

# Prehľad citácií vedeckých prác

**M. Kvasnica, M. Herceg, Ľ. Čirka, M. Fikar: Model predictive control of a CSTR: A hybrid modeling approach. *Chemical papers*, č. 3, zv. 64, str. 301–309, 2010.**

1	Li, Bingyun, Song, Chunyue, Zhao, Jun, Xu, Zuhua: An event-triggered model predictive control with exponentially stable offset free for PWA systems with model-plant mismatch. <i>Journal of the Franklin Institute-engineering and Applied Mathematics</i> , č. 7, zv. 358, str. 3585-3608, 2021.	Wo S	SC I
2	Xin, Li-Ping, Yu, Bo, Zhao, Lin, Yu, Jinpeng: Adaptive fuzzy backstepping control for a two continuous stirred tank reactors process based on dynamic surface control approach. <i>Applied Mathematics and Computation</i> , č. 125138, zv. 377, 2020.	Wo S	SC I
3	Vlahakis, Eleftherios, Halikias, George: Temperature and concentration control of exothermic chemical processes in continuous stirred tank reactors. <i>Transactions of the Institute of Measurement and Control</i> , č. 15, zv. 41, str. 4274-4284, 2019.	Wo S	SC I
4	Kroll, Andreas, Schulte, Horst: Benchmark problems for nonlinear system identification and control using Soft Computing methods: Need and overview. <i>Applied Soft Computing</i> , zv. 25, str. 496-513, 2014.	Wo S	SC I
5	Lopez Perez, Pablo Antonio, Neria Gonzalez, M. Isabel, Aguilar Lopez, Ricardo: Cadmium concentration stabilization in a continuous sulfate reducing bioreactor via sulfide concentration control. <i>Chemical Papers</i> , č. 3, zv. 67, str. 326-335, 2013.	Wo S	SC I
6	Ping, Xubin, Ding, Baocang: Off-line approach to dynamic output feedback robust model predictive control. <i>Systems &amp; Control Letters</i> , č. 11, zv. 62, str. 1038-1048, 2013.	Wo S	SC I
7	Bakosova, Monika, Oravec, Juraj, Matejickova, Katarina: Model predictive control-based robust stabilization of a chemical reactor. <i>Chemical Papers</i> , č. 9, zv. 67, str. 1146-1156, 2013.	Wo S	SC I
8	Dostal, Petr, Bakosova, Monika, Vojtesek, Jiri, Bobal, Vladimir: Adaptive nonlinear control of a continuous stirred tank reactor. <i>Chemical Papers</i> , č. 5, zv. 65, str. 636-643, 2011.	Wo S	SC I
9	Naregalkar, Akshaykumar, Durairaj, Subbulekshmi: A novel LSSVM-L Hammerstein model structure for system identification and nonlinear model predictive control of CSTR servo and regulatory control. <i>Chemical Product and Process Modeling</i> , č. 6, zv. 17, str. 619-635, 2022.	Wo S	in é
10	Bakosova, Monika, Oravec, Juraj: Robust MPC of an unstable chemical reactor using the nominal system optimization. <i>Acta Chimica Slovaca</i> , č. 2, zv. 7, str. 87-93, 2014.	Wo S	in é

1	Ivanescu, Anca Maria, Abel, Dirk, Albin, Thivaharan, Seidl, Thomas: Employing the Principal Hessian Direction for Building Hinging Hyperplane Models. V 12th IEEE International Conference on Data Mining Workshops (icdmw 2012), str. 481-485, 2012.	Wo S	in é
1 2	Oravec, Juraj, Bakosova, Monika: Robust constrained MPC stabilization of a CSTR. Acta Chimica Slovaca, č. 2, zv. 5, str. 153-158, 2012.	Wo S	in é

**M. Kvasnica, J. Löfberg, M. Herceg, Ľ. Čirka, M. Fikar: Low-Complexity Polynomial Approximation of Explicit MPC via Linear Programming. V *Proceedings of the American Control Conference*, Baltimore, USA, str. 4713-4718, 2010.**

1	Findeisen, Rolf, Graichen, Knut, Monnigmann, Martin: Embedded optimization in control: an introduction, opportunities, and challenges. At-automatisierungstechnik, č. 11, zv. 66, str. 877-902, 2018.	Wo S	SC I
2	Jiang, Ya-Li, Zou, Yuan-Yuan, Niu, Yu-Gang: An efficient explicit algorithm for multi-rate predictive control systems. International Journal of Modelling Identification and Control, č. 3, zv. 20, str. 208-214, 2013.	Wo S	in é
3	Wang, Xu, Grip, Havard Fjaer, Saberi, Ali, Johansen, Tor Arne: A new low-and-high gain feedback design using MPC for global stabilization of linear systems subject to input saturation. V 2012 American Control Conference (ACC), str. 2337-2342, 2012.	Wo S	in é
4	Domahidi, Alexander, Zeilinger, Melanie N., Morari, Manfred, Jones, Colin N.: Learning a Feasible and Stabilizing Explicit Model Predictive Control Law by Robust Optimization. V 2011 50th IEEE Conference on Decision and Control and European Control Conference (CDC-ECC), str. 513-519, 2011.	Wo S	in é

**M. Kalúz, Ľ. Čirka, M. Fikar: Virtual and Remote Laboratories in Education Process at FCFT STU. Editor(i): Michael E. Auer, Mikuláš Huba, V *Proceedings of the 14th International Conference on Interactive Collaborative Learning*, International Association of Online Engineering, Kirchengasse 10/200, A-1070, Wien, Austria, Piešťany, Slovakia, str. 134-139, 2011.**

1	Romagnoli, Giovanni, Esposito, Giovanni, Rizzi, Antonio, Zammori, Francesco, Bertolini, Massimo, Uckelmann, Dieter: Lab Networks in Engineering Education: A Proposed Structure for Organizing Information. International Journal of Online and Biomedical Engineering, č. 5, zv. 16, str. 41-70, 2020.	Wo S	in é
2	Dolezel, Petr, Dvorak, Miroslav: Computer game as a tool for machine learning education. V 2017 21st International Conference on Process Control (pc), str. 104-108, 2017.	Wo S	in é

3	Huba, Mikulas, Kozak, Stefan: From E-learning to Industry 4.0. V 2016 International Conference on Emerging Elearning Technologies and Applications (iceta), 2016.	Wo S	in é
---	---	---------	---------

4	Palkovic, Lukas, Rodina, Jozef, Chovanec, Ľuboš, Chovancova, Anezka, Hubinsky, Peter: Remote Laboratory with Modular Inertial Measuring Unit Platform. V Modelling of Mechanical and Mechatronic Systems, str. 345-354, 2014.	Wo S	in é
---	---	---------	---------

**M. Kalúz, Ľ. Čírka, M. Fikar: Virtual and Remote Laboratories in Process of Control Education. *International Journal of Online Engineering*, č. 1, zv. 8, str. 8-13, 2012.**

1	Gao, Sitian, Lu, Yunpeng, Ooi, Ching Hui, Cai, Yiyu, Gunawan, Poernomo: Designing interactive augmented reality application for student's directed learning of continuous distillation process. <i>Computers &amp; Chemical Engineering</i> , č. 108086, zv. 169, 2023.	Wo S	SC I
---	---	---------	---------

2	Ni, Jian-Long, Li, Jing-Rong, Xu, De-Jian, Yu, Yong-Peng, Wang, Qing-Hui: A development platform prototype for virtual laboratories. <i>Computer Applications in Engineering Education</i> , č. 3, zv. 30, str. 678-689, 2022.	Wo S	SC I
---	--	---------	---------

**M. Kalúz, Ľ. Čírka, M. Fikar: Simplifying the Implementation of Remote Laboratories in Educational Environments Using Industrial Hardware. Editor(i): Fikar, M., Kvasnica, M., V *Proceedings of the 19th International Conference on Process Control*, Slovak University of Technology in Bratislava, Štrbské Pleso, Slovakia, str. 522-527, 2013.**

1	Bistak, P., Zakova, K.: Rapid Design of Simple Remote Laboratory Using Matlab. V 2013 11th IEEE International Conference on Emerging Elearning Technologies and Applications (iceta 2013), str. 41-45, 2013.	Wo S	in é
---	--	---------	---------

**M. Kalúz, J. García-Zubía, M. Fikar, Ľ. Čírka: A Flexible and Configurable Architecture for Automatic Control Remote Laboratories. *IEEE Transactions on Learning Technologies*, č. 3, zv. 8, str. 299-310, 2015.**

1	Gude, Juan J., Bringas, Pablo Garcia: A Novel Control Hardware Architecture for Implementation of Fractional-Order Identification and Control Algorithms Applied to a Temperature Prototype. <i>Mathematics</i> , č. 1, zv. 11, 2023.	Wo S	SC I
---	---	---------	---------

