



**BYDGOSZCZ UNIVERSITY  
OF SCIENCE AND TECHNOLOGY**

Faculty of Chemical Technology  
and Engineering



HR EXCELLENCE IN RESEARCH

# Innovative photoinitiating composition for polymeric fluorescent coatings

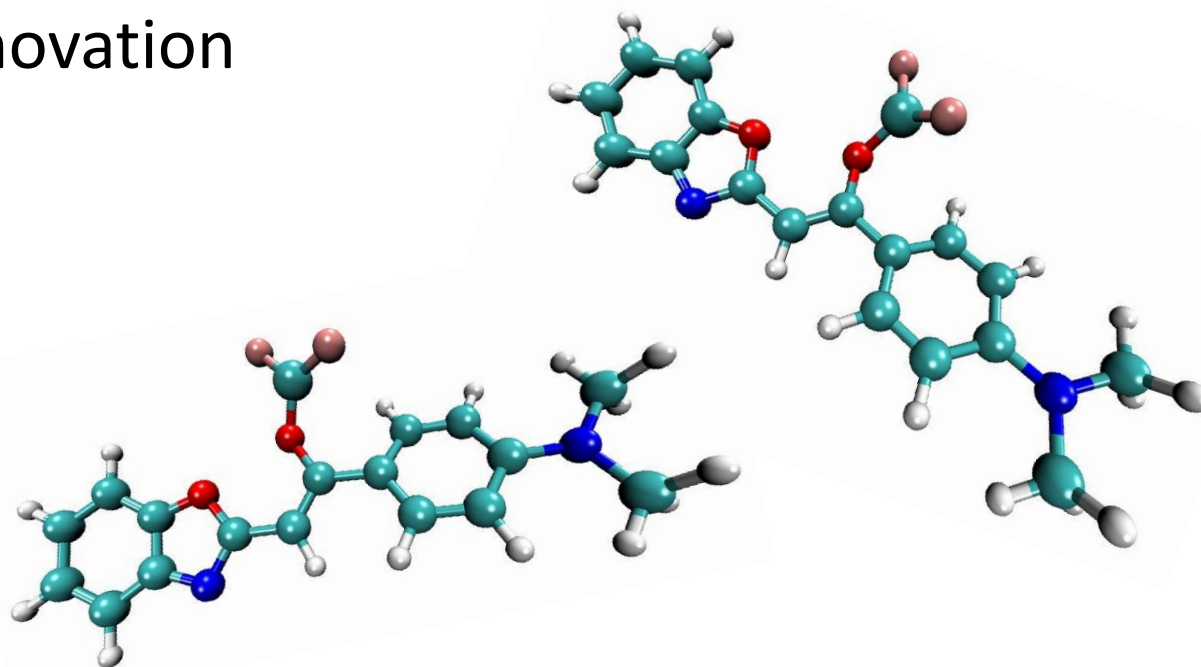
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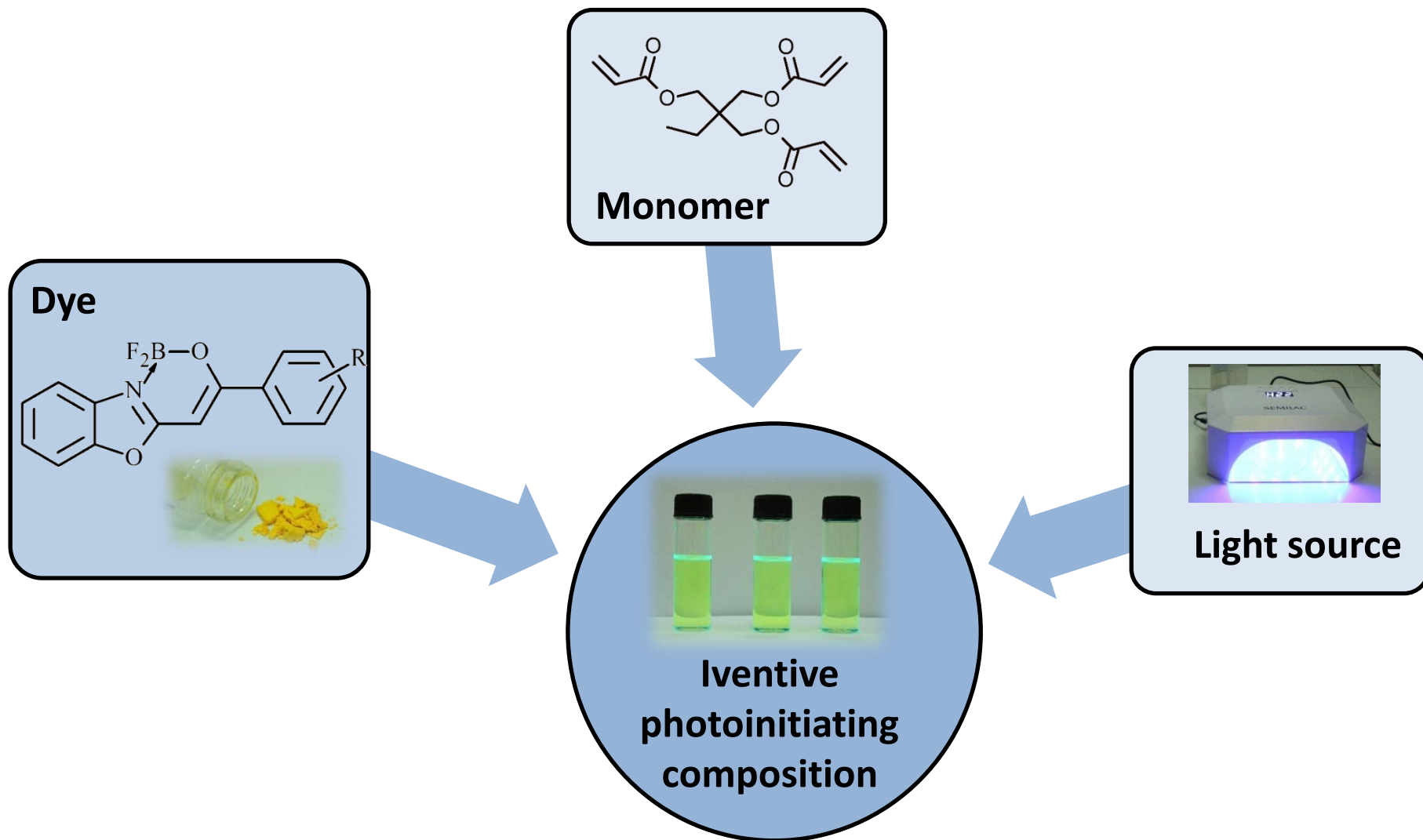
Bydgoszcz, 08.06.2022



