# Články publikované na FAI v impaktovaných časopisech v letech 2010-2019 (kvartily Q1, Q2)

|  |  |
| --- | --- |
| **Citace** | **Kvartily** |
| **Davendra**, **Donald**(40); **Zelinka**, **Ivan**(40); **Šenkeřík**, **Roman**(20). Chaos driven evolutionary algorithms for the task of PID control. *Computers & Mathematics with Applications*, 2010, roč. 60, č. 4, s. 1088-1104. ISSN 0898-1221. | **Q1** |
| **Šenkeřík**, **Roman**(75); **Zelinka**, **Ivan**(5); **Davendra**, **Donald**(10); **Oplatková**, **Zuzana**(10). Utilization of SOMA and Differential Evolution for Robust Stabilization of Chaotic Logistic Equation. *Computers & Mathematics with Applications*, 2010, roč. 60, č. 4, s. 1026-1037. ISSN 0898-1221. | **Q1** |
| **Došlý**, **Ondřej**(50); **Řezníčková**, **Jana**(50). A remark on an oscillation constant in the half-linear oscillation theory. *Applied Mathematics Letters*, 2010, roč. 23, č. 9, s. 971-974. ISSN 0893-9659. | **Q1** |
| **Kolomazník**, **Karel**(90); **Fürst**, **Tomáš**(5); **Bařinová**, **Michaela**(5). Non-linear diffusion model for optimization of leather manufacturing: Lime extraction from calcimine. *Chemical Engineering Science*, 2010, roč. 65, č. 2, s. 780-785. ISSN 0009-2509. | **Q1** |
| [**Kolomazník**, **Karel**(90); **Fürst**, **Tomáš**(5); **Bařinová**, **Michaela**(5). Mathematical Simulation of Calcimine Deliming in the Production of Gelatin. *Aiche Journal*, 2010, roč. 56, č. 7, s. 1716-1725. ISSN 0001-1541. | **Q1** |
| **Svoboda**, **Petr**(55); **Theravalappil**, **Rajesh**(10); **Svobodová**, **Dagmar**(10); **Mokrejš**, **Pavel**(5); **Kolomazník**, **Karel**(5); **Mori**, **Keisuke**(5); **Ougizawa**, **Toshiaki**(5); **Inoue**, **Takashi**(5). Elastic properties of polypropylene/ethylene-octene copolymer blends. *Polymer Testing*, 2010, roč. 29, č. 6, s. 742-748. ISSN 0142-9418. | **Q1, Q2** |
| **Dlapa**, **Marek**(80); **Prokop**, **Roman**(20). Algebraic approach to controller design using structured singular value. *Control Engineering Practice*, 2010, roč. 18, č. 4, s. 358-382. ISSN 0967-0661. | **Q2** |
| **Klimeš**, **Jiří**(100). Formal concept analysis applied to the prediction of additives for galvanizing process. *Metalurgija*, 2010, roč. 49, č. 2, s. 95-98. ISSN 0543-5846. | **Q2** |
| **Došlý**, **Ondřej**(50); **Řezníčková**, **Jana**(50). Nonprincipal solutions in oscillation criteria for half-linear differential equations. *Studia Sci. Math. Hungar*, 2010, roč. 47, č. 1, s. 127-137. ISSN 0081-6906. | **Q2** |
| **Schauer**, **František**(30); **Schauer**, **Petr**(20); **Kuřitka**, **Ivo**(40); **Bao**, **Hua**(10). Conjugated Silicon Based Polymer Resists for Nanotechnologies: EB and UV Meditated Degradation Processes in Polysilanes. *Materials Transactions*, 2010, roč. 51, č. 2, s. 197-201. ISSN 1345-9678. | **Q4** |
| **Novák**, **Jakub**(50); **Chalupa**, **Petr**(30); **Bobál**, **Vladimír**(20). Automatic cost-optimal power balance control. *IEEE Transactions on Power Systems*, 2011, roč. 26, č. 4, s. 2450-2459. ISSN 0885-8950.  | **Q1** |
| **Martinek**, **Pavel**. Completely lattice L-ordered sets with and without L-equality. *Fuzzy Sets and Systems*, 2011, roč. 166, č. 1, s. 44-55. ISSN 0165-0114. | **Q1** |
| **Matušů**, **Radek**(90); **Prokop**, **Roman**(10). Single-parameter tuning of PI controllers: Theory and application. *Journal of the Franklin Institute*, 2011, roč. 348, č. 8, s. 2059-2071. ISSN 0016-0032. | **Q1** |
| **Poongavalappil**, **Sameepa**(5); **Svoboda**, **Petr**(65); **Theravalappil**, **Rajesh**(5); **Svobodová**, **Dagmar**(10); **Vašek**, **Vladimír**(5); **Jantanasakulwong**, **Kittisak**(5); **Ougizawa**, **Toshiaki**(5). Cross-linking kinetics study and high temperature mechanical properties of ethylene-octene copolymer (EOC)/dicumylperoxide(DCP) system. *European Polymer Journal*, 2011, roč. 47, č. 10, s. 1949-1955. ISSN 0014-3057. | **Q1** |
