

## Complete list of publications

Researcher: Fran Nekvapil, *Assistant Researcher*

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Main research area: Blue bioeconomy, sustainable technologies

Main expertise: Raman spectroscopy, marine biology, nanomaterials analysis

Until 9. June 2022

WoS: publications visible: 18, h-index: 4, total citations: 88

Personal website: <https://sites.google.com/view/sustain-aquat-res-tech>

Up-to-date List of publications and the CV are maintained at the personal website

### Contents:

#### A. Publications with peer review process

Research articles

Oral and poster presentations delivered at conferences, workshops, seminars

All conference contributions

#### B. Submitted publications with peer review process

Articles

Contributions to conference proceedings

### A. Publications with peer review process

#### Research articles

No. <sup>a</sup>	ISI Ranking zone <sup>b</sup>	ISI zone colour code	Title	Authors, bibliographic information	Year	Impact factor <sup>c</sup>	AIS InCites JCR <sup>d</sup>
<b>Principal author</b>							
1	Q3	●	Characterization of the lattice transitions and impurities in manganese and zinc doped ferrite nanoparticles by Raman spectroscopy and x-ray diffraction (XRD)	<b>Nekvapil, F.</b> , Bortnic, R-A., Leoștean, C., Barbu-Tudoran, L., Bunge, A. <i>Analytical Letters</i> , published online 3. June 2022; free full-text link: <a href="https://www.tandfonline.com/eprint/WMVGKTQHU3NG4DVNI2H3/full?target=10.1080/00032719.2022.2083145">https://www.tandfonline.com/eprint/WMVGKTQHU3NG4DVNI2H3/full?target=10.1080/00032719.2022.2083145</a>	2022	2.329	0.251
2	Q2	●	A novel observation upon the near-resonant Raman excitation of zinc oxide nanoparticles: Widening of the E2(high) band	<b>Nekvapil, F.</b> , Stefan, M., Marica, I., Falamas, A. <i>J. Raman Spectrosc.</i> , early view, DOI: 10.1002/jrs.6323	2022	3.133	0.524
3	Q3	●	Resonance Raman and SERRS of fucoxanthin: Prospects for carotenoid quantification in live diatom cells	<b>Nekvapil, F.</b> , Brezestean, I., Firta, C., Cinta Pinzaru, S. <i>Journal of Molecular Structure</i> , 1250: 131608. DOI: 10.1016/j.molstruc.2021.131608	2022	3.196	0.293
4	q2	●	Wasted Biomaterials from Crustaceans as a Compliant Natural Product Regarding Microbiological, Antibacterial Properties and Heavy Metal Content for Reuse in Blue	<b>Nekvapil, F.</b> , Ganea, I-V, Ciorîță, A., Hirian, R., Ogresta, L., Glamuzina, B., Roba, C., Cinta Pinzaru, S. <i>Materials</i> 14(16): 4558 DOI: 10.3390/ma14164558	2021	3.62	0.597

