

Charakteristika predkladaného výstupu tvorivej činnosti / Characteristics of the submitted research/ artistic/other output

Tlačivo VTC slúži na predkladanie výstupov tvorivej činnosti podľa metodiky hodnotenia tvorivých činností (časť V. Metodiky na vyhodnocovanie štandardov) / The form is used to submit the research/artistic/other outputs according to the evaluation methodology of research/artistic/other activities (part V. The Methodology for Standards Evaluation).

ID konania/ID of the procedure: ¹	
Kód VTC/Code of the research/artistic/other output (RAOO): ¹	

OCA1. Priezvisko hodnotenej osoby / Surname awarded to the assessed person ²	Pisárčik
OCA2. Meno hodnotenej osoby / Name awarded to the assessed person ²	Martin
OCA3. Tituly hodnotenej osoby / Degrees awarded to the assessed person ²	doc. Ing. CSc.
OCA4. Hyperlink na záznam osoby v Registri zamestnancov vysokých škôl / Hyperlink to the entry of the person in the Register of university staff ³	https://www.portalvs.sk/regzam/detail/3764
OCA5. Oblasť posudzovania / Area of assessment ⁴	Magisterský študijný program Manažment a zdravotnícke technológie / Master Degree Study Programme Management and Health Technology.
OCA6. Kategória výstupu tvorivej činnosti / Category of the research/artistic/other output <i>Výber zo 6 možností (pozri Vysvetlivky k položke OCA6) / Choice from 6 options (see Explanations for OCA6).</i>	vedecký výstup / scientific output
OCA7. Rok vydania výstupu tvorivej činnosti / Year of publication of the research/artistic/other output	2017
OCA8. ID záznamu v CREPČ alebo CREUČ (ak je) / ID of the record in the Central Registry of Publication Activity (CRPA) or the Central Registry of Artistic Activity (CRAA) ⁵	ID: UK.Bratislava.vtl000334061
OCA9. Hyperlink na záznam v CREPČ alebo CREUČ / Hyperlink to the record in CRPA or CRAA ⁶	http://www.crepc.sk/portal?fn=*review&uid=2193487
alebo CREUČ / Characteristics of the output that is not registered in CRPA or CRAA	OCA10. Hyperlink na záznam v inom verejne prístupnom registri, katalógu výstupov tvorivých činností / Hyperlink to the record in another publicly accessible register, catalogue of research/artistic/other outputs ⁷
	https://www.scopus.com/record/display.uri?eid=2-s2.0
	OCA11. Charakteristika výstupu vo formáte bibliografického záznamu CREPČ alebo CREUČ, ak výstup nie je vo verejne prístupnom registri alebo katalógu výstupov / Characteristics of the output in the format of the CRPA or the CRAA bibliographic record, if the output is not available in a publicly accessible register or catalogue of outputs
	N/A
	OCA12. Typ výstupu (ak nie je výstup registrovaný v CREPČ alebo CREUČ) / Type of the output (if the output is not registered in CRPA or CRAA) <i>Výber zo 67 možností (pozri Vysvetlivky k položke OCA12) / Choice from 67 options (see Explanations for OCA12).</i>
	OCA13. Hyperlink na stránku, na ktorej je výstup sprístupnený (úplný text, iná dokumentácia a podobne) / Hyperlink to the webpage where the output is available (full text, other documentation, etc.)
	https://www.mdpi.com/1420-3049/22/10/1794
	OCA14. Charakteristika autorského vkladu / Characteristics of the author's contribution
	Stanovenie hypotézy a cieľov, návrh metód výskumu, získanie výsledkov, príprava rukopisu / Determination of hypothesis and aims, design of research methods, obtaining results, preparation of manuscript