| **Janča**, **Josef**(55); **Halabalová**, **Věra**(15); **Polášek**, **Vladimír**(15); **Vašina**, **Martin**(10); **Menshikova**, **Anastasia Yu**(5). Relaxation of microparticles exposed to hydrodynamic forces in microfluidic conduits. *Analytical and Bioanalytical Chemistry*, 2011, roč. 399, č. 4, s. 1481-1491. ISSN 1618-2642. | **Q1, Q2** |
| **Svoboda**, **Petr**(60); **Trivedi**, **Krunal Rajendra**(5); **Svobodová**, **Dagmar**(10); **Mokrejš**, **Pavel**(5); **Vašek**, **Vladimír**(5); **Mori**, **Keisuke**(5); **Ougizawa**, **Toshiaki**(5); **Inoue**, **Takashi**(5). Isothermal crystallization in polypropylene/ethylene–octene copolymer blends. *Materials Chemistry and Physics*, 2011, roč. 131, č. 1-2, s. 84-93. ISSN 0254-0584. | **Q2** |
| **Svoboda**, **Petr**(55); **Poongavalappil**, **Sameepa**(5); **Theravalappil**, **Rajesh**(5); **Svobodová**, **Dagmar**(10); **Mokrejš**, **Pavel**(5); **Kolomazník**, **Karel**(5); **Ougizawa**, **Toshiaki**(5); **Inoue**, **Takashi**(5). Cross-Linking of Ethylene-Octene Copolymer (EOC) by Dicumyl Peroxide (DCP). *Journal of Applied Polymer Science*, 2011, roč. 121, č. 1, s. 521-530. ISSN 0021-8995.CD - Makromolekulární chemie | **Q2** |
| **Pecha**, **Jiří**(50); **Fürst**, **Tomáš**(5); **Kolomazník**, **Karel**(35); **Friebrová**, **Veronika**(5); **Svoboda**, **Petr**(5). Protein biostimulant foliar uptake modeling: The impact of climatic conditions. *Aiche Journal*, 2012, roč. 58, č. 7, s. 2010-2019. ISSN 0001-1541.CI - Průmyslová chemie a chemické inženýrství | **Q1** |
| **Svoboda**, **Petr**(80); **Trivedi**, **Krunal Rajendra**(5); **Svobodová**, **Dagmar**(5); **Kolomazník**, **Karel**(5); **Inoue**, **Takashi**(5). Influence of supercritical CO2 and initial melting temperature on crystallization of polypropylene/organoclay nanocomposite. *Polymer Testing*, 2012, roč. 31, č. 3, s. 444-454. ISSN 0142-9418. | **Q1, Q2** |
| **Svoboda**, **Petr**(80); **Trivedi**, **Krunal Rajendra**(5); **Svobodová**, **Dagmar**(5); **Mokrejš**, **Pavel**(5); **Kolomazník**, **Karel**(5). Effect of initial melting temperature on crystallization of polypropylene/organoclay nanocomposites. *Macromolecular Research*, 2012, roč. 20, č. 7, s. 659-666. ISSN 1598-5032. | **Q2** |
| **Šenkeřík**, **Roman**(75); **Davendra**, **Donald**(5); **Zelinka**, **Ivan**(5); **Oplatková**, **Zuzana**(10); **Jašek**, **Roman**(5). Performance comparison of differential evolution and soma on chaos control optimization problems. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, 2012, roč. 22, č. 8, s. 1-16. ISSN 0218-1274. | **Q2, Q3** |
| **Řezníčková**, **Jana**(50); **Došlý**, **Ondřej**(50). Conjugacy and principal solution of generalized half-linear second order differential equations. *Electronic Journal of Qualitative Theory of Differential Equations*, 2012, roč. 2011, č. 9QTDE, s. nečíslováno. ISSN 1417-3875. | **Q2, Q3** |
| **Chalupa**, **Petr**(70); **Novák**, **Jakub**(30). Modeling and model predictive control of a nonlinear hydraulic system. *Computers & Mathematics with Applications*, 2013, roč. 66, č. 2, s. 155-164. ISSN 0898-1221.BC - Teorie a systémy řízení | **Q1** |
| **Komínková Oplatková**, **Zuzana**(35); **Šenkeřík**, **Roman**(40); **Zelinka**, **Ivan**(5); **Pluháček**, **Michal**(20). Analytic programming in the task of evolutionary synthesis of a controller for high order oscillations stabilization of discrete chaotic systems. *Computers & Mathematics with Applications*, 2013, roč. 66, č. 2, s. 177-189. ISSN 0898-1221.IN - Informatika | **Q1** |
| **Pluháček**, **Michal**(60); **Šenkeřík**, **Roman**(20); **Davendra**, **Donald**(5); **Komínková Oplatková**, **Zuzana**(5); **Zelinka**, **Ivan**(10). On the behavior and performance of chaos driven PSO algorithm with inertia weight. *Computers & Mathematics with Applications*, 2013, roč. 66, č. 2, s. 122-134. ISSN 0898-1221. | **Q1** |