			Bioeconomy: A Preliminary Study				
5	Q2	●	A New Biofertilizer Formulation with Enriched Nutrients Content from Wasted Algal Biomass Extracts Incorporated in Biogenic Powders	<b>Nekvapil, F.</b> , Ganea, I-V., Ciorță, A., Hirian, R., Tomšić, S., Martonos, I.M., Cintă Pinzaru, S. <b>Sustainability</b> 13(10): 8777 DOI: 10.3390/su13168777	2021	3.251	0.462
6	Q1	●	Single-cell Raman micro-spectroscopy for tracking of carotenoids in cyanobacteria exposed to Mn and Zn doped ferrite nanoparticles	<b>Nekvapil, F.</b> , Bunge, A., Barbu-Tudoran, L., Cintă Pinzaru, S. <b>Spectrochim. Acta A</b> 254: 119607, DOI: 10.1016/j.saa.2021.119607	2021	4.098	0.462
7*	Q1	●	Promoting hidden natural design templates in wasted shells of the mantis shrimp into valuable biogenic composite	<b>Nekvapil, F.</b> , Glamuzina, B., Barbu-Tudoran, L., Suci, M., Tamas, T., Cintă Pinzaru, S. <b>Spectrochim. Acta A</b> 250: 119223, DOI: 10.1016/j.saa.2020.119223	2021	4.098	0.462
8*	Q1	●	Color-specific porosity in double pigmented natural 3d-nanoarchitectures of blue crab shell	<b>Nekvapil, F.</b> , Cintă Pinzaru, S., Barbu-Tudoran, L., Suci, M., Tamas, T., Chis, V.; <b>Sci. Rep.</b> 10: 3019. DOI: 10.1038/s41598-020-60031-4	2020	4.379	1.285
9*	Q1	●	From Blue Bioeconomy toward Circular Economy through High-Sensitivity Analytical Research on Waste Blue Crab Shells	<b>Nekvapil, F.</b> , Aluas, M., Barbu-Tudoran, L., Suci, M., Bortnic, R-A, Glamuzina, B., Cintă Pinzaru, S.; <b>ACS Sustainable Chem. Eng.</b> 7: 16820-16827. DOI: 10.1021/acssuschemeng.9b04362	2019	7.632	1.300
10*	Q1	●	Citrus fruits freshness assessment using Raman spectroscopy	<b>Nekvapil, F.</b> , Brezestean, I., Barchewitz, D., Glamuzina, B., Chis, V., Cintă Pinzaru, S. <b>Food Chemistry</b> , 242: 560 – 567. DOI: 10.1016/j.foodchem.2017.09.105	2018	5.399	0.955
11*	Q2	●	Raman spectra tell us so much more: Raman features and saturation magnetization for efficient analysis of manganese zinc ferrite nanoparticles	<b>Nekvapil, F.</b> , Bunge, A., Radu, T., Cintă Pinzaru, S, Turcu, R.; <b>J. Raman Spectrosc.</b> 51(6): 959-968. DOI: 10.1002/jrs.5852	2020	3.133	0.526
12*	Q2	●	Microsphere packages of carotenoids: intact sea urchin eggs tracked by Paman spectroscopy tools	<b>Nekvapil, F.</b> , Brezeștean, I., Tomšić, S., Müller, Cs., Chiș, V., Cintă Pinzaru, S.; <b>Photochem. Photobiol. Sci.</b> 18: 1933-1944. DOI: 10.1039/c9pp00181f	2019	2.831	0.511
<b>Co-author</b>							
13			Zinc-oxide nanostructures for fluorescence and Raman signal enhancement: a review	Marica, I., <b>Nekvapil, F.</b> , Ștefan, M., Farcau, C., Falamaș, A. <b>Belstein J. Nanotechnol.</b> 13: 472-490. DOI: 10.3762/bjnano.13.40	2022	3,649	0,615
14	Q1	●	Comparative screening the life-time composition and crystallinity variation in gilthead seabream otoliths Sparus aurata from different marine environments	Lazar, G., <b>Nekvapil, F.</b> , Matić-Skoko, S., Firta, C., Vrdoljak, D., Uvanović, H., Barbu-Tudoran, L., Suci, M., Glamuzina, L., Glamuzina, B., Cintă Pinzaru, S. <b>Scientific reports</b> , Accepted manuscript	2022	4.380	1.285
15	Q1	●	Size-dependent spectroscopic insight into the steady-state and time-resolved optical properties of ZnO photocatalysts	Falamas, A., Marica, I., Popa, A., Toloman, D., Pruneanu, S., Pogacean, F., <b>Nekvapil, F.</b> , Silipas, T.D., Ștefan, M. <b>Materials Science in Semiconductor Processing</b> , 145: 106644. DOI: 10.1016/j.mssp.2022.106644	2022	3.927	0.480
16	Q2		Rapid and Application-Tailored Assessment Tool for Biogenic Powders from Crustacean Shell Waste: Fourier Transform-Infrared Spectroscopy Complemented with X-ray Diffraction, Scanning Electron Microscopy, and Nuclear Magnetic Resonance Spectroscopy	Ogresta, L., <b>Nekvapil, F.</b> , Tamaș, T., Barbu-Tudoran, L., Suci, M., Hirian, R., Aluaș, M., Lazar, G., Levei, E., Glamuzina, G., Cintă Pinzaru, S. <b>ACS Omega</b> , 6(42): 27773-27780. DOI: 10.1021/acsomega.1c03279	2021	3.512	<b>0.631</b>