2	Lei, Zhongcheng, Zhou, Hong, Hu, Wenshan, Liu, Guo-Ping: Toward an international platform: A web-based multi-language system for remote and virtual laboratories using react framework. <i>Heliyon</i> , č. 10, zv. 8, 2022.	Wo S	SC I
---	--	---------	---------

3	Xue, Liwei, Hu, Wenshan, Liu, Guo-Ping: Learning with remote laboratories: Designing control algorithms with both block diagrams and customized C code schemes. <i>Computer Applications in Engineering Education</i> , č. 5, zv. 30, str. 1561-1576, 2022.	Wo S	SC I
---	---	---------	---------

4	Guo, Liping, Abdul, Nauman Moiz Mohammed, Vengalil, Madhav, Wang, Kezhou, Santuzzi, Alecia: Engaging Renewable Energy Education Using a Web-Based Interactive Microgrid Virtual Laboratory. IEEE ACCess, zv. 10, str. 60972-60984, 2022.	Wo S	SC I
5	Guo, Liping, Vengalil, Madhav, Abdul, Nauman Moiz Mohammed, Wang, Kezhou: Design and implementation of virtual laboratory for a microgrid with renewable energy sources. Computer Applications in Engineering Education, č. 2, zv. 30, str. 349-361, 2022.	Wo S	SC I
6	Saenz, Jacobo, de la Torre, Luis, Chacon, Jesus, Dormido, Sebastian: A Study of Strategies for Developing Online Laboratories. IEEE Transactions on Learning Technologies, č. 6, zv. 14, str. 777-787, 2021.	Wo S	SC I
7	Dudic, Slobodan, Sulc, Jovan, Reljic, Vule, Bajci, Brajan, Seslija, Dragan, Milenkovic, Ivana: Automatic device for remote measuring of circularity: Development and implementation in education courses. Journal of Engineering Research, č. 4A, zv. 9, str. 235-245, 2021.	Wo S	SC I
8	Chamunorwa, Tinashe, Modran, Horia Alexandru, Ursutiu, Doru, Samoila, Cornel, Hedesiu, Horia: Reconfigurable Wireless Sensor Node Remote Laboratory Platform with Cloud Connectivity. Sensors, č. 19, zv. 21, 2021.	Wo S	SC I
9	Lei, Zhongcheng, Zhou, Hong, Hu, Wenshan, Deng, Qijun, Zhou, Dongguo, Liu, Zhi-Wei, Gao, Xingran: 3-D Interactive Control Laboratory for Classroom Demonstration and Online Experimentation in Engineering Education. IEEE Transactions on Education, č. 3, zv. 64, str. 276-282, 2021.	Wo S	SC I
10	Campoverde-Molina, Milton, Lujan-Mora, Sergio, Valverde, Llorenc: Systematic literature review on software architecture of educational websites. Iet Software, č. 4, zv. 15, str. 239-259, 2021.	Wo S	SC I
11	Lucia, Oscar, Martins, Joao, Ibrahim, Yousef, Umetani, Kazuhiro, Gomes, Luis, Hiraki, Eiji, Zeroug, Houcine, Manic, Milos: Industrial Electronics Education: Past, Present, and Future Perspectives. IEEE Industrial Electronics Magazine, č. 1, zv. 15, str. 140-154, 2021.	Wo S	SC I
12	Letowski, Bastien, Lavayssiere, Camille, Larroque, Benoit, Schroeder, Martin, Luthon, Franck: A Fully Open Source Remote Laboratory for Practical Learning. Electronics, č. 11, zv. 9, 2020.	Wo S	SC I
13	Shao, Shifen, Zhang, Kaisheng: An Improved Multisensor Self-Adaptive Weighted Fusion Algorithm Based on Discrete Kalman Filtering. Complexity, č. 9673764, zv. 2020, 2020.	Wo S	SC I
14	Bonavolonta, Francesco, D'Arco, Mauro, Liccardo, Annalisa, Tamburis, Oscar: Remote laboratory design and implementation as a measurement and automation experiential learning opportunity. IEEE Instrumentation & Measurement Magazine, č. 6, zv. 22, str. 62-67, 2019.	Wo S	SC I

1	Maldonado, J., Luna, L., Garrido, R., Castro, G.: A Teaching Methodology	Wo	SC
5	Based on an Educational Experimental Platform. IEEE Latin America Transactions, č. 8, zv. 17, str. 1363-1370, 2019.	S	I
1	Jaziri, Ibtihel, Charaabi, Lotfi, Jelassi, Khaled: Remote web-based control	Wo	SC
6	laboratories using embedded Linux and field-programmable gate array. Proceedings of the Institution of Mechanical Engineers Part I-journal of Systems and Control Engineering, č. 9, zv. 232, str. 1146-1154, 2018.	S	I
1	Hu, Wenshan, Lei, Zhongcheng, Zhou, Hong, Liu, Guo-Ping, Deng, Qijun,	Wo	SC
7	Zhou, Dongguo, Liu, Zhi-Wei: Plug-in Free Web-Based 3-D Interactive Laboratory for Control Engineering Education. IEEE Transactions on Industrial Electronics, č. 5, zv. 64, str. 3808-3818, 2017.	S	I
1	Gonzalez, Isaias, Calderon, Antonio Jose, Mejias, Andres, Andujar, Jose	Wo	SC
8	Manuel: Novel Networked Remote Laboratory Architecture for Open Connectivity Based on PLC-OPC-LabVIEW-EJS Integration. Application in Remote Fuzzy Control and Sensors Data Acquisition. Sensors, č. 11, zv. 16, 2016.	S	I
1	Ruano, Ildefonso, Cano, Pablo, Gamez, Javier, Gomez, Juan: Advanced LMS	Wo	SC
9	Integration of SCORM Web Laboratories. IEEE Access, zv. 4, str. 6352-6363, 2016.	S	I
2	Lavayssiere, Camille, Larroque, Benoit, Luthon, Franck: Laborem Box: A	Wo	in
0	scalable and open source platform to design remote lab experiments in electronics. HardwareX, č. e00301, zv. 11, 2022.	S	é
2	Zhou, Xingwei, Hu, Wenshan, Liu, Guo-Ping, Pang, Zhonghua: Face	Wo	in
1	Recognition System Based on NCSLab for Online Experimentation in Engineering Education. V 2022 41st Chinese Control Conference (ccc), str. 4390-4394, 2022.	S	é
2	Chacon, Jesus, Besada-Portas, Eva, Garcia-Perez, Lia, Lopez-Orozco, Jose A.:	Wo	in
2	Efficient deployment of remote laboratories with TwinCAT-PLCs and EjsS Plugins. Ifac Papersonline, č. 17, zv. 55, str. 326-331, 2022.	S	é
2	Taj, Amine Moulay, Chacon, Jesus, de la Torre, Luis, Malaoui, Abdessamad,	Wo	in
3	Dormido, Sebastian: An architecture to implement generalized sampling in Online Laboratories. Ifac Papersonline, č. 17, zv. 55, str. 332-337, 2022.	S	é
2	Shu, Beibei, Arnarson, Halldor, Solvang, Bjorn, Kaarlela, Tero, Pieska, Sakari:	Wo	in
4	Platform independent interface for programming of industrial robots. V 2022 IEEE/sice International Symposium on System Integration (sii 2022), str. 797-802, 2022.	S	é
2	Scaffidi, Carlo, Distefano, Salvatore: A Remotely Configurable	Wo	in
5	Hardware/Software Architecture for a Distance IoT Lab. V 2021 IEEE International Conference on Smart Computing (smartcomp 2021), str. 341-346, 2021.	S	é