| **Bobál**, **Vladimír**(60); **Kubalčík**, **Marek**(20); **Dostál**, **Petr**(15); **Matějíček**, **Jakub**(5). Adaptive predictive control of time-delay systems. *Computers & Mathematics with Applications*, 2013, roč. 66, č. 2, s. 165-176. ISSN 0898-1221. | **Q1** |
| **Davendra**, **Donald**(5); **Zelinka**, **Ivan**(5); **Bialic-Davendra**, **Magdalena Lucyna**(50); **Šenkeřík**, **Roman**(35); **Jašek**, **Roman**(5). Discrete Self-Organising Migrating Algorithm for Flow Shop Scheduling with No Wait Makespan. *Mathematical and Computer Modelling*, 2013, roč. 57, č. 1-2, s. 100-110. ISSN 0895-7177. | **Q1** |
| **Zelinka**, **Ivan**(5); **Chadli**, **Mohammed**(5); **Davendra**, **Donald**(5); **Šenkeřík**, **Roman**(80); **Jašek**, **Roman**(5). An investigation on evolutionary reconstruction of continuous chaotic systems. *Mathematical and Computer Modelling*, 2013, roč. 57, č. 1-2, s. 2-15. ISSN 0895-7177. | **Q1** |
| **Šenkeřík**, **Roman**(60); **Komínková Oplatková**, **Zuzana**(30); **Zelinka**, **Ivan**(5); **Davendra**, **Donald**(5). Synthesis of feedback controller for three selected chaotic systems by means of evolutionary techniques: Analytic programming. *Mathematical and Computer Modelling*, 2013, roč. 57, č. 1-2, s. 57-67. ISSN 0895-7177. | **Q1** |
| **Bílek**, **František**(15); **Sulovská**, **Kateřina**(15); **Lehocký**, **Marián**(30); **Sáha**, **Petr**(15); **Humpolíček**, **Petr**(15); **Mozetič**, **Miran**(5); **Junkar**, **Ita**(5). Preparation of active antibacterial LDPE surface through multistep physicochemical approach II: Graft type effect on antibacterial properties. *Colloids and Surfaces B-Biointerfaces*, 2013, roč. 102, č. Neuveden, s. 842-848. ISSN 0927-7765. | **Q1** |
| **Gerlich**, **Vladimír**(5); **Sulovská**, **Kateřina**(85); **Zálešák**, **Martin**(10). COMSOL Multiphysics Validation as Simulation Software for Heat Transfer Calculaton in Buildings: Building Simulation Sofware Validation. *Measurement*, 2013, roč. 46, č. 6, s. 2003-2012. ISSN 0263-2241. | **Q1, Q2** |
| **Křesálek**, **Vojtěch**; **Gavenda**, **Tomáš**. Using Terahertz Spectroscopy for Observing the Kinetics of Recrystallisation of Polybutene-1. *Journal of Infrared Millimeter and Terahertz Waves*, 2013, roč. 34, č. 2, s. 187-193. ISSN 1866-6892. | **Q2** |
| **Maňas**, **David**(45); **Hřibová**, **Martina**(15); **Maňas**, **Miroslav**(15); **Ovsík**, **Martin**(5); **Staněk**, **Michal**(15); **Sámek**, **David**(5). The effect of beta irradiation on morphology and micro hardness of polypropylene thin layers. *Thin Solid Films*, 2013, roč. 530, č. Neuveden, s. 49-52. ISSN 0040-6090. | **Q2** |
| **Šánek**, **Lubomír**(45); **Pecha**, **Jiří**(45); **Kolomazník**, **Karel**(10). Simultaneous determination of main reaction components in the reaction mixture during biodiesel production. *Journal of Separation Science*, 2013, roč. 36, č. 6, s. 1029-1036. ISSN 1615-9306. | **Q2** |
| **Paravanová**, **Gordana**(60); **Hausnerová**, **Berenika**(20); **Beltrán Prieto**, **Juan Carlos**(20). The action principle of organic plasticizers in cement suspensions determined from centrifugation. *Polymer Composites*, 2013, roč. 34, č. 9, s. 1483-1488. ISSN 0272-8397. | **Q2, Q3** |
| **Beltrán Prieto**, **Juan Carlos**(80); **Kolomazník**, **Karel**(10); **Pecha**, **Jiří**(10). A Review of Catalytic Systems for Glycerol Oxidation: Alternatives for Waste Valorization. *Australian Journal of Chemistry*, 2013, roč. 2013, 66, č. 5, s. 511-521. ISSN 0004-9425. | **Q2** |
| **Paravanová**, **Gordana**(60); **Hausnerová**, **Berenika**(20); **Beltrán Prieto**, **Juan Carlos**(20). Determination of dispersion efficiency of cement suspensions by method of centrifugation. *Journal of Applied Polymer Science*, 2013, roč. 129, č. 1, s. 464-471. ISSN 0021-8995. | **Q2** |
