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APPENDIX

Table A1 The results of the measurement of currents with various voltages (CX800-1)

Volt (V)	Current (A)			
	1	2	3	Average
0.02	1.24E-03	1.24E-03	1.24E-03	1.24E-03
0.04	2.38E-03	2.39E-03	2.39E-03	2.39E-03
0.06	3.71E-03	3.72E-03	3.72E-03	3.72E-03
0.08	4.83E-03	4.84E-03	4.85E-03	4.84E-03
0.10	5.96E-03	5.96E-03	5.97E-03	5.96E-03

Table A2 The results of the measurement of currents with various voltages (CX800-2)

Volt (V)	Current (A)			
	1	2	3	Average
0.03	1.54E-03	1.54E-03	1.54E-03	1.54E-03
0.05	2.52E-03	2.52E-03	2.52E-03	2.52E-03
0.10	5.11E-03	5.11E-03	5.11E-03	5.11E-03
0.15	7.68E-03	7.70E-03	7.70E-03	7.69E-03
0.20	1.02E-03	1.02E-03	1.03E-03	1.02E-03

Table A3 The results of the measurement of currents with various voltages (CX800-3)

Volt (V)	Current (A)			
	1	2	3	Average
0.01	6.14E-03	6.16E-03	6.15E-03	6.15E-03
0.05	2.15E-03	2.15E-03	2.15E-03	2.15E-03
0.10	4.39E-03	4.39E-03	4.38E-03	4.39E-03
0.15	6.64E-03	6.64E-03	6.64E-03	6.64E-03
0.20	8.91E-03	8.91E-03	8.92E-03	8.91E-03

Table A4 The results of the measurement of currents with various voltages (CX900-1)

Volt (V)	Current (A)			
	1	2	3	Average
0.03	4.38E-03	4.38E-03	4.39E-03	4.38E-03
0.04	5.81E-03	5.82E-03	5.83E-03	5.82E-03
0.05	7.24E-03	7.24E-03	7.24E-03	7.24E-03
0.06	9.16E-03	9.17E-03	9.17E-03	9.17E-03
0.07	1.07E-02	1.07E-02	1.07E-02	1.07E-02

Table A5 The results of the measurement of currents with various voltages (CX900-2)

Volt (V)	Current (A)			
	1	2	3	Average
0.03	4.54E-03	4.54E-03	4.54E-03	4.54E-03
0.04	6.00E-03	6.00E-03	6.00E-03	6.00E-03
0.05	7.45E-03	7.45E-03	7.45E-03	7.45E-03
0.06	9.38E-03	9.38E-03	9.38E-03	9.38E-03
0.07	1.08E-02	1.08E-02	1.08E-02	1.08E-02

Table A6 The results of the measurement of currents with various voltages (CX900-3)

Volt (V)	Current (A)			
	1	2	3	Average
0.02	1.83E-03	1.83E-03	1.83E-03	1.83E-03
0.04	3.53E-03	3.54E-03	3.54E-03	3.54E-03
0.06	5.52E-03	5.52E-03	5.53E-03	5.52E-03
0.08	7.24E-03	7.22E-03	7.22E-03	7.23E-03
0.10	9.29E-03	9.17E-03	8.99E-03	9.15E-03

Table A7 The results of the measurement of currents with various voltages
(CX1000-1)

Volt (V)	Current (A)			
	1	2	3	Average
0.01	2.91E-03	2.90E-03	2.90E-03	2.90E-03
0.02	4.24E-03	4.24E-03	4.24E-03	4.24E-03
0.03	6.24E-03	6.23E-03	6.23E-03	6.23E-03
0.04	8.24E-03	8.24E-03	8.25E-03	8.24E-03
0.05	1.02E-02	1.02E-02	1.02E-02	1.02E-02

Table A8 The results of the measurement of currents with various voltages
(CX1000-2)

Volt (V)	Current (A)			
	1	2	3	Average
0.01	2.78E-03	2.78E-03	2.78E-03	2.78E-03
0.02	4.08E-03	4.08E-03	4.08E-03	4.08E-03
0.03	5.98E-03	5.98E-03	5.98E-03	5.98E-03
0.04	7.90E-03	7.90E-03	7.90E-03	7.90E-03
0.05	9.83E-02	9.83E-02	9.83E-02	9.83E-02

