

WATER DECONTAMINATION BY SUNLIGHT-DRIVEN FLOATING PHOTOCATALYTIC SYSTEMS



More information at <https://sites.unimi.it/sunfloat>

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PROJECT SUN FLOAT

Toward clean water for all

RESULTS

Current problem and proposed solution



WHY FLOATING PHOTOCATALYSTS?



Easy to use,
durable &
portable

OUR SOLUTION



Our experiments

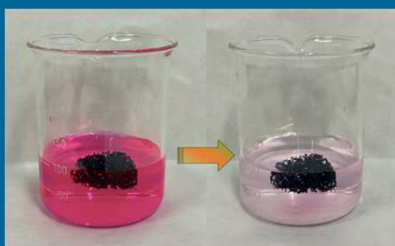
Polluted water → Clean water



During a typical experiment



Easy recovery



TAKE ADVANTAGE OF THE POWER OF THE SUN



Current investigations

Floating device	Pollutant class		
	Dyes	Drugs	Polyphenols
POLYURETHANE	✓	✓	
ALGINATE	✓	✓	✓
LECA	✓		
LUFFA	✓	✓	✓



Innovative Smart Materials for Environmental Remediation

OUR TEAM

SUNFLOAT project is an Italian and Canadian joint effort led by Prof. Claudia L. Bianchi and Prof. Daria C. Boffito.



POLYTECHNIQUE MONTRÉAL

WORLD-CLASS ENGINEERING



SUPPORTED BY

VELUX STIFTUNG

FUTURE PERSPECTIVES

- New visible light-responsive photocatalysts
- Investigation under real conditions