| **Schauer**, **František**(40); **Kuřitka**, **Ivo**(20); **Nadazdy**, **V**; **Gmucova**, **K**; **Weis**, **M**; **Rohovec**, **Jan**; **Tousek**, **Jiří**; **Toušová**, **Eva**; **Lanyi**, **S**. Charge Transient, Electrochemical and Impedance Measurements as Tools for Characterization of Nano-Heterostructural Organic/Inorganic Semiconductors. *Nanoscience and Nanotechnology Letters*, 2013, roč. 5, č. 4, s. 439-443. ISSN 1941-4900. | **Q2, Q3** |
| **Schauer**, **František**(20); **Nadaždy**, **Vojtech**(10); **Gmucova**, **Katarina**(10); **Weis**, **Martin**(10); **Kuřitka**, **Ivo**(10); **Rohovec**, **Jan**(10); **Tousek**, **Jiří**(10); **Touskova**, **Jana**(10); **Lanyi**, **Stefan**(10). Charge Transient, Electrochemical and Impedance Measurements as Tools for Characterization of Nano-Heterostructural Organic/Inorganic Semiconductors. *NANOSCIENCE AND NANOTECHNOLOGY LETTERS*, 2013, roč. 5, č. 4, s. 439-443. ISSN 1941-4900. | **Q2, Q3** |
| **Nádaždy**, **Vojtech**; **Schauer**, **František**; **Gmucová**, **Katarína**. Energy resolved electrochemical impedance spectroscopy for electronic structure mapping in organic semiconductors. *Applied Physics Letters*, 2014, roč. 105, č. 14, s. 2109-1(5). ISSN 0003-6951. | **Q1** |
| **Šilhavý**, **Petr**(40); **Šilhavý**, **Radek**(40); **Prokopová**, **Zdenka**(20). Patients' Perspective of the Design of Provider-Patients Electronic Communication Services. *International Journal of Environmental Research and Public Health*, 2014, roč. 11, č. 6, s. 6231-6245. ISSN 1660-4601. | **Q2** |
| **Maňas**, **David**(40); **Maňas**, **Miroslav**(15); **Gajzlerová**, **Lenka**(20); **Staněk**, **Michal**(15); **Bednařík**, **Martin**(5); **Mizera**, **Aleš**(5). Effect of low doses beta irradiation on thermal, micro and macro mechanical properties of irradiated polypropylene. *Radiation Physics and Chemistry*, 2014, roč. 102, č. Neuveden, s. 171-177. ISSN 0969-806X. | **Q1, Q3** |
| **Navrátil**, **Jan**(5); **Maňas**, **Miroslav**(40); **Mizera**, **Aleš**(5); **Bednařík**, **Martin**(5); **Staněk**, **Michal**(40); **Danek**, **Michal**(5). Recycling of irradiated high-density polyethylene. *Radiation Physics and Chemistry*, 2015, roč. 106, č. Neuveden, s. 68-72. ISSN 0969-806X. | **Q1, Q4** |
| **Maňas**, **David**(50); **Maňas**, **Miroslav**(10); **Gajzlerová**, **Lenka**(10); **Ovsík**, **Martin**(5); **Krátký**, **Petr**(5); **Šenkeřík**, **Vojtěch**(5); **Škrobák**, **Adam**(5); **Daněk**, **Michal**(5); **Maňas**, **Martin**(5). Effect of low doses beta irradiation on micromechanical properties of surface layer of injection molded polypropylene composite. *Radiation Physics and Chemistry*, 2015, roč. 114, č. Neuveden, s. 25-30. ISSN 0969-806X. | **Q1, Q4** |
| **Slobodian**, **Petr**(40); **Cvelbar**, **Uroš**(5); **Říha**, **Pavel**(5); **Olejník**, **Robert**(10); **Matyáš**, **Jiří**(10); **Filipič**, **Gregor**(5); **Watanabe**, **Hiromasa**(5); **Tajima**, **Satomi**(5); **Kondo**, **Hiroki**(5); **Sekine**, **Makoto**(5); **Hori**, **Masaru**(5). High sensitivity of a carbon nanowall-based sensor for detection of organic vapours. *RSC Advances: an international journal to further the chemical sciences*, 2015, roč. 5, č. 110, s. 90515-90520. ISSN 2046-2069. | **Q2** |
| **Šánek**, **Lubomír**(40); **Pecha**, **Jiří**(35); **Kolomazník**, **Karel**(15); **Bařinová**, **Michaela**(10). Biodiesel production from tannery fleshings: Feedstock pretreatment and process modeling. *Fuel*, 2015, roč. 148, č. Neuvedeno, s. 16-24. ISSN 0016-2361. | **Q1, Q2** |