Table A9 The results of the measurement of currents with various voltages
(CX1000-3)

Volt (V)	Current (A)			
	1	2	3	Average
0.05	5.81E-03	5.82E-03	5.83E-03	5.82E-03
0.06	7.35E-03	7.35E-03	7.35E-03	7.35E-03
0.07	8.49E-03	8.48E-03	8.49E-03	8.49E-03
0.08	9.64E-03	9.64E-03	9.64E-03	9.64E-03
0.09	1.09E-02	1.08E-02	1.08E-02	1.08E-02

Table A10 The results of the measurement of currents with various voltages
(ACX800-1)

Volt (V)	Current (A)			
	1	2	3	Average
0.01	6.52E-04	6.51E-04	6.53E-04	6.52E-03
0.05	2.30E-03	2.30E-03	2.30E-03	2.30E-03
0.10	4.68E-03	4.68E-03	4.68E-03	4.68E-03
0.15	7.14E-03	7.06E-03	7.06E-03	7.09E-03
0.20	9.97E-03	9.73E-03	9.63E-03	9.77E-02

Table A11 The results of the measurement of currents with various voltages
(ACX800-2)

Volt (V)	Current (A)			
	1	2	3	Average
0.01	6.51E-04	6.51E-04	6.51E-04	6.51E-03
0.05	2.26E-03	2.26E-03	2.26E-03	2.26E-03
0.10	4.58E-03	4.58E-03	4.58E-03	4.58E-03
0.15	6.86E-03	6.86E-03	6.84E-03	6.85E-03
0.20	9.18E-03	9.09E-03	8.96E-03	9.08E-02

Table A12 The results of the measurement of currents with various voltages
(ACX800-3)

Volt (V)	Current (A)			
	1	2	3	Average
0.02	1.52E-03	1.52E-03	1.52E-03	1.52E-03
0.04	2.92E-03	2.92E-03	2.92E-03	2.92E-03
0.06	4.57E-03	4.56E-03	4.56E-03	4.56E-03
0.08	6.02E-03	6.00E-03	6.00E-03	6.00E-03
0.10	7.66E-03	7.52E-03	7.45E-03	7.54E-02

Table A13 The results of the measurement of currents with various voltages
(ACX900-1)

Volt (V)	Current (A)			
	1	2	3	Average
0.02	1.83E-03	1.83E-03	1.83E-03	1.83E-03
0.04	3.53E-03	3.54E-03	3.54E-03	3.57E-03
0.06	5.52E-03	5.52E-03	5.53E-03	5.52E-03
0.08	7.24E-03	7.22E-03	7.22E-03	7.23E-03
0.10	9.29E-03	9.17E-03	8.99E-03	9.15E-02

Table A14 The results of the measurement of currents with various voltages
(ACX900-2)

Volt (V)	Current (A)			
	1	2	3	Average
0.02	2.15E-03	2.15E-03	2.15E-03	2.15E-03
0.04	4.14E-03	4.13E-03	4.13E-03	4.13E-03
0.06	6.45E-03	6.45E-03	6.45E-03	6.45E-03
0.08	8.45E-03	8.45E-03	8.44E-03	8.45E-03
0.10	1.12E-02	1.05E-02	1.03E-02	1.07E-02

Table A15 The results of the measurement of currents with various voltages
(ACX900-3)

Volt (V)	Current (A)			
	1	2	3	Average
0.02	1.78E-03	1.78E-03	1.78E-03	1.78E-03
0.04	3.44E-03	3.45E-03	3.44E-03	3.44E-03
0.06	5.39E-03	5.39E-03	5.39E-03	5.39E-03
0.08	7.09E-03	7.07E-03	7.07E-03	7.08E-03
0.10	8.79E-03	8.63E-03	8.55E-03	8.66E-02

Table A16 The results of the measurement of currents with various voltages
(ACX1000-1)

Volt (V)	Current (A)			
	1	2	3	Average
0.01	2.97E-03	2.97E-03	2.98E-03	2.97E-03
0.02	3.68E-03	3.68E-03	3.68E-03	3.68E-03
0.03	5.38E-03	5.38E-03	5.38E-03	5.38E-03
0.04	7.70E-03	7.70E-03	7.68E-03	7.69E-03
0.05	9.75E-03	9.66E-03	9.59E-03	9.67E-02

