capacitive(mAs) = 38.894074
 faradaic = 47.074029% (pseudo)capacitive = 52.925971%

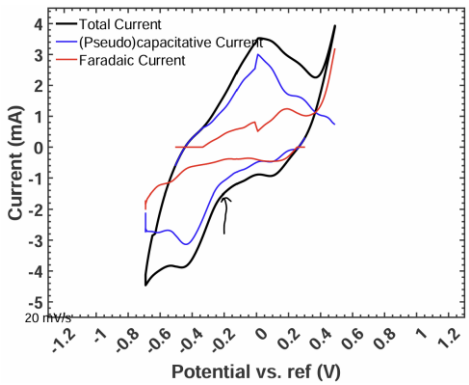
Current Distributions(@7mv/s):
 faradaic(mA) = 0.263657 (pseudo)capacitive(mA) = 0.248014
Charge Distributions(@7mv/s):
 faradaic(mAs) = 41.350922 (pseudo)capacitive(mAs) = 38.897500
 faradaic = 51.528642% (pseudo)capacitive = 48.471358%

Current Distributions(@5mv/s):
 faradaic(mA) = 0.222831 (pseudo)capacitive(mA) = 0.177153
Charge Distributions(@5mv/s):
 faradaic(mAs) = 48.933725 (pseudo)capacitive(mAs) = 38.902790
 faradaic = 55.710003% (pseudo)capacitive = 44.289997%

Current Distributions(@3mv/s):
 faradaic(mA) = 0.172604 (pseudo)capacitive(mA) = 0.106292
Charge Distributions(@3mv/s):
 faradaic(mAs) = 63.150079 (pseudo)capacitive(mAs) = 38.888571
 faradaic = 61.888391% (pseudo)capacitive = 38.111609%







TS-PG Method @E=-0.20049 V:
Fitted parameters:
a = 0.1279 b = 0.0484 c = 0.000000000000000000
R-squared: 0.9837

Current Distributions(@20mv/s):
 faradaic(mA) = 0.572025 capacitive(mA) = 0.968043 pseudocapacitive(mA) = 0.000000
Charge Distributions(@20mv/s):
 faradaic(mAs) = 34.312383 capacitive(mAs) = 58.067195 pseudocapacitive(mAs) = 0.000000
 faradaic = 37.142823% capacitive = 62.857177% pseudocapacitive = 0.000000%

Current Distributions(@16mv/s):
 faradaic(mA) = 0.511634 capacitive(mA) = 0.774435 pseudocapacitive(mA) = 0.000000
Charge Distributions(@16mv/s):
 faradaic(mAs) = 38.339783 capacitive(mAs) = 58.032945 pseudocapacitive(mAs) = 0.000000
 faradaic = 39.782814% capacitive = 60.217186% pseudocapacitive = 0.000000%

Current Distributions(@14mv/s):
 faradaic(mA) = 0.478590 capacitive(mA) = 0.677630 pseudocapacitive(mA) = 0.000000
Charge Distributions(@14mv/s):
 faradaic(mAs) = 40.986938 capacitive(mAs) = 58.032926 pseudocapacitive(mAs) = 0.000000
 faradaic = 41.392642% capacitive = 58.607358% pseudocapacitive = 0.000000%

Current Distributions(@12mv/s):
 faradaic(mA) = 0.443088 capacitive(mA) = 0.580826 pseudocapacitive(mA) = 0.000000
Charge Distributions(@12mv/s):
 faradaic(mAs) = 44.241444 capacitive(mAs) = 57.994243 pseudocapacitive(mAs) = 0.000000
 faradaic = 43.273973% capacitive = 56.726027% pseudocapacitive = 0.000000%

Current Distributions(@10mv/s):
 faradaic(mA) = 0.404483 capacitive(mA) = 0.484022 pseudocapacitive(mA) = 0.000000
Charge Distributions(@10mv/s):
 faradaic(mAs) = 48.445840 capacitive(mAs) = 57.972424 pseudocapacitive(mAs) = 0.000000
 faradaic = 45.523990% capacitive = 54.476010% pseudocapacitive = 0.000000%