# AGENDA:

1. Description of the invention
2. Application
3. Area of innovation





## Advantages of the new photoinitiating composition:

- The formation of the polymer coating is faster than when using commercially available photoinitiating compositions.
- The new photoinitiating composition has an efficiency comparable to that of the commonly used camphorquinone.
- It is very stable during storage and contains about 200 times less dye than camphorquinone
- Innovative fluorescent coatings under the influence of ultraviolet light "glow" (emit color).



## Decorative coatings emitting light for marking objects:

- packaging for gifts
- food packaging



## 3D printing:

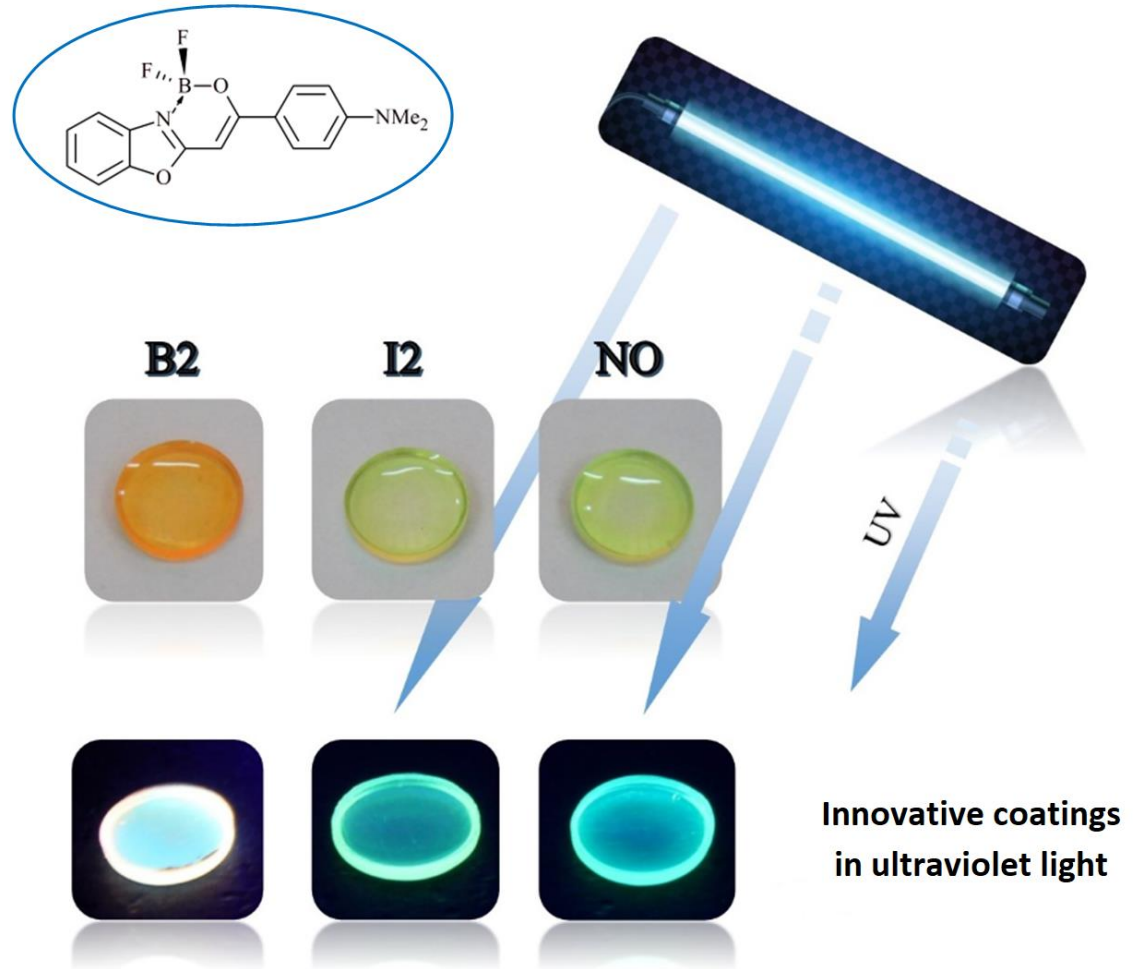
- creating decorative inscriptions
- printing microelements