Table A17 The results of the measurement of currents with various voltages
(ACX1000-2)

Volt (V)	Current (A)			
	1	2	3	Average
0.005	1.13E-04	1.13E-04	1.13E-04	1.13E-03
0.02	1.57E-03	1.57E-03	1.57E-03	1.57E-03
0.04	4.66E-03	4.66E-03	4.66E-03	4.66E-03
0.06	7.14E-03	7.14E-03	7.14E-03	7.14E-03
0.08	1.15E-02	1.07E-02	1.03E-02	1.08E-02

Table A18 The results of the measurement of currents with various voltages
(ACX1000-3)

Volt (V)	Current (A)			
	1	2	3	Average
0.005	9.61E-04	9.61E-04	9.61E-04	9.61E-03
0.02	2.55E-03	2.55E-03	2.55E-03	2.55E-03
0.04	4.91E-03	4.90E-03	4.90E-03	4.90E-03
0.06	7.64E-03	7.64E-03	7.64E-03	7.64E-03
0.08	1.00E-02	9.91E-03	9.84E-03	6.92E-02

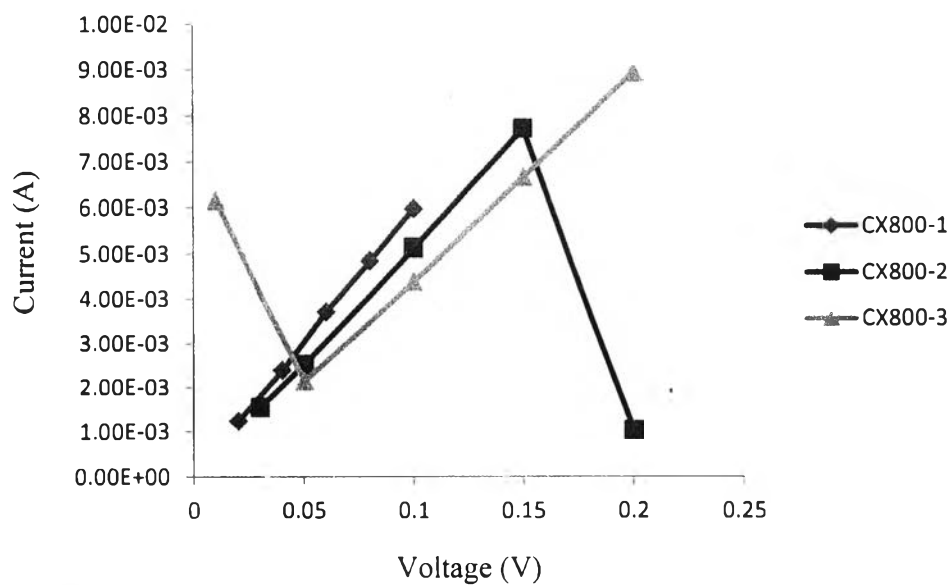


Figure A1 The slopes (1/resistance) of C-V plots of CX800.

