

REVIEW
to occupy the academic position:

"Professor"	
"Associate Professor"	X
	one of the academic positions indicated shall be marked with the sign "X"

Candidates to occupy the position:

1	Assist. Prof.	Dr	Temenujka	Hristova	Radojkova	UCTM-Sofia
No	academic position	scientific degree	name	middle name	last name	workplace

Scientific area:

4.2	Chemical Sciences
code	name

Professional area:

4.2	Chemical Sciences
code	name

Scientific specialty:

Analytical Chemistry

The competition has been announced:

64	5/8/2025	Analytical Chemistry	Faculty of Chemistry
in SG issue	date	for the needs of the Department	Faculty

The review was written by:

Prof.	DSc	Vasil	Dragomirov	Simeonov	FCF-Sofia University
academic position	scientific degree	name	middle name	last name	workplace

1. Review for the candidate:

Assist. Prof.	Dr	Temenujka	Hristova	Radojkova	UCTM-Sofia
academic position	scientific degree	name	middle name	last name	

1.1. Completion of the provided documents:

A) The competition documents are in full compliance with the Regulations	3 points	X
B) The documents are complete but do not fully comply with the requirements of the Regulations	2 points	

C) The documents are not completed in accordance with the requirements of the Regulations	0 points	
		one of the answers given is marked with the sign "X"

Missing documents and violated requirements must be described if response C is marked.

Excellently completed documents according to the Manual for application of ADASRB
No missing documents are found.

1.2. Meeting the minimum requirements under the Regulations:

A) The candidate meets the minimum requirements	20 points	X
B) The candidate doesn't meet the minimum requirements	0 points	
		one of the answers given is marked with the sign "X"

It must be filled in if answer B is marked. The publication activity of the candidate is analyzed. The response of the results achieved (quoted) is analyzed.

The documents presented indicate that the minimal requirements are not only fulfilled but significantly exceeded. 28 publications are presented for assessment being cited 39 times, which is a very good indicator for the activity of the candidate with respect to her scientific work.

1.3. Relevance of scientific and / or applied research:

A) The research is relevant. Part of the research is pioneering (no results are known on the topic by other authors)	7 points	X
B) Research is relevant. Results from other authors are known for each of the topics and / or applications studied.	5 points	
C) Most of the research is relevant, but also some results are presented that have no scientific and / or applied value	3 points	
D) The smaller part of the research is relevant	2 points	
E) Research is not relevant	0 points	
		one of the answers given is marked with the sign "X"

The evaluation of the relevance of the research must be substantiated.

In some of the works are presented original results, published for the first time by the candidate related to specific assessment of analytical approaches in studying the applicability of lignocelluloses and waste materials for different goals – such as antioxidants, absorbents etc.

1.4. Knowledge of the problems subject of research:

A) The candidate knows in detail the achievements of other authors on the researched topics and/or applications	6 points	X
B) The candidate is partially familiar with the achieved results on the researched topics and / or applications	4 points	
C) The candidate has no prior knowledge of the status of the researched problems	0 points	
		one of the answers given is marked with the sign "X"

The evaluation must be substantiated if answer C is marked.

The review of the publication for the section about referenced literature sources shows that Dr. Radoykova knows well the achievements of other authors in the region of interest and cites them correctly.

1.5. Type of research:

A) Theoretical	4 points	
B) Applied	4 points	X
C) Theoretical with application elements	4 points	
D) It does not correspond to the level specified in the Act for the Development of the Academic Staff in the Republic of Bulgaria and the Regulations	0 points	
		one of the answers given is marked with the sign "X"

The level of research must be substantiated if answer D is marked.

Dr. Radoykova tried to connect experimental analytical work with respective results with method for synthesis and practical application of different waste and secondary material (lignocelluloses, coal, slags).

1.6. Objectives of the research:

A) Realistic and of scientific and / or applied interest	8 points	X
B) Realistic, but not of scientific and / or applied interest	4 points	
C) Unattainable (unrealistic)	0 points	
		one of the answers given is marked with the sign "X"

Objectives must be specified. The type of the set objectives must be justified.

The results obtained in the studies with which Dr. Radoykova participates in the procedure are realistic, since they present not only specific analytical results but lead to options of creation of practically important procedures with respect to environmental and human health protection.

