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Women in Colors

SENDY NASCIMENTO - UFAL
POSTDOCTORAL RESEARCHER IN
PHYSICS



SENDY
NASCIMENTO

1. Who am I?;
2. Women in Colors;
3. Mileva Maric;
4. Dr Katherine Johnson;
5. Dr Valerie Thomas;
6. Dr Barbara Carine;
7. My history;
8. My work;
9. Opportunities;
10. Thanks.

WHO
AM
I?

I love books
and music

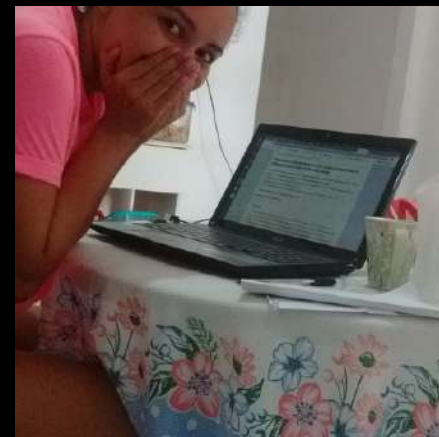


WHO AM I?

I love books
and music



I am apaixonate
about learning
and study

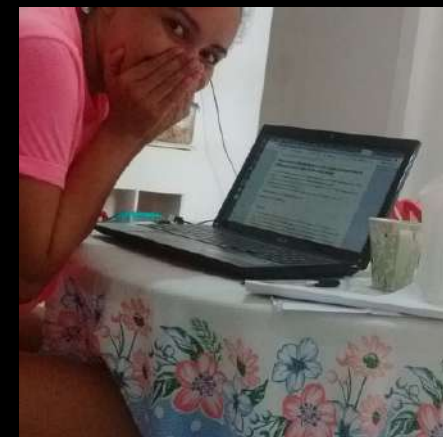


WHO AM I?

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and music



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I love parties
and stay alone

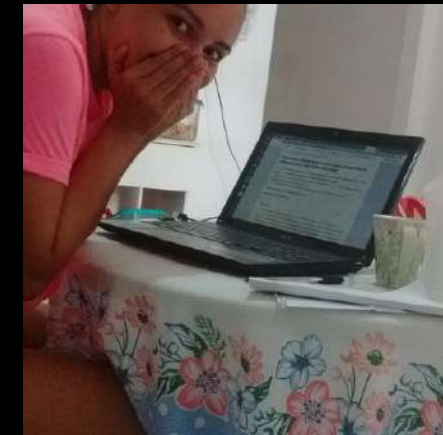


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I am
experimental
physics

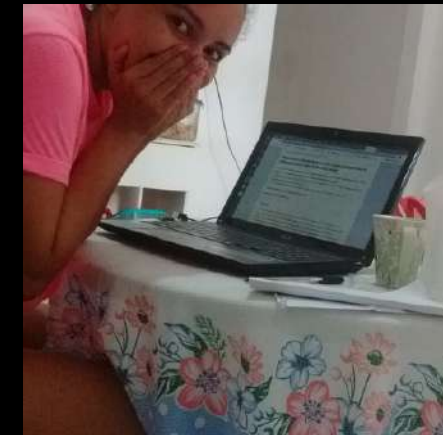


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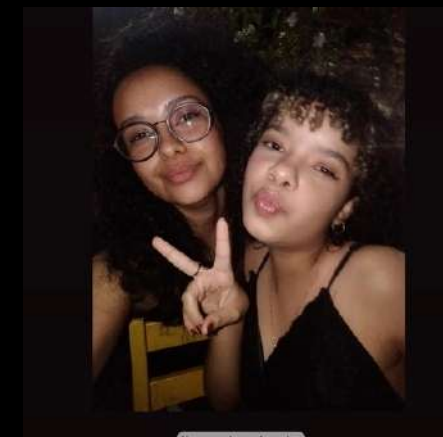
I love parties
and stay alone



I am
experimental
physics



I am Alice's
mom

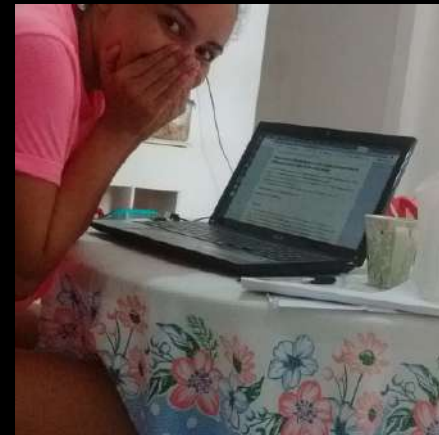


WHO AM I?

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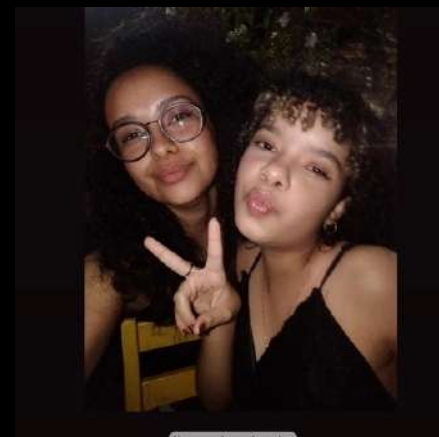
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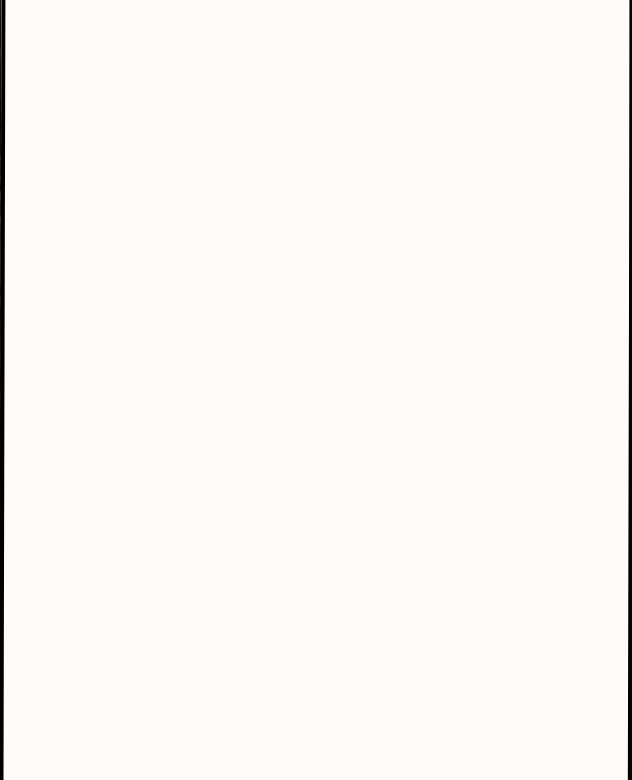
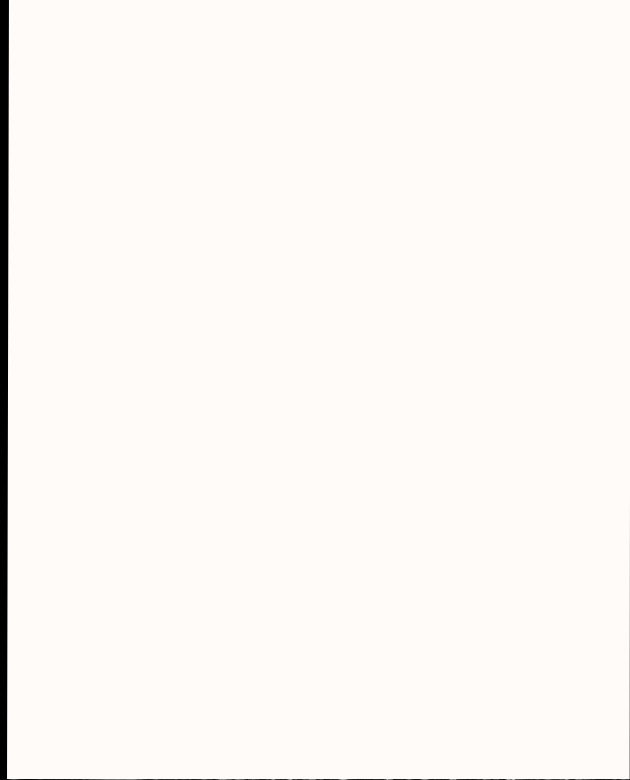
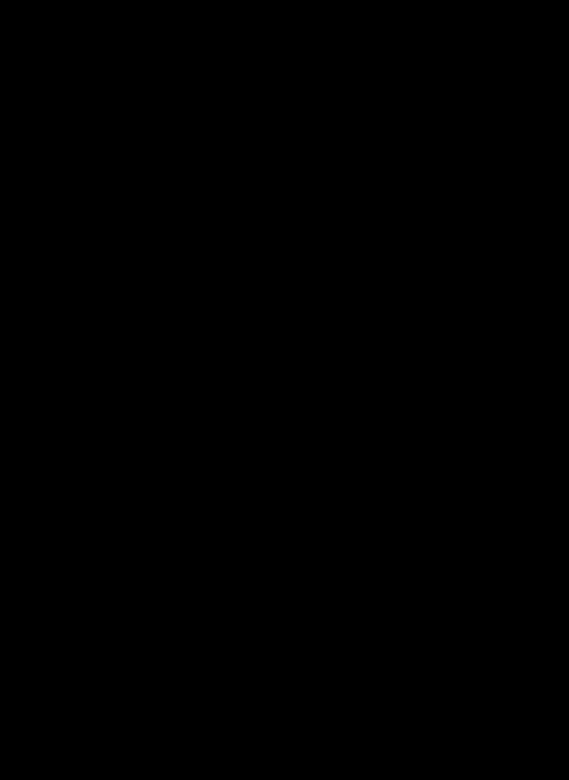
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experimental
physics



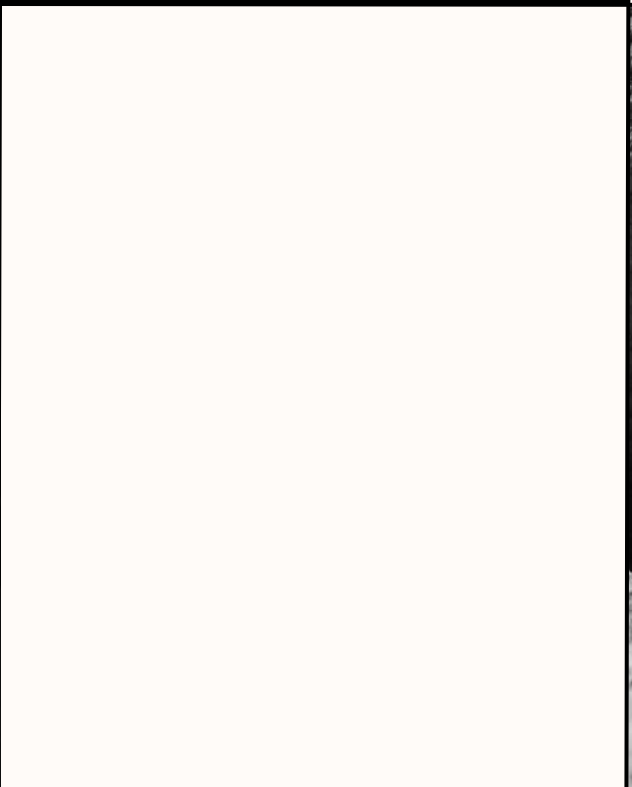
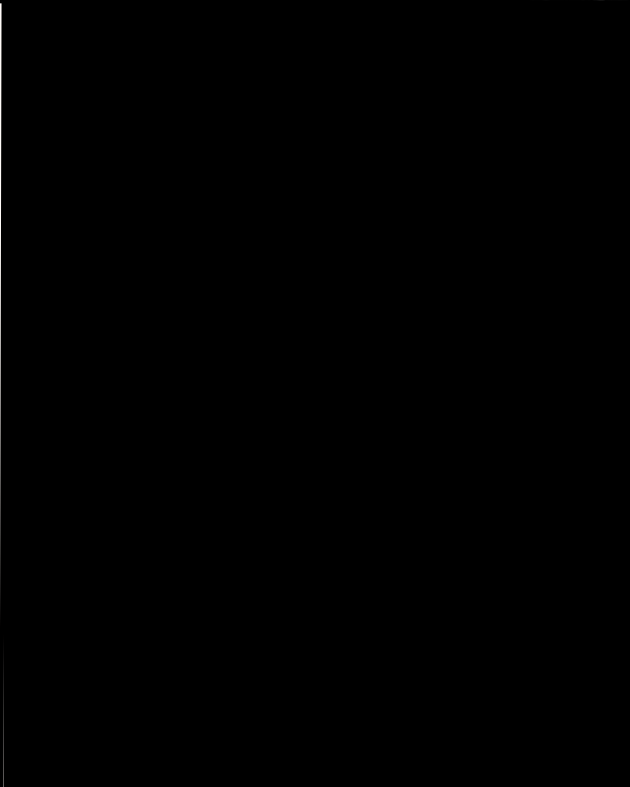
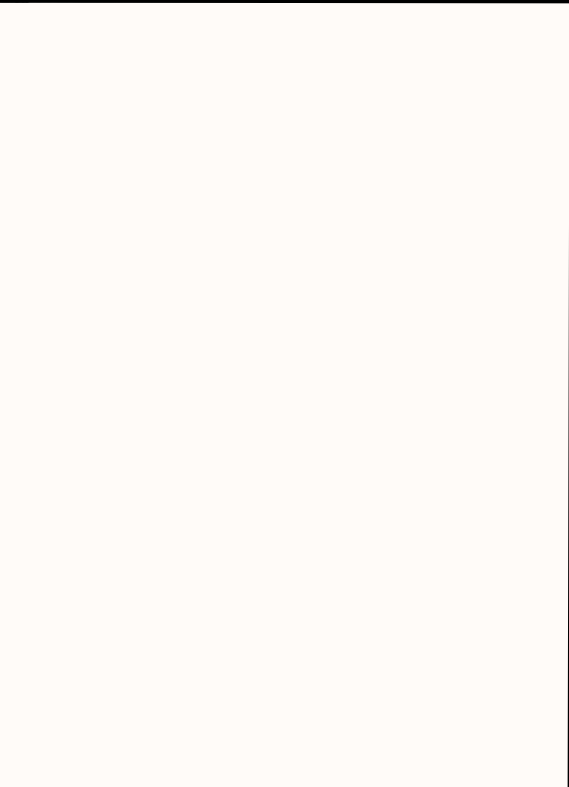
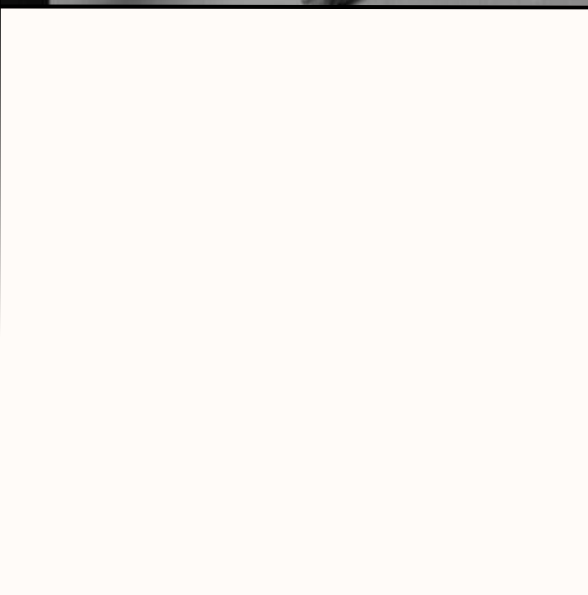
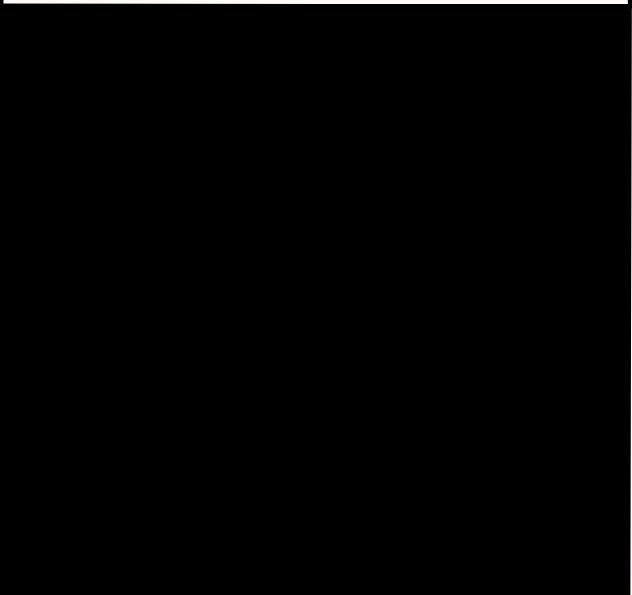
I am Alice's
mom



and more...



