Nejib KASMI, PhD

Polymer Scientist

https://nejibkasmi.com/

Wondering why it is worth hiring me to work together?

- A solid scientific background and proven track-record in developing fully biobased polyesters* — made from renewable monomers — for sustainable Packaging Materials

  25 articles published in high impact peer-reviewed journals (LINK)

- In-depth knowledge of the Design, Synthesis and Study of next-generation *polyester-type* Bioplastics based on 2,5-furandicarboxylic acid (FDCA) and other sustainable monomers (isosorbide, vanillic acid, succinic acid, etc.)

  22 articles published in high-impact and peer-reviewed journals (LINK) + work experience within D. BIKIARIS Group in Greece: an internationally recognized research group working on the development of Furan-based Bioplastics

- Microwave-assisted chemical recycling and valorization of post-consumer polyester packaging materials to value-added circular polymers / Integrating plastic waste in the circular economy / Plastic waste management

  e.g., Check my latest research article: "Open-loop recycling of post-consumer PET to closed-loop chemically recyclable high-performance polyimines" recently published in Resources, Conservation and Recycling 2023, 193, 106974. LINK

- **Three written research proposals**[1,2] (a **detailed long-term research program "4-5 years"**) ready for implementation or submission to EU/national funding agencies. **Research scope**: Development of next-generation circular smart materials (*Covalent Adaptable Networks - CANs; e.g. Renewable polycarbonate and polyurethane vitrimers*) with "on demand" built-in repeatable recyclability, designed from post-consumer biobased polyester packaging materials Integration of a very promising class of non-biodegradable "polyester-type" Bioplastics at the end of its useful life in the sustainable circular bioeconomy Design resource-efficient end-of-life options/ chemical recycling pathways to transform non-biodegradable bioplastics waste into highly desirable self-healing and recyclable polymers.

- Excellent network I established with leading European research groups and renowned scientists working in the research areas relevant to research proposals

outputs

- All of the above-mentioned provide me with an excellent basis for establishing a new research line in your facilities
- Setting up and leading an independent research group
- Writing excellent collaborative research proposals to get grants from national and European funding agencies
- Attract highly talented students/postdocs who are interested in working on the development and chemical recycling of sustainable polymers
- Expand your research activities at your institution ✔

I bring in valuable competences, complementary to your ongoing research work

[1] These proposals received ratings ranging from very good to excellent for each criterion and overall impact, by a review panel of at least three experts in the field from two major Swedish research funding bodies: FORMAS and Swedish research council VR

(See next pages)

[2] To find out more information:

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* *Sustainable hompolyesters, copolyesters, polyester blends, functionalized 'hyper'-branched polyesters*

FORMAS

Final statement from review panel

2022-00446 **Nejib Kasmi** **Review panel: Brg2207**

Call name: Annual open call 2022

Type of grant: Early-career researchers

Project title (English): Next generat circular thermosets designed from recycled

Focus: Initiated by researchers

Research question **6**

1 - Insufficient, 2 - Poor, 3 - Acceptable, 4 - Good, 5 - Very Good, 6 - Excellent, 7 - Outstanding

Method and performance **5**

1 - Insufficient, 2 - Poor, 3 - Acceptable, 4 - Good, 5 - Very Good, 6 - Excellent, 7 - Outstanding

Scientific competence **6**

1 - Insufficient, 2 - Poor, 3 - Acceptable, 4 - Good, 5 - Very Good, 6 - Excellent, 7 - Outstanding

Societal value of the research question and communication of the result **5**

1 - Insufficient, 2 - Poor, 3 - Acceptable, 4 - Good, 5 - Very Good, 6 - Excellent, 7 - Outstanding

Final assessment (max 1 000 characters including spaces) **5**

1 - Insufficient application, 2 - Poor application, 3 - Acceptable application, 4 - Good application, 5 - Very good application, 6 - Excellent application, 7 - Outstanding application

1

Research Project

Project execution period: 4 years

FORMAS is a Swedish government research council for sustainable development

https://formas.se/

Final statement from review panel

2022-04590	Nejib Kasmi	Review panel: NT-I

Call name: Research Grants Open call 2022 (Natural and Engineering Sciences)

Type of grant: Starting Grant

Focus: Natural and engineering sciences

Project title (English): [redacted] materials in circular bioeconomy: Turning bioplastic waste to high performance [redacted]

Scientific quality of the proposed research — 5

*1 - Poor, 2 - Weak, 3 - Good, 4 - Very Good, **5 - Very good to excellent,** 6 - Excellent, 7 - Outstanding*

Novelty and originality — 4

*1 - Poor, 2 - Weak, 3 - Good, **4 - Very Good,** 5 - Very good to excellent, 6 - Excellent, 7 - Outstanding*

Merits of the applicant — 5

*1 - Poor, 2 - Weak, 3 - Good, 4 - Very Good, **5 - Very good to excellent,** 6 - Excellent, 7 - Outstanding*

Feasibility — 3

*1 - Not feasible, 2 - Partly feasible, **3 - Feasible***

Overall assessment of the application´s scientific quality — 5

*1 - Poor, 2 - Weak, 3 - Good, 4 - Very good, **5 - Very good to excellent,** 6 - Excellent, 7 - Outstanding*

2 *Research Project*

Project execution period: 4 years

Swedish Research Council, **VR**

https://www.vr.se/

To find out more about other written proposals:

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