1.7. Methods of research:

A) Adequate to research and set scientific objectives and /or applications	8 points	X
B) Partially appropriate, enabling part of the scientific objectives and / or applications to be achieved	4 points	
C) Inappropriate methods	0 points	
		one of the answers given is marked with the sign "X"

Methods must be specified. The type of methods used is justified.

Different analytical methods are used being accessible to the candidate having in mind her engagements in analytical control laboratories.

1.8. Candidate research contributions:

A) With lasting scientific and / or applied response, they form the basis for new research and applications	20 points	
B) They are of significant scientific and / or applied interest, complete and / or summarize previous research	16 points	X
C) They are of scientific and / or applied interest	12 points	
D) Lack of significant contributions	8 points	
E) Lack of contributions	0 points	

		one of the answers given is marked with the sign "X"
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Contributions must be specified. The type of results achieved must be justified.

- **Original approach for characterization and options for practical application of low molecular phenol derivates with antioxidant activity from different waste materials;**
- **Optimization of the yield conditions of the compounds mentioned above from waste biomasses with respect to practical application;**
- **Original assessment of the options for practical utilization of hydrolysis and waste lignocelluloses materials as absorbents, antimicrobial agents and energy raw materials;**
- **Establishing the opportunities for application of waste materials (mine wastes, coal ash, metallurgical slag) for cleaning of waste gases and production of geopolymers).**

1.9. Participation of the candidate in the achievement of the presented results:

A) The candidate has at least an equal participation in the submitted papers	8 points	X
B) The candidate has at least an equal participation in most of the submitted papers	7 points	
C) The candidate has a secondary participation in most of the submitted papers	4 points	
D) The candidate participation is unnoticeable	0 points	
		one of the answers given is marked with the sign "X"

Critical notes must be provided if one of the items C or D is marked.

For a significant number of publications presented in this procedure, the candidate is first or second author, which is a reason to conclude that she has a significant contribution for the project's realization.

1.10. Pedagogical activity:

A) The candidate has effective and sufficient pedagogical activity at the university. The textbooks issued are modern and useful (they meet the requirements of the Regulations). The work with undergraduate and doctoral students is at a high professional level.	8 points	X
B) The candidate has sufficient pedagogical activity at the university. The textbooks issued satisfy the requirements of the Regulations.	6 points	

C) The pedagogical activity and / or textbooks issued are insufficient (do not meet the requirements of the Regulations)	0 points	
		one of the answers given is marked with the sign "X"

Critical notes must be provided if one of the items B or C is marked.

The candidate has active and diverse teaching activity through the years, especially after taking position at Chair of Analytical chemistry as well as published manuals for bachelor and master students.

1.11. Critical notes:

A) Lack of critical notes	8 points	X
B) Critical notes of a technical nature	7 points	
C) Critical notes that would partially improve the results achieved in a small part of the research	5 points	
D) Critical notes that would partially improve the results achieved in most of the research	3 points	
E) Significant critical notes	0 points	
		one of the answers given is marked with the sign "X"

Critical notes must be provided if one of the answers C, D or E is marked.

I have no critical notes to the scientific and teaching activity of Dr. Radoykova.

1.12. Conclusion

A) The evaluation of the candidate's activity is POSITIVE	This evaluation is assigned to a total number of at least 65 points	X
B) The evaluation of the candidate's activity is NEGATIVE	This evaluation is assigned to a total number below 65 points	
		one of the answers given is marked with the sign "X"

To be filled in if requested by the reviewer

In conclusion I can state with conviction that Dr. T. Radoykova is researcher with high qualities and established university teacher. The documents presented within the frame of this procedure completely confirm the reviewer opinion. All formal requirements of the Manual of UCTM – Sofia for application of the Act for development of the academic staff in Republic of Bulgaria are fulfilled.

Keeping in mind all stated above, I declare that I shall vote “yes” to the option Head Assist. Prof. Dr. Eng. Temenujka Hristova Radoykova to occupy the academic position “Associate Professor” (Dozent) as required.

25/11/2025	The review was written by: Prof. Dr.Vasil Simeonov, Dsc.	
date		signature