WOMEN IN COLORS



MILEVA MARIC

- She was a physicist and mathematician;
- She was a person with a disability.
- The only woman among fellow students at Zürich Polytechnic and the second woman to finish a full program of study at the Department of Mathematics and Physics;
- Her studies included the following courses: differential and integral calculus, descriptive and projective geometry, mechanics, theoretical physics, applied physics, experimental physics, and astronomy;



In 1905, three articles appeared, which began three very important to physics: the theory of Brownian motion, the photon theory of light, and the theory of relativity. The author of these articles – an unknown person at that time was Einstein-Marity (Marity the maiden name of his wife, Mileva). Adapted from Joffe

There are no miracles in science!

My revolted reference to the "Annus Mirabilis Papers" – 1905.

KATHERINE JOHNSON

- She was a mathematician;
- During her 33-year career at NASA and before works, she earned a reputation for complex manual calculations;
- One of the first African-American women to work as a NASA scientist;
- Johnson's work included calculating air traffic, trajectories, launch windows, and emergency return paths, creating a one-star observation system, encouraging students to enter the fields of science, technology, engineering, and mathematics (STEM).



Her recognition and their other colleagues, black women, was possible due to another great black woman, the author Margot Lee.

VALERIE THOMAS

- She is a data scientist and inventor;
- She was one of two women majoring in physics (Morgan State University);
- She developed real-time computer data systems to support satellite operations control centers;
- She invented the illusion transmitter (3-D illusions).



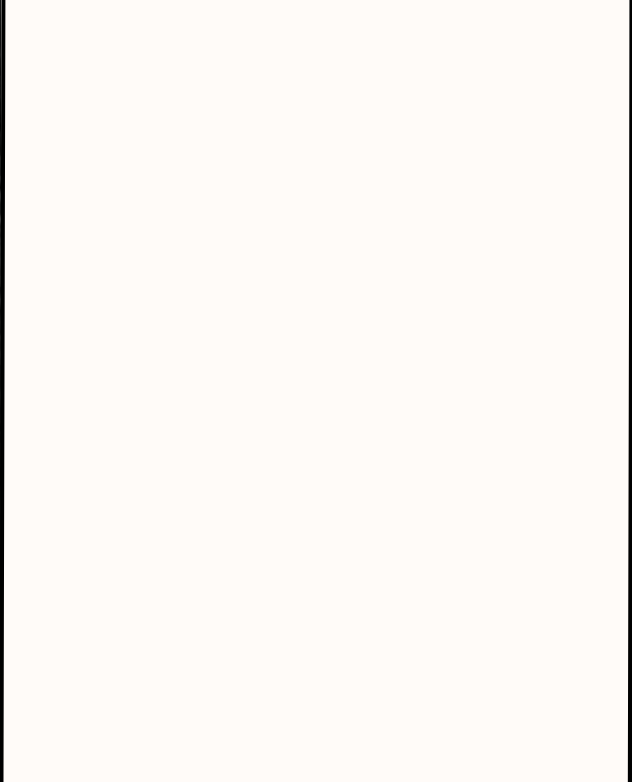
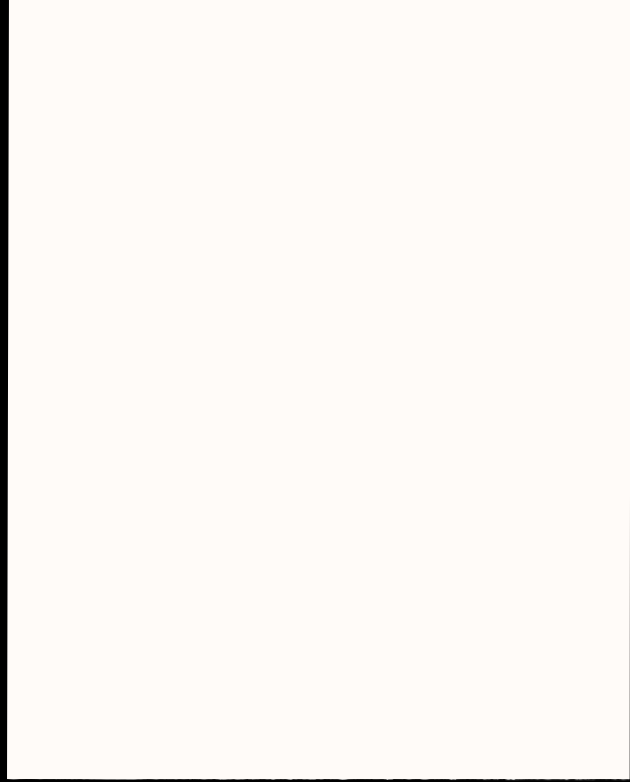
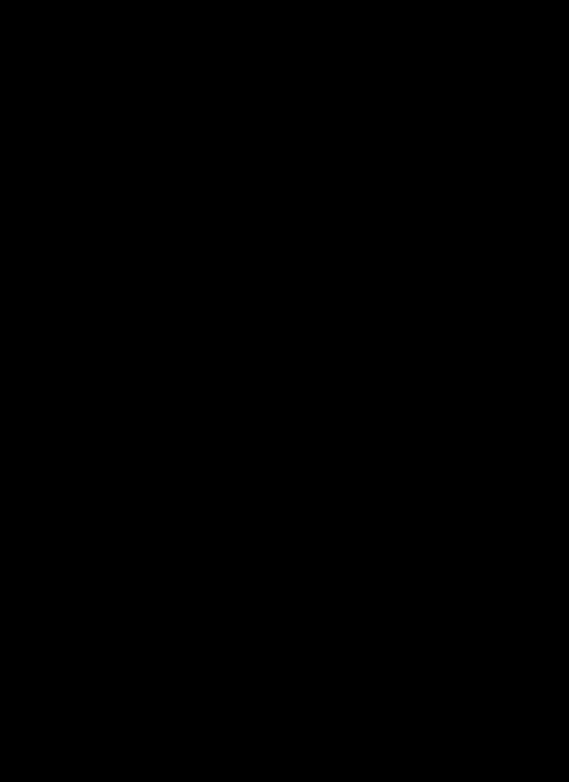
Dr Thomas works as a teacher at DuBois High School, developing young people's interest in science, and helping inspire students under her mentorship; She is a pioneer in computer data systems and image processing, a field (like so many other science fields) that is still dominated by cis white men.

BÁRBARA CARINE

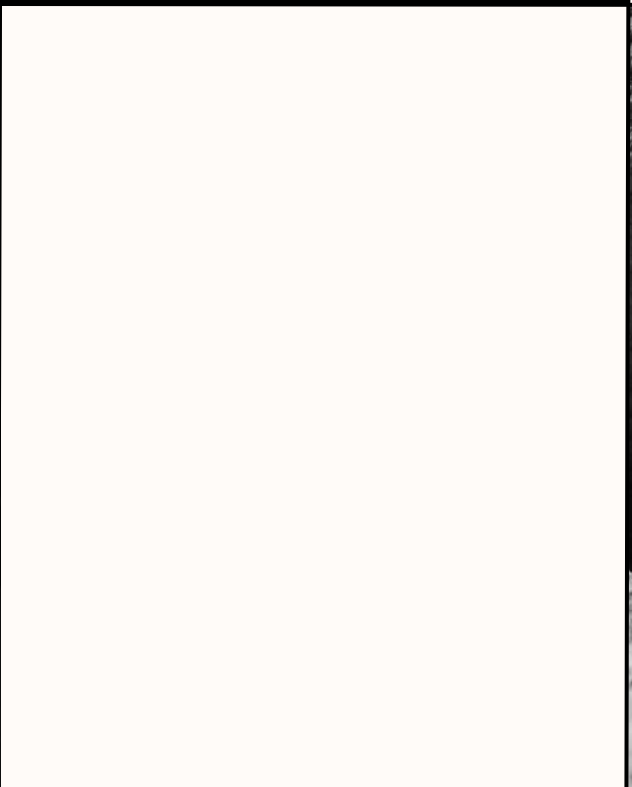
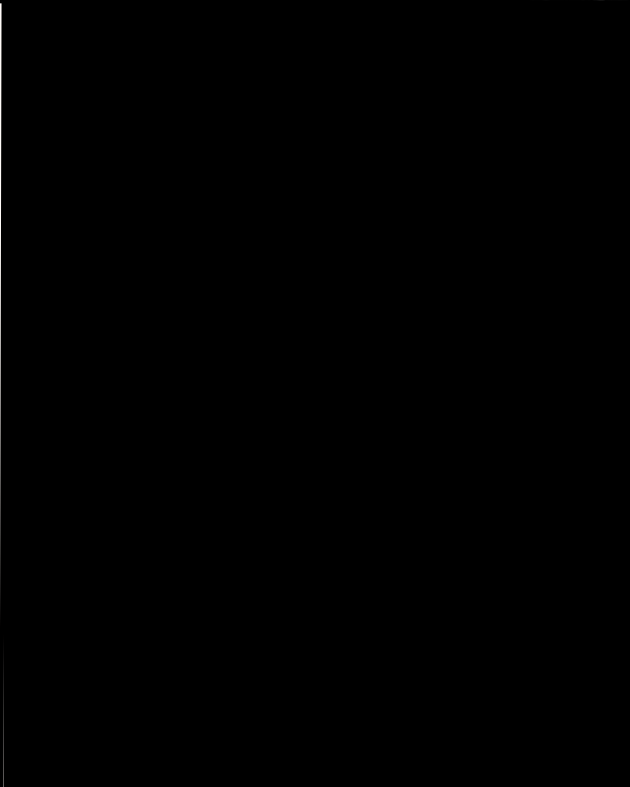
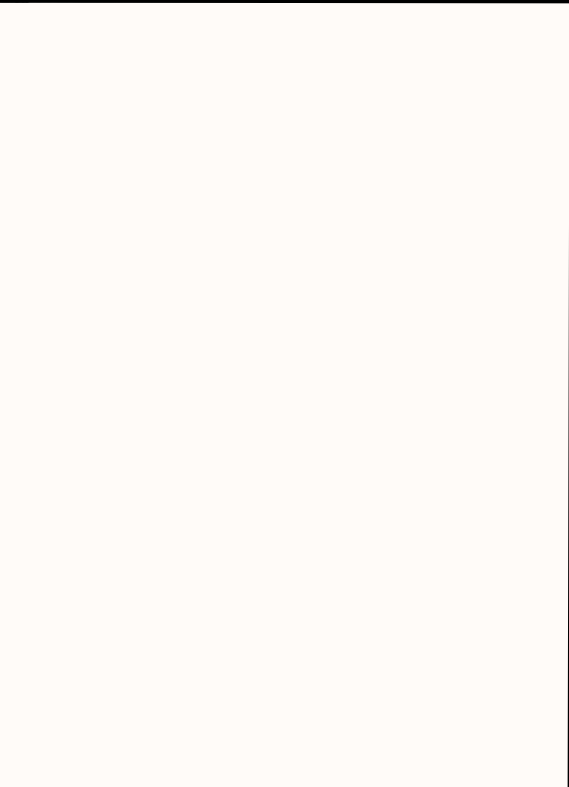
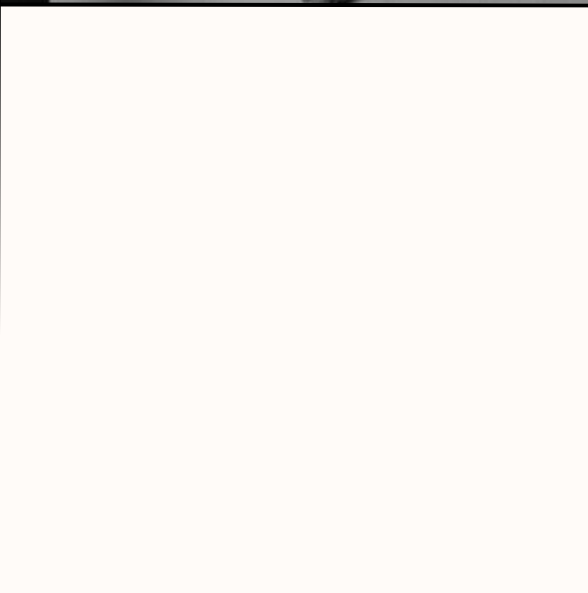
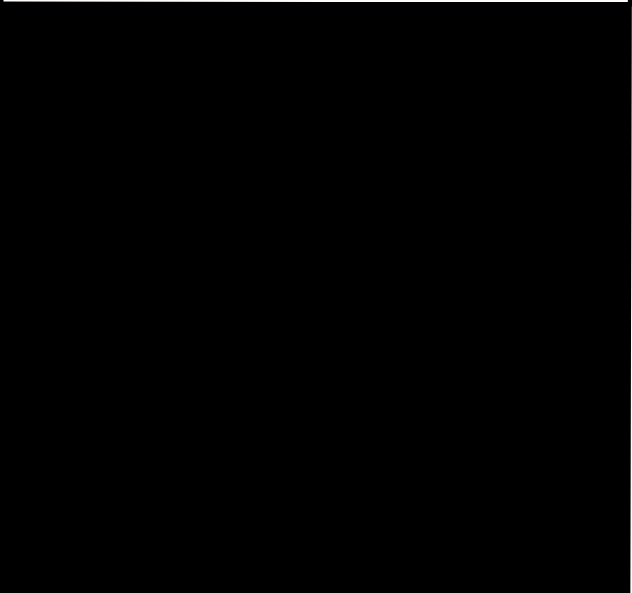
- She is a chemist and philosopher;
- Research on chemistry teaching;
- She promotes science on social media and encourages young black Brazilians to pursue their dreams and rights;
- She is the author of several books, including "Descolonizando Saberes", "História preta das coisas", "Como ser um educador antirracista", among other titles.