2 6	Yang, Rui, Qi, Yutao, Deng, Jun, Liu, Zhiyang, Luo, Mingzhang, Yuan, Xiaolong: A Flexible Remote Laboratory Platform for Interactive AI Experiments with Hardware and Software Facilities. V 2021 International Conference on Cyber-physical Social Intelligence (iccsi), 2021.	Wo S	in é
2 7	Chen, Joy Iong-Zong: The implementation to intelligent linkage service over AIoT hierarchical for material flow management. Journal of Ambient Intelligence and Humanized Computing, č. 2, zv. 12, str. 2207-2219, 2021.	Wo S	in é
2 8	Bistak, Pavol, Huba, Mikulas: Interactive Software Tool for Design of Higher Derivative Degree PID Controllers. Ifac Papersonline, č. 2, zv. 53, str. 17198-17203, 2020.	Wo S	in é
2 9	Bistak, Pavol: Remote Control Laboratory for Three-Tank Hydraulic System Using Matlab, Websockets and JavaScript. Ifac Papersonline, č. 2, zv. 53, str. 17240-17245, 2020.	Wo S	in é
3 0	Zhou, Xingwei, Hu, Wenshan, Liu, Guo-Ping: React-Native Based Mobile App for Online Experimentation. V Proceedings of the 39th Chinese Control Conference, str. 4400-4405, 2020.	Wo S	in é
3 1	Bin Embong, Abd Halim, Akbar, Muhammad Ali, Rashid, Muhammad Mahbubur: DESIGN AND DEVELOPMENT OF MULTIPURPOSE EDUCATIONAL AND RESEARCH PLATFORM (MERP) FOR LEARNING CONTROL AND IOT TECHNOLOGIES. Journal of Engineering Science and Technology, č. 2, zv. 14, str. 747-762, 2019.	Wo S	in é
3 2	Bistak, Pavol: Arduino Support for Personalized Learning of Control Theory Basics. Ifac Papersonline, č. 27, zv. 52, str. 217-221, 2019.	Wo S	in é
3 3	Bistak, Pavol, Huba, Mikulas: Analysis of Higher Derivative Degree PID Controllers via Virtual Laboratory. V 2019 27th Mediterranean Conference on Control and Automation (med), str. 356-361, 2019.	Wo S	in é
3 4	Chaudhari, Sandip Jiyalal, Patil, Pragati: Dynamic Features Extraction System of pets on Plants Processing. V Proceedings of the 2019 3rd International Conference on Computing Methodologies and Communication (iccmc 2019), str. 1201-1205, 2019.	Wo S	in é
3 5	Angrisani, Leopoldo, Cesaro, Umberto, D'Arco, Mauro, Grillo, Domenicantonio, Tocchi, Alessandro: IoT enabling measurement applications in Industry 4.0: platform for remote programming ATEs. V 2018 IEEE International Workshop on Metrology for Industry 4.0 and Iot (metroind4.0&iot), str. 40-45, 2018.	Wo S	in é
3 6	Machado, Guido Soprano, Lopes Rodrigues Silva, Yuri Motta, de Lucena, Jr., Vicente Ferreira: A Tool for the Automatic Selection of Mechatronics Remote Laboratories based on their Actual Effective Costs. V 2018 IEEE Frontiers in Education Conference (fie), 2018.	Wo S	in é

3 7	Kazimirov, A. N.: Education at University and Industry 4.0. V 2018 Global Smart Industry Conference (glosic), 2018.	Wo S	in é
3 8	Bistak, Pavol: Disturbance Analysis Virtual Laboratory for PID Controllers with Higher Derivative Degrees. V 2018 16th International Conference on Emerging Elearning Technologies and Applications (iceta), str. 69-74, 2018.	Wo S	in é
3 9	Maldonado, Jessica J., Garrido, Ruben, Castro, Gerardo: A Methodology to Teach Mechatronics through Building a Hands-on Platform.. V 2018 15th International Conference on Electrical Engineering, Computing Science and Automatic Control (cce), 2018.	Wo S	in é
4 0	Qian Jing, Nie Yu-man, Wang Yong-ping, Cao Ping-guo, Lei Jian-he, Song Quan-jun: Dynamic Features Extraction System of Live Pests in Farmland. V Proceedings 2018 33rd Youth Academic Annual Conference of Chinese Association of Automation (yac), str. 1141-1146, 2018.	Wo S	in é
4 1	Bistak, Pavol, Huba, Mikulas: Three-Tank Virtual Laboratory for Dynamical Feedforward Control Based on Matlab. V 2017 19th International Conference on Electrical Drives and Power Electronics (edpe), str. 318-323, 2017.	Wo S	in é
4 2	Bistak, P., Halas, M., Huba, M.: Modern Control Systems via Virtual and Remote Laboratory Based on Matlab. Ifac Papersonline, č. 1, zv. 50, str. 13498-13503, 2017.	Wo S	in é
4 3	Dolezel, Petr, Dvorak, Miroslav: Computer game as a tool for machine learning education. V 2017 21st International Conference on Process Control (pc), str. 104-108, 2017.	Wo S	in é
4 4	Bistak, Pavol, Huba, Mikulas: Simulation Tool for Time Sub-Optimal Control of Time-Delayed Systems with Input Saturation. V Proceedings of 2017 4th Experiment@international Conference (exp.at'17), str. 275-279, 2017.	Wo S	in é
4 5	Janssen, Benedikt, Wehner, Philipp, Goehringer, Diana, Huebner, Michael: Development of Advanced Driver Assistance Systems using LabVIEW and a Car Simulator. V Proceedings of the 2016 Workshop on Embedded and Cyber-physical Systems Education (wese), 2016.	Wo S	in é
4 6	Langmann, Reinhard, Rojas-Pena, Leandro: PLCs as Industry 4.0 Components in Laboratory Applications. International Journal of Online Engineering, č. 7, zv. 12, str. 37-44, 2016.	Wo S	in é
4 7	Williams, Wesley B., Browne, Aidan F.: Development of a Remote Laboratory Architecture for Mission Critical Operations Instruction. V Southeastcon 2016, 2016.	Wo S	in é
4 8	Bistak, P., Huba, M.: Three-Tank Virtual Laboratory for Input Saturation Control Based on Matlab. Ifac Papersonline, č. 6, zv. 49, str. 207-212, 2016.	Wo S	in é

4	Huba, Mikulas, Kozak, Stefan: From E-learning to Industry 4.0. V 2016	Wo	in
9	International Conference on Emerging Elearning Technologies and Applications (iceta), 2016.	S	é

**I. Špánik, Ľ. Čírka, P. Májek: Classification of wine distillates using multivariate statistical methods based on their direct GC-MS analysis. *Chemical Papers*, č. 3, zv. 69, str. 395–401, 2015.**

1	Korban, Anton, Charapitsa, Siarhei, Cabala, Radomir, Sobolenko, Lidia, Egorov, Vladimir, Sytova, Svetlana: Advanced GC-MS method for quality and safety control of alcoholic products. <i>Food Chemistry</i> , č. 128107, zv. 338, 2021.	Wo S	SC I
2	Raber, Alexandra G., Peachey-Stoner, Reuben J., Cessna, Stephen G., Siderhurst, Matthew S.: Headspace GC-MS analysis of differences in intra- and interspecific Terpene profiles of <i>Picea pungens</i> Engelm. and <i>P. abies</i> (L.) Karst. <i>Phytochemistry</i> , č. 112541, zv. 181, 2021.	Wo S	SC I
3	Jin, Xinyu, Wu, Shimin, Yu, Wenjuan, Xu, Xinyi, Huang, Mingquan, Tang, Yongfang, Yang, Zhenyu: Wine Authentication Using Integration Assay of MIR, NIR, E-tongue, HS-SPME-GC-MS, and Multivariate Analyses: A Case Study for a Typical Cabernet Sauvignon Wine. <i>Journal of Aoac International</i> , č. 4, zv. 102, str. 1174-1180, 2019.	Wo S	SC I
4	Carter, James F.: Alcoholic Beverages II-Spirits, Beer, Sake and Cider. V <i>Food Forensics: Stable Isotopes As a Guide To Authenticity and Origin</i> , str. 207-238, 2017.	Wo S	in é

**P. Bakaráč, M. Kalúz, Ľ. Čírka: Design and Development of a Low-cost Inverted Pendulum for Control Education. Editor(i): M. Fikar and M. Kvasnica, V *Proceedings of the 21st International Conference on Process Control, Slovak Chemical Library, Štrbské Pleso, Slovakia*, str. 398–403, 2017.**

1	Israilov, Sardor, Fu, Li, Sanchez-Rodriguez, Jesus, Fusco, Franco, Allibert, Guillaume, Raufaste, Christophe, Argentina, Mederic: Reinforcement learning approach to control an inverted pendulum: A general framework for educational purposes. <i>Plos One</i> , č. 2, zv. 18, 2023.	Wo S	SC I
2	Kao, Sho-Tsung, Ho, Ming-Tzu: Balance Control of a Configurable Inverted Pendulum on an Omni-Directional Wheeled Mobile Robot. <i>Applied Sciences-basel</i> , č. 20, zv. 12, 2022.	Wo S	SC I
3	Philip, Ebin, Golluri, Sharath: Implementation of an Autonomous Self-Balancing Robot Using Cascaded PID Strategy. V 2020 6th International Conference on Control, Automation and Robotics (iccar), str. 74-79, 2020.	Wo S	in é