Current Distributions(@7mv/s):
 faradaic(mA) = 0.338414 capacitive(mA) = 0.338815 pseudocapacitive(mA) = 0.000000
Charge Distributions(@7mv/s):
 faradaic(mAs) = 57.908548 capacitive(mAs) = 57.977124 pseudocapacitive(mAs) = 0.000000
 faradaic = 49.970412% capacitive = 50.029588% pseudocapacitive = 0.000000%

Current Distributions(@5mv/s):
 faradaic(mA) = 0.286012 capacitive(mA) = 0.242011 pseudocapacitive(mA) = 0.000000
Charge Distributions(@5mv/s):
 faradaic(mAs) = 68.526864 capacitive(mAs) = 57.984355 pseudocapacitive(mAs) = 0.000000
 faradaic = 54.166630% capacitive = 45.833370% pseudocapacitive = 0.000000%

Current Distributions(@3mv/s):
 faradaic(mA) = 0.221544 capacitive(mA) = 0.145206 pseudocapacitive(mA) = 0.000000
Charge Distributions(@3mv/s):
 faradaic(mAs) = 88.438137 capacitive(mAs) = 57.964912 pseudocapacitive(mAs) = 0.000000
 faradaic = 60.407305% capacitive = 39.592695% pseudocapacitive = 0.000000%

Dunn Method @E=-0.20049 V:
Fitted parameters:
a = 0.1279 b = 0.0484
R-squared: 0.9837

Current Distributions(@20mv/s):
 faradaic(mA) = 0.572025 (pseudo)capacitive(mA) = 0.968043
Charge Distributions(@20mv/s):
 faradaic(mAs) = 34.312382 (pseudo)capacitive(mAs) = 58.067196
 faradaic = 37.142822% (pseudo)capacitive = 62.857178%

Current Distributions(@16mv/s):
 faradaic(mA) = 0.511634 (pseudo)capacitive(mA) = 0.774435
Charge Distributions(@16mv/s):
 faradaic(mAs) = 38.339782 (pseudo)capacitive(mAs) = 58.032946
 faradaic = 39.782813% (pseudo)capacitive = 60.217187%

Current Distributions(@14mv/s):
 faradaic(mA) = 0.478590 (pseudo)capacitive(mA) = 0.677630
Charge Distributions(@14mv/s):
 faradaic(mAs) = 40.986938 (pseudo)capacitive(mAs) = 58.032927
 faradaic = 41.392642% (pseudo)capacitive = 58.607358%

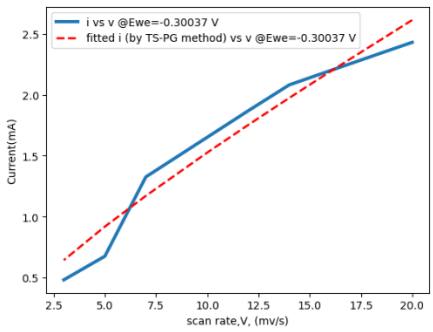
Current Distributions(@12mv/s):
 faradaic(mA) = 0.443088 (pseudo)capacitive(mA) = 0.580826
Charge Distributions(@12mv/s):
 faradaic(mAs) = 44.241443 (pseudo)capacitive(mAs) = 57.994244
 faradaic = 43.273972% (pseudo)capacitive = 56.726028%

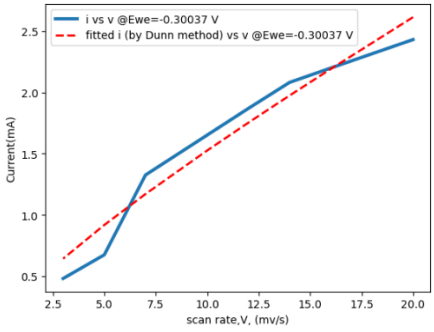
Current Distributions(@10mv/s):
 faradaic(mA) = 0.404482 (pseudo)capacitive(mA) = 0.484022
Charge Distributions(@10mv/s):
 faradaic(mAs) = 48.445839 (pseudo)capacitive(mAs) = 57.972425
 faradaic = 45.523989% (pseudo)capacitive = 54.476011%