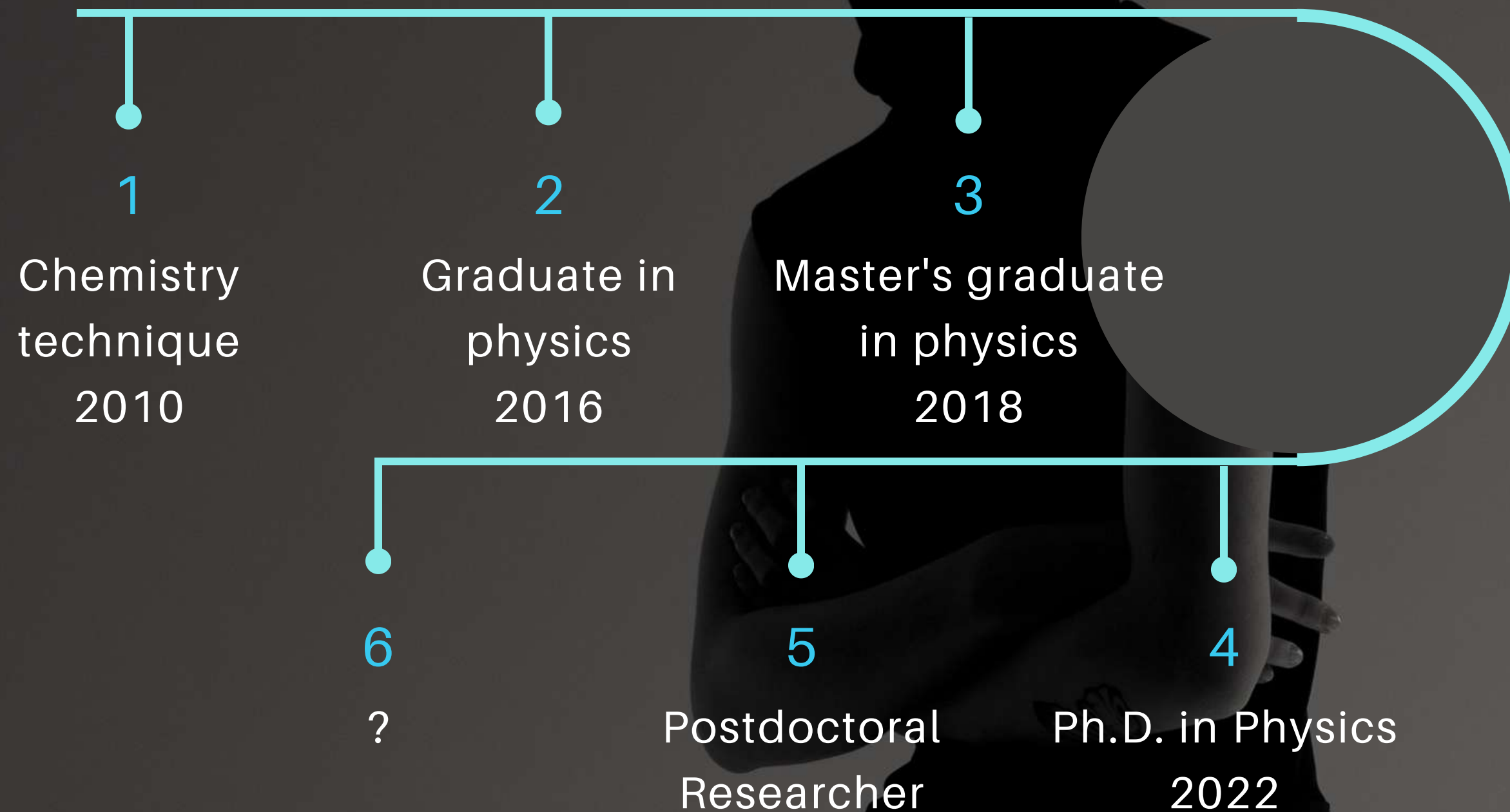
I'm a big fan and I appreciate all the support she provides for young black academics!!



MY HISTORY



My (academic) history



My (academic) history

1

Chemistry
technique

Grad
p

6

?



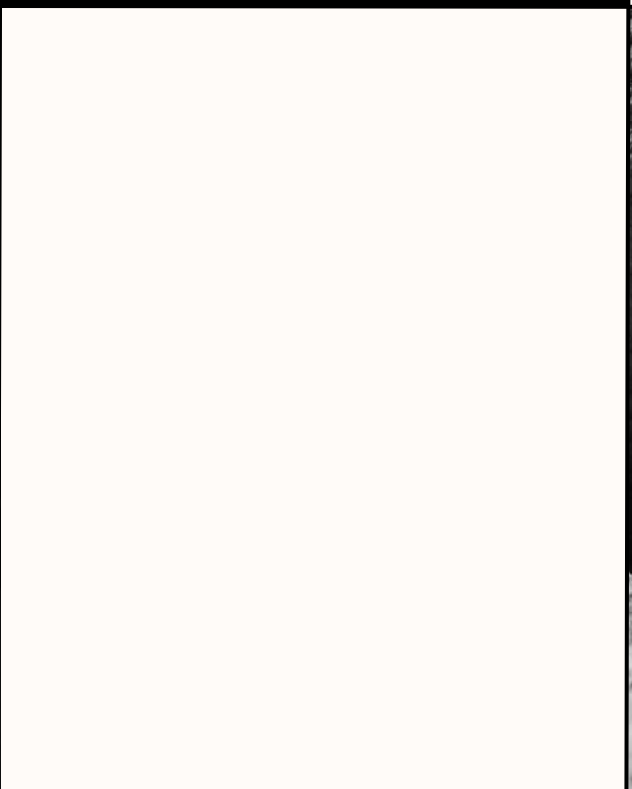
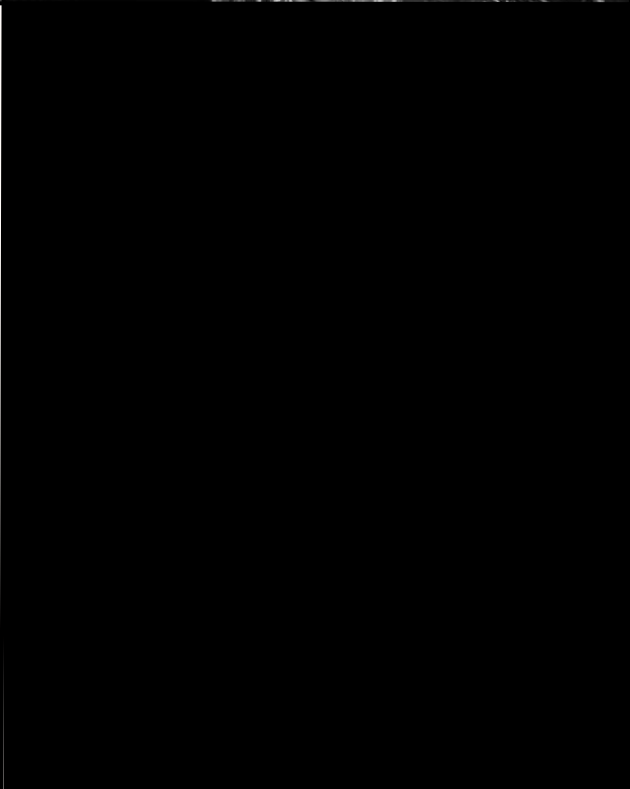
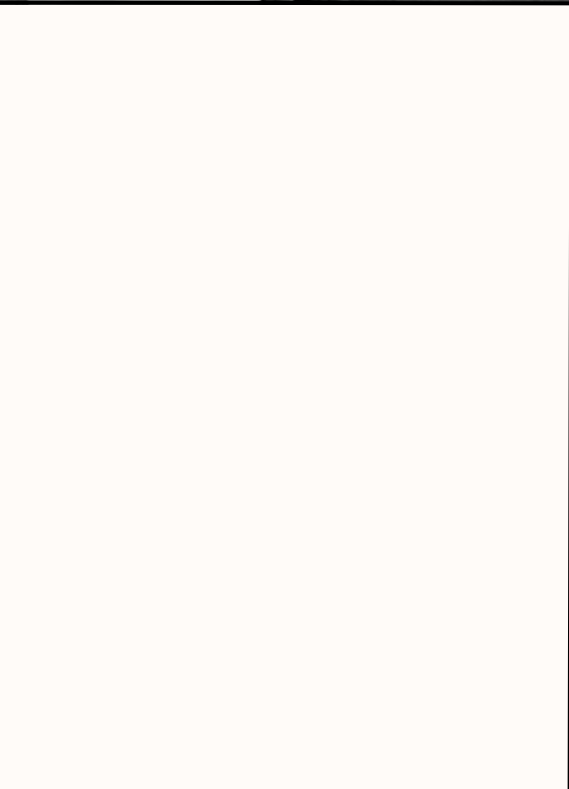
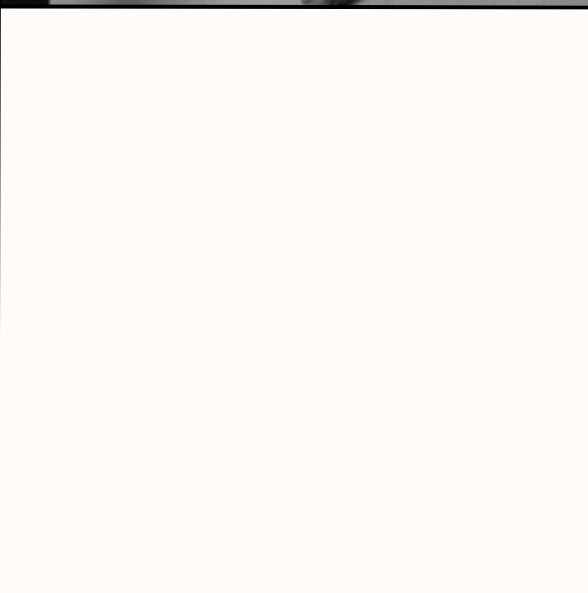
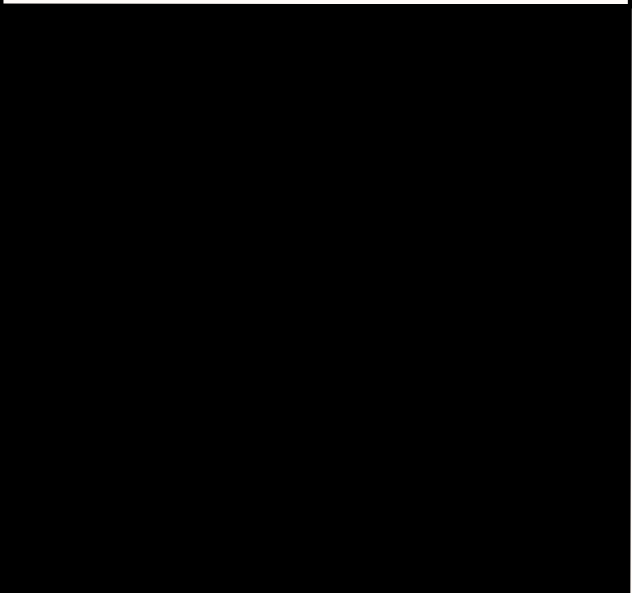
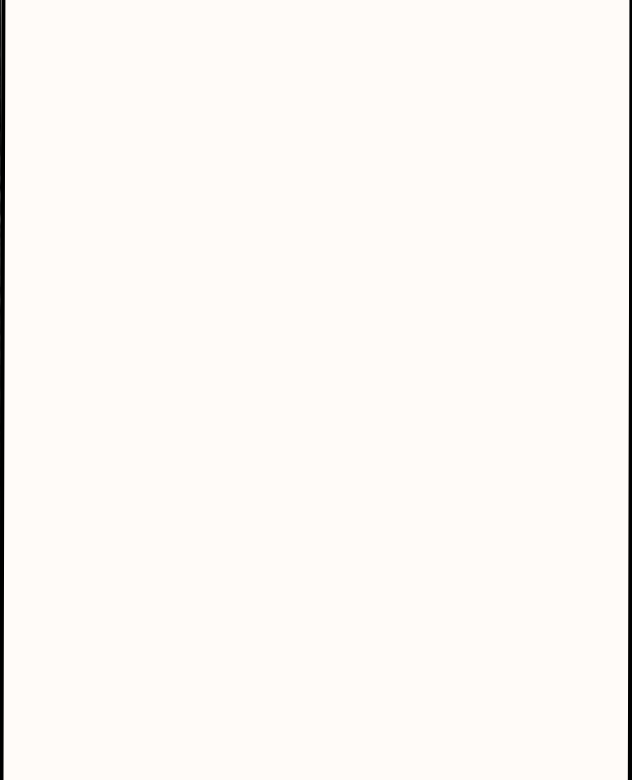
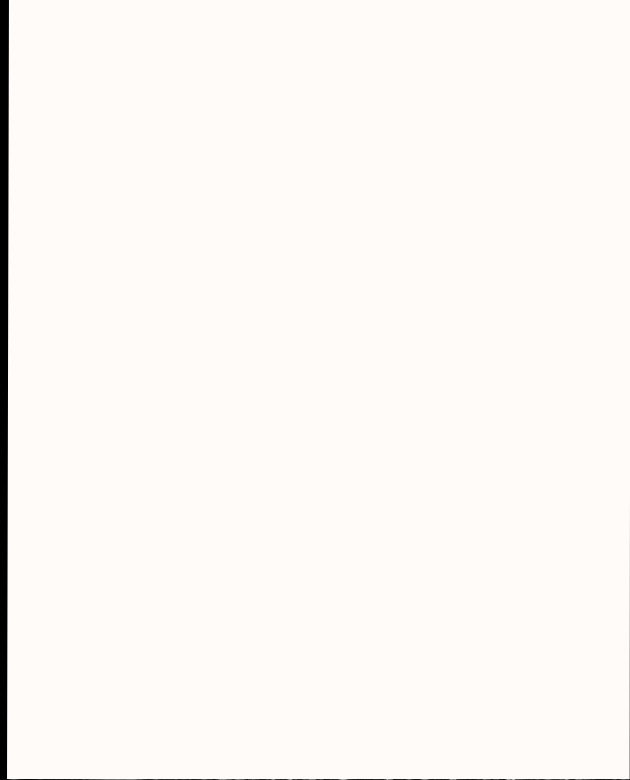
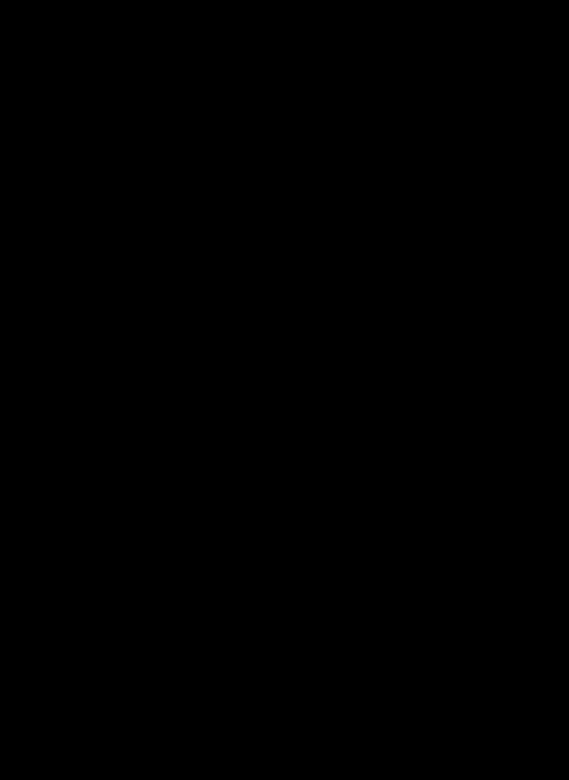
I don't have a
favorite!