17	Q2		Novel Drug Carrier: 5-Fluorouracil Formulation in Nanoporous Bi-ogenic Mg-calcite from Blue Crab Shell—Proof of Concept	Lazar, G., <b>Nekvapil, F.</b> , Hirian, R., Glamuzina, B., Tamaş, T., Barbu-Tudoran, L., Cintă Pinzaru, S. <b>ACS Omega</b> , 6(42): 27781-27790. DOI: 10.1021/acsomega.1c03285	2021	3.512	<b>0.631</b>
18	Q2		Development and Characterization of Fe <sub>3</sub> O <sub>4</sub> @Carbon Nanoparticles and Their Biological Screening Related to Oral Administration	Pop, D., Buzatu, R., Moaca, E-A., Watz, C.G., Cinta Pinzaru, S., Barbu-Tudoran, L., Nekvapil, F., Avram, S., Dehelean, C.A., Cretu, M.O., Nicolov, M., Szuhaneck, C., Jivanescu, A. <b>Materials</b> 14:3556, DOI: 10.3390/ma14133556	2021	3.62	<b>0.597</b>
19	Q2	●	Biocompatible Magnetic Colloidal Suspension Used as a Tool for Localized Hyperthermia in Human Breast Adenocarcinoma Cells: Physicochemical Analysis and Complex In Vitro Biological Profile	Moaca, M-A., Walz, C-G., Socoliuc, V., Racoviceanu, R., Facurariu, C., Ianos, R., Cinta Pinzaru, S., Barbu-Tudoran, L., <b>Nekvapil, F.</b> , Iuraciu, S., Soica, C., Dehelean, C.A. <b>Nanomaterials</b> 11:1189, DOI: 10.3390/nano11051189	2021	<b>5.076</b>	<b>0.759</b>
20	Q2	●	Biogeochemical specificity of adjacent natural carbonated spring waters from Swiss Alps promptly revealed by SERS and Raman technology	Cintă Pinzaru, S., Ardeleanu, M., Brezestean, I., <b>Nekvapil, F.</b> , Venter, M.M.; <b>Anal. Methods</b> 11: 800 - 812. DOI: 10.1039/c8ay02580k	2019	2.596	0.414
21	Q3 and Q4	●	Tracking the growth rings in biogenic aragonite from fish otolith using confocal Raman microscopy and imaging	Lazar, G., Firta, C., Matic-Skoko, S., Peharda, M., Vrojčak, D., Uvanovic, H., <b>Nekvapil, F.</b> , Glamuzina, B., Cinta Pinzaru, S.; <b>Studia UBB Chemia</b> , 65(1): 125-136. DOI: 10.24193/subbchem.2020.1.10	2019	0.494	0.036
<b>Non-ISI articles</b>							
22*	non-ISI (BDI)		Exploring the biological protective role of carotenoids by Raman spectroscopy: mechanical stress of cells	<b>Nekvapil, F.</b> , Molnar Muller, Cs., Tomsic, S., Cinta Pinzaru, S.; <b>Studia UBB Physica</b> , 64(1--2): 75-82. DOI: 10.24193/subbphys.2019.08	2019	-	-