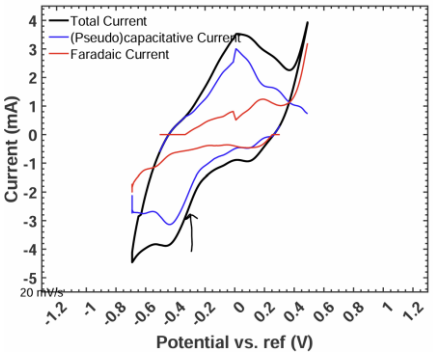
Current Distributions(@7mv/s):
 faradaic(mA) = 0.338414 (pseudo)capacitive(mA) = 0.338815
Charge Distributions(@7mv/s):
 faradaic(mAs) = 57.908547 (pseudo)capacitive(mAs) = 57.977125
 faradaic = 49.970411% (pseudo)capacitive = 50.029589%

Current Distributions(@5mv/s):
 faradaic(mA) = 0.286012 (pseudo)capacitive(mA) = 0.242011
Charge Distributions(@5mv/s):
 faradaic(mAs) = 68.526863 (pseudo)capacitive(mAs) = 57.984356
 faradaic = 54.166629% (pseudo)capacitive = 45.833371%

Current Distributions(@3mv/s):
 faradaic(mA) = 0.221544 (pseudo)capacitive(mA) = 0.145206
Charge Distributions(@3mv/s):
 faradaic(mAs) = 88.438135 (pseudo)capacitive(mAs) = 57.964913
 faradaic = 60.407304% (pseudo)capacitive = 39.592696%