| **Svoboda**, **Petr**(65); **Mokrejš**, **Pavel**(5); **Vašek**, **Vladimír**(5); **Jantanasakulwong**, **Kittisak**(5); **Ougizawa**, **Toshiaki**(5); **Inoue**, **Takashi**(5); **Svobodová**, **Dagmar**(10). Electron beam crosslinking of ethylene-octene copolymers. *Polymer*, 2015, roč. 81, č. Neuveden, s. 119-128. ISSN 0032-3861. | **Q1** |
| **Šilhavý**, **Radek**(40); **Šilhavý**, **Petr**(40); **Prokopová**, **Zdenka**(20). Algorithmic Optimisation Method for Improving Use Case Points Estimation. *PLoS ONE*, 2015, roč. 10, č. 11, s. 1-14. ISSN 1932-6203. | **Q1** |
| **Vogeltanz**, **Tomáš**(100). A Survey of Free Software for the Design, Analysis, Modelling, and Simulation of an Unmanned Aerial Vehicle. *ARCHIVES OF COMPUTATIONAL METHODS IN ENGINEERING*, 2016, roč. 23, č. 3, s. 449–514. ISSN 1134-3060. | **Q1** |
| **Nedvědová**, **Marie**(65); **Křesálek**, **Vojtěch**(15); **Adamík**, **Zdeněk**(15); **Provazník**, **Ivo**(5). Terahertz Time-Domain Spectroscopy for Studying Absorbable Hemostats. *IEEE Transactions on Terahertz Science and Technology*, 2016, roč. 6, č. 3, s. 420-426. ISSN 2156-342X. | **Q1** |
| **Nedvědová**, **Marie**(65); **Křesálek**, **Vojtěch**(15); **Vašková**, **Hana**(15); **Provazník**, **Ivo**(5). Studying the Kinetics of n-Butyl-Cyanoacrylate Tissue Adhesive and Its Oily Mixtures. *Journal of Infrared Millimeter and Terahertz Waves*, 2016, roč. 37, č. 10, s. 1043-1054. ISSN 1866-6892. | **Q2** |
| **Afful-Dadzie**, **Eric**(85); **Afful-Dadzie**, **Anthony**(5); **Iddrisu**, **Awudu**(5); **Banuro**, **Joseph Kwaku**(5). Power generation capacity planning under budget constraint in developing countries. *APPLIED ENERGY*, 2017, roč. 188, č. 1, s. 71-82. ISSN 0306-2619. | **Q1** |
| **Matušů**, **Radek**(90); **Pekař**, **Libor**(10). Robust Stability of Thermal Control Systems with Uncertain Parameters: The Graphical Analysis Examples. *Applied Thermal Engineering*, 2017, roč. 125, č. 125, s. 1157-1163. ISSN 1359-4311. | **Q1, Q2** |
| **Pekař**, **Libor**(90); **Prokop**, **Roman**(10). Algebraic robust control of a closed circuit heating-cooling system with a heat exchanger and internal loop delays. *Applied Thermal Engineering*, 2017, roč. 113, č. 1, s. 1464-1474. ISSN 1359-4311. | **Q1, Q2** |
| **Pekař**, **Libor**(90); **Prokop**, **Roman**(10). The Revision and Extension of the RMS Ring for Time Delay Systems. *Bulletin of the Polish Academy of Sciences: Technical Sciences*, 2017, roč. 65, č. 3, s. 341-350. ISSN 0239-7528. | **Q2** |
| **Lapčík**, **Lubomír**(50); **Maňas**, **David**(5); **Vašina**, **Martin**(17); **Lapčíková**, **Barbora**(18); **Řezníček**, **Martin**(5); **Zádrapa**, **Petr**(5). High density poly(ethylene)/CaCO3 hollow spheres composites for technical applications. *Composites Part B-Engineering*, 2017, roč. 113, č. 15 March, s. 218-224. ISSN 1359-8368. | **Q1** |
| **Pátíková**, **Zuzana**(50); **Fišnarová**, **Simona**(50). Perturbed generalized half-linear Riemann–Weber equation – further oscillation results. *Electronic Journal of Qualitative Theory of Differential Equations*, 2017, roč. 2017, č. 69, s. 1-12. ISSN 1417-3875. | **Q2, Q3** |
| **Skovajsa**, **Jan**(75); **Koláček**, **Martin**(20); **Zálešák**, **Martin**(5). Phase Change Material Based Accumulation Panels in Combination with Renewable Energy Sources and Thermoelectric Cooling. *Energies*, 2017, roč. 10, č. 2, s. 1-18. ISSN 1996-1073. | **Q2** |
| **Včelař**, **František**(70); **Pátíková**, **Zuzana**(30). On fuzzification of Tarski's fixed point theorem without transitivity. *Fuzzy Sets and Systems*, 2017, roč. 2017, č. 320, s. 93-113. ISSN 0165-0114. | **Q1** |
| **Afful-Dadzie**, **Eric**(90); **Afful-Dadzie**, **Anthony**(10). Open Government Data in Africa: A preference elicitation analysis of media practitioners. *Government Information Quarterly*, 2017, roč. 34, č. 2, s. 244-255. ISSN 0740-624X. | **Q1** |