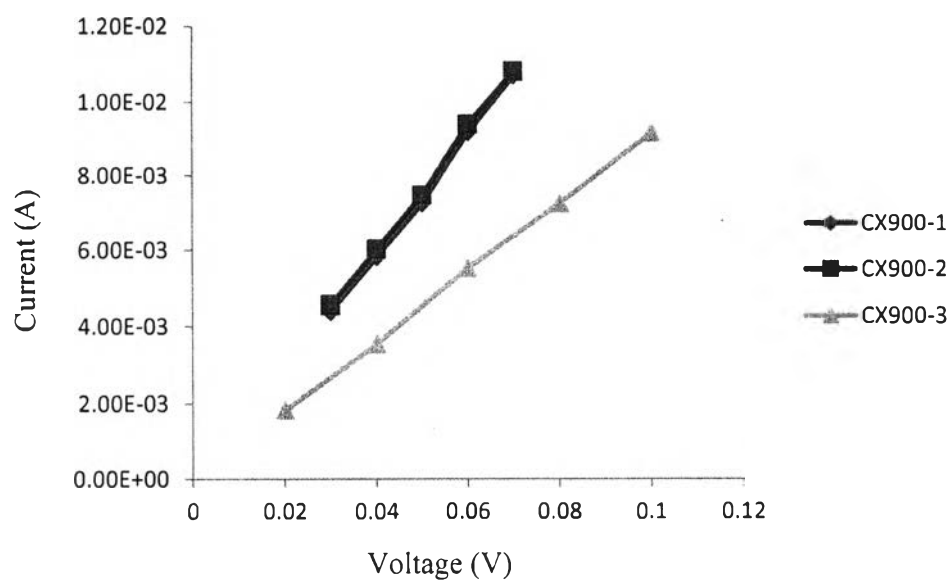


Figure A2 The slopes (1/resistance) of C-V plots of CX900.

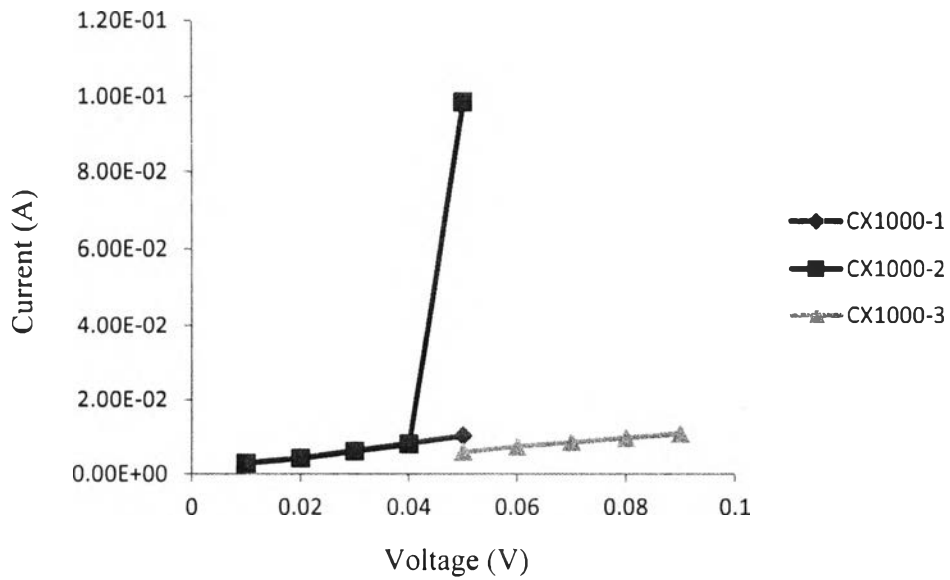


Figure A3 The slopes (1/resistance) of C-V plots of CX1000.

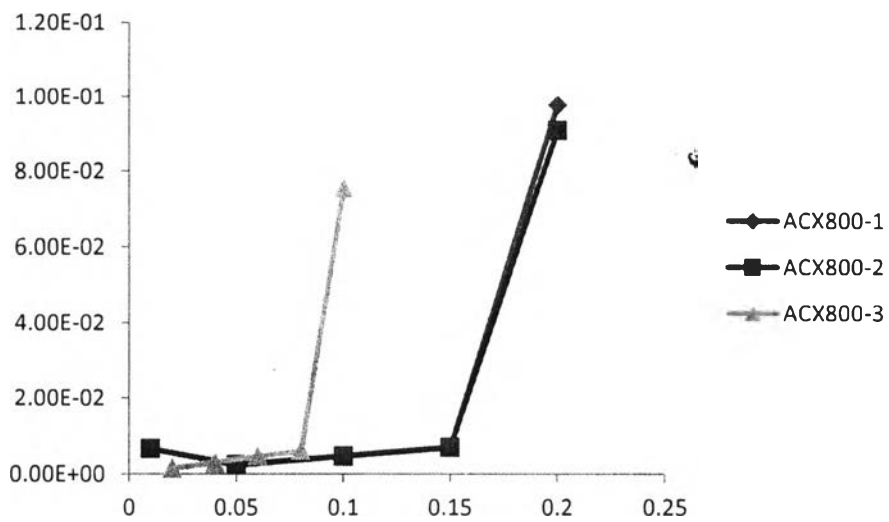


Figure A4 The slopes (1/resistance) of C-V plots of ACX800.