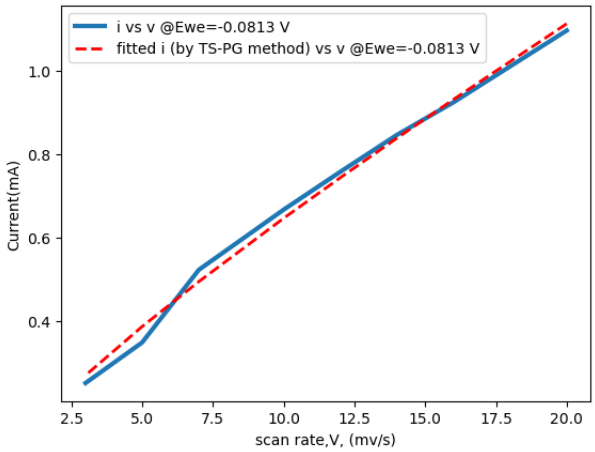


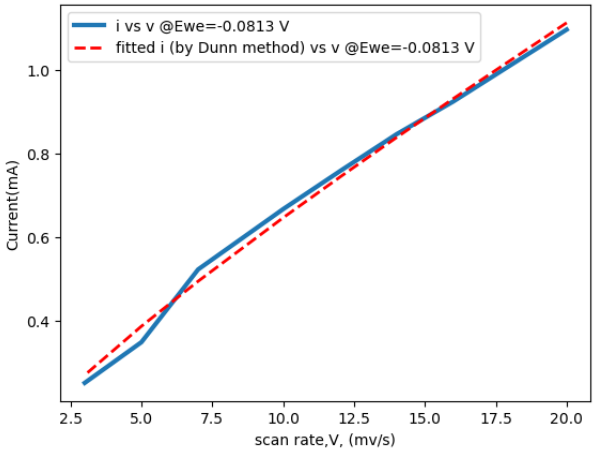





```
TS-PG Method @E=-0.30037 V:
Fitted parameters:
a = 0.2366    b = 0.0777    c = 0.0000000000000016425
R-squared: 0.9480
--------------------------------------------------------------------------------

Current Distributions(@20mv/s):
 faradaic(mA) = 1.058186      capacitive(mA) = 1.554909    pseudocapacitive(mA) = 0.000000
Charge Distributions(@20mv/s):
 faradaic(mAs) = 68.763587    capacitive(mAs) = 101.041887  pseudocapacitive(mAs) = 0.000000
 faradaic = 40.495507%        capacitive = 59.504493%      pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@16mv/s):
 faradaic(mA) = 0.946471      capacitive(mA) = 1.243927    pseudocapacitive(mA) = 0.000000
Charge Distributions(@16mv/s):
 faradaic(mAs) = 76.838170    capacitive(mAs) = 100.986874  pseudocapacitive(mAs) = 0.000000
 faradaic = 43.209982%        capacitive = 56.790018%      pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@14mv/s):
 faradaic(mA) = 0.885342      capacitive(mA) = 1.088436    pseudocapacitive(mA) = 0.000000
Charge Distributions(@14mv/s):
 faradaic(mAs) = 82.143459    capacitive(mAs) = 100.986874  pseudocapacitive(mAs) = 0.000000
 faradaic = 44.855190%        capacitive = 55.144810%      pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@12mv/s):
 faradaic(mA) = 0.819668      capacitive(mA) = 0.932946    pseudocapacitive(mA) = 0.000000
Charge Distributions(@12mv/s):
 faradaic(mAs) = 88.690896    capacitive(mAs) = 100.947970  pseudocapacitive(mAs) = 0.000000
 faradaic = 46.768312%        capacitive = 53.231688%      pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@10mv/s):
 faradaic(mA) = 0.748251      capacitive(mA) = 0.777455    pseudocapacitive(mA) = 0.000000
Charge Distributions(@10mv/s):
 faradaic(mAs) = 97.122339    capacitive(mAs) = 100.912986  pseudocapacitive(mAs) = 0.000000
 faradaic = 49.042937%        capacitive = 50.957063%      pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@7mv/s):
 faradaic(mA) = 0.626031      capacitive(mA) = 0.544218    pseudocapacitive(mA) = 0.000000
Charge Distributions(@7mv/s):
 faradaic(mAs) = 116.083130    capacitive(mAs) = 100.912753  pseudocapacitive(mAs) = 0.000000
 faradaic = 53.495545%        capacitive = 46.504455%      pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@5mv/s):
 faradaic(mA) = 0.529093      capacitive(mA) = 0.388727    pseudocapacitive(mA) = 0.000000
Charge Distributions(@5mv/s):
 faradaic(mAs) = 137.346068    capacitive(mAs) = 100.908827  pseudocapacitive(mAs) = 0.000000
 faradaic = 57.646693%        capacitive = 42.353307%      pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@3mv/s):
 faradaic(mA) = 0.409834      capacitive(mA) = 0.233236    pseudocapacitive(mA) = 0.000000
Charge Distributions(@3mv/s):
 faradaic(mAs) = 177.258148    capacitive(mAs) = 100.877604  pseudocapacitive(mAs) = 0.000000
 faradaic = 63.730803%        capacitive = 36.269197%      pseudocapacitive = 0.000000%
```

```
Dunn Method @E=-0.30037 V:
Fitted parameters:
a = 0.2366    b = 0.0777
R-squared: 0.9480
------------------------------------------------------------

Current Distributions(@20mv/s):
 faradaic(mA) = 1.058186      (pseudo)capacitive(mA) = 1.554909
Charge Distributions(@20mv/s):
 faradaic(mAs) = 68.763587    (pseudo)capacitive(mAs) = 101.041887
 faradaic = 40.495507%        (pseudo)capacitive = 59.504493%
------------------------------------------------------------

Current Distributions(@16mv/s):
 faradaic(mA) = 0.946471      (pseudo)capacitive(mA) = 1.243927
Charge Distributions(@16mv/s):
 faradaic(mAs) = 76.838170    (pseudo)capacitive(mAs) = 100.986874
 faradaic = 43.209982%        (pseudo)capacitive = 56.790018%
------------------------------------------------------------

Current Distributions(@14mv/s):
 faradaic(mA) = 0.885342      (pseudo)capacitive(mA) = 1.088436
Charge Distributions(@14mv/s):