| **Afful-Dadzie**, **Eric**(45); **Afful-Dadzie**, **Anthony**(5); **Komínková Oplatková**, **Zuzana**(50). Assessing Commercial Viability of Technology Start-up Businesses in a Government Venture Capital under Fuzzy Intuitionistic Environment. *International Journal of Fuzzy Systems*, 2017, roč. 19, č. 2, s. 400-413. ISSN 1562-2479. | **Q2** |
| **Afful-Dadzie**, **Eric**(30); **Komínková Oplatková**, **Zuzana**(20); **Beltrán Prieto**, **Luis Antonio**(50). Comparative State-of-the-Art Survey of Classical Fuzzy Set and Intuitionistic Fuzzy Sets in Multi-Criteria Decision Making. *International Journal of Fuzzy Systems*, 2017, roč. 19, č. 3, s. 726-738. ISSN 1562-2479. | **Q2** |
| **Šilhavý**, **Radek**(40); **Šilhavý**, **Petr**(40); **Prokopová**, **Zdenka**(20). Analysis and selection of a regression model for the Use Case Points method using a stepwise approach. *JOURNAL OF SYSTEMS AND SOFTWARE*, 2017, roč. 125, č. neuveden, s. nestrankovano. ISSN 0164-1212. | **Q1** |
| **Sulovská**, **Kateřina**(85); **Fišerová**, **Eva**(5); **Chvosteková**, **Martina**(5); **Adámek**, **Milan**(5). Appropriateness of Gait Analysis for Biometrics: Initial Study Using FDA Method. *Measurement*, 2017, roč. 2017, č. 105, s. 1-10. ISSN 0263-2241. | **Q2** |
| **Matušů**, **Radek**(90); **Şenol**, **Bilal**(5); **Yeroğlu**, **Celaleddin**(5). Linear systems with unstructured multiplicative uncertainty: Modeling and robust stability analysis. *PLoS ONE*, 2017, roč. 12, č. 7, s. 1-21. ISSN 1932-6203. | **Q1** |
| **Matušů**, **Radek**(85); **Şenol**, **Bilal**(5); **Pekař**, **Libor**(10). Robust stability of fractional order polynomials with complicated uncertainty structure. *PLoS ONE*, 2017, roč. 12, č. 6, s. 1-13. ISSN 1932-6203. | **Q1** |
| **Pekař**, **Libor**(85); **Matušů**, **Radek**(10); **Prokop**, **Roman**(5). Gridding discretization-based multiple stability switching delay search algorithm: The movement of a human being on a controlled swaying bow. *PLoS ONE*, 2017, roč. 12, č. 6, s. nestrankovano. ISSN 1932-6203. | **Q1** |
| **Datta**, **Sanjoy**; **Antoš**, **Jan**; **Stoček**, **Radek**. Characterisation of ground tyre rubber by using combination of FT-IR numerical parameter and DTG analysis to determine the composition of ternary rubber blend. *Polymer Testing*, 2017, roč. 59, č. Neuveden, s. 308-315. ISSN 0142-9418. | **Q2** |
| **Datta**, **Sanjoy**; **Antoš**, **Jan**; **Stoček**, **Radek**. Smart numerical method for calculation of simple general infrared parameter identifying binary rubber blends. *Polymer Testing*, 2017, roč. 57, č. Neuveden, s. 192-202. ISSN 0142-9418. | **Q2** |
| **Procházka**, **Aleš**(20); **Charvátová**, **Hana**(20); **Vyšata**, **Oldřich**(20); **Kopal**, **Jakub**(20); **Chambers**, **Jonathon**(20). Breathing Analysis Using Thermal and Depth Imaging Camera Video Records. *Sensors*, 2017, roč. 17, č. 6, s. nestrankovano. ISSN 1424-8220. | **Q2, Q3** |
| **Koláček**, **Martin**(85); **Charvátová**, **Hana**(10); **Sehnálek**, **Stanislav**(5). Experimental and Numerical Research of the Thermal Properties of a PCM Window Panel. *Sustainability*, 2017, roč. 9, č. 7, s. nestrankovano. ISSN 2071-1050. | **Q2, Q3** |
| **Dong**, **Chaoyu**(35); **Gao**, **Qingbin**(25); **Xiao**, **Qian**(15); **Yu**, **Xiaodan**(10); **Pekař**, **Libor**(10); **Jia**, **Hongjie**(5). Time-delay stability switching boundary determination for DC microgrid clusters with the distributed control framework. *APPLIED ENERGY*, 2018, roč. 228, č. neuveden, s. 189-204. ISSN 0306-2619. | **Q1** |
| **Skovajsa**, **Jan**(95); **Zálešák**, **Martin**(5). The use of the photovoltaic system in combination with a thermal energy storage for heating and thermoelectric cooling. *Applied Sciences-Basel*, 2018, roč. 8, č. 10, s. nestrankovano. ISSN 2076-3417. | **Q2, Q3** |