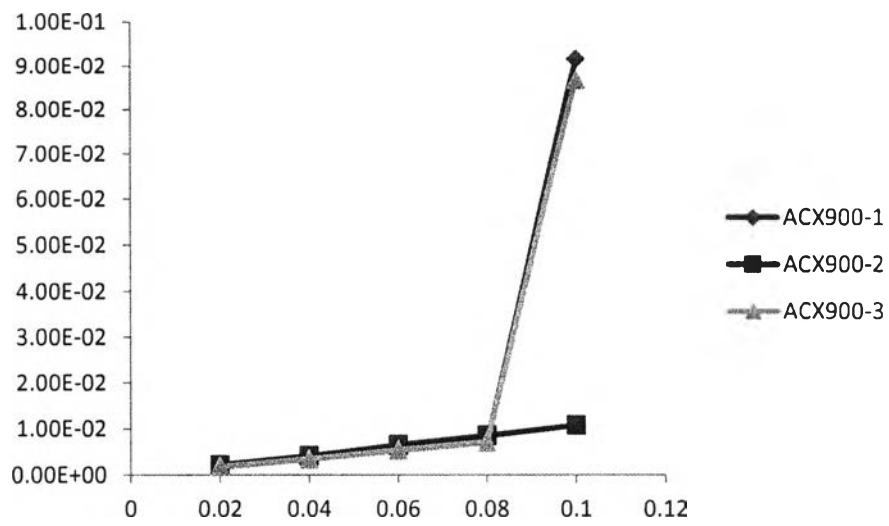


Figure A5 The slopes (1/resistance) of C-V plots of ACX900.

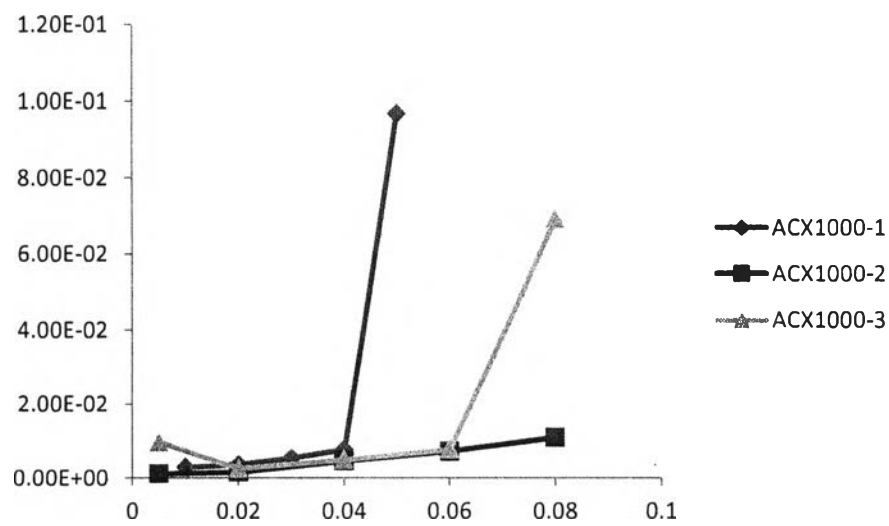


Figure A6 The slopes (1/resistance) of C-V plots of ACX1000.

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Presentations:

1. Ninlerd, A.; Kritsanapiyawan, H.; and Tachaboonyakiat, W. (2013, March 28-29) Preparation of Chitin Grafted Poly(lactic acid) for Poly(lactic acid) Nucleating Agent. Poster presented at 3rd Polymer Conference of Thailand, Bangkok, Thailand.
2. Ninlerd, A.; Ksapabutr, B.; Wongkasemjit, S.; and Chaisuwan T. (2014, November 22-25) Nanoporous Carbon for the Applications in Supercapacitor and Batteries. Poster presented at EMN Fall Meeting, Orlando, FL, USA.
3. Ninlerd, A.; Ksapabutr, B.; Wongkasemjit, S.; and Chaisuwan T. (2015, April 21) Nanoporous Carbon for the Applications in Supercapacitor and Batteries. Poster presented at the 6nd National Symposium on Petroleum, Petrochemicals, and Advances Materials and 21th PPC Symposium on Petroleum, Petrochemicals, and Polymers, Bangkok, Thailand.