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| |  |  | | --- | --- | |  |  | |  | |  | | --- | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | | | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  | |  |  | |  | | | | |  | Conclusion   After carefully looking over the data, my hypothesis seems to hold true. On all initial data samples, there was at least one Anthocyanin dye that had the largest amount of power production. While, on one occasion the second data sample 5 minutes later showed a chlorophyll with the top amount of power produced. The data seemed to vary often from run to run, which was associated with different changes in the setup, like no annealing the carbon soot, also a low sun on a cloudy day effect the results too.   Some possible errors that could have caused difference in the data would be the density and area cover by the TiO2. While Anthocyanin dye may not be the most efficient electron injector it worked best for TiO2 likely because of it rapidly attaches to the TiO2 verses the chlorophyll which doesn't attach rapidly to the TiO2. The Anthocyanin dye is also darker which would give the impression that is might be able to absorb more light wavelengths. Other possible errors might be how well the counter electrode was coated with carbon. Glass plates were rotated to help reduce that problem, and there seemed to be no pattern formed in the data from the rotation. The very data itself may change, because voltage was measured with no current, and current was measured with a complete short you just get two end of the curve. By measuring voltage and current with resistance at different levels you could measure what is called the maximum power point. | | |  |  |  | | --- | --- | |  |  | |  | [[Electrifying The Sun](http://laflash.com/~chris/apbio/index.html)] [[Introduction](http://laflash.com/~chris/apbio/Introduction/introduction.html)] [[Hypothesis](http://laflash.com/~chris/apbio/Hypothesis/hypothesis.html)] [[Experiment](http://laflash.com/~chris/apbio/info/info.html)] [[Pictures](http://laflash.com/~chris/apbio/Pictures/pictures.html)] [[Data](http://laflash.com/~chris/apbio/data/data.html)] [[Conclusion](http://laflash.com/~chris/apbio/Conclusion/conclusion.html)] [[Recommendations](http://laflash.com/~chris/apbio/Recommendations/recommendations.html)] [[Bibliography](http://laflash.com/~chris/apbio/Bibliography/bibliography.html)] [[Experiment Log](http://laflash.com/~chris/apbio/Experiment_Log/experiment_log.html)] [[Acknowledgments](http://laflash.com/~chris/apbio/Acknowledgments/acknowledgments.html)] | |