| **Achbergerová**, **Eva**(65); **Šmejkalová**, **Daniela**(5); **Huerta-Angeles**, **Gloria**(5); **Souček**, **Karel**(5); **Hermannová**, **Martina**(5); **Vágnerová**, **Hana**(5); **Vícha**, **Robert**(5); **Velebný**, **Vladimír**(5). In vivo monitoring of tumor distribution of hyaluronan polymeric micelles labeled or loaded with near-infrared fluorescence dye. *Carbohydrate Polymers*, 2018, roč. 198, č. Neuveden, s. 339-347. ISSN 0144-8617. | **Q1** |
| **Matušů**, **Radek**(85); **Şenol**, **Bilal**(5); **Pekař**, **Libor**(10). Robust Stability of Fractional-Order Linear Time-Invariant Systems: Parametric versus Unstructured Uncertainty Models. *COMPLEXITY*, 2018, roč. 2018, č. 1, s. 1-12. ISSN 1076-2787. | **Q1, Q2** |
| **Lapčík**, **Lubomír**(40); **Maňas**, **David**(5); **Lapčíková**, **Barbora**(15); **Vašina**, **Martin**(10); **Staněk**, **Michal**(5); **Čépe**, **Klára**(5); **Vlček**, **Jakub**(5); **Waters**, **Kristian E.**(5); **Greenwood**, **Richard W.**(5); **Rowson**, **Neil A.**(5). Effect of filler particle shape on plastic-elastic mechanical behavior of high density poly(ethylene)/mica and poly(ethylene)/wollastonite composites. *Composites Part B-Engineering*, 2018, roč. 141, č. May 15, s. 92-99. ISSN 1359-8368. | **Q1** |
| **Pekař**, **Libor**(90); **Gao**, **Qingbin**(10). Spectrum analysis of LTI continuous-time systems with constant delays: A literature overview of some recent results. *IEEE Access*, 2018, roč. 6, č. neuveden, s. 35457-35491. ISSN 2169-3536. | **Q1** |
| **Procházka**, **Aleš**(25); **Charvátová**, **Hana**(25); **Vaseghi**, **Saeed**(25); **Vyšata**, **Oldřich**(25). Machine Learning in Rehabilitation Assessment for Thermal and Heart Rate Data Processing. *IEEE TRANSACTIONS ON NEURAL SYSTEMS AND REHABILITATION ENGINEERING*, 2018, roč. 26, č. 6, s. 1209-1214. ISSN 1534-4320. | **Q1** |
| **Šilhavý**, **Radek**(40); **Šilhavý**, **Petr**(40); **Prokopová**, **Zdenka**(20). Evaluating subset selection methods for use case points estimation. *INFORMATION AND SOFTWARE TECHNOLOGY*, 2018, roč. neuveden, č. 97, s. nestrankovano. ISSN 0950-5849. | **Q1, Q2** |
| **Řehák**, **David**(40); **Šenovský**, **Pavel**(40); **Hromada**, **Martin**(5); **Novotný**, **Petr**(15). Cascading Impact Assessment in a Critical Infrastructure System. *International Journal of Critical Infrastructure Protection*, 2018, roč. 10, č. 22, s. 125-138. ISSN 1874-5482. | **Q2** |
| **Schauer**, **František**(85); **Nádaždy**, **Vojtěch**(5); **Gmucová**, **Kateřina**(5); **Vary**, **Tomáš**(5). Electrochemically induced charge injection in disordered organic conductive polymers. *Journal of Applied Physics*, 2018, roč. 124, č. 16, s. 165702-1 - 165702-9. ISSN 0021-8979. | **Q2** |
| **Schauer**, **František**(40); **Nádaždy**, **Vojtěch**(30); **Gmucová**, **Kateřina**(30). Electrochemical impedance spectroscopy for study of electronic structure in disordered organic semiconductors-Possibilities and limitations. *Journal of Applied Physics*, 2018, roč. 123, č. 16, s. nestrankovano. ISSN 0021-8979. | **Q2** |
| **Schauer**, **František**(23); **Nádaždy**, **Vojtěch**(11); **Gmucová**, **Katarina**(11); **Nádaždy**, **Peter**(11); **Siffalovic**, **Peter**(11); **Vegso**, **Krol**(11); **Jergel**, **Matej**(11); **Majková**, **Eva**(11). Thickness Effect on Structural Defect-Related Density of States and Crystallinity in P3HT Thin Films on ITO Substrates. *Journal of Physical chemistry Prat C: Nanomaterials and Interfaces*, 2018, roč. 122, č. 11, s. 5881-5887. ISSN 1932-7447. | **Q1, Q2** |
| **Maňas**, **David**(5); **Mizera**, **Aleš**(25); **Maňas**, **Miroslav**(10); **Ovsík**, **Martin**(15); **Hýlová**, **Lenka**(5); **Sehnálek**, **Stanislav**(10); **Stoklásek**, **Pavel**(30). Mechanical Properties Changes of Irradiated Thermoplastic Elastomer. *Polymers*, 2018, roč. 10, č. 1, s. nestrankovano. ISSN 2073-4360. | **Q1** |