<sup>a</sup>Publications indicated with "\*" arise from the doctoral research

<sup>b</sup>ISI ranking zone as of date of publication

<sup>c</sup>Impact factor and Article Influence Score (AIS) for publications within the last 2 years are according to most recent available data from Clarivate Journals Citation Report, <https://jcr.clarivate.com/jcr/home>

### Oral and poster presentations delivered at conferences, workshops, seminars (etc.)

- Monitoring the carotenoid extraction process from crustacean shell waste using a portable Raman system  
**Nekvapil, F.**, oral presentation to the 20<sup>th</sup> Int. Symp. Life Sciences for Sustainable Development, Cluj-Napoca, 24. September 2021
- A comparative Raman spectroscopy and XRD assessment of lattice transitions and impurities in Mn and Zn doped ferrite nanoparticles  
**Nekvapil, F.**, poster presentation to the 13<sup>th</sup> Int. Conf. Processes in Isotopes and Molecules, Cluj-Napoca, 23. September 2021
- MARIFERT project summary – background, motivations and achievements*  
**Nekvapil, F.**, oral presentation to the workshop Blue bioeconomy approach to wasted marine biomass: innovative ideas, techniques and translational sciences, with participation of the company Metrohm Romania BW-TEK  
Organized by RDI Laboratory of applied Raman spectroscopy and services towards the society, within the RDI Institute of Applied Natural Sciences – Babeş-Bolyai University, and the Institute "Ioan Ursu" of the Faculty of Physics in Cluj-Napoca, 24. June 2021

4. *Alumni interview*  
**Nekvapil, F.**, invited talk (10 minutes, online) to the public promotion event of the University of Dubrovnik, session of the Applied Marine Ecology Department  
19. May 2021
5. *Raman Spectroscopy Techniques and Applications to Carotenoids Research in Marine Living Resources and to the Blue Bioeconomy*  
**Nekvapil, F.**, Doctoral Thesis, Babeş-Bolyai University, Cluj-Napoca (Romania), 25 November 2020, Excellent grade, *Summa cum laude*
6. *Spectroscopy, diffraction and electron microscopy methods for characterization of ferrite nanoparticles for medical applications.*  
**Nekvapil, F.**, poster presentation to the NANOTEK - Nanomedicine Conference for Students.  
17<sup>th</sup> October 2020
7. *New added-value by-products from biogenic waste for sustainable seafood industry and Blue bioeconomy.*  
**Nekvapil, F.**, oral presentation to the 19<sup>th</sup> Int. Conf. Life Sciences for Sustainable Development. 24<sup>th</sup>-25<sup>th</sup> September 2020. <https://symposium.usamvcluj.ro/>
8. *Raman spectroscopy analysis of metal-ferrite nanoparticles: towards precise interpretation and extraction of structural information,*  
**Nekvapil, F.**, oral presentation to the 12<sup>th</sup> International conference "Processes in Isotopes and Molecules, Cluj-Napoca (Romania), 25<sup>th</sup> -27<sup>th</sup> September 2019; <http://pim.itim-cj.ro>
9. *Hidden smart templates for blue bioeconomy: complex functional structures of marine invertebrates revealed by confocal Raman imaging,*  
**Nekvapil, F.**, poster presentation to the 16<sup>th</sup> Confocal Raman Imaging Symposium, Ulm (Germany), 23<sup>rd</sup> - 25<sup>th</sup> September 2019; <https://www.raman-symposium.com/>
10. *Rapid and cost effective tracking carotenoids in native sea urchin eggs by multi-laser Raman spectroscopy,*  
**Nekvapil, F.**, oral presentation to the 18<sup>th</sup> International conference Prospects for 3<sup>rd</sup> Millennium Agriculture, Cluj-Napoca (Romania), 27<sup>th</sup> - 29<sup>th</sup> September 2018.  
<http://symposium2018.usamvcluj.ro/>
11. *Natural Biocomposite material with antioxidant properties and a source of valuable compounds: the cuticle of *Squilla mantis* shrimp,*  
**Nekvapil, F.**, poster presentation to the 5<sup>th</sup> International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, Brasov (Romania), 23<sup>th</sup> – 25<sup>th</sup> May 2018; <http://icanmbes.unitbv.ro/>
12. *Translation of SERS technique to hydrobiology: use of metallic plasmonic nanoparticles to quench fluorescence in Raman spectroscopy analysis of natural fluids,*  
**Nekvapil, F.**, oral presentation to the 5<sup>th</sup> International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, Brasov (Romania), 23<sup>th</sup> – 25<sup>th</sup> May 2018; <http://icanmbes.unitbv.ro/>
13. *Comparative Raman spectroscopy study of the coelomic fluid of grazing sea urchins and their native seawater: prospect for a potential indicator of environmental aggression,* **Nekvapil, F.**, oral presentation to the 10<sup>th</sup> Air and Water Components of the Environment International Conference, Sovata (Romania), 13<sup>th</sup> – 15<sup>th</sup> March 2018;  
<http://aerapa.conference.ubbcluj.ro/Engleza/index.htm>
14. *Are the market citrus fresh? Raman spectroscopy can promptly tell it,*  
**Nekvapil, F.**, oral presentation to the 16<sup>th</sup> International Symposium Prospects for the 3<sup>rd</sup> Millennium Agriculture, Cluj-Napoca (Romania), 28<sup>th</sup> – 30<sup>th</sup> September 2017;  
<http://symposium.usamvcluj.ro/>