MY HISTORY

I became pregnant in the first year of my undergraduate studies. I took a break, then returned to continue. I had to navigate life as a solo mother to my daughter, relying solely on a research scholarship, university daycare, assistance from colleagues, and sharing a house with others. While there were times I needed to take breaks, contrary to what many people said, I always returned!

DIFFICULTS

Maternity	Financial problems
Reconciling the responsibilities of caring for a child and managing study or laboratory work is a challenge. Often, mothers fulfill multiple roles as caregivers, educators, psychologists, nurses, cooks, and more. This multifaceted and demanding workload represents an unjust and often invisible aspect of their efforts.	Taking care of a child involves being responsible for their education, and similar to all aspects of life, it demands time, patience, and MONEY. My daughter, like many other children in this country, experienced a considerable amount of social insecurity due to my financial constraints.



MATERIALS

Carbon quantum
dots



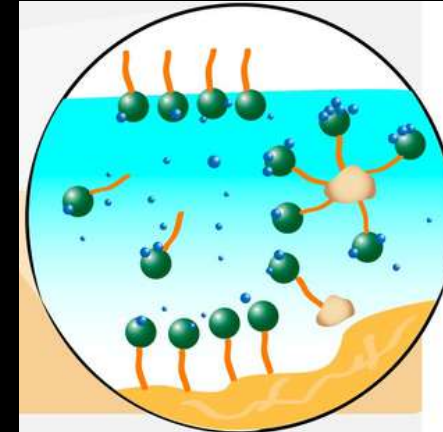
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MATERIALS

Carbon quantum
dots



Surfactants



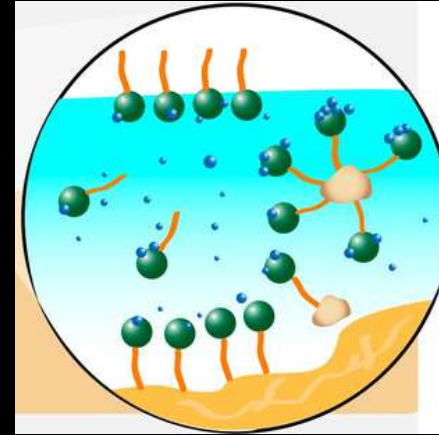
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MATERIALS

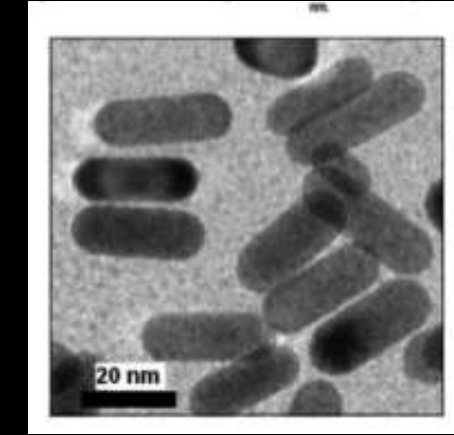
Carbon quantum
dots



Surfactants



Metallic
nanoparticles



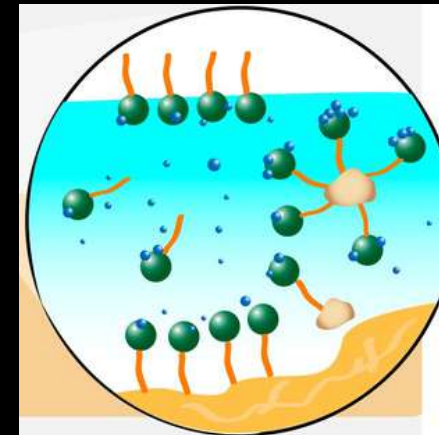
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MATERIALS

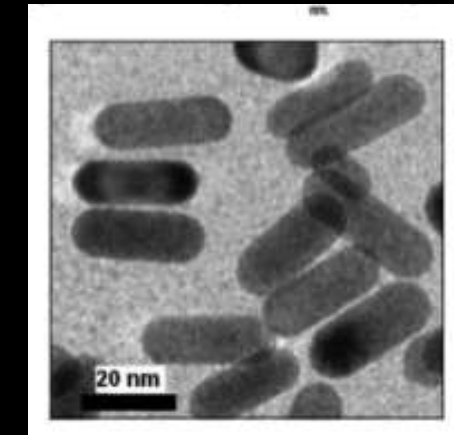
Carbon quantum
dots



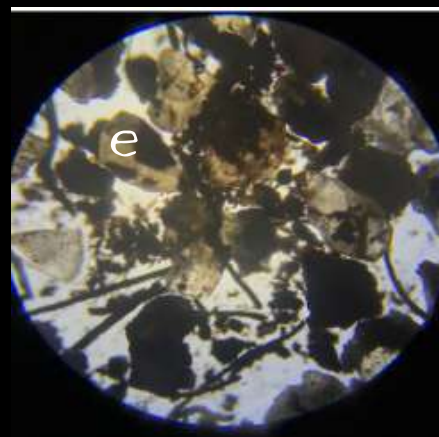
Surfactants



Metallic
nanoparticles



Construction and
demolition waste

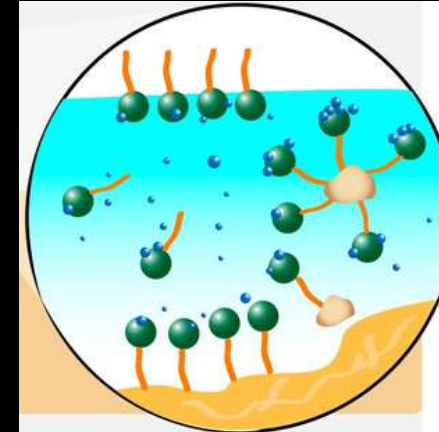


MATERIALS

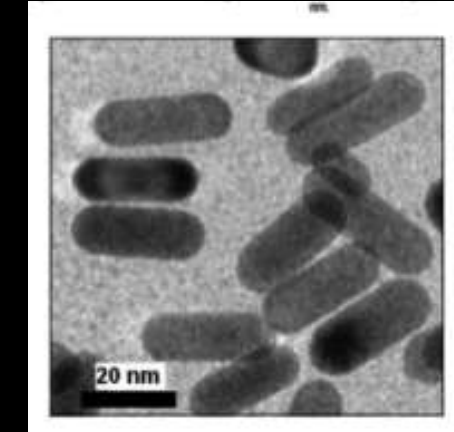
Carbon quantum dots



Surfactants



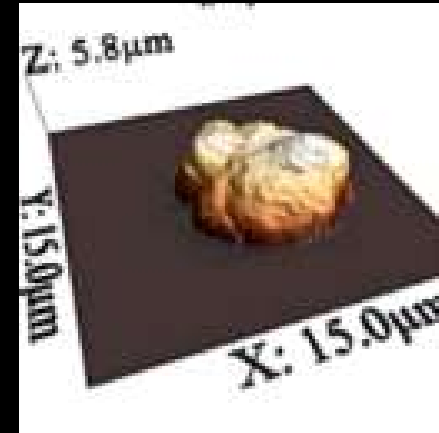
Metallic nanoparticles



Construction and demolition waste



Microplastic

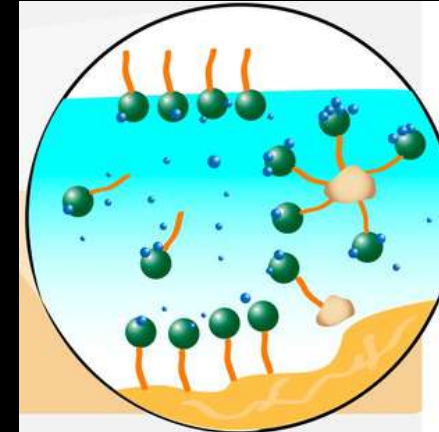


MATERIALS

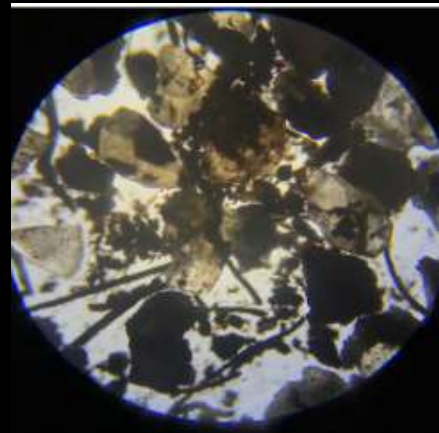
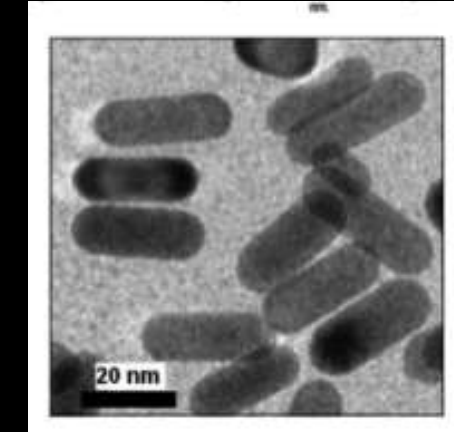
Carbon quantum dots



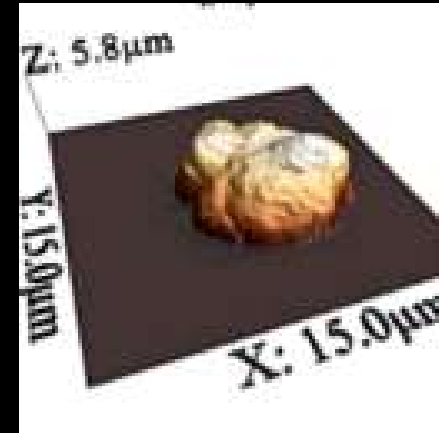
Surfactants



Metallic nanoparticles



Construction and demolition waste



Microplastic

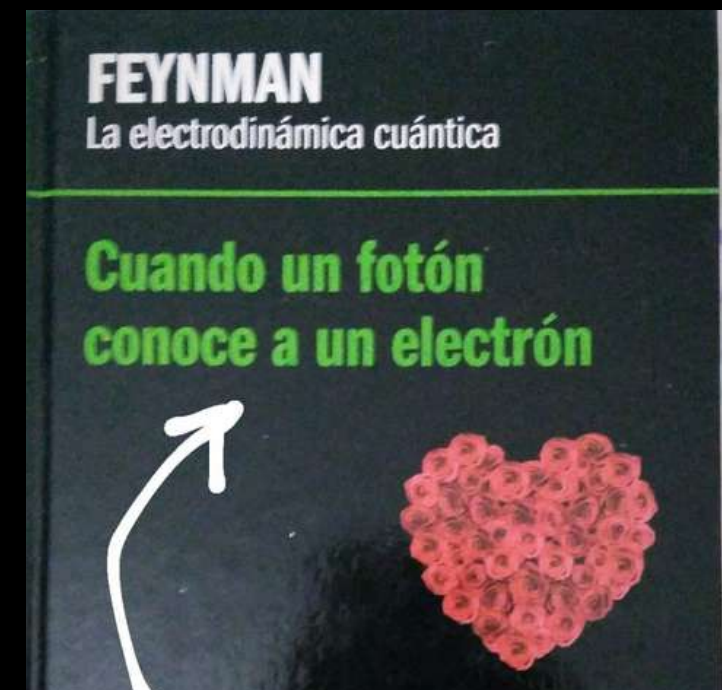
Invite to collaborate

sendymelissa@gmail.com



SPECTRUM

I study the meeting between light and matter!