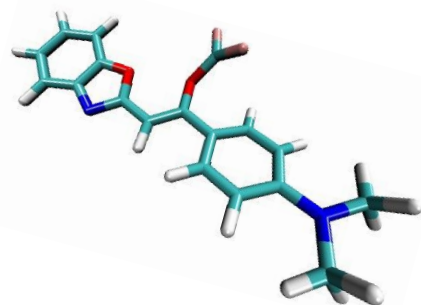
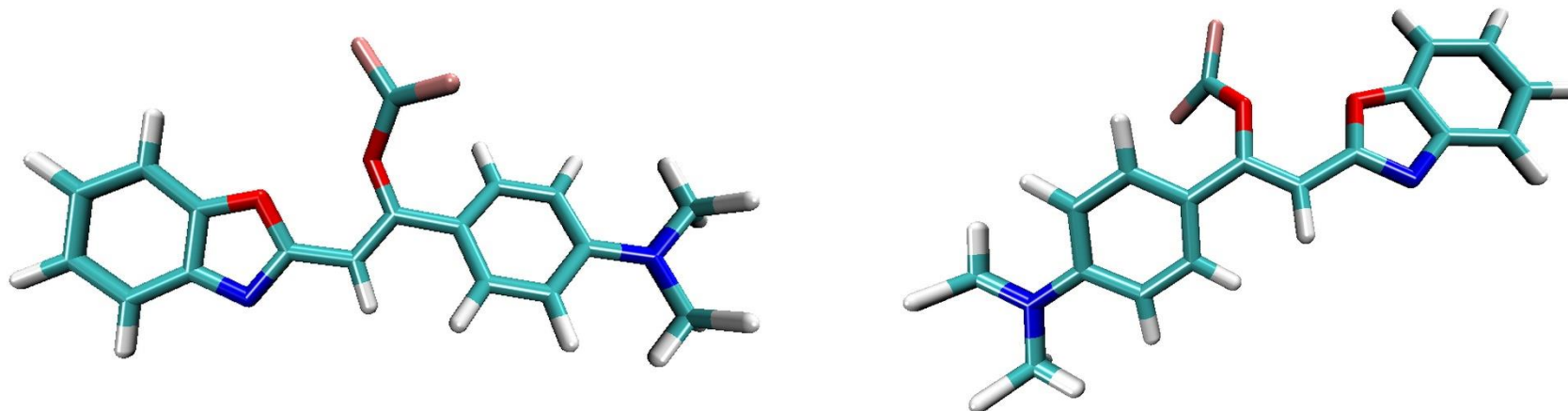
## Protective coatings:

- for elements such as car body parts, furniture, windows, wood

Due to the use of specialized dyes placed on the polymer support, as well as special additives, the visibility of fluorescent polymer coatings is higher than that of conventional coatings.







Thank you for your attention.