15. *Natural nanoarchitecture of blue crab (Callinectes sapidus Rathbun, 1896) claw studied by Raman spectroscopy and Scanning electron microscopy*, **Nekvapil F.**, oral presentation to the 17th International Balkan Workshop on Applied Physics, Constanta (Romania), 11th – 14th July 2017; <http://ibwap.univ-ovidius.ro/2017/>
16. *Carotenoids assessment in aquatic macro- and microorganisms – with focus on the origin of blue colour of the Blue crab (Callinectes sapidus, Rathbun 1896)* **Nekvapil F.**, Seminar of the Department of Biomolecular Physics, Babes-Bolyai University, May 2017, [http://phys.ubbcluj.ro/departamente/btism/doc/fran\\_anunt.pdf](http://phys.ubbcluj.ro/departamente/btism/doc/fran_anunt.pdf)
17. *Legislative provisions for control of spreading of the common slider, Trachemys scripta in Europe*, **Nekvapil F.**, poster presentation to the FINS II – Freshwater Invasives – Networking for Strategy, Zagreb (Croatia), 11th – 14th July 2016; <http://finsconference.eu/>
18. *Study of pluripotency of the sea urchin Paracentrotus lividus (Lamarck, 1816.) blastomeres*, **Nekvapil F.**, oral presentation to the International Exploratory Workshop in cooperation with B&W tek „Shedding Laser Light on the Adriatic Seawater Environment”, October 23, 2015, University of Dubrovnik, Dubrovnik, Croatia; <http://www.unidu.hr/novost.php?idvijest=5607>