RSC Advances

PAPER



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Cite this: *RSC Adv.*, 2021, 11, 2767

Temperature-dependence on the optical properties of chitosan carbon dots in the solid state†



J Nanopart Res (2021) 23: 262

<https://doi.org/10.1007/s11051-021-05362-7>

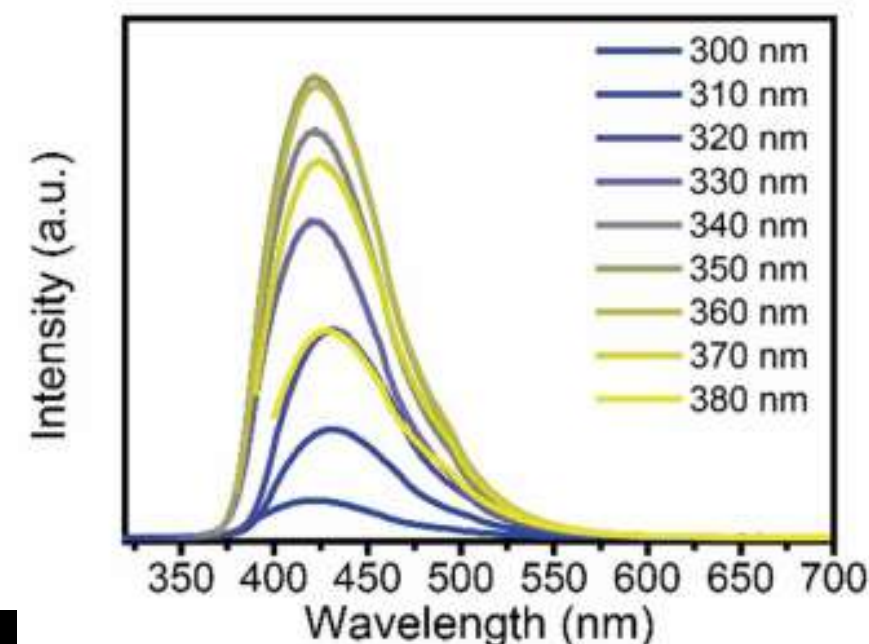
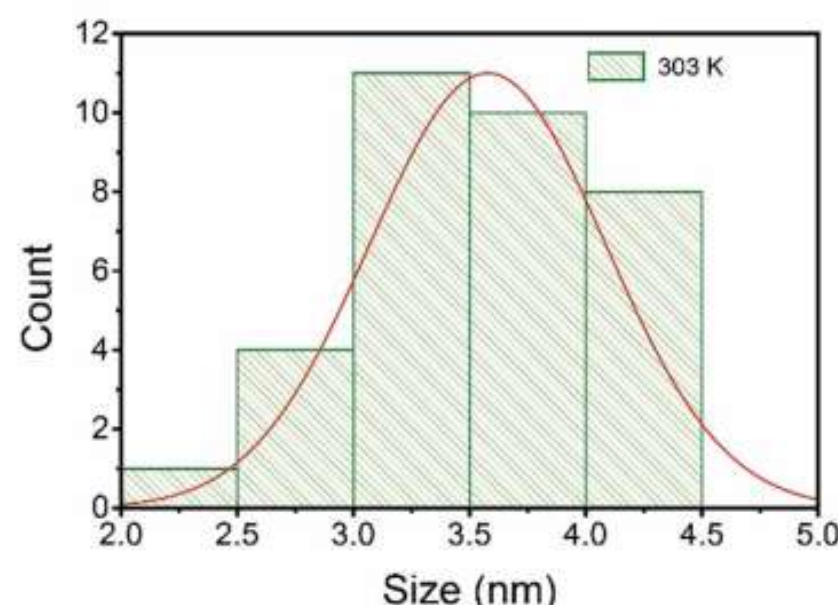
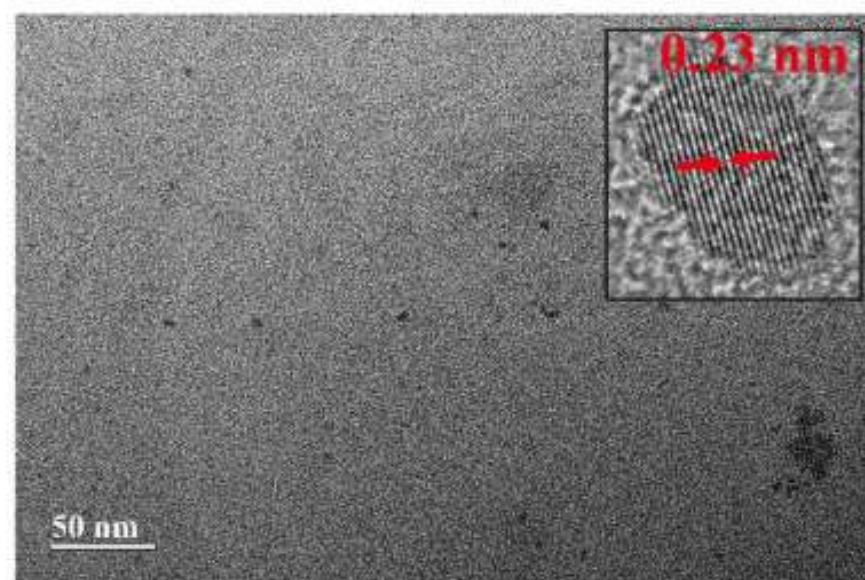
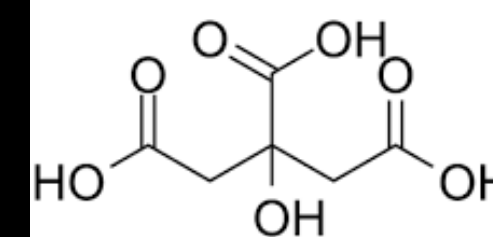
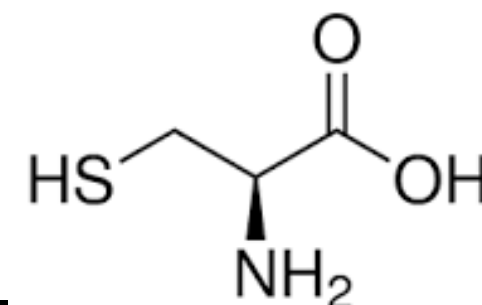
RESEARCH PAPER



An eco-friendly green and facile synthesis of carbon dots from red propolis wax with photoluminescence dependent of reaction time and thermal treatment in solid state



Tuning the photoluminescence by engineering surface states/size of S, N co-doped carbon dots for cellular imaging applications