4	Takacs, Gergely, Konkoly, Tibor, Gulan, Martin: OptoShield: A Low-Cost Tool for Control and Mechatronics Education. V 2019 12th Asian Control Conference (ascc), str. 1001-1006, 2019.	Wo S	in é
5	Takacs, Gergely, Gulan, Martin, Bavlina, Juraj, Koplinger, Richard, Kovac, Michal, Mikulas, Erik, Zarghoon, Sohaibullah, Salini, Richard: HeatShield: a Low-Cost Didactic Device for Control Education Simulating 3D Printer Heater Blocks. V Proceedings of 2019 IEEE Global Engineering Education Conference (educon), str. 374-383, 2019.	Wo S	in é

**M. Kalúz, Ľ. Čírka, R. Valo, M. Fikar: Lab of Things: A Network-Based I/O Services for Laboratory Experimentation. V Preprints of the 20th IFAC World Congress, Toulouse, France, zv. 20, str. 14028–14033, 2017.**

1	Dyrška, Raphael, Horvathova, Michaela, Bakarac, Peter, Moennigmann, Martin, Oravec, Juraj: Heat exchanger control using model predictive control with constraint removal. Applied Thermal Engineering, č. 120366, zv. 227, 2023.	Wo S	SC I
---	--	---------	---------

**A. Vasičkaninová, M. Bakošová, Ľ. Čírka, M. Kalúz, J. Oravec: Robust Controller Design for a Laboratory Heat Exchanger. Applied Thermal Engineering, zv. 128, str. 1297–1309, 2018.**

1	Pekar, Libor, Matusu, Radek, Dostalek, Petr, Song, Mengjie: Further experimental results on modelling and algebraic control of a delayed looped heating-cooling process under uncertainties. Heliyon, č. 8, zv. 9, 2023.	Wo S	SC I
2	Greco, Adriana, Gundabattini, Edison, Solomon, Darius Gnanaraj, Rassiah, Raja Singh, Masselli, Claudia: A Review on Geothermal Renewable Energy Systems for Eco-Friendly Air-Conditioning. Energies, č. 15, zv. 15, 2022.	Wo S	SC I
3	Bartecki, Krzysztof: An Approximate Transfer Function Model for a Double-Pipe Counter-Flow Heat Exchanger. Energies, č. 14, zv. 14, 2021.	Wo S	SC I
4	Jin, Hao-Zhe, Gu, Yong, Ou, Guo-Fu: Corrosion risk analysis of tube-and-shell heat exchangers and design of outlet temperature control system. Petroleum Science, č. 4, zv. 18, str. 1219-1229, 2021.	Wo S	SC I
5	Bartecki, Krzysztof: Rational Transfer Function Model for a Double-Pipe Parallel-Flow Heat Exchanger. Symmetry-basel, č. 8, zv. 12, 2020.	Wo S	SC I
6	Zhu, Jianzhong, Wu, Xiao, Shen, Jiong: Practical disturbance rejection control for boiler-turbine unit with input constraints. Applied Thermal Engineering, č. 114184, zv. 161, 2019.	Wo S	SC I
7	Govind, Achu K. R., Subhasish, Mahapatra: Design of PI/PID Control Algorithm for a Benchmark Heat Exchanger System using Frequency Domain Specifications. V 2022 IEEE International Power and Renewable Energy Conference, Iprecon, 2022.	Wo S	in é

8	Chen, Yilong, de Oliveira, Mauricio C.: An Alternative Algorithm to the D-K Iterations for Robust Control Design. <i>IEEE Control Systems Letters</i> , č. 1, zv. 5, str. 115-120, 2021.	Wo S	in é
9	Sallam, Omar Khaled, Azar, Ahmad Taher, Guaily, Amr, Ammar, Hossam Hassan: Tuning of PID Controller Using Particle Swarm Optimization for Cross Flow Heat Exchanger Based on CFD System Identification. V <i>Proceedings of the International Conference on Advanced Intelligent Systems and Informatics 2019</i> , str. 300-312, 2020.	Wo S	in é
1 0	Sit, M. L., Patsiuk, I, V., Juravliov, A. A., Burciu, I, V., Timchenko, V, D.: Control of Heat Exchanger with Variable Heat Transfer Surface Area. <i>Problemele Energeticii Regionale</i> , č. 1, str. 90-101, 2019.	Wo S	in é
1 1	Wen, Yalan, Wang, Ling, Peng, Weiqing, Menhas, Muhammad Ilyas, Qian, Lin: Application of Intelligent Virtual Reference Feedback Tuning to Temperature Control in a Heat Exchanger. V <i>Intelligent Computing and Internet of Things, Pt II</i> , str. 311-320, 2018.	Wo S	in é
<p><b>M. Kalúz, Ľ. Čírka, M. Fikar: Flexy: An Open-source Device for Control Education. Editor(i): Cardoso, A., V 13th APCA International Conference on Automatic Control and Soft Computing, Nova Gráfica, Univesrity of the Azores, Ponta Delgada, Portugal, str. 37-42, 2018.</b></p>			
1	Oravec, Juraj, Holaza, Juraj, Horvathova, Michaela, Nguyen, Ngoc A., Kvasnica, Michal, Bakosova, Monika: Convex-lifting-based robust control design using the tunable robust invariant sets. <i>European Journal of Control</i> , zv. 49, str. 44-52, 2019.	Wo S	SC I
2	Afonso, Ricardo, Soares, Filomena, de Moura Oliveira, P. B.: Innovative Teaching/Learning Methodologies in Control, Automation and Robotics: a Short Review. V <i>2021 4th International Conference of the Portuguese Society for Engineering Education (cispee)</i> , 2021.	Wo S	in é
3	Horvathova, Michaela, Oravec, Juraj, Bakosova, Monika: Real-Time Convex-lifting-based Robust Control Using Approximated Control Law. V <i>2020 59th IEEE Conference on Decision and Control (CDC)</i> , str. 2160-2165, 2020.	Wo S	in é
4	Takacs, Gergely, Konkoly, Tibor, Gulan, Martin: OptoShield: A Low-Cost Tool for Control and Mechatronics Education. V <i>2019 12th Asian Control Conference (ascc)</i> , str. 1001-1006, 2019.	Wo S	in é
5	Takacs, Gergely, Gulan, Martin, Bavlina, Juraj, Koplinger, Richard, Kovac, Michal, Mikulas, Erik, Zarghoon, Sohaibullah, Salini, Richard: HeatShield: a Low-Cost Didactic Device for Control Education Simulating 3D Printer Heater Blocks. V <i>Proceedings of 2019 IEEE Global Engineering Education Conference (educon)</i> , str. 374-383, 2019.	Wo S	in é

**M. Kalúz, M. Klaučo, Ľ. Čirka, M. Fikar: Flexy2: A Portable Laboratory Device for Control Engineering Education. V 12th IFAC Symposium Advances in Control Education, str. 159–164, 2019.**

1	Sotelo, David, Sotelo, Carlos, Ramirez-Mendoza, Ricardo A., Lopez-Guajardo, Enrique A., Navarro-Duran, David, Nino-Juarez, Elvira, Vargas-Martinez, Adriana: Lab-Tec@Home: A Cost-Effective Kit for Online Control Engineering Education. <i>Electronics</i> , č. 6, zv. 11, 2022.	Wo S	SC I
2	Pajpach, Martin, Haffner, Oto, Kucera, Erik, Drahos, Peter: Low-Cost Education Kit for Teaching Basic Skills for Industry 4.0 Using Deep-Learning in Quality Control Tasks. <i>Electronics</i> , č. 2, zv. 11, 2022.	Wo S	SC I
3	Opris, Ioana, Gogoase Nistoran, Daniela E., Costinas, Sorina, Ionescu, Cristina S.: Rethinking power engineering education for Generation Z. <i>Computer Applications in Engineering Education</i> , č. 1, SI, zv. 29, str. 287-305, 2021.	Wo S	SC I
4	Marin, Loreto, Vargas, Hector, Heradio, Ruben, de la Torre, Luis, Diaz, Jose Manuel, Dormido, Sebastian: Evidence-Based Control Engineering Education: Evaluating the LCSD Simulation Tool. <i>IEEE Access</i> , zv. 8, str. 170183-170194, 2020.	Wo S	SC I
5	Cardoso, Alberto, Oliveira, Paulo Moura, Sa, Joao: Pocket Labs as a STEM Learning Tool and for Engineering Motivation. V <i>Learning in the Age of Digital and Green Transition</i> , Icl2022, Vol 1, str. 413-422, 2023.	Wo S	in é
6	Oliveira, P. B. de Moura, Soares, Filomena, Cardoso, Alberto: Pocket-Sized Portable Labs: Control Engineering Practice Made Easy in Covid-19 Pandemic Times. <i>Ifac Papersonline</i> , č. 17, zv. 55, str. 150-155, 2022.	Wo S	in é