### All conference contributions

Nr	Conference	Contribution	Organization
1	20 <sup>th</sup> Int. Conf. Life Sciences for Sustainable Development	<b>Nekvapil, F.</b> , Bunea, A., Bunge, A., Cinta Pinzaru, S. Monitoring the carotenoid extraction process from crustacean shell waste using a portable Raman system	University of Agricultural Sciences and Veterinary Medicine (USAMV) of Cluj-Napoca; 23.-24. September 2021
2	13 <sup>th</sup> Int. Conf. Processes in Isotopes and Molecules	<b>Nekvapil, F.</b> , Bunge, A., Bortnic, R-A., Turcu, R. A comparative Raman spectroscopy and XRD assessment of lattice transitions and impurities in Mn and Zn doped ferrite nanoparticles	National Institute for Research and Development of Isotopic and Molecular Technologies, Cluj-Napoca (INCDTIM), 22.-25. September 2021
3	NANOTEK - Nanomedicine Conference for Students	<b>Nekvapil, F.</b> , Bortnic, R-A., Cinta Pinzaru, S., Radu, T., Bunge, A., Turcu, R. Spectroscopy, diffraction and electron microscopy methods for characterization of ferrite nanoparticles for medical applications	University of Medicine and Pharmacology (UMF) Cluj-Napoca; held online 17. 18. October 2020
4	19 <sup>th</sup> Int. Conf. Life Sciences for Sustainable Development	<b>Nekvapil, F.</b> , Lazar, G., Hirian, R., Barbu-Tudoran, L., Suci, M., Tamas, T., Ganea, I-V., Glamuzina, B., Cinta Pinzaru, S. New added-value by-products from biogenic waste for sustainable seafood industry and Blue bioeconomy	University of Agricultural Sciences and Veterinary Medicine (USAMV) of Cluj-Napoca; held online 24.-25. September 2020
5	19 <sup>th</sup> Int. Conf. Life Sciences for Sustainable Development	Lazar, G., <b>Nekvapil, F.</b> , Glamuzina, B., Cinta Pinzaru, S. New drug carrier from wasted biogenic carbonates	University of Agricultural Sciences and Veterinary medicine (USAMV) of Cluj-Napoca; held online 24.-25. September 2020
6	12th International Conference Processes in Isotopes and Molecules	<b>Nekvapil, F.</b> , Bunge, A., Radu, T., Cinta Pinzaru, S., Turcu, R. Raman spectroscopy analysis of metal-ferrite nanoparticles: towards precise interpretation and extraction of structural information	National Institute for Research and Development of Isotopic and Molecular Technologies, Cluj-Napoca, 25th - 27th September 2019 Book of Abstracts, p. 17 <a href="http://pim.itim-cj.ro/pages/programme.html">http://pim.itim-cj.ro/pages/programme.html</a>
7	16th Confocal Raman	<b>Nekvapil, F.</b> , Cinta Pinzaru, S., Glamuzina, B. Hidden smart templates for blue bioeconomy: complex functional structures	WiTec GmbH, Ulm, 23rd - 25th September 2019 Book of Abstracts, p. 61