Charakteristika výstupu, ktorý nie je registrovaný v CREPČ	OCA15. Anotácia výstupu s kontextovými informáciami týkajúcimi sa opisu tvorivého procesu a obsahu tvorivej činnosti a pod. / Annotation of the output with contextual information concerning the description of creative process and the content of the research/artistic/other activity, etc. ⁸ <i>Rozsah do 200 slov v slovenskom jazyku / Range up to 200 words in Slovak</i> <i>Rozsah do 200 slov v anglickom jazyku / Range up to 200 words in English</i>	Hydrodynamický priemer a agregáčn� číslo micel bisam�niiov�ch kati�nov�ch gemini povrchovo akt�vnych l�tok s variabiln�m polymetyl�nov�m spacerom a dvoma dodecylov�mi re�azcami boli �tudov�n� pomocou techn�k dynamick�ho rozptylu svetla a �asovo rozli�en�ch techn�k zh��ania fluorescencie. Pre micely gemini s most�kom z 4, 6, 8, 10 a 12 CH₂ skup�n boli n�jden� priemery micel medzi 2 a 3,5 nm. Micely gemini surfaktantu s kr�tkym etyl�nov�m spacerom vykazovali n�rast veľkosti a� do 13 nm pri maxim�lnej sk�manej koncentr�cii. Zistilo sa, �e agreg��n� ��slo micel stanoven� �asovo rozli�en�m zh��an�m fluorescencie je v rozsahu 14 – 25 pre d�ĺky most�ka od 6 do 12 skup�n CH₂ s iba miernym n�rastom s koncentr�ciou povrchovo akt�vnej l�tky. Pre micely gemini surfaktantov s kr�tkym etyl�nov�m most�kom bolo pozorovan� zvy�enie agreg��n�ho ��sla a� na 50 pri maxim�lnej koncentr�cii, �o zodpoved� zisten�mu zvy�eniu veľkosti micel pri rovnakej koncentr�cii. Zistenia podporuj� predpoklad micel�rneho rastu gemini surfaktantu s kr�tkym etyl�nov�m most�kom. Zistila sa dobr� zhoda sk�man�ch veli��n s publikovan�mi �dajmi z experimentov rozptylu neutr�nov.
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OCA16. Anotácia výstupu v anglickom jazyku / Annotation of the output in English ⁹ <i>Rozsah do 200 slov / Range up to 200 words</i>	The hydrodynamic size and aggregation number of micelles of bisammonium cationic gemini surfactants with a variable polymethylene spacer and two dodecyl chains have been studied using dynamic light scattering and time-resolved fluorescence quenching techniques. For micelles of gemini surfactants with the spacers consisting of 4, 6, 8, 10 and 12 CH₂ groups, micelle diameters between 2 and 3.5 nm were found. Micelles of gemini surfactant with a short ethylene spacer displayed the increase in size up to 13 nm at the maximum concentration investigated. The aggregation number of micelles determined by time resolved fluorescence quenching was found to be in the range 14 – 25 for the spacer lengths from 6 to 12 CH₂ groups with only a moderate increase with surfactant concentration. For micelles of gemini surfactants with the short ethylene spacer, the increase of the aggregation number up to 50 at the maximum concentration was observed, which corresponds with the found increase in micelle size at the same concentration. The findings support the assumption of the micellar growth of the gemini surfactant with the short ethylene spacer. A good agreement of the investigated quantities with the published data from neutron scattering experiments was found.
OCA17. Zoznam najviac 5 najvýznamnejších ohlasov na výstup / List of maximum 5 most significant citations corresponding to the output <i>Rozsah do 200 slov / Range up to 200 words</i>	Mohamed, D.E., Mohamed, A.S., El-Dib, F.I. Role of mixed surfactants system in preparation of silver nanoparticles (2022) Tenside, Surfactants, Detergents, 59 (5), pp. 400-408. Zhao, G., Hong, L., Liu, M., Jiang, H., Peng, D., He, L., Chen, W. Isolation and Characterization of Natural Nanoparticles in Naoluo Xintong Decoction and Their Brain Protection Research (2022) Molecules, 27 (5), art. no. 1511, . Cited 4 times. Das, M., Brahma, M., Shimray, S.A., Chipem, F.A.S., Krishnamoorthy, G. Nanoparticle and surfactant controlled switching between proton transfer and charge transfer reaction coordinates (2022) Physical Chemistry Chemical Physics, 24 (8), pp. 4944-4956. Xiao, J., Wang, L., Zhang, H., Ma, N., Tao, M., Zhang, W. Immobilization of Pd(0) nanoparticles on gemini quaternary ammonium functionalized polyacrylonitrile fibers as highly active catalysts for heck reactions and 4-nitrophenol reduction (2022) Chemical Engineering Science, 247, art. no. 117053 . Zakharova, L.Y., Pashirova, T.N., Doktorovova, S., Fernandes, A.R., Sanchez-Lopez, E., Silva, A.M., Souto, S.B., Souto, E.B. Cationic surfactants: Self-assembly, structure-activity correlation and their biological applications (2019) International Journal of Molecular Sciences, 20 (22), art. no. 5534, . Cited 72 times.
OCA18. Charakteristika dopadu výstupu na spoločensko-hospodársku prax / Characteristics of the output's impact on socio-economic practice <i>Rozsah do 200 slov v slovenskom jazyku / Range up to 200 words in Slovak</i> <i>Rozsah do 200 slov v anglickom jazyku / Range up to 200 words in English</i>	Publikácia prináša prípravu strieborných nanočastíc stabilizovaných kationovými gemini tenzidmi s polymetylénovým mostíkom a výskum ich fyzikálnych a biologických vlastností. / The publication provides synthesis of silver nanoparticles stabilised with cationic gemini surfactants with polymethylene spacer and the investigation of their physical and biological properties.
OCA19. Charakteristika dopadu výstupu a súvisiacich aktivít na vzdelávací proces / Characteristics of the output and related activities' impact on the educational process <i>Rozsah do 200 slov v slovenskom jazyku / Range up to 200 words in Slovak</i> <i>Rozsah do 200 slov v anglickom jazyku / Range up to 200 words in English</i>	Zistené výsledky môžu byť prezentované v rámci prednášok z farmaceutickej chémie v rámci predstavenia postupov výskumu a vývoja liečiv. / The results can be presented in pharmaceutical chemistry lectures as a part of the presentation of drug research and development procedures.

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