**L. Lundy, D. Fatta-Kassinou, J. Slobodník, P. Karaolia, Ľ. Čirka, N. Kreuzinger, S. Castiglioni, L. Bijlsma, V. Dulio, G. Deviller, F. Y. Lai, N. Alygizakis, M. Barneo, J. A. Baz-Lomba, F. Béen, M. Cíhová, K. Conde-Pérez, A. Covaci, E. Donner, A. Ficek, F. Hassard, A. Hedström, F. Hernandez, V. Janská, K. Jellison, J. Hofman, K. Hill, P. Hong, B. Kasprzyk-Hordern, S. Kolarević, J. Krahulec, D. Lambropoulou, R. de Llanos, T. Mackuľak, L. Martinez-García, F. Martínez, G. Medema, A. Micsinai, M. Myrmel, M. Nasser, H. Niederstätter, L. Nozal, H. Oberacher, V. Očenášková, L. Ogorzaly, D. Papadopoulos, B. Peinado, T. Pitkänen, M. Poza, S. Rumbo-Feal, M. B. Sánchez, A. J. Székely, A. Soltysova, N. S. Thomaidis, J. Vallejo, A. van Nuijs, V. Ware, M. Viklander: Making Waves: Collaboration in the time of SARS-CoV-2 - rapid development of an international co-operation and wastewater surveillance database to support public health decision-making. *Water Research*, č. 1, zv. 199, str. 1–7, 2021.**

1	La Rosa, G., Brandtner, D., Ferraro, G. Bonanno, Veneri, C., Mancini, P., Iaconelli, M., Lucentini, L., Del Giudice, C., Orlandi, L., SARI network, Suffredini, E.: Wastewater surveillance of SARS-CoV-2 variants in October–November 2022 in Italy: detection of XBB.1, BA.2.75 and rapid spread of the BQ.1 lineage. <i>Science of the Total Environment</i> , č. 162339, zv. 873, 2023.	Wo S	SC I
---	---	---------	---------

2	Dunn, Fiona B., Silverman, Andrea Idette: Sunlight photolysis of SARS-CoV-2 N1 gene target in the water environment: considerations for the environmental surveillance of wastewater-impacted surface waters. <i>Journal of Water and Health</i> , 2023.	Wo S	SC I
3	Dai, Han, Tang, Hao, Sun, Wen, Deng, Shihai, Han, Jie: It is time to acknowledge coronavirus transmission via frozen and chilled foods: Undeniable evidence from China and lessons for the world. <i>Science of the Total Environment</i> , č. 161388, zv. 868, 2023.	Wo S	SC I
4	Duan, Lei, Zhang, Yizhe, Wang, Bin, Yu, Gang, Gao, Jianfa, Cagnetta, Giovanni, Huang, Cunrui, Zhai, Nannan: Wastewater surveillance for 168 pharmaceuticals and metabolites in a WWTP: Occurrence, temporal variations and feasibility of metabolic biomarkers for intake estimation. <i>Water Research</i> , č. 118321, zv. 216, 2022.	Wo S	SC I
5	Twigg, Charlotte, Wenk, Jannis: Review and Meta-Analysis: SARS-CoV-2 and Enveloped Virus Detection in Feces and Wastewater. <i>ChemBioeng Reviews</i> , č. 2, zv. 9, str. 129-145, 2022.	Wo S	SC I
6	Li, Zhi-Hua, Wang, Jia-Xing, Lu, Meng, Zhang, Tianyu, Wang, Xiaochang C., Li, Wen-Wei, Yu, Han-Qing: Hospital sewage treatment facilities witness the fighting against the COVID-19 pandemic. <i>Journal of Environmental Management</i> , č. 114728, zv. 309, 2022.	Wo S	SC I
7	Kim, Sooyeol, Kennedy, Lauren C., Wolfe, Marlene K., Criddle, Craig S., Duong, Dorothea H., Topol, Aaron, White, Bradley J., Kantor, Rose S., Nelson, Kara L., Steele, Joshua A., Langlois, Kylie, Griffith, John F., Zimmer-Faust, Amity G., McLellan, Sandra L., Schussman, Melissa K., Ammerman, Michelle, Wigginton, Krista R., Bakker, Kevin M., Boehm, Alexandria B.: SARS-CoV-2 RNA is enriched by orders of magnitude in primary settled solids relative to liquid wastewater at publicly owned treatment works. <i>Environmental Science-water Research &amp; Technology</i> , č. 4, zv. 8, str. 757-770, 2022.	Wo S	SC I
8	Alhama, Jose, Maestre, Juan P., Angeles Martin, M., Michan, Carmen: Monitoring COVID-19 through SARS-CoV-2 quantification in wastewater: progress, challenges and prospects. <i>Microbial Biotechnology</i> , č. 6, zv. 15, str. 1719-1728, 2022.	Wo S	SC I
9	Sobsey, Mark D.: Absence of virological and epidemiological evidence that SARS-CoV-2 poses COVID-19 risks from environmental fecal waste, wastewater and water exposures. <i>Journal of Water and Health</i> , č. 1, zv. 20, str. 126-138, 2022.	Wo S	SC I
10	Bonanno Ferraro, G., Veneri, C., Mancini, P., Iaconelli, M., Suffredini, E., Bonadonna, L., Lucentini, L., Bowo-Ngandji, A., Kengne-Nde, C., Mbaga, D. S., Mahamat, G., Tazokong, H. R., Ebogo-Belobo, J. T., Njouom, R., Kenmoe, S., La Rosa, G.: A State-of-the-Art Scoping Review on SARS-CoV-2 in Sewage Focusing on the Potential of Wastewater Surveillance for the Monitoring of the COVID-19 Pandemic. <i>Food and Environmental Virology</i> , č. 4, SI, zv. 14, str. 315-354, 2022.	Wo S	SC I

1	Crank, K., Chen, W., Bivins, A., Lowry, S., Bibby, K.: Contribution of SARS-CoV-2 RNA shedding routes to RNA loads in wastewater. <i>Science of the Total Environment</i> , č. 2, zv. 806, 2022.	Wo S	SC I
1 2	Calderon-Franco, David, Orschler, Laura, Lackner, Susanne, Agrawal, Shelesh, Weissbrodt, David G.: Monitoring SARS-CoV-2 in sewage: Toward sentinels with analytical accuracy. <i>Science of the Total Environment</i> , č. 150244, zv. 804, 2022.	Wo S	SC I
1 3	Wang, Qiuyun, Liu, Lu: On the Critical Role of Human Feces and Public Toilets in the Transmission of COVID-19: Evidence from China. <i>Sustainable Cities and Society</i> , č. 103350, zv. 75, 2021.	Wo S	SC I
1 4	La Rosa, Giuseppina, Brandtner, David, Mancini, Pamela, Veneri, Carolina, Ferraro, Giusy Bonanno, Bonadonna, Lucia, Lucentini, Luca, Suffredini, Elisabetta: Key SARS-CoV-2 Mutations of Alpha, Gamma, and Eta Variants Detected in Urban Wastewaters in Italy by Long-Read Amplicon Sequencing Based on Nanopore Technology. <i>Water</i> , č. 18, zv. 13, 2021.	Wo S	SC I
1 5	Schmitz, Bradley W., Innes, Gabriel K., Prasek, Sarah M., Betancourt, Walter Q., Stark, Erika R., Foster, Aidan R., Abraham, Alison G., Gerba, Charles P., Pepper, Ian L.: Enumerating asymptomatic COVID-19 cases and estimating SARS-CoV-2 fecal shedding rates via wastewater-based epidemiology. <i>Science of the Total Environment</i> , č. 149794, zv. 801, 2021.	Wo S	SC I
1 6	Wilson, Nick, Mansoor, Osman D., Boyd, Matthew J., Kvalsvig, Amanda, Baker, Michael G.: We should not dismiss the possibility of eradicating COVID-19: comparisons with smallpox and polio. <i>Bmj Global Health</i> , č. 8, zv. 6, 2021.	Wo S	SC I
1 7	Schoen, Mary E., Wolfe, Marlene K., Li, Linlin, Duong, Dorothea, White, Bradley J., Hughes, Bridgette, Boehm, Alexandria B.: SARS-CoV-2 RNA Wastewater Settled Solids Surveillance Frequency and Impact on Predicted COVID-19 Incidence Using a Distributed Lag Model. <i>Acs Es&amp;t Water</i> , č. 11, zv. 2, str. 2167-2174, 2022.	Wo S	in é
1 8	Chen, Wensi, Mei, Eric, Xie, Xing: Virus Stabilization with Enhanced Porous Superabsorbent Polymer (PSAP) Beads for Diagnostics and Surveillance. <i>Acs Es&amp;t Water</i> , č. 12, zv. 2, str. 2378-2387, 2022.	Wo S	in é
1 9	Boeras, Ioana, Curtean-Banaduc, Angela, Banaduc, Doru, Cioca, Gabriela: Anthropogenic Sewage Water Circuit as Vector for SARS-CoV-2 Viral ARN Transport and Public Health Assessment, Monitoring and Forecasting-Sibiu Metropolitan Area (Transylvania/Romania) Study Case. <i>International Journal of Environmental Research and Public Health</i> , č. 18, zv. 19, 2022.	Wo S	in é