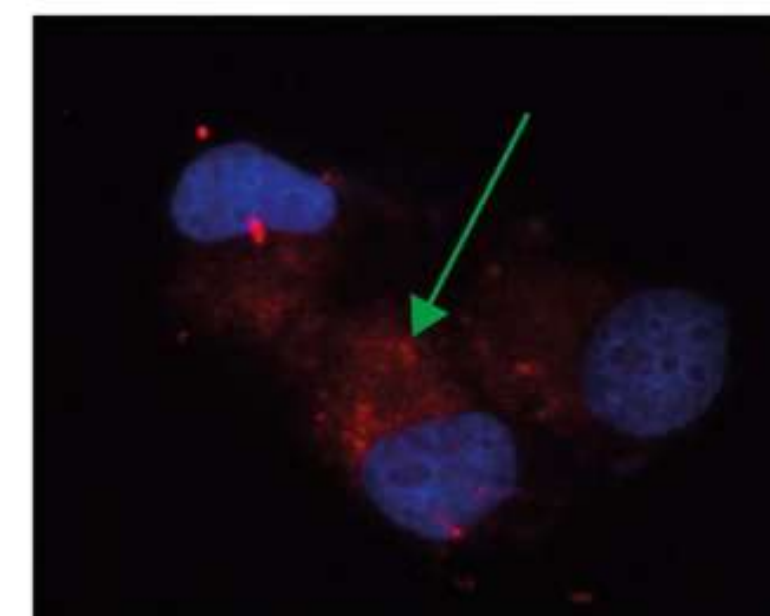
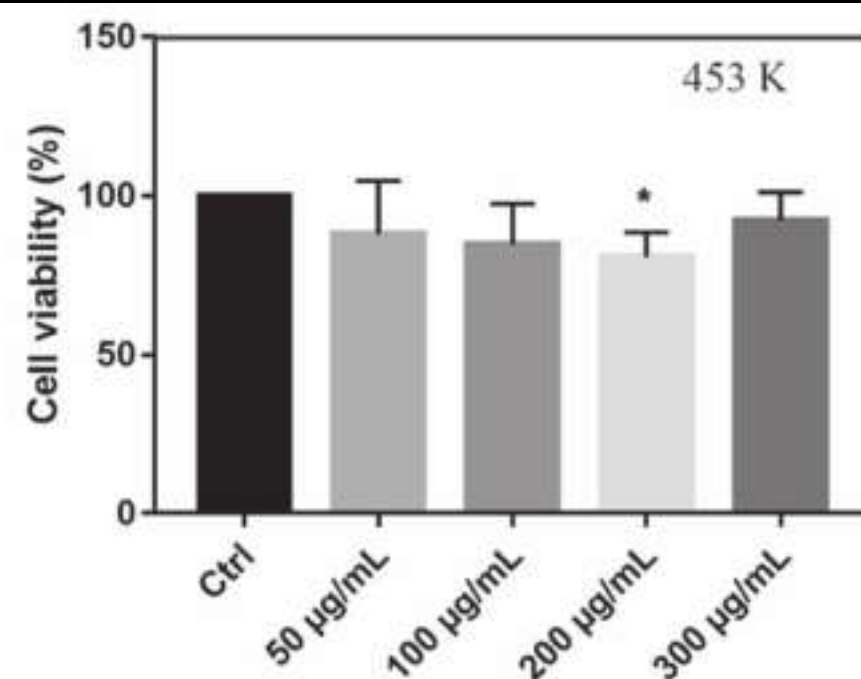
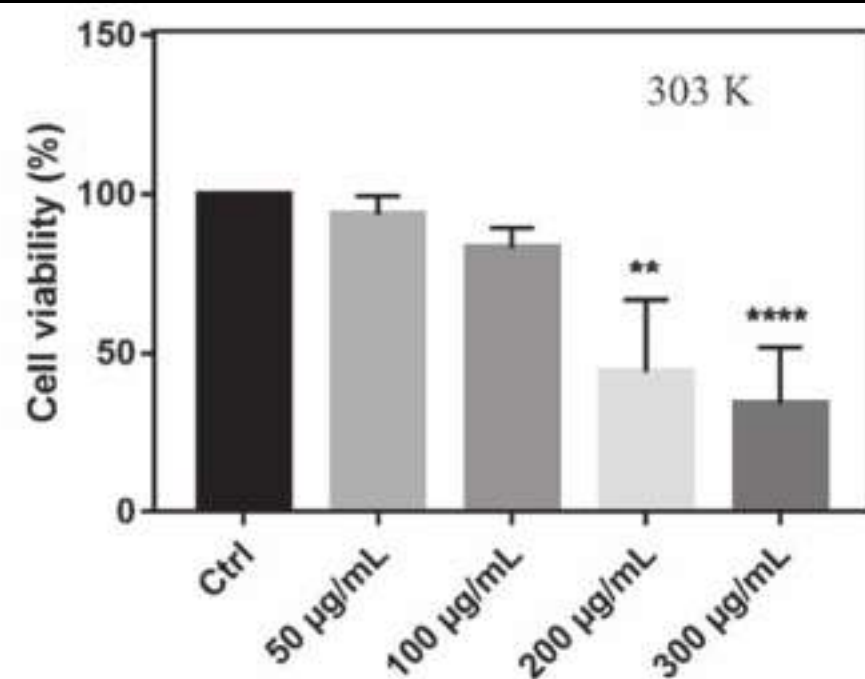
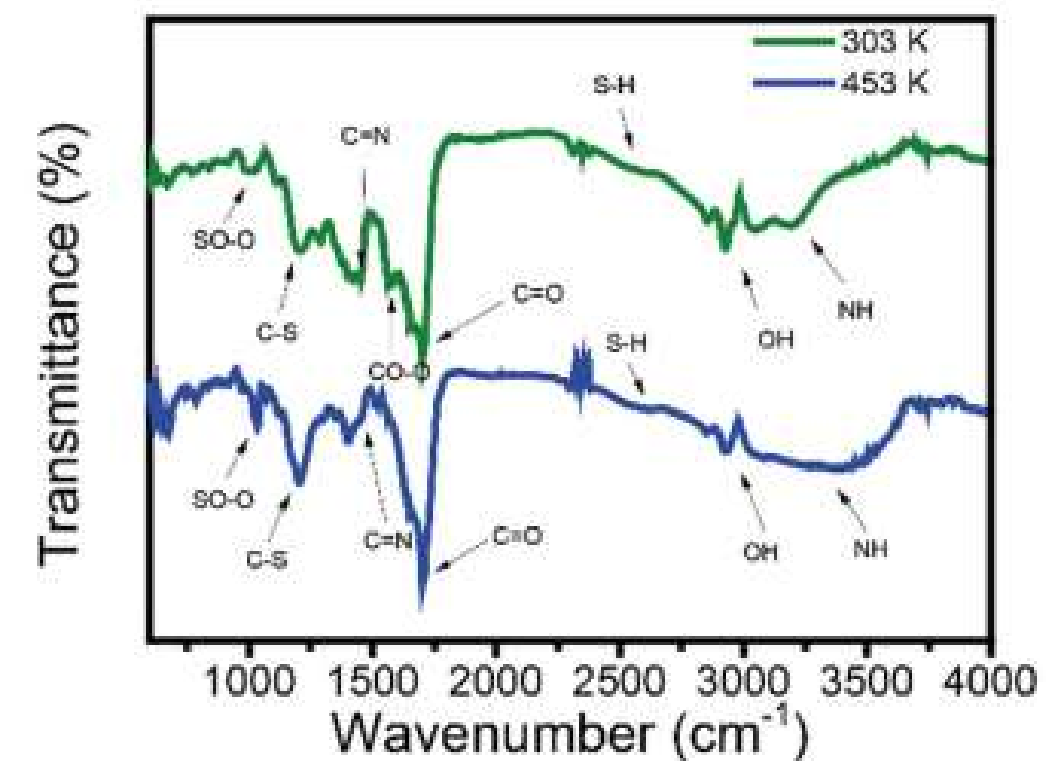
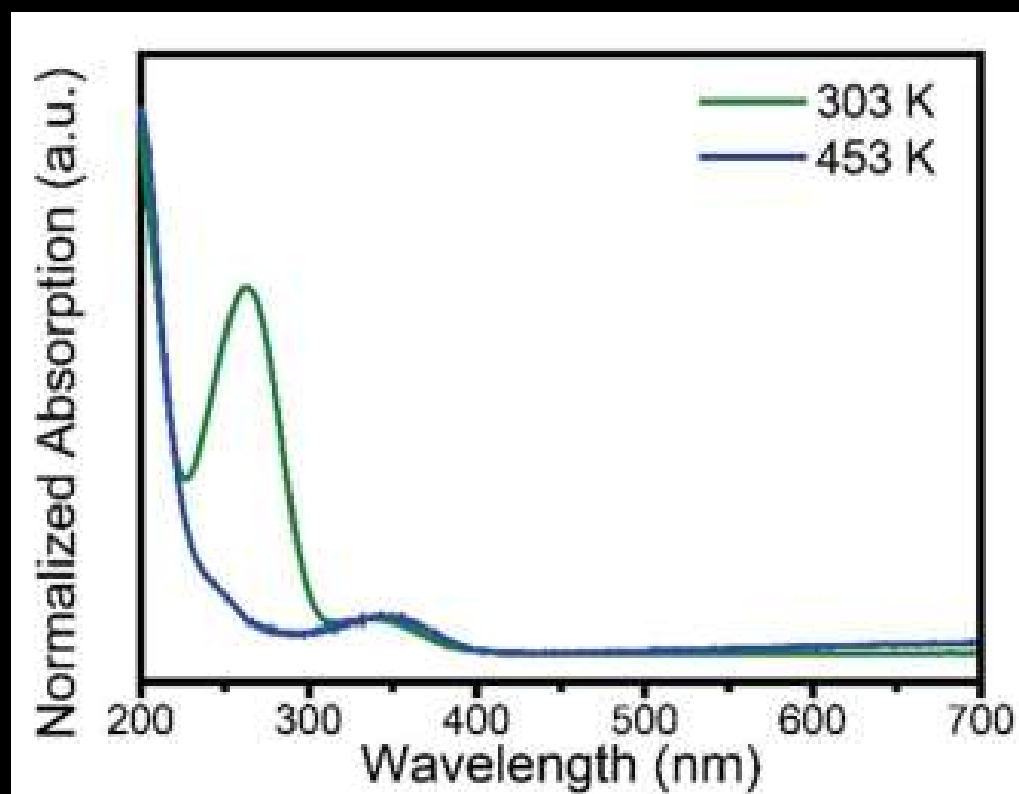
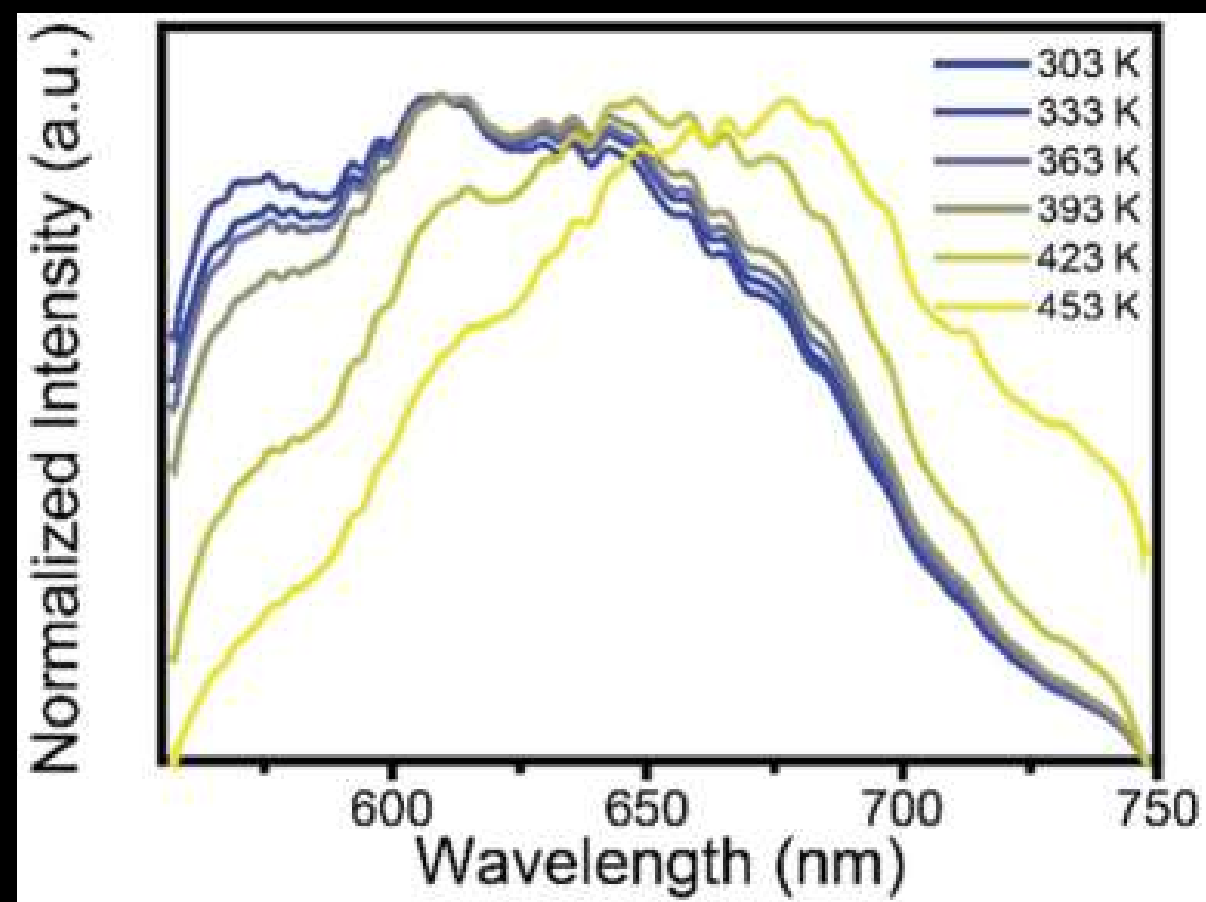
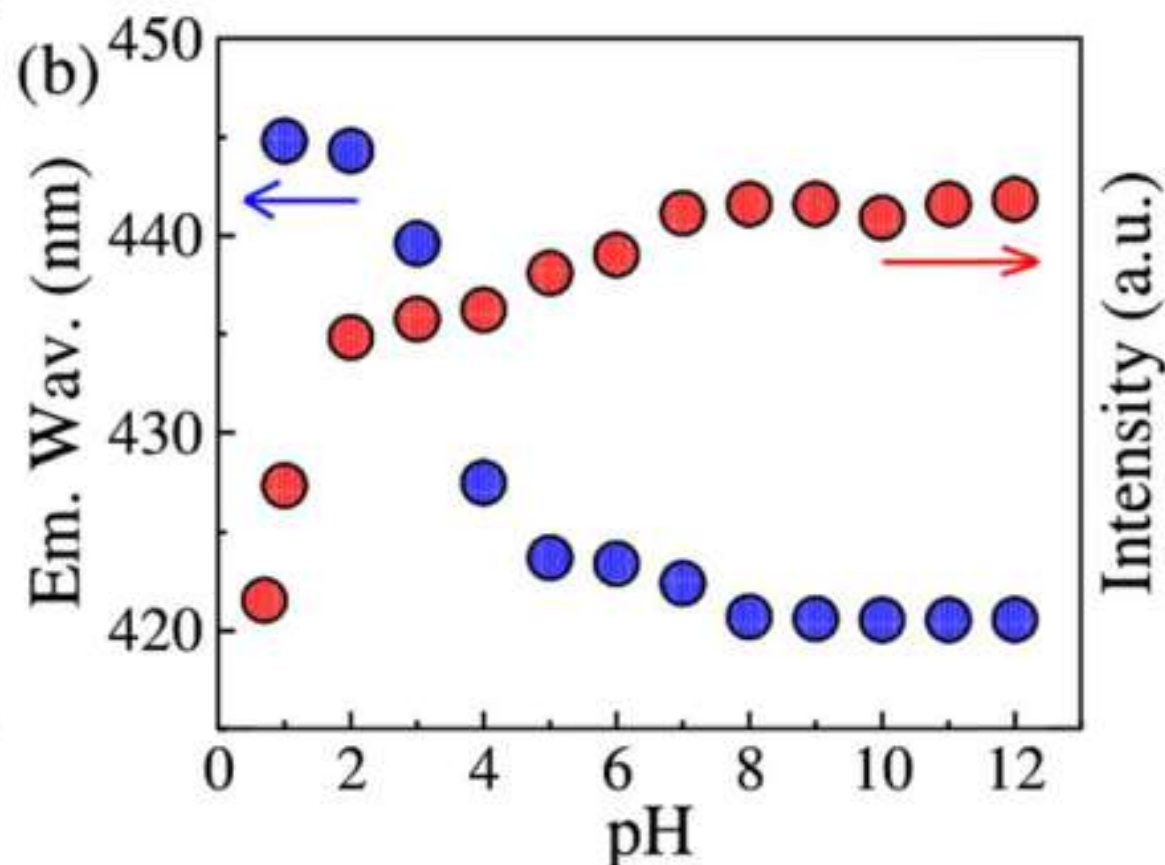
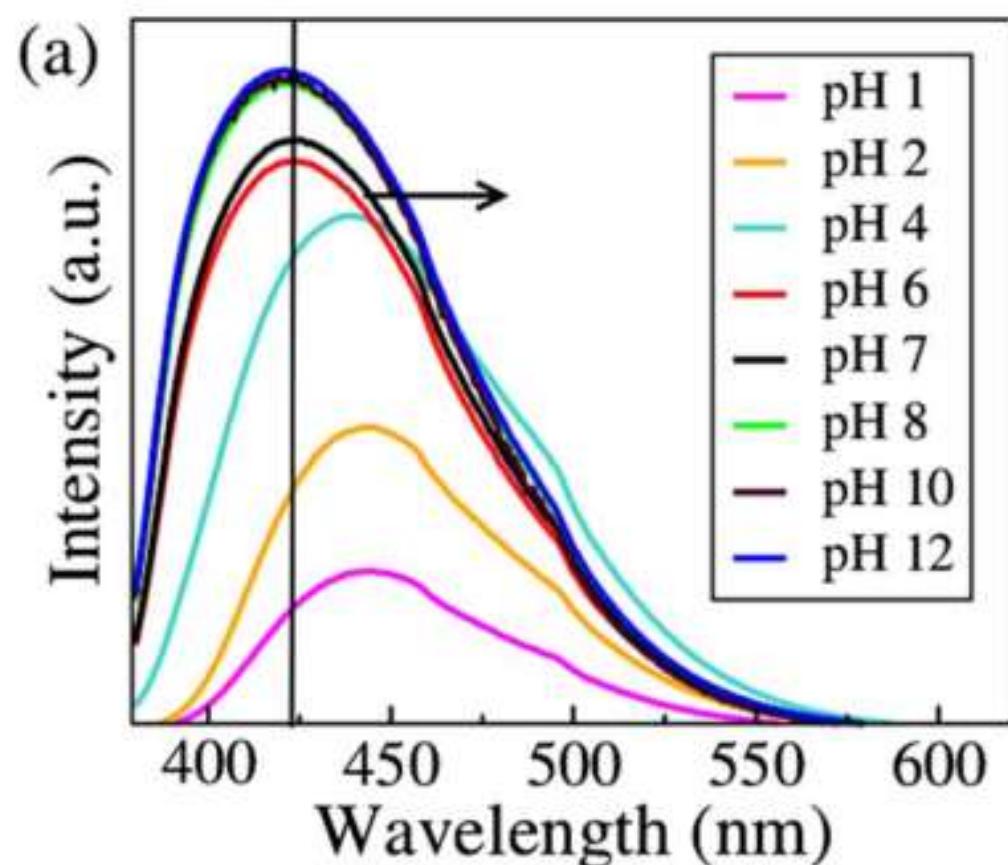
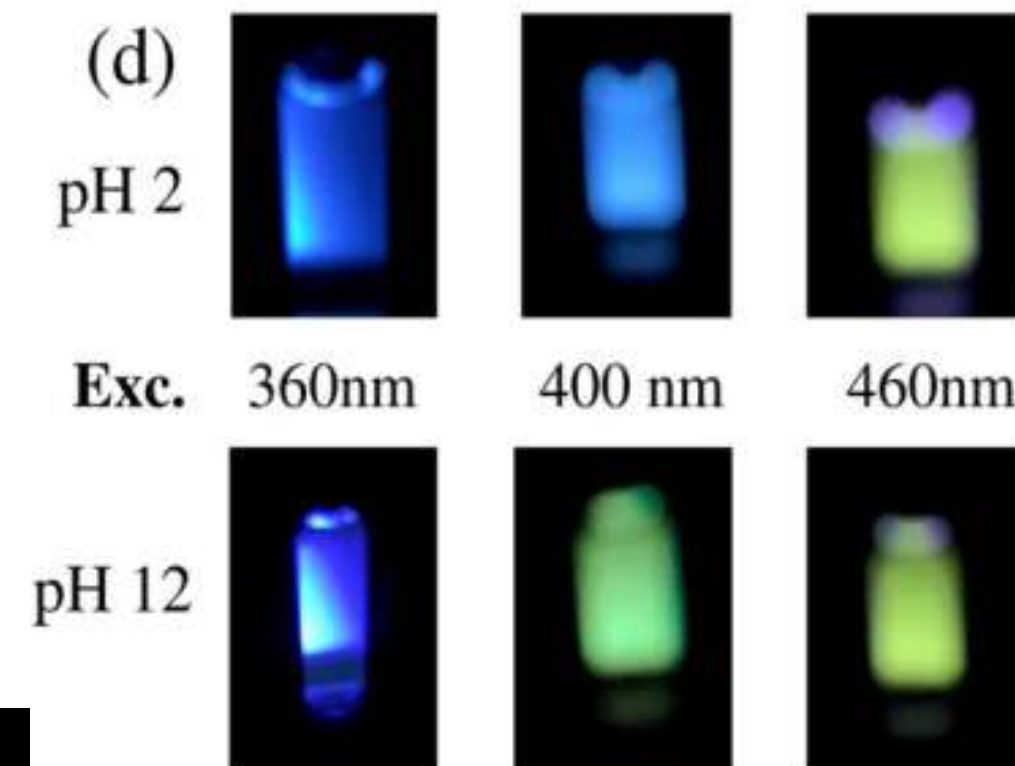
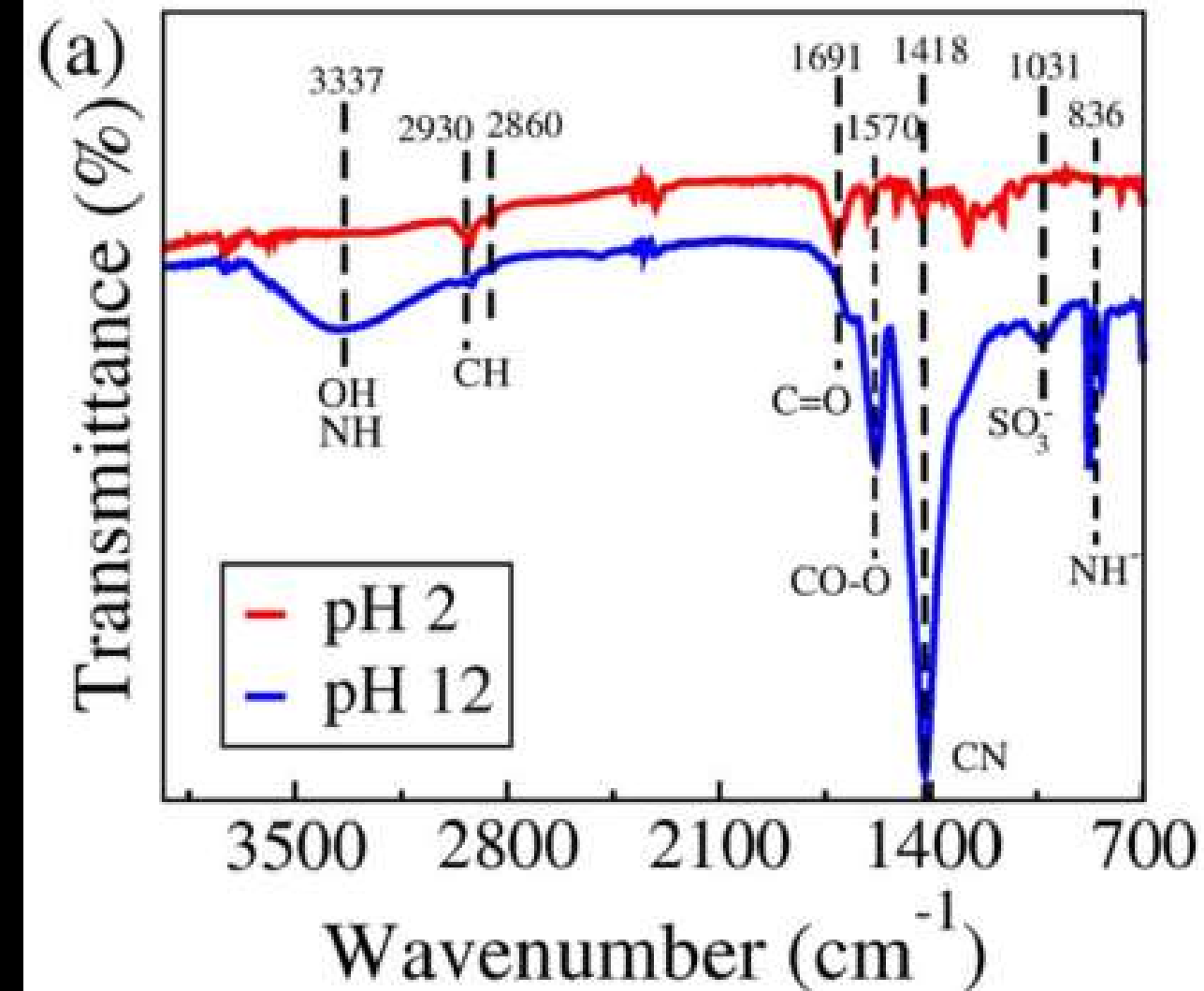
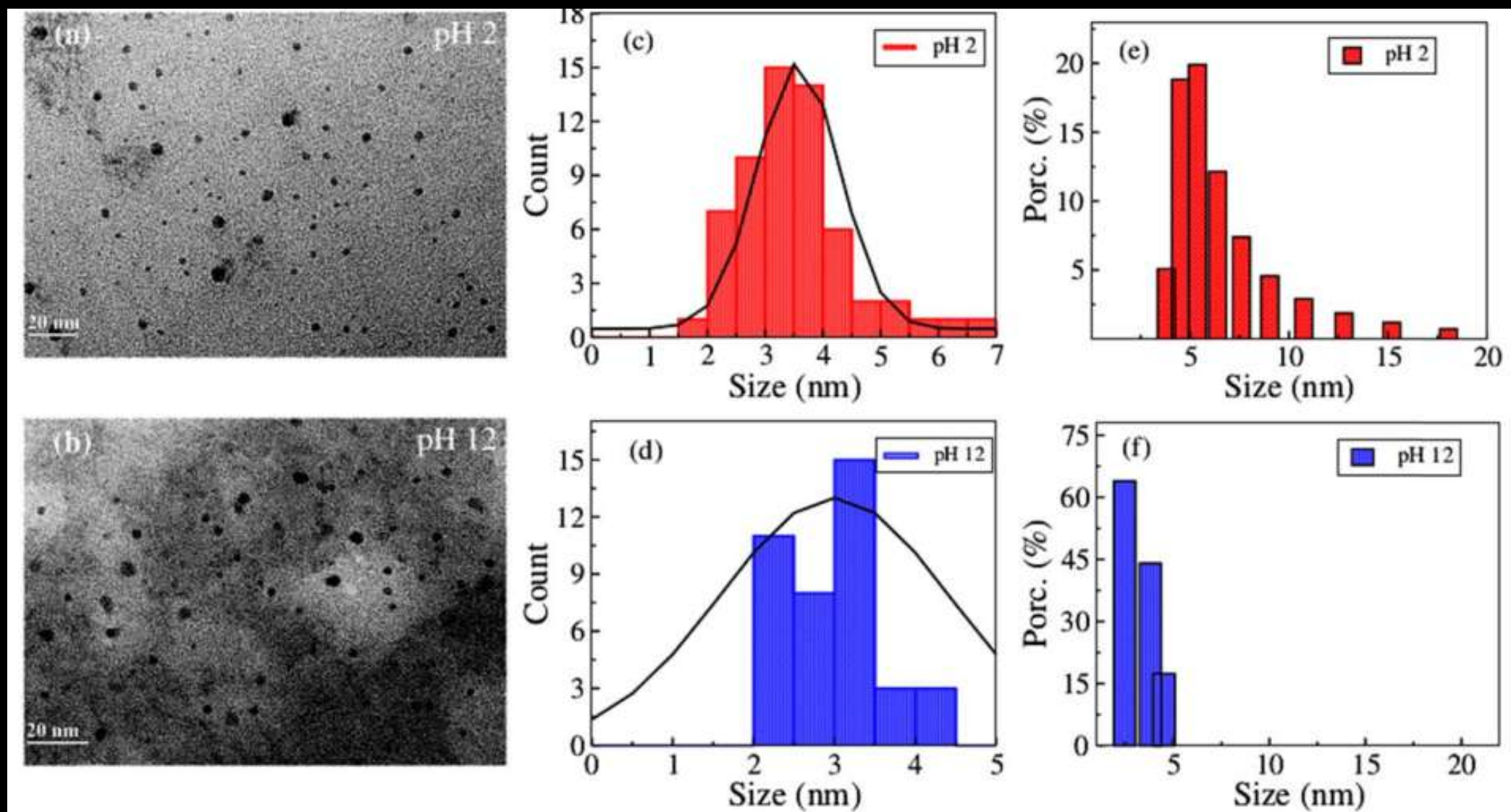