	Imaging Symposium	of marine invertebrates revealed by confocal Raman imaging	<a href="https://www.raman-symposium.com/assets/Uploads/Review2019/WITec-Abstract-Book-Symposium-2019-web.pdf">https://www.raman-symposium.com/assets/Uploads/Review2019/WITec-Abstract-Book-Symposium-2019-web.pdf</a> .
9	5th International Sclerochronology Conference	Cinta Pinzaru, S., Matić-Skoko, S., Peharda, M., Vrdoljak, D., Uvanović, H., Firta, C., Lazar, G., <b>Nekvapil, F.</b> , Barbu-Tudoran, L., Suciú M., Glamuzina, B. Raman spectroscopy and imaging tools for correlative analyses in otoliths sclerochronology	Institute for Oceanography and Fisheries, Split, 2019 Book of Abstracts, p. 144 Peharda, M., Ezgeta-Balić, D., Uvanović, H. (Eds)
0	5th International Sclerochronology Conference	Suciú M., Barbu-Tudoran, L., <b>Nekvapil, F.</b> , Cinta Pinzaru, S., Glamuzina, B. EDX in Bouligand pattern sclerochronology	Institute for Oceanography and Fisheries, Split, 2019 Book of Abstracts, p. 150 Peharda, M., Ezgeta-Balić, D., Uvanović, H. (Eds)
10		<b>Nekvapil, F.</b> , Brezeştean, I., Tomsic, S., Muller, Cs., Chis, V., Cintă Pinzaru, S. Rapid and cost effective tracking carotenoids in native sea urchin eggs by multi-laser Raman spectroscopy	Faculty of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca, 27 <sup>th</sup> - 29 <sup>th</sup> September 2018 Book of Abstracts Vodnar, D.C. (ed.)
11	5 <sup>th</sup> Int. Conf. on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences	<b>Nekvapil, F.</b> , Brezeştean, I., Glamuzina, Tomsic, S., B., Barbu-Tudoran, L., Chis, V., Cinta Pinzaru, S. (2018) Natural Biocomposite material with antioxidant properties and a source of valuable compounds: the cuticle of <i>Squilla mantis</i> shrimp	Transilvania University Press, Brasov, 23 <sup>th</sup> – 25 <sup>th</sup> May 2018 Book of Abstracts, ISSN: 2360-3461 , ISSN-L: 2360-3461. p. 153 Florescu, M., Raicu, V., Turcu, I. (eds.) <a href="http://icanmbes.unitbv.ro/Astracts%20Book%20IC-ANMBES_2018_final.pdf">http://icanmbes.unitbv.ro/Astracts%20Book%20IC-ANMBES_2018_final.pdf</a>
12	5 <sup>th</sup> Int. Conf. on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences	<b>Nekvapil, F.</b> , Brazestean, I., Tomsic, S., Cinta Pinzaru, S. (2018) Translation of SERS technique to hydrobiology: use of metallic plasmonic nanoparticles to quench fluorescence in Raman spectroscopy analysis of natural fluids	Transilvania University Press, Brasov, 23 <sup>th</sup> – 25 <sup>th</sup> May 2018 Book of Abstracts, ISSN: 2360-3461 , ISSN-L: 2360-3461. p. 60 Florescu, M., Raicu, V., Turcu, I. (eds.) <a href="http://icanmbes.unitbv.ro/Astracts%20Book%20IC-ANMBES_2018_final.pdf">http://icanmbes.unitbv.ro/Astracts%20Book%20IC-ANMBES_2018_final.pdf</a>
13	Air and water components of the environment	<b>Nekvapil, F.</b> , Tomšić, S., Cintă Pinzaru, S. (2018) Comparative Raman spectroscopy study of the coelomic fluid of grazing sea urchins and their native seawater: prospect for a potential indicator of environmental aggression <u>in extenso proceeding, indexed ProQuest, Ebsco</u>	University Press, Cluj-Napoca 13 <sup>th</sup> – 15 <sup>th</sup> March 2018, ISSN: 2067-743. p. 27 – 34. Book of Abstracts Şerban, G., Băţinaş, R., Tudose, T., Horváth, Cs., Croitoru, A., Holobăcă, J. (eds.) SPECTROSCOPY_STUDY_OF_THE_COELOMIC_FLUID_OF_GRAZING_SEA_URCHINS_AND_THEIR_NATIVE_SEAWATER_PROSPECT_FOR_A_POTENTIAL_INDICATOR_OF_ENVIRONMENTAL_AGGRESSION
14	Air and water components of the environment	Brezeştean, I., <b>Nekvapil, F.</b> , Cintă Pinzaru, S. Analysis of hypersaline waters from Cojocna balneary resorts (Romania) using Raman spectroscopy techniques <u>in extenso proceeding, indexed ProQuest, Ebsco</u>	University Press, Cluj-Napoca 13 <sup>th</sup> – 15 <sup>th</sup> March 2018, ISSN: 2067-743. p. 27 – 34. Book of Abstracts Şerban, G., Băţinaş, R., Tudose, T., Horváth, Cs., Croitoru, A., Holobăcă, J. (eds.) SPECTROSCOPY_STUDY_OF_THE_COELOMIC_FLUID_OF_GRAZING_SEA_URCHINS_AND_THEIR_NATIVE_SEAWATER_PROSPECT_FOR_A_POTENTIAL_INDICATOR_OF_ENVIRONMENTAL_AGGRESSION
15		<b>Nekvapil, F.</b> , Brezeştean, I., Barchewitz, D., Glamuzina, B., Chis, V., Cintă Pinzaru, S., Andronie, L. Are the market citrus fresh? Raman spectroscopy can promptly tell it	Faculty of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca, 28 <sup>th</sup> – 30 <sup>th</sup> September 2017, ISSN: 2392-6937, ISSN-L: 2392-6937 Book of Abstracts no. 4/2017, p. 230 Vodnar, D.C. (ed.)
16		Cintă Pinzaru, <b>Nekvapil, F.</b> , Ljubimir, S., Tomšić, S., Glamuzina, B., Brezeştean, I., Venter, M.M., Andronie, L.M., Barbu-Tudoran, L., Suciú M., Chis, V. Fucoxanthin distribution in single pennate diatom cell in vivo and cell reaction under aggression	Veterinary Medicine of Cluj-Napoca, 28 <sup>th</sup> – 30 <sup>th</sup> September 2017, ISSN: 2392-6937, ISSN-L: 2392-6937 Book of Abstracts no. 4/2017, p. 231 Vodnar, D.C. (ed.)
17		Firta, C., <b>Nekvapil, F.</b> , Brezeştean, I., Cintă Pinzaru, S. Aquarium biofilm inhibition in the presence of AgNPs deposited on soda lime silica glass	Veterinary Medicine of Cluj-Napoca, 28 <sup>th</sup> – 30 <sup>th</sup> September 2017, ISSN: 2392-6937, ISSN-L: 2392-6937 Book of Abstracts no. 4/2017, p. 225