20	Mancusi, Andrea, Capuano, Federico, Girardi, Santa, Di Maro, Orlandina, Suffredini, Elisabetta, Di Concilio, Denise, Vassallo, Lucia, Cuomo, Maria Concetta, Tafuro, Maria, Signorelli, Daniel, Pierri, Andrea, Pizzolante, Antonio, Cerino, Pellegrino, La Rosa, Giuseppina, Proroga, Yolande Therese Rose, Pierri, Biancamaria: Detection of SARS-CoV-2 RNA in Bivalve Mollusks by Droplet Digital RT-PCR (dd RT-PCR). <i>International Journal of Environmental Research and Public Health</i> , č. 2, zv. 19, 2022.	Wo S	in é
----	---	---------	---------

**F. Freeling, N. Alygizakis, P. C. von der Ohe, J. Slobodník, P. Oswald, R. Aalizadeh, Ľ. Čírka, N. S. Thomaidis, M. Scheurer: Occurrence and potential environmental risk of surfactants and their transformation products discharged by wastewater treatment plants. *Science of The Total Environment*, zv. 681, str. 475–487, 2019.**

1	Esposito, Rodolfo, Speciale, Immacolata, De Castro, Cristina, D'Errico, Gerardino, Russo Krauss, Irene: Rhamnolipid Self-Aggregation in Aqueous Media: A Long Journey toward the Definition of Structure-Property Relationships. <i>International Journal of Molecular Sciences</i> , č. 6, zv. 24, 2023.	Wo S	SC I
---	---	---------	---------

2	Pauelsen, Frances, Huppertsberg, Sven, Knepper, Thomas P., Zahn, Daniel: Narrowing the analytical gap for water-soluble polymers: A novel trace-analytical method and first quantitative occurrence data for polyethylene oxide in surface and wastewater. <i>Science of the Total Environment</i> , č. 163563, zv. 882, 2023.	Wo S	SC I
---	--	---------	---------

3	Luo, Ying, Jin, Xiaowei, Xie, Huiyu, Ji, Xiaoyan, Liu, Yang, Guo, Changsheng, Giesy, John P., Xu, Jian: Linear alkylbenzene sulfonate threats to surface waters at the national scale: A neglected traditional pollutant. <i>Journal of Environmental Management</i> , č. 118344, zv. 342, 2023.	Wo S	SC I
---	--	---------	---------

4	Zhou, Yun, Ji, Bohua, Jiang, Ming, Jin, Yiyang, Chang, Junjun: Performance and microbial community features of tidal-flow biochar-amended constructed wetlands treating sodium dodecyl sulfate (SDS)-containing greywater. <i>Journal of Cleaner Production</i> , č. 136545, zv. 396, 2023.	Wo S	SC I
---	---	---------	---------

5	Groh, Ksenia J., Arp, Hans Peter H., MacLeod, Matthew, Wang, Zhanyun: Assessing and managing environmental hazards of polymers: historical development, science advances and policy options. <i>Environmental Science-processes &amp; Impacts</i> , č. 1, zv. 25, str. 10-25, 2023.	Wo S	SC I
---	---	---------	---------

6	Qiang, Shuping, Mohamed, Fahim, Mackenzie, Lorraine, Roberts, Michael S.: Rapid determination of polyethoxylated tallow amine surfactants in human plasma by LC-MSMS. <i>Talanta</i> , č. 124115, zv. 254, 2023.	Wo S	SC I
---	--	---------	---------

7	Okoye, Charles Obinwanne, Nyaruaba, Raphael, Ita, Richard Ekeng, Okon, Samuel Ukpong, Addey, Charles Izuma, Ebido, Chike C., Opabunmi, Adebayo Oluwole, Okeke, Emmanuel Sunday, Chukwudozie, Kingsley Ikechukwu: Antibiotic resistance in the aquatic environment: Analytical techniques and interactive impact of emerging contaminants. <i>Environmental Toxicology and Pharmacology</i> , č. 103995, zv. 96, 2022.	Wo S	SC I
---	---	---------	---------

8	Holmes, Christopher M., Maltby, Lorraine, Sweeney, Paul, Thorbek, Pernille, Otte, Jens C., Marshall, Stuart: Heterogeneity in biological assemblages and exposure in chemical risk assessment: Exploring capabilities and challenges in methodology with two landscape-scale case studies. <i>Ecotoxicology and Environmental Safety</i> , č. 114143, zv. 246, 2022.	Wo S	SC I
9	Arora, U., Khuntia, H. K., Chanakya, H. N., Kapley, A.: Surfactants: combating the fate, impact, and aftermath of their release in the environment. <i>International Journal of Environmental Science and Technology</i> , 2022.	Wo S	SC I
1 0	Sharghi, Elham Abdollahzadeh, Davarpanah, Leila: Optimization of chemical coagulation-flocculation process of detergent manufacturing plant wastewater treatment for full scale applications: a case study. <i>Desalination and Water Treatment</i> , zv. 262, str. 38-53, 2022.	Wo S	SC I
1 1	Montes, Rosa, Mendez, Sandra, Carro, Nieves, Cobas, Julio, Alves, Nelson, Neuparth, Teresa, Santos, Miguel Machado, Quintana, Jose Benito, Rodil, Rosario: Screening of Contaminants of Emerging Concern in Surface Water and Wastewater Effluents, Assisted by the Persistency-Mobility-Toxicity Criteria. <i>Molecules</i> , č. 12, zv. 27, 2022.	Wo S	SC I
1 2	Paszkiwicz, Monika, Godlewska, Klaudia, Lis, Hanna, Caban, Magda, Bia, Anna, Stepnowski, Piotr: Advances in suspect screening and non-target analysis of polar emerging contaminants in the environmental monitoring. <i>Trac-trends in Analytical Chemistry</i> , č. 116671, zv. 154, 2022.	Wo S	SC I
1 3	Liang, Weigang, Wang, Xiaolei, Wu, Aiming, Zhang, Xiao, Niu, Lin, Wang, Junyu, Wang, Xia, Zhao, Xiaoli: Application of combined QSAR-ICE models in calculation of hazardous concentrations for linear alkylbenzene sulfonate. <i>Chemosphere</i> , č. 134400, zv. 300, 2022.	Wo S	SC I
1 4	Cross, Richard, Matzke, Marianne, Spurgeon, Dave, Diez, Maria, Andres, Veronica Gonzalez, Galvez, Elena Cerro, Esponda, Maria Fernanda, Belinga-Desaunay-Nault, Marie-France, Lynch, Iseult, Jeliaskova, Nina, Svendsen, Claus: Assessing the similarity of nanoforms based on the biodegradation of organic surface treatment chemicals. <i>Nanoimpact</i> , č. 100395, zv. 26, 2022.	Wo S	SC I
1 5	Wiest, Laure, Giroud, Barbara, Fieu, Maeva, Assoumani, Azziz, Lestremau, Francois, Vulliet, Emmanuelle: Ultrasound-assisted sample preparation for simultaneous extraction of anionic, cationic and non-ionic surfactants in sediment. <i>Talanta</i> , č. 123220, zv. 241, 2022.	Wo S	SC I
1 6	Schinkel, Lena, Lara-Martin, Pablo A., Giger, Walter, Hollender, Juliane, Berg, Michael: Synthetic surfactants in Swiss sewage sludges: Analytical challenges, concentrations and per capita loads. <i>Science of the Total Environment</i> , č. 151361, zv. 808, 2022.	Wo S	SC I
1 7	Reberski, Jasmina Lukac, Terzic, Josip, Maurice, Louise D., Lapworth, Dan J.: Emerging organic contaminants in karst groundwater: A global level assessment. <i>Journal of Hydrology</i> , č. 127242, zv. 604, 2022.	Wo S	SC I

