

OPINION

by Assoc. Prof. Dr. Stanislav Stefanov Stanimirov Faculty of
Chemistry and Pharmacy at Sofia University "St. Kliment Ohridski"
on the competition for occupying the academic position

*"Associate Professor" in professional field 4.2. Chemical Sciences,
scientific specialty "Organic Photochemistry"*

for the needs of the department of Organic Chemistry and
Pharmacognosy at the Faculty of Chemistry and Pharmacy at Sofia
University "St. Kliment Ohridski", announced in the State Gazette
issue 103 of 12.12.2023.

The only candidate in the competition for "Associate Professor" is Dr. Stanislava Borisova Yordanova-Tomova. To participate in the competition, the candidate has submitted a complete set of documents in accordance with the requirements of the Law on the Development of Academic Staff in the Republic of Bulgaria (LDASRB) and the relevant regulations for its implementation (including those of the Faculty of Chemistry and Pharmacy at Sofia University).

Dr. Stanislava Yordanova-Tomova is a co-author of a total of 23 scientific papers (22 of them in journals with impact factor, one in a journal without impact factor). In the competition for associate professor the candidate participates with 19 scientific publications.

Stanislava Borisova Yordanova-Tomova graduated as a Bachelor in 2009 and a Master's degree in 2011 at the Faculty of Chemistry, Sofia University. In 2014 she defended her PhD thesis under the supervision of Prof. Ivan Petkov, PhD, Prof. Dr. Ivo Grabchev, on "Molecular devices powered by light for rapid environmental monitoring", which satisfies the requirements of **indicator A** to occupy the position of "Associate Professor" of the minimum national requirements. After graduating from university Stanislava Yordanova-Tomova continued her scientific and teaching activities at the Department of Organic Chemistry. In 2014 Stanislava Yordanova-Tomova was appointed as an assistant and since 2015 she has continued her career development by holding the position of Chief Assistant Professor at the Department of Organic Chemistry and Pharmacognosy, where she still works.

Indicator B "habilitation work" is covered by presenting 6 publications (one in quartile Q1, three in quartile Q2, one in quartile Q3 and one in quartile Q4), which meet 112 points. According to the recommended criteria of the BFF of Sofia University, the applicant has also presented a habilitation work on "HABILITATION WORK". In none of the six publications Chief Assist. Dr. Stanislava Borisova Yordanova-Tomova is the first author or author for correspondence.

According to **Indicator D**, 13 publications are presented (1 in quartile Q1, 5 in quartile Q2, 7 in quartile Q3). A total of 220 points on this indicator, which satisfies not only the

minimum requirements of the LDASRB, but also the recommended requirements of the Faculty of Chemistry and Pharmacy.

According to **Indicator D**, the candidate exceeds the required number of points (294 points with a required minimum of 70) with 147 citations excluding autocitations of all co-authors, according to a Scopus reference as of 05.03.2024.

According to **Indicator G**, with 70 points required, the candidate has 100.

Dr. Stanislava Yordanova-Tomova is a co-author of a total of 23 scientific papers (according to a reference attached by the candidate) with a Hirsch index of 7.

The applicant has participated in 5 scientific projects funded by NSF and one funded by the NSF of Sofia University "St. Kliment Ohridski". Cl. Ohridski", of which Dr. Yordanova-Tomova was the leader. The attached documents do not mention international specializations and participation in national and international conferences.

Dr. Yordanova-Tomova's scientific interests are in the field of electronic absorption and emission spectroscopy of organic compounds and their metal complexes, which are used as sensors or as compounds with microbiological, antimicrobial, and antibacterial properties. The influence of different parameters of the medium, such as pH, solvent polarity, temperature, etc., has been studied. On the photophysical properties of the investigated compounds ascertained by UV electron absorption and emission spectroscopy. The main contributions of the candidate are summarized by him in the following scientific directions:

- 1) Study of photophysical characteristics of newly synthesized compounds in solvents of different polarity – 15, 18,
- 2) Investigation of the sensory properties of newly synthesized compounds to different metal ions — 1, 2, 3, 4, 5, 6, 7, 8, 9, 11,14,15, 17, 19
- 3) Study of the influence of the pH of the medium on the absorption and fluorescence intensity – 7,
- 4) Study of microbiological, antimicrobial, and antibacterial properties of newly synthesized complexes, as well as their copper and zinc complexes – 2, 3, 4, 5, 6, 8, 9, 11, 14, 17.

Dr. Stanislava Yordanova-Tomova actively participates in the teaching activities of the Department of Organic Chemistry and Pharmacognosy. She conducts the practical activities – seminars and exercises in "Organic Chemistry" I and II – all specialties of FCP and BF, full-time and part-time education. She was a diploma supervisor of six successful graduates. He is also the winner of an award in the name of Acad. Ivan Yuxhnovsky "Prominent Young Scientist in the Field of Organic Chemistry" for 2017

Conclusion

Presented by Ch. ace. Dr. Stanislava Yordanova-Tomova scientific works are original, at a high scientific level and correspond to the theme of the competition. The candidate is a built scientist in his field. Dr. Stanislava Borisova Yordanova-Tomova meets all the requirements for

occupying the academic position of "Associate Professor" according to the LDASRB, the Regulations for its application and the recommended criteria of the Faculty of Chemistry and Pharmacy.

In connection with the above, I recommend Ch. ace. Dr. Stanislava Borisova Yordanova-Tomova to be appointed to the academic position of Associate Professor in professional field 4.2 Chemical Sciences, scientific specialty "Organic Photochemistry".

05. 03. 2024 г.

Sofia

Signature:

(Assoc. Prof. Dr. Stanislav Stanimirov)