

REVIEW
to occupy the academic position:

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

Candidates to occupy the position:

1	assoc. prof.	dr.	Adriana	Risk	Surleva	UCTM
№	academic position	scientific degree	name	middle name	last name	workplace

Scientific area:

4	Natural Sciences, Mathematics and Computer Science
code	name

Professional area:

4.2	Chemical Sciences
code	name

Scientific specialty:

Analytical Chemistry

The competition has been announced:

64	05.08.2025 r.	Analytical Chemistry	Faculty for chemical technologies
in SG issue	date	for the needs of the Department	Faculty

The review was written by:

prof.	dr.	Tony	Ivanov	Venelinov	UACEG
academic position	scientific degree	name	middle name	last name	workplace

1. Review for the candidate:

assoc. prof.	dr.	Adriana	Risk	Surleva
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.

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.

A total of 35 articles were submitted in this competition.
 10 publications were assigned to indicator 4 in journals with Q1 (1), Q2 (4), Q3 (1) and SJR (4) – a total of 160 points with a minimum requirement of 100 points.
 25 publications were assigned to indicator 7 in journals with Q1 (1), Q2 (4), Q4 (2), SJR (16) and non-indexed journals (2) – a total of 289 points with a minimum requirement of 200 points.
 138 citations were noted – a total of 276 points with a minimum requirement of 100 points.

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.

The candidate's research is aimed at solving significant societal challenges in the field of improving the quality of human life. They aim to create new materials (geopolymers) as an alternative to traditional construction materials. All this makes them relevant.

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.

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.

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 scientific research goals set by the candidate are of a scientific-applied nature and include the development, optimization and validation of analytical methods for the characterization of industrial waste, for plant-absorbable forms of basic nutritional components, for the study of objects from human activity and environmental samples.

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.

The candidate uses a wide range of modern instrumental methods of analysis (ICP-OES, IC, ICP-SFMS, ICP-QMS, GC-ICP-SFMS, elemental mercury analyzer, flame AES, spectrophotometry, SEM/EDS, UV-Vis, FTIR, IR, LC/MS-MS, etc.). The instrumental methods of analysis used are appropriately selected according to the object of study and the purpose of the chemical analysis. Validation of the analytical procedures of the instrumental method increases the credibility and reliability of the results obtained.

1.8. Candidate research contributions:

A) With lasting scientific and / or applied response, they form the basis for new research and applications	20 points	X
B) They are of significant scientific and / or applied interest, complete and / or summarize previous research	16 points	
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"

Contributions must be specified. The type of results achieved must be justified.

The research is oriented towards expanding the analytical information obtained from various methods of chemical analysis and their application for the development of new technologies or optimization of existing ones. The results obtained are summarized in the following:

1. Development of a protocol for chemical analysis and characterization of industrial waste to reduce the ecological footprint;
2. Validation of chemical methods for the analysis of environmental samples in the assessment of ecological risk;
3. Validation of analytical methods for the study of objects of human activity;
4. Characterization of the analytical behavior of methods for the chemical analysis of agricultural soils in order to determine the forms of nutritional components that are available to plants.

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.

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.

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.

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

I positively evaluate the candidate's research and teaching work and recommend that the esteemed Scientific Jury propose the award of the academic position of "Professor" to Assoc. Prof. Dr. Andriana Risk Surleva in the Field of Higher Education 4. Natural Sciences, Mathematics and Informatics, Professional Field 4.2. Chemical Sciences (Analytical Chemistry).

02.12.2025	The review was written by:	
date		signature