1 8	Abidnejad, Roozbeh, Beaumont, Marco, Tardy, Blaise L., Mattos, Bruno D., Rojas, Orlando J.: Superstable Wet Foams and Lightweight Solid Composites from Nanocellulose and Hydrophobic Particles. <i>Acs Nano</i> , č. 12, zv. 15, str. 19712-19721, 2021.	Wo S	SC I
1 9	Hajirasouliha, Farzaneh, Yang, Hua, Wu, Qiang, Zabiegaj, Dominika: Can optical fiber compete with profile analysis tensiometry in critical micelle concentration measurement?. <i>Zeitschrift Fur Physikalische Chemie- international Journal of Research in Physical Chemistry &amp; Chemical Physics</i> , č. 12, zv. 235, str. 1767-1775, 2021.	Wo S	SC I
2 0	Sasi, Subha, Rayaroth, Manoj P., Aravindakumar, Charuvila T., Aravind, Usha K.: Alcohol ethoxysulfates (AES) in environmental matrices. <i>Environmental Science and Pollution Research</i> , č. 26, zv. 28, str. 34167-34186, 2021.	Wo S	SC I
2 1	Wiest, Laure, Giroud, Barbara, Assoumani, Azziz, Lestremau, Francois, Vulliet, Emmanuelle: A multi-family offline SPE LC-MS/MS analytical method for anionic, cationic and non-ionic surfactants quantification in surface water. <i>Talanta</i> , č. 122441, zv. 232, 2021.	Wo S	SC I
2 2	Gosset, Antoine, Wiest, Laure, Fildier, Aurelie, Libert, Christine, Giroud, Barbara, Hammada, Myriam, Herve, Matthieu, Sibeud, Elisabeth, Vulliet, Emmanuelle, Polome, Philippe, Perrodin, Yves: Ecotoxicological risk assessment of contaminants of emerging concern identified by „suspect screening“ from urban wastewater treatment plant effluents at a territorial scale. <i>Science of the Total Environment</i> , č. 146275, zv. 778, 2021.	Wo S	SC I
2 3	Mairinger, Teresa, Loos, Martin, Hollender, Juliane: Characterization of water- soluble synthetic polymeric substances in wastewater using LC-HRMS/MS. <i>Water Research</i> , č. 116745, zv. 190, 2021.	Wo S	SC I
2 4	Siddique, Azhar, Shahzad, Asif, Lawler, Jenny, Mahmoud, Khaled A., Lee, Dae Sung, Ali, Nisar, Bilal, Muhammad, Rasool, Kashif: Unprecedented environmental and energy impacts and challenges of COVID-19 pandemic. <i>Environmental Research</i> , č. 110443, zv. 193, 2021.	Wo S	SC I
2 5	Tisler, Selina, Liang, Chuanzhou, Carvalho, Pedro N., Bester, Kai: Identification of more than 100 new compounds in the wastewater: Fate of polyethylene/polypropylene oxide copolymers and their metabolites in the aquatic environment. <i>Science of the Total Environment</i> , č. 143228, zv. 761, 2021.	Wo S	SC I
2 6	Spaniol, Oliver, Bergheim, Marlies, Dawick, James, Koetter, Denise, McDonough, Kathleen, Schowanek, Diederik, Stanton, Kathleen, Wheeler, James, Willing, Andreas: Comparing the European Union System for the Evaluation of Substances (EUSES) environmental exposure calculations with monitoring data for alkyl sulphate surfactants. <i>Environmental Sciences Europe</i> , č. 1, zv. 33, 2021.	Wo S	SC I



2 7	Langone, M., Petta, L., Cellamare, C. M., Ferraris, M., Guzzinati, R., Mattioli, D., Sabia, G.: SARS-CoV-2 in water services: Presence and impacts. Environmental Pollution, č. A, zv. 268, 2021.	Wo S	SC I
2 8	Shen, Jian, Li, Xueying, Wang, Xinze, Feng, Jimeng, He, Xiaojuan, Jiang, Shiyi, Zhou, Ailing, Ouyang, Xiaoyan: Study on the Release Potential of BPA and Steroid Estrogens in the Sediments of Erhai Lake, a Typical Plateau Lake of China. Bulletin of Environmental Contamination and Toxicology, č. 6, zv. 105, str. 882-891, 2020.	Wo S	SC I
2 9	Beckers, Liza-Marie, Brack, Werner, Dann, Janek Paul, Krauss, Martin, Mueller, Erik, Schulze, Tobias: Unraveling longitudinal pollution patterns of organic micropollutants in a river by non-target screening and cluster analysis. Science of the Total Environment, č. 138388, zv. 727, 2020.	Wo S	SC I
3 0	Van Stempvoort, Dale R., Brown, Susan J., Smyth, Shirley Anne, Watershed Hydrology Ecology Res: Detections of alkyl-phenoxy-benzenesulfonates in municipal wastewater. Chemosphere, č. 126386, zv. 251, 2020.	Wo S	SC I
3 1	Dyer, Scott D., McAvoy, Drew C., Belanger, Scott E., Heinze, John, Stackhouse, Ricky, Serson, Hans, Versteeg, Donald J.: Correcting deficiencies to risk assessment of surfactants by Freeling et al. (2019). Science of the Total Environment, č. 135847, zv. 721, 2020.	Wo S	SC I
3 2	Mudge, Stephen M., Tropsch, Juergen, Beaudouin, Thierry, Sene, Christophe, Hormazabal, Horacio: Determining the Bio-Based Carbon Content of Surfactants. Journal of Surfactants and Detergents, č. 4, zv. 23, str. 771-780, 2020.	Wo S	SC I
3 3	Collivignarelli, Maria Cristina, Abba, Alessandro, Miino, Marco Carnevale, Arab, Hamed, Bestetti, Massimiliano, Franz, Silvia: Decolorization and biodegradability of a real pharmaceutical wastewater treated by H2O2-assisted photoelectrocatalysis on TiO2 meshes. Journal of Hazardous Materials, č. 121668, zv. 387, 2020.	Wo S	SC I
3 4	Guo, Qiaorong, Wei, Dongbin, Zhao, Huimin, Du, Yuguo: Predicted no-effect concentrations determination and ecological risk assessment for benzophenone-type UV filters in aquatic environment. Environmental Pollution, č. 113460, zv. 256, 2020.	Wo S	SC I
3 5	Schymanski, Emma L., Baker, Nancy C., Williams, Antony J., Singh, Randolph R., Trezzi, Jean-Pierre, Wilmes, Paul, Kolber, Pierre L., Kruger, Rejko, Paczia, Nicole, Linster, Carole L., Balling, Rudi: Connecting environmental exposure and neurodegeneration using cheminformatics and high resolution mass spectrometry: potential and challenges. Environmental Science-processes & Impacts, č. 9, zv. 21, str. 1426-1445, 2019.	Wo S	SC I
3 6	Kumar, Ravinder, Vuppaladadiyam, Arun K., Antunes, Elsa, Whelan, Anna, Fearon, Rob, Sheehan, Madoc, Reeves, Louise: Emerging contaminants in biosolids: Presence, fate and analytical techniques. Emerging Contaminants, zv. 8, str. 162-194, 2022.	Wo S	in é

3 7	Shen, Jian, Li, Xueying, Wang, Xinze, Feng, Jimeng, He, Xiaojuan, Jiang, Shiyi, Yang, Tong, Kong, Hainan: OCCURRENCE CHARACTERISTICS OF BPA AND STEROID ESTROGENS IN WATER AND SEDIMENT AND THEIR RELATIONSHIP WITH WATER QUALITY OF ERHAI LAKE, A TYPICAL PLATEAU LAKE IN CHINA. Fresenius Environmental Bulletin, č. 1, zv. 30, str. 654-671, 2021.	Wo S	in é
--------	---	---------	---------

3 8	Li, Huiru, Wu, Shaohua, Yang, Chunping: Performance and Biomass Characteristics of SBRs Treating High-Salinity Wastewater at Presence of Anionic Surfactants. International Journal of Environmental Research and Public Health, č. 8, zv. 17, 2020.	Wo S	in é
--------	--	---------	---------