 faradaic(mAs) = 82.143459    (pseudo)capacitive(mAs) = 100.986874
 faradaic = 44.855190%        (pseudo)capacitive = 55.144810%
------------------------------------------------------------

Current Distributions(@12mv/s):
 faradaic(mA) = 0.819668      (pseudo)capacitive(mA) = 0.932946
Charge Distributions(@12mv/s):
 faradaic(mAs) = 88.690896    (pseudo)capacitive(mAs) = 100.947970
 faradaic = 46.768312%        (pseudo)capacitive = 53.231688%
------------------------------------------------------------

Current Distributions(@10mv/s):
 faradaic(mA) = 0.748251      (pseudo)capacitive(mA) = 0.777455
Charge Distributions(@10mv/s):
 faradaic(mAs) = 97.122339    (pseudo)capacitive(mAs) = 100.912986
 faradaic = 49.042937%        (pseudo)capacitive = 50.957063%
------------------------------------------------------------

Current Distributions(@7mv/s):
 faradaic(mA) = 0.626031      (pseudo)capacitive(mA) = 0.544218
Charge Distributions(@7mv/s):
 faradaic(mAs) = 116.083129    (pseudo)capacitive(mAs) = 100.912753
 faradaic = 53.495545%        (pseudo)capacitive = 46.504455%
------------------------------------------------------------

Current Distributions(@5mv/s):
 faradaic(mA) = 0.529093      (pseudo)capacitive(mA) = 0.388727
Charge Distributions(@5mv/s):
 faradaic(mAs) = 137.346067    (pseudo)capacitive(mAs) = 100.908827
 faradaic = 57.646693%        (pseudo)capacitive = 42.353307%
------------------------------------------------------------

Current Distributions(@3mv/s):
 faradaic(mA) = 0.409834      (pseudo)capacitive(mA) = 0.233236
Charge Distributions(@3mv/s):
 faradaic(mAs) = 177.258147    (pseudo)capacitive(mAs) = 100.877604
 faradaic = 63.730803%        (pseudo)capacitive = 36.269197%
------------------------------------------------------------
```






```
TS-PG Method @E=-0.0813 V:
Fitted parameters:
a = 0.0973   b = 0.0338   c = 0.00000000001137863776
R-squared: 0.9939
--------------------------------------------------------------------------------

Current Distributions(@20mv/s):
 faradaic(mA) = 0.435357     capacitive(mA) = 0.676960   pseudocapacitive(mA) = 0.000000
Charge Distributions(@20mv/s):
 faradaic(mAs) = 23.518399   capacitive(mAs) = 36.569972  pseudocapacitive(mAs) = 0.000001
 faradaic = 39.139685%       capacitive = 60.860314%     pseudocapacitive = 0.000001%
--------------------------------------------------------------------------------

Current Distributions(@16mv/s):
 faradaic(mA) = 0.389396     capacitive(mA) = 0.541568   pseudocapacitive(mA) = 0.000000
Charge Distributions(@16mv/s):
 faradaic(mAs) = 26.274812   capacitive(mAs) = 36.542772  pseudocapacitive(mAs) = 0.000000
 faradaic = 41.827161%       capacitive = 58.172838%     pseudocapacitive = 0.000001%
--------------------------------------------------------------------------------

Current Distributions(@14mv/s):
 faradaic(mA) = 0.364246     capacitive(mA) = 0.473872   pseudocapacitive(mA) = 0.000000
Charge Distributions(@14mv/s):
 faradaic(mAs) = 28.088914   capacitive(mAs) = 36.542718  pseudocapacitive(mAs) = 0.000000
 faradaic = 43.460011%       capacitive = 56.539989%     pseudocapacitive = 0.000001%
--------------------------------------------------------------------------------

Current Distributions(@12mv/s):
 faradaic(mA) = 0.337226     capacitive(mA) = 0.406176   pseudocapacitive(mA) = 0.000000
Charge Distributions(@12mv/s):
 faradaic(mAs) = 30.328220   capacitive(mAs) = 36.529138  pseudocapacitive(mAs) = 0.000000
 faradaic = 45.362576%       capacitive = 54.637423%     pseudocapacitive = 0.000001%
--------------------------------------------------------------------------------

Current Distributions(@10mv/s):
 faradaic(mA) = 0.307844     capacitive(mA) = 0.338480   pseudocapacitive(mA) = 0.000000
Charge Distributions(@10mv/s):
 faradaic(mAs) = 33.209061   capacitive(mAs) = 36.513920  pseudocapacitive(mAs) = 0.000000
 faradaic = 47.630007%       capacitive = 52.369993%     pseudocapacitive = 0.000001%