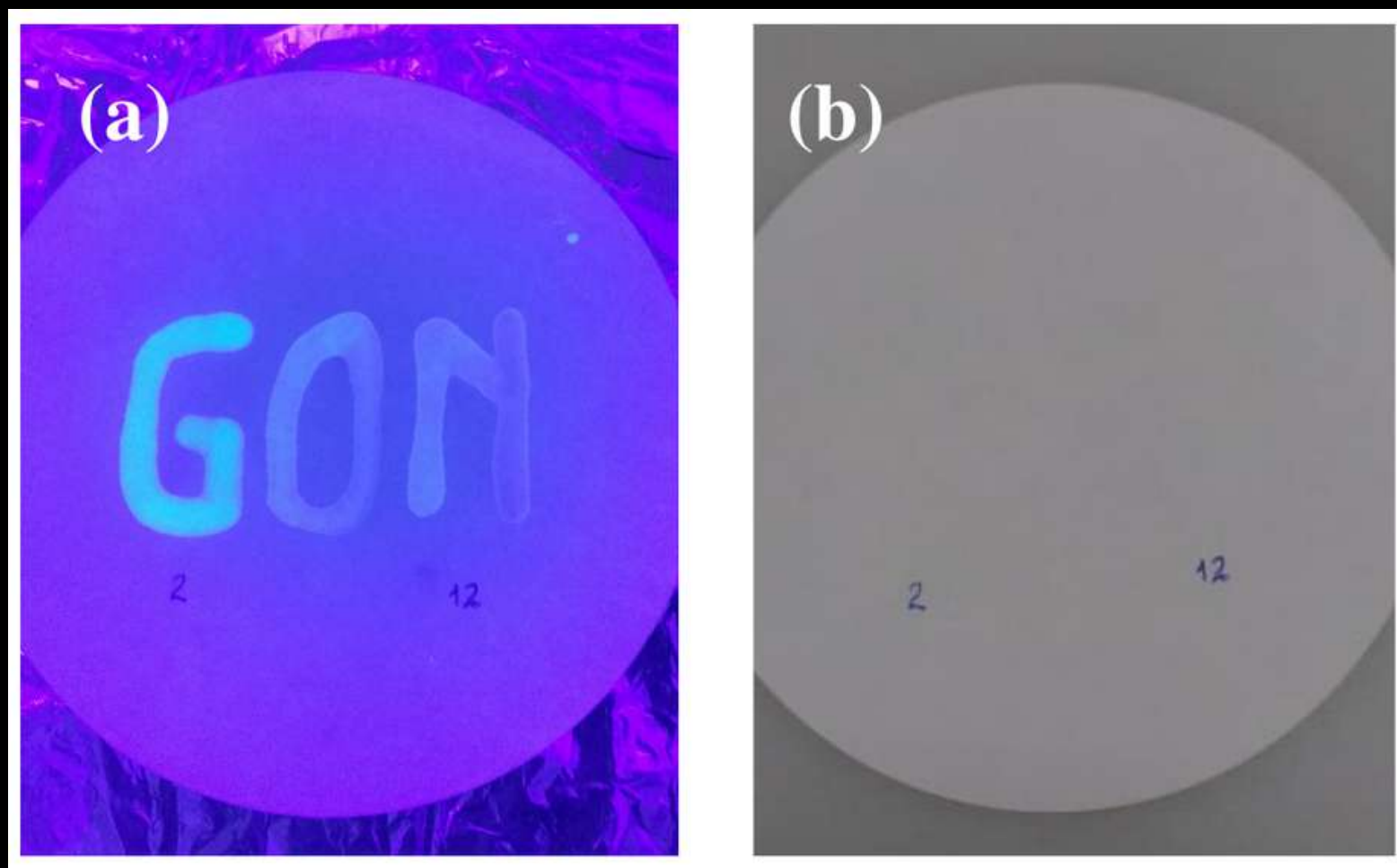
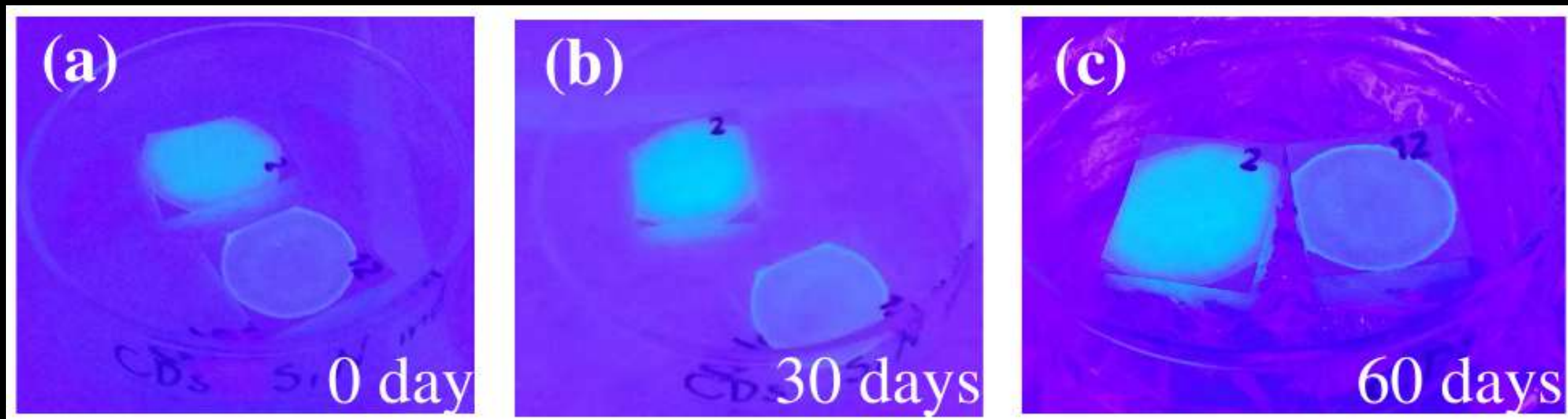
Figure 7. HTR-8/SVneo cells staining profile. (a) 303 K, (b) 453 K.

Figure 6. Cell viability of HTR-8/SVneo cells in the presence of different concentration of as-prepared CDs. (a) 303 K, (b) 453 K.

Study of the pH effect on the optical and morphological properties of S, N self-doped carbon dots applied as fluorescent anti-counterfeiting ink and pH sensor

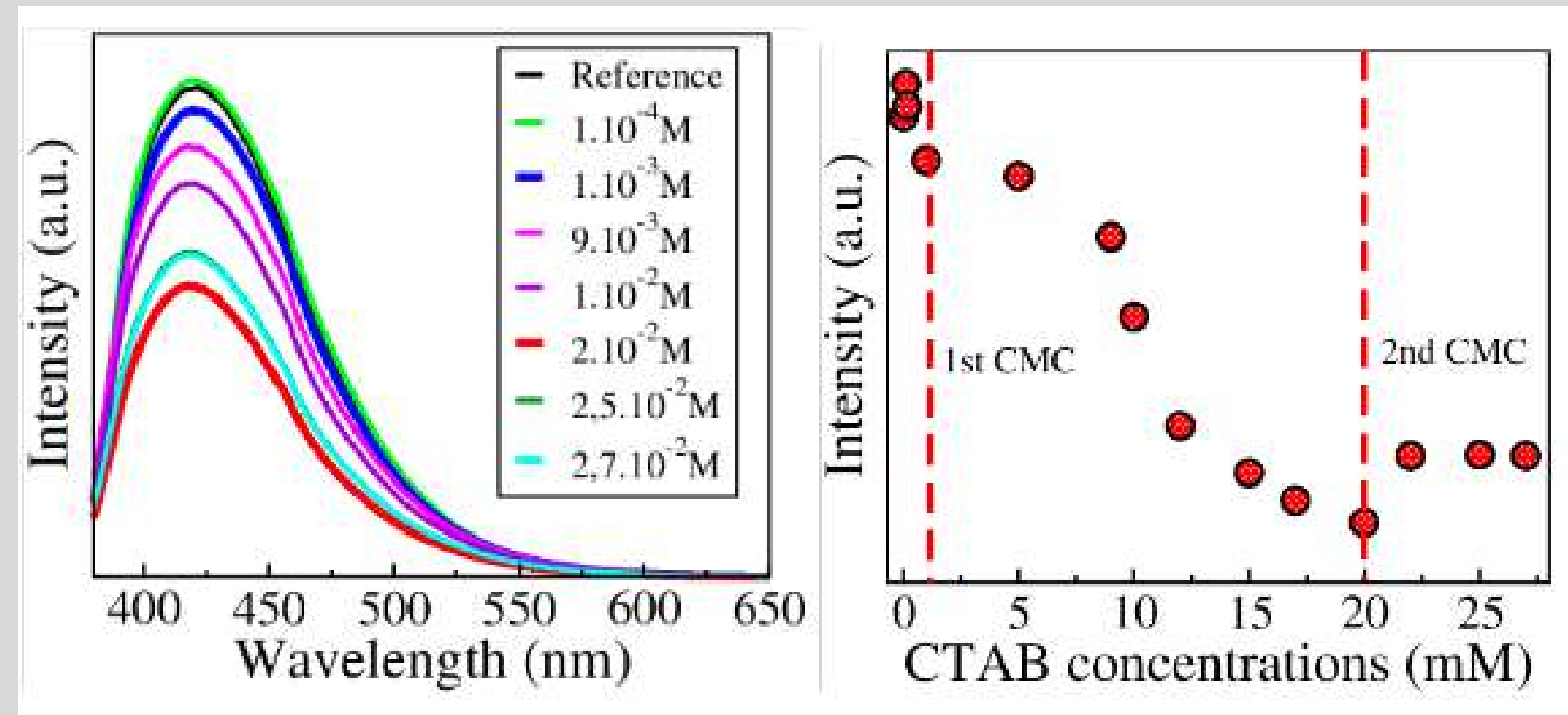
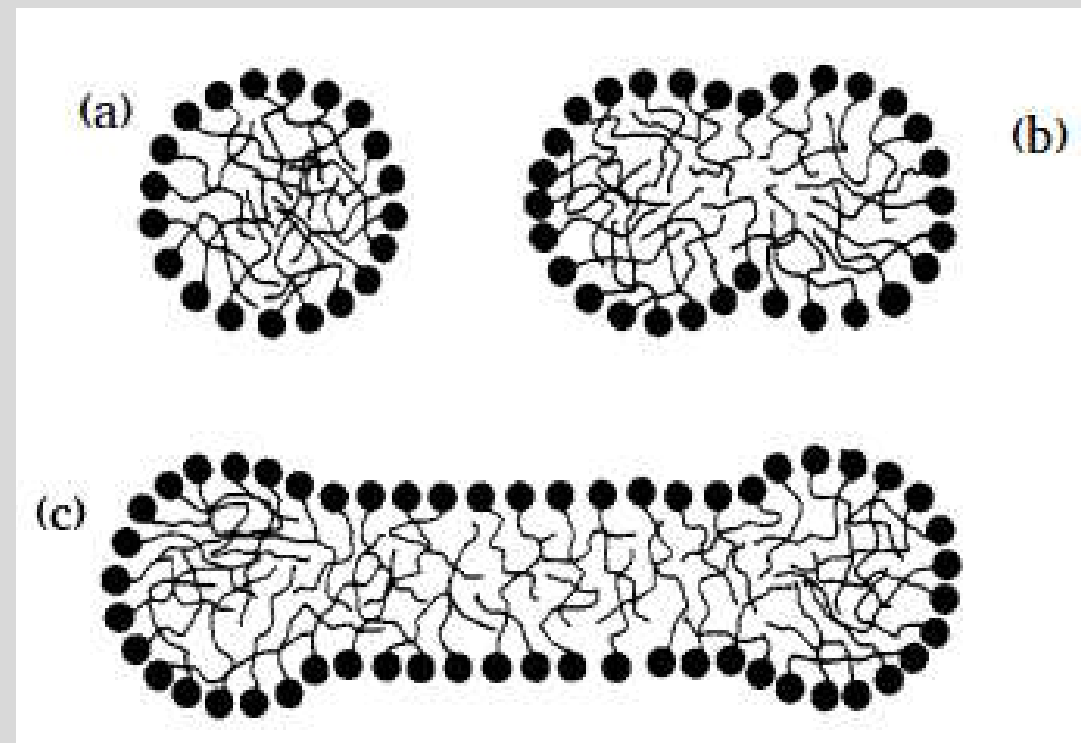
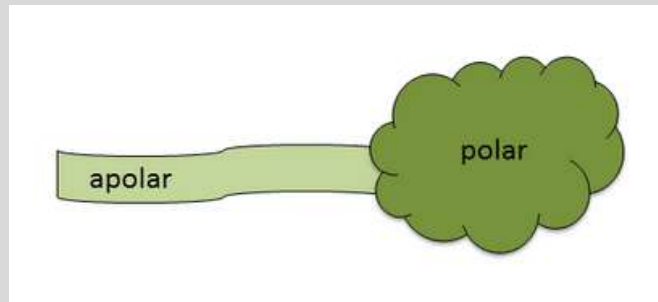