**H. M. Taha, R. Aalizadeh, N. Alygizakis, J. Antignac, H. P. H. Arp, R. Bade, N. Baker, L. Belova, L. Bijlsma, E. E. Bolton, W. Brack, A. Celma, W. Chen, T. Cheng, P. Chirsir, Ľ. Čirka, L. A. D'Agostino, Y. D. Feunang, V. Dulio, S. Fischer, P. Gago-Ferrero, A. Galani, B. Geueke, N. Głowacka, J. Glüge, K. Groh, S. Grosse, P. Haglund, P. J. Hakkinen, S. E. Hale, F. Hernandez, E. M. Janssen, T. Jonkers, K. Kiefer, M. Kirchner, J. Koschorreck, M. Krauss, J. Krier, M. H. Lamoree, M. Letzel, T. Letzel, Q. Li, J. Little, Y. Liu, D. M. Lunderberg, J. W. Martin, A. D. McEachran, J. A. McLean, C. Meier, J. Meijer, F. Menger, C. Merino, J. Muncke, M. Muschket, M. Neumann, V. Neveu, K. Ng, H. Oberacher, J. O'Brien, P. Oswald, M. Oswaldova, J. A. Picache, C. Postigo, N. Ramirez, T. Reemtsma, J. Renaud, P. Rostkowski, H. Rüdél, R. M. Salek, S. Samanipour, M. Scheringer, I. Schliebner, W. Schulz, T. Schulze, M. Sengl, B. A. Shoemaker, K. Sims, H. Singer, R. R. Singh, M. Sumarah, P. A. Thiessen, K. V. Thomas, S. Torres, X. Trier, A. P. v. Wezel, R. C. H. Vermeulen, J. J. Vlaanderen, P. C. von der Ohe, Z. Wang, A. J. Williams, E. L. Willighagen, D. S. Wishart, J. Zhang, N. S. Thomaidis, J. Hollender, J. Slobodník, E. L. Schymanski: The NORMAN Suspect List Exchange (NORMAN-SLE): facilitating European and worldwide collaboration on suspect screening in high resolution mass spectrometry. *Environmental Sciences Europe*, zv. 34, 2022.**

1	Zweigle, Jonathan, Bugsel, Boris, Zwiener, Christian: Efficient PFAS prioritization in non-target HRMS data: systematic evaluation of the novel MD/C-m/C approach. Analytical and Bioanalytical Chemistry, 2023.	Wo S	SC I
---	--	---------	---------

2	Bowen, Tara J. J., Southam, Andrew D. D., Hall, Andrew R. R., Weber, Ralf J. M., Lloyd, Gavin R. R., Macdonald, Ruth, Wilson, Amanda, Pointon, Amy, Viant, Mark R. R.: Simultaneously discovering the fate and biochemical effects of pharmaceuticals through untargeted metabolomics. Nature Communications, č. 1, zv. 14, 2023.	Wo S	SC I
---	---	---------	---------

V. Dulio, J. Koschorreck, B. van Bavel, P. van den Brink, J. Hollender, J. Munthe, M. Schlabach, R. Aalizadeh, M. Agerstrand, L. Ahrens, I. Allan, N. Alygizakis, D. Barcelo, P. Bohlin-Nizzetto, S. Boutroup, W. Brack, A. Bressy, J. H. Christensen, Ľ. Čírka, A. Covaci, A. Derksen, G. Deviller, M. M. L. Dingemans, M. Engwall, D. Fatta-Kassinos, P. Gago-Ferrero, F. Hernandez, D. Herzke, K. Hilscherova, H. Hollert, M. Junghans, B. Kasprzyk-Hordern, S. Keiter, S. A. E. Kools, A. Krueve, D. Lambropoulou, M. H. Lamoree, P. Leonards, B. Lopez, M. L. de Alda, L. Lundy, J. Makovinska, I. Marigomez, J. W. Martin, B. McHugh, C. Miege, S. O'Toole, N. Perkola, S. Polesello, L. Posthuma, S. Rodriguez-Mozaz, I. Roessink, P. Rostkowski, H. Ruedel, S. Samanipour, T. Schulze, E. L. Schymanski, M. Sengl, P. Tarabek, D. Ten Hulscher, N. S. Thomaidis, A. Togola, S. Valsecchi, S. van Leeuwen, P. C. von der Ohe, K. Vorkamp, B. Vrana, J. Slobodník: The NORMAN Association and the European Partnership for Chemicals Risk Assessment (PARC): let's cooperate!. *Environmental Sciences Europe*, č. 1, zv. 32, 2020.

1	Strynar, Mark, McCord, James, Newton, Seth, Washington, John, Barzen-Hanson, Krista, Trier, Xenia, Liu, Yanna, Dimzon, Ian Ken, Bugsel, Boris, Zwiener, Christian, Munoz, Gabriel: Practical application guide for the discovery of novel PFAS in environmental samples using high resolution mass spectrometry. <i>Journal of Exposure Science and Environmental Epidemiology</i> , č. 4, SI, zv. 33, str. 575-588, 2023.	Wo S	SC I
2	James, C. Andrew, Sofield, Ruth, Faber, Maya, Wark, Dave, Simmons, Amy, Harding, Louisa, O'Neill, Sandra: The screening and prioritization of contaminants of emerging concern in the marine environment based on multiple biological response measures. <i>Science of the Total Environment</i> , č. 163712, zv. 886, 2023.	Wo S	SC I
3	Nelis, Joost L. D., Schacht, Veronika J., Dawson, Amanda L., Bose, Utpal, Tsagkaris, Aristeidis S., Dvorakova, Darina, Beale, David J., Can, Ali, Elliott, Christopher T., V. Thomas, Kevin, Broadbent, James A.: The measurement of food safety and security risks associated with micro- and nanoplastic pollution. <i>Trac-trends in Analytical Chemistry</i> , č. 116993, zv. 161, 2023.	Wo S	SC I
4	Adenuga, M. David: Correspondence on Suspect and Nontarget Screening for Contaminants of Emerging Concern in an Urban Estuary. <i>Environmental Science &amp; Technology</i> , č. 22, zv. 56, str. 16528-16530, 2022.	Wo S	SC I
5	Adenuga, M. David: Correspondence on „Suspect and Nontarget Screening for Contaminants of Emerging Concern in an Urban Estuary“. <i>Environmental Science &amp; Technology</i> , 2022.	Wo S	SC I
6	Boldrin Zanoni, Maria Valnice, Irikura, Kallyni, Lima Perini, Joao Angelo, Bessegato, Guilherme G., Sandoval, Miguel A., Salazar, Ricardo: Recent achievements in photoelectrocatalytic degradation of pesticides. <i>Current Opinion in Electrochemistry</i> , č. 101020, zv. 35, 2022.	Wo S	SC I

- |   |  |         |         |
|---|--|---------|---------|
| 7 | Olker, Jennifer H., Elonen, Colleen M., Pilli, Anne, Anderson, Arne, Kinziger, Brian, Erickson, Stephen, Skopinski, Michael, Pomplun, Anita, LaLone, Carlie A., Russom, Christine L., Hoff, Dale: The ECOTOXicology Knowledgebase: A Curated Database of Ecologically Relevant Toxicity Tests to Support Environmental Research and Risk Assessment. <i>Environmental Toxicology and Chemistry</i> , č. 6, zv. 41, str. 1520-1539, 2022. | Wo<br>S | SC<br>I |
| 8 | Lagunas-Rangel, Francisco Alejandro, Linnea-Niemi, Jenni Viivi, Kudlak, Blazej, Williams, Michael J., Jonsson, Jorgen, Schioth, Helgi B.: Role of the Synergistic Interactions of Environmental Pollutants in the Development of Cancer. <i>Geohealth</i> , č. 4, zv. 6, 2022.   | Wo<br>S | SC<br>I |
| 9 | Szpilko, Danuta, Ejdys, Joanna: EUROPEAN GREEN DEAL - RESEARCH DIRECTIONS. A SYSTEMATIC LITERATURE REVIEW. <i>Ekonomia I Srodowisko-economics and Environment</i> , č. 2, zv. 81, str. 8-38, 2022.   | Wo<br>S | in<br>é |

**A. Mészáros, Ľ. Čírka, Ľ. Šperka: Intelligent Control of a pH Process. *Chemical Papers*, č. 2, zv. 63, str. 180–187, 2009.**

- |   |  |     |     |
|---|--|-----|-----|
| 1 | Bistak, P., Zakova, K.: Rapid Design of Simple Remote Laboratory Using Matlab. V 2013 11th IEEE International Conference on Emerging Elearning Technologies and Applications (iceta 2013), str. 41-45, 2013. | WoS | iné |
|---|--|-----|-----|

**J. Oravec, M. Kalúz, Ľ. Čírka, M. Bakošová, M. Fikar: WebPIDDESIGN for Robust PID Controller Design. Editor(i): M. Fikar and M. Kvasnica, V *Proceedings of the 20th International Conference on Process Control, Slovak Chemical Library, Štrbské Pleso, Slovakia*, str. 393–399, 2015.**

- |   |   |     |         |
|---|---|-----|---------|
| 1 | Amini, Fatemeh, Khaloozadeh, Hamid: Robust stabilization of multilinear interval plants by Takagi-Sugeno fuzzy controllers. <i>Applied Mathematical Modelling</i> , zv. 51, str. 329-340, 2017. | WoS | SC<br>I |
|---|---|-----|---------|

.....

.....

.....

prof. Ing. Miroslav Fikar, DrSc.

podpis uchádzača

riaditeľ

Ústav informatizácie, automatizácie a matematiky