

## CALIFORNIA STATE SCIENCE FAIR 2010 PROJECT SUMMARY

Name(s)	Project Number
Mateo Rudich	-
	J1029
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Project Title	1
Juice It with Juice	
Abstract	
<b>Objectives/Goals</b> My objective was to find out which juice (blackberry, cherry, pomegranate, or raspberry) makes the most	
power in a nanocrystalline dye sensitized solar cell.	
Methods/Materials I made four nanocrystalline dye sensitized solar cells using tin dioxide coated of	conductive glass titanium
dioxide powder, nitric acid, graphite, and iodide electrolyte with each of the four juices. Using an	
overhead projector for a steady source of light, I tested each solar cell for volts and amperes. I then multiplied the volts and amperes of each solar cell to find out the power in watts.	
Results	
The nanocrystalline dye sensitized solar cell made with the blackberry juice made the most power with	
0.875 watts. The solar cell with the pomegranate juice came second. It made 0.3 watts.Next was the solar cell with the raspberry juice making 0.16 watts. The solar cell that made the least power was the one made	
with cherry juice. This one made only 0.02 watts.	
Conclusions/Discussion	une initial use de des uses d
I found that the nanocrystalline dye sensitized solar cell made with the blackberry juice made the most power. Whether the results were because of the color or some other reason, I'm not sure. To make the	
results more accurate, next time I would make more solar cells.	
Summary Statement	
My project was to figure out which juice (blackberry, cherry, pomegranate, or power in a nanocrystalline dye sensitized solar cell.	raspberry) makes the most
Help Received	
Mother helped cut paper; Used equipement from Willits Charter School under Vaccaro.	the supervision of Erin