--------------------------------------------------------------------------------

Current Distributions(@7mv/s):
 faradaic(mA) = 0.257561     capacitive(mA) = 0.236936   pseudocapacitive(mA) = 0.000000
Charge Distributions(@7mv/s):
 faradaic(mAs) = 39.695985   capacitive(mAs) = 36.517200  pseudocapacitive(mAs) = 0.000000
 faradaic = 52.085456%       capacitive = 47.914544%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@5mv/s):
 faradaic(mA) = 0.217679     capacitive(mA) = 0.169240   pseudocapacitive(mA) = 0.000000
Charge Distributions(@5mv/s):
 faradaic(mAs) = 46.975435   capacitive(mAs) = 36.522264  pseudocapacitive(mAs) = 0.000000
 faradaic = 56.259556%       capacitive = 43.740443%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------

Current Distributions(@3mv/s):
 faradaic(mA) = 0.168613     capacitive(mA) = 0.101544   pseudocapacitive(mA) = 0.000000
Charge Distributions(@3mv/s):
 faradaic(mAs) = 60.622449   capacitive(mAs) = 36.508667  pseudocapacitive(mAs) = 0.000000
 faradaic = 62.413006%       capacitive = 37.586994%     pseudocapacitive = 0.000000%
--------------------------------------------------------------------------------
```

```
Dunn Method @E=-0.0813 V:
Fitted parameters:
a = 0.0973   b = 0.0338
R-squared: 0.9939
------------------------------------------------------------

Current Distributions(@20mv/s):
 faradaic(mA) = 0.435357     (pseudo)capacitive(mA) = 0.676960
Charge Distributions(@20mv/s):
 faradaic(mAs) = 23.518399   (pseudo)capacitive(mAs) = 36.569973
 faradaic = 39.139684%       (pseudo)capacitive = 60.860316%
------------------------------------------------------------

Current Distributions(@16mv/s):
 faradaic(mA) = 0.389396     (pseudo)capacitive(mA) = 0.541568
Charge Distributions(@16mv/s):
 faradaic(mAs) = 26.274812   (pseudo)capacitive(mAs) = 36.542773
 faradaic = 41.827161%       (pseudo)capacitive = 58.172839%
------------------------------------------------------------

Current Distributions(@14mv/s):
 faradaic(mA) = 0.364246     (pseudo)capacitive(mA) = 0.473872
Charge Distributions(@14mv/s):
 faradaic(mAs) = 28.088914   (pseudo)capacitive(mAs) = 36.542719
 faradaic = 43.460010%       (pseudo)capacitive = 56.539990%
------------------------------------------------------------

Current Distributions(@12mv/s):
 faradaic(mA) = 0.337226     (pseudo)capacitive(mA) = 0.406176
Charge Distributions(@12mv/s):
 faradaic(mAs) = 30.328220   (pseudo)capacitive(mAs) = 36.529139
 faradaic = 45.362576%       (pseudo)capacitive = 54.637424%
------------------------------------------------------------

Current Distributions(@10mv/s):
 faradaic(mA) = 0.307844     (pseudo)capacitive(mA) = 0.338480
Charge Distributions(@10mv/s):
 faradaic(mAs) = 33.209060   (pseudo)capacitive(mAs) = 36.513921
 faradaic = 47.630006%       (pseudo)capacitive = 52.369994%
------------------------------------------------------------

Current Distributions(@7mv/s):
 faradaic(mA) = 0.257561     (pseudo)capacitive(mA) = 0.236936
Charge Distributions(@7mv/s):
 faradaic(mAs) = 39.695984   (pseudo)capacitive(mAs) = 36.517201
 faradaic = 52.085455%       (pseudo)capacitive = 47.914545%
------------------------------------------------------------

Current Distributions(@5mv/s):
 faradaic(mA) = 0.217679     (pseudo)capacitive(mA) = 0.169240
Charge Distributions(@5mv/s):
 faradaic(mAs) = 46.975435   (pseudo)capacitive(mAs) = 36.522265
 faradaic = 56.259556%       (pseudo)capacitive = 43.740444%
------------------------------------------------------------

Current Distributions(@3mv/s):
 faradaic(mA) = 0.168613     (pseudo)capacitive(mA) = 0.101544
Charge Distributions(@3mv/s):
 faradaic(mAs) = 60.622448   (pseudo)capacitive(mAs) = 36.508668
 faradaic = 62.413005%       (pseudo)capacitive = 37.586995%
------------------------------------------------------------
```

This point showed the highest pseudocapacitive current.