			Vodnar, D.C. (ed.)
18		Andronie, L., Mireaşan, V., Pop, I., Rotaru, A., Coroian, A., <b>Nekvapil, F.</b> , Cintă Pinzaru, S. Comparative citric acid (E330) analysis in citrus fruits using FT-IR and Raman spectroscopy.	30th September 2017, ISSN: 2392-6937, ISSN-L: 2392-6937 Book of Abstracts no. 4/2017, p. 484 Vodnar, D.C. (ed.)
19		<b>Nekvapil, F.</b> , Tomšić, S., Glamuzina, B., Barbu-Tudoran, L., Brezestean, I., Cintă Pinzaru, S., Natural nanoarchitecture of blue crab ( <i>Callinectes sapidus</i> Rathbun, 1896) claw studied by Raman spectroscopy and Scanning electron microscopy	University of Ovidius Press, 11th – 14th July 2017, ISSN 2501-9050, ISSN-L 2501-9058 Conference Proceedings Issue 17/2017p. 146 – 147.; Vladoiu, R., Mandes, A., Dinca Balan, V. (eds.) <a href="http://ibwap.univ-ovidius.ro/2017/uploads/template/Book_of_abstracts_IBWAP2017.pdf">http://ibwap.univ-ovidius.ro/2017/uploads/template/Book_of_abstracts_IBWAP2017.pdf</a>
20		<b>Nekvapil, F.</b> Legislative provisions for control of spreading of the common slider, <i>Trachemys scripta</i> in Europe	University of Zagreb, Faculty of Agriculture, Zagreb, Croatia, 11th – 14th July 2016 Book of abstracts., p. 39 – 40 Piria, M. (ed.).

## B. Submitted publications with peer review process

### Articles

There are currently no submitted manuscripts.

### Contributions to conference proceedings

**Nekvapil, F.**, Tomšić, S., Chiş, V., Cintă Pinzaru, S. Raman spectroscopy in carotenoids metabolic pathways research: the example of sea urchins. Accepted as an oral presentation to the International Conference on Raman Spectroscopy, Rome, originally planned for August 2020, postponed to August 2021, postponed to August 2022 due to Covid-19 pandemic situation

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