

**CONSILIUL NAȚIONAL DE ATESTARE A TITLURILOR,
DIPLOMELOR ȘI CERTIFICATELOR UNIVERSITARE**
**NATIONAL COUNCIL FOR ATTESTATION OF
ACADEMIC TITLES, DIPLOMAS AND CERTIFICATES**
(CNATDCU)

RAPORTUL COMISIEI DE ABILITARE
REPORT OF THE HABILITATION COMMISSION

din data de (date) 18 octombrie 2019 / October 18, 2019

NUMELE și Prenumele candidatului (SURNAME and Forename of the candidate):
FOCȘAN Monica-Olivia

Titlul tezei de abilitare / direcțiile principale de cercetare (Title of habilitation thesis / main research areas):

Designed Plasmonic-Based NanoPlatforms to Provide Multiple Functionalities from Efficient Nanoscopic Light Sources to Integrated Multimodal Biosensing and Diagnosis

Domeniul de studii universitare de doctorat (Field of doctoral studies):

Fizică / Physics

în care urmează să se confere calitatea de conducător de doctorat (future field of doctoral supervision)

Denumirea **Instituției Organizatoare de Studii Universitare de Doctorat (IOSUD) / Instituției Organizatoare de Doctorat (IOD)** unde are loc susținerea publică a tezei de abilitare

(Name of the institution organizing doctoral studies (IOSUD), (IOD), where the public defense of the habilitation thesis takes place)

Universitatea Babeș-Bolyai, Cluj-Napoca / Babeș-Bolyai University, Cluj-Napoca

Punctele tari ale tezei de abilitare (Strong points of the habilitation thesis):

1. The candidate fulfills all the CNATDCU minimal standards (A = 2, I=4, P=4, C=40, Total 12)
Candidate's factors are:
Didactic and profesional activity: A=7.34
Research activity: I=6.85, P = 15.30
Research impact: C=174.27
Hirsch factor: 17
Total CNATDCU points: 30.52
2. The originality of the habilitation thesis is clearly demonstrated by the implementation of original and innovative strategies for designing plasmonic nanoplatfoms with tailored photo-physical properties. These nano-platfoms are expected to be useful for highly sensitive biosensing and for metal-enhanced fluorescence.
The author gave the proof of concept for such approaches and validated her plasmonic nano-sensors on targeted biomarkers.
3. The candidate demonstrates the ability for managing research projects and for attracting funds. Dr. Monica Focșan already got large funding for her projects and was able to publish excellent papers in very prestigious scientific journals.
4. The candidate demonstrated her capabilities necessary for a successful career in teaching as a future university professor.
5. The candidate has already demonstrated the ability for mentoring young scientists and to build her own research group of students. This is a strong premise for her capability to supervise PhD students. The scientific collaboration with national and international scientific groups is also very well demonstrated.

Punctele slabe ale tezei de abilitare (**Weak points** of the habilitation thesis):

None

Rezultatul votului / observații / concluziile comisiei de abilitare se motivează în continuare
(**Voting result / observations / premises for the conclusions** of the *habilitation commission* are as follows)

The candidate, dr. Monica-Olivia Focșan, fulfils all the CNATDCU requirements to receive the habilitation degree.

All the members of the jury voted for awarding the habilitation degree to dr. Monica-Olivia Focșan.

(a se continua pe verso – dacă este necesar) (continue overleaf if necessary)

COMISIA DE ABILITARE
HABILITATION COMMISSION

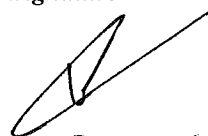
NUMELE și Prenumele

SURNAME and Forename

Semnătura

Signature

1. Prof.dr. LAMY DE LA CHAPELLE Marc



2. Prof.dr. RĂU Ileana



3. Prof.dr. AȘTILEAN Simion