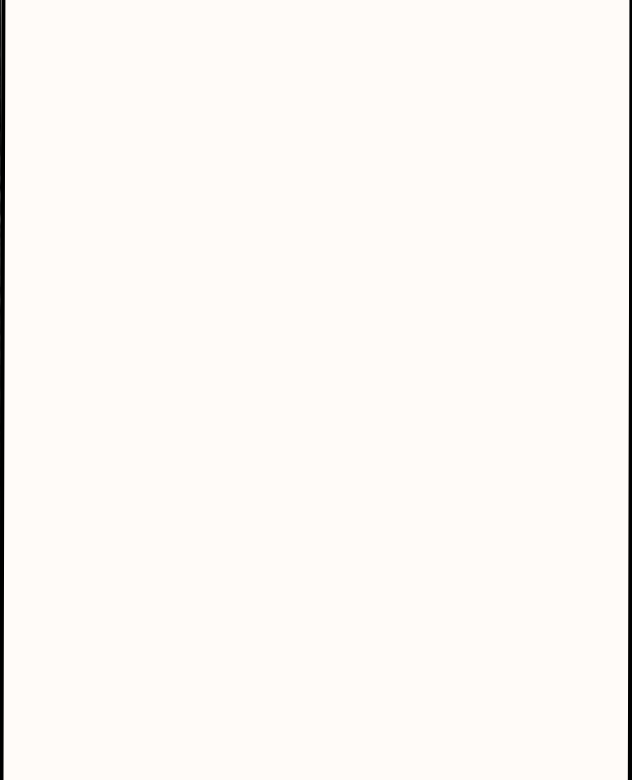
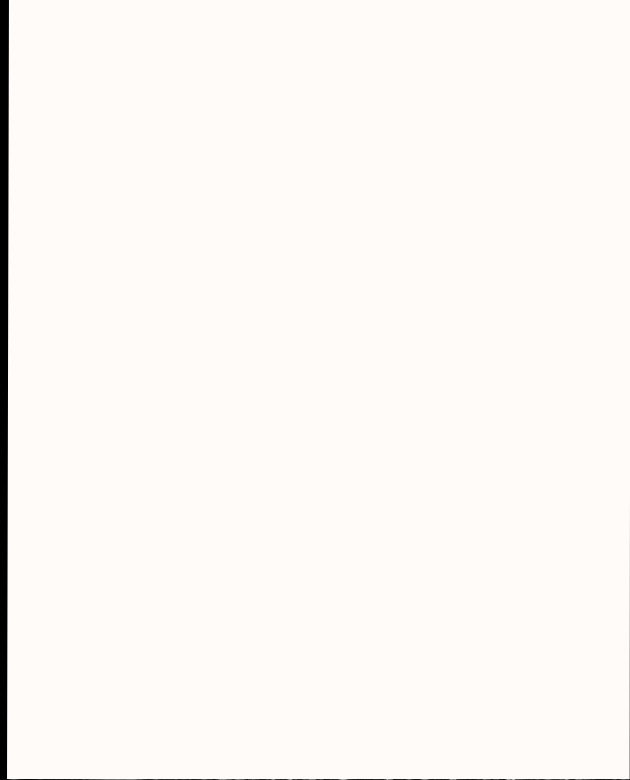
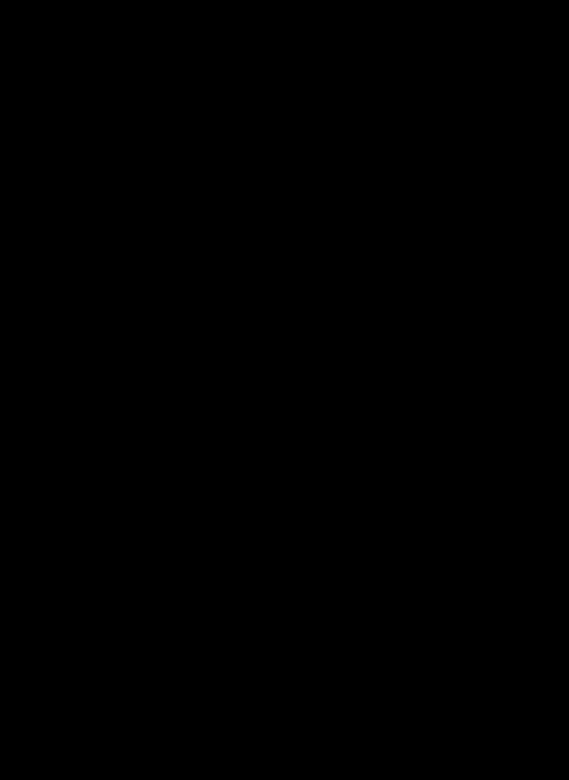




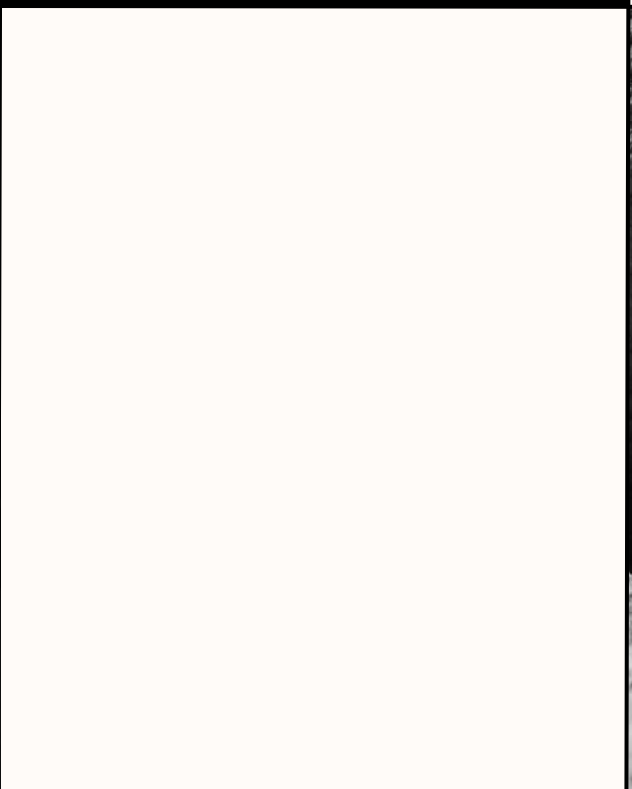
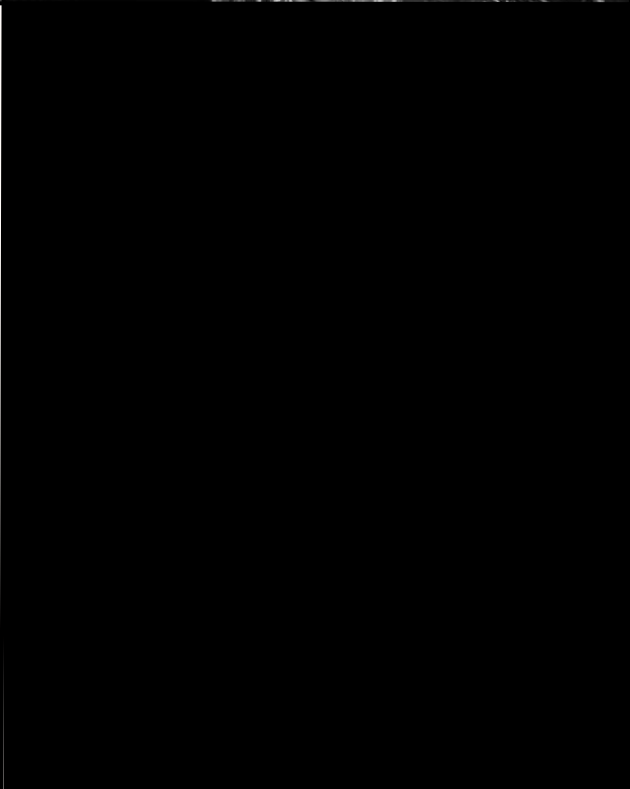
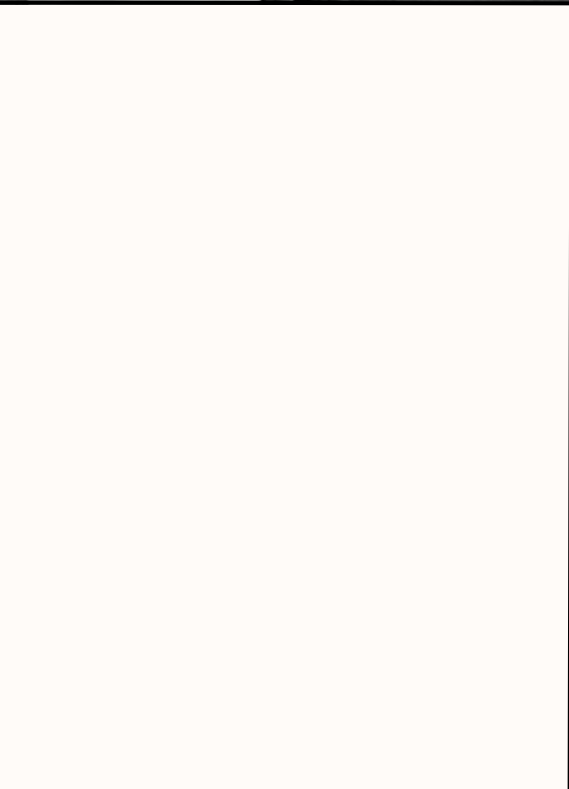
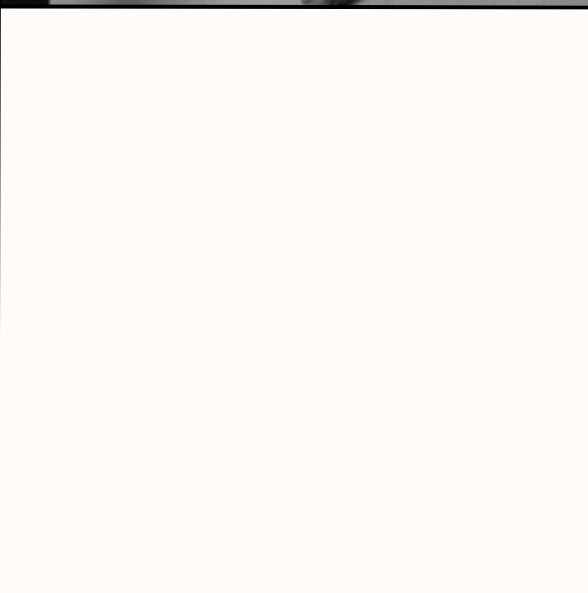
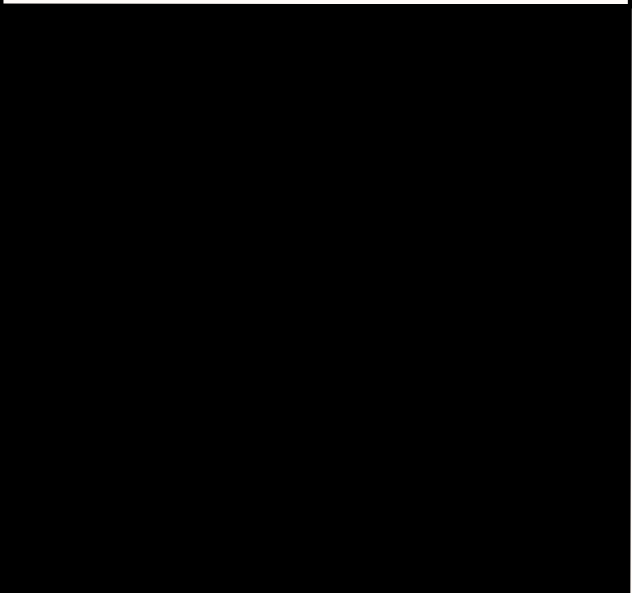
Determining the Critical Micelle Concentration of Surfactants by Simple and Fast Titration Method using Carbon Dots

*under revision





OPPORTUNITIES





- Latinas in STEM looking for digital media assistant;
- Claredon Fellowship – master and PhD;
- Examination for a professor at the university – open to UEAP, UFCG, UNIFESP, UEFS, UFPA, UFRPE;
- Trainee – JSL Group, Renner, Eletrobras, Leroy Merlin and CBO Group.





THANK YOU

CONTACT ME

sendymelissa@gmail.com

@send.science



Photo: Laís Oliveira