| **Maňas**, **David**(5); **Ovsík**, **Martin**(40); **Mizera**, **Aleš**(20); **Maňas**, **Miroslav**(15); **Hýlová**, **Lenka**(5); **Bednařík**, **Martin**(10); **Staněk**, **Michal**(5). The effect of irradiation on mechanical and thermal properties of selected types of polymers. *Polymers*, 2018, roč. 10, č. 2, s. 1-22. ISSN 2073-4360. | **Q1** |
| **Maňas**, **David**(5); **Maňas**, **Miroslav**(35); **Mizera**, **Aleš**(30); **Navrátil**, **Jan**; **Ovsík**, **Martin**(15); **Tomanová**, **Katarina**; **Sehnálek**, **Stanislav**(15). Use of Irradiated Polymers after Their Lifetime Period. *Polymers*, 2018, roč. 10, č. 6, s. nestrankovano. ISSN 2073-4360. | **Q1** |
| **Maňas**, **David**(5); **Mizera**, **Aleš**(25); **Navrátil**, **Milan**(20); **Maňas**, **Miroslav**(10); **Ovsík**, **Martin**(10); **Sehnálek**, **Stanislav**(10); **Stoklásek**, **Pavel**(20). The Electrical, Mechanical and Surface Properties of Thermoplastic Polyester Elastomer Modified by Electron Beta Radiation. *Polymers*, 2018, roč. 10, č. 10, s. nestrankovano. ISSN 2073-4360. | **Q1** |
| **Maňas**, **David**(5); **Maňas**, **Miroslav**(20); **Mizera**, **Aleš**(15); **Stoklásek**, **Pavel**(40); **Navrátil**, **Jan**; **Sehnálek**, **Stanislav**(15); **Drábek**, **Pavel**(5). The High Density Polyethylene Composite with Recycled Radiation Cross-Linked Filler of rHDPEx. *Polymers*, 2018, roč. 10, č. 12, s. nestrankovano. ISSN 2073-4360. | **Q1** |
| **Li**, **Huanan**; **Zhang**, **Haoqing**; **Xu**, **Ying**; **Vlachynská**, **Alžběta**; **Zahradnik**, **Pavel**; **Chang**, **Honglong**; **Neuzil**, **Pavel**. Versatile digital polymerase chain reaction chip design, fabrication, and image processing. *SENSORS AND ACTUATORS B-CHEMICAL*, 2018, roč. 2018, č. 283, s. 677-684. ISSN 0925-4005. | **Q1** |
| **Volná**, **Eva**(5); **Kotyrba**, **Martin**(5); **Komínková Oplatková**, **Zuzana**(50); **Šenkeřík**, **Roman**(40). Elliott waves classification by means of neural and pseudo neural networks. *Soft computing*, 2018, roč. 22, č. 6, s. 1803-1813. ISSN 1432-7643.IN - Informatika | **Q2** |
| **Zelinka**, **Ivan**(5); **Lampinen**, **Jouni**(5); **Šenkeřík**, **Roman**(60); **Pluháček**, **Michal**(30). Investigation on evolutionary algorithms powered by nonrandom processes. *Soft computing*, 2018, roč. 22, č. 6, s. 1791-1801. ISSN 1432-7643. | **Q2** |
| **Zelinka**, **Ivan**(20); **Das**, **Swagatam**(20); **Sikora**, **Lubomir**(20); **Šenkeřík**, **Roman**(40). Swarm virus - Next-generation virus and antivirus paradigm?. *Swarm and Evolutionary Computation*, 2018, roč. Neuveden, č. 43, s. 207-224. ISSN 2210-6502. | **Q1** |
| **Schauer**, **František**(10); **Athanasopoulos**, **Stavros**(10); **Vojtech**, **Nádaždy**(10); **Mareike**, **Weiß**(10); **Frank-Julian**, **Kahle**(10); **Ullrich**, **Scherf**(10); **Heinz**, **Bässler,**(20); **Anna**, **Köhler**(20). What is the Binding Energy of a Charge Transfer State in an Organic Solar Cell?. *ADVANCED ENERGY MATERIALS*, 2019, roč. 9, č. 24, s. 1-11. ISSN 1614-6832. | **Q1** |
| **Schauer**, **František**(20); **Gert-Jan A. H.**, **Wetzelaer,**(5); **Gollapalli Narayana Manjunatha**, **Reddy**(5); **Vojtech**, **Nádaždy**(10); **Martin**, **Seifrid**(5); **Guillermo C.**, **Bazan**(5); **Bradley F.**, **Chmelka**(5); **Paul W. M.**, **Blom**(5); **Akchheta**, **Karki**(20); **Thuc-Quyen**, **Nguyen**(20). Unifying Energetic Disorder from Charge Transport and Band Bending in Organic Semiconductors. *ADVANCED FUNCTIONAL MATERIALS*, 2019, roč. 29, č. 20, s. 1-11. ISSN 1616-301X. | **Q1** |
| **Matušů**, **Radek**(85); **Bilal**, **Şenol**(5); **Pekař**, **Libor**(10). Value-Set-Based Approach to Robust Stability Analysis for Ellipsoidal Families of Fractional-Order Polynomials with Complicated Uncertainty Structure. *Applied Sciences-Basel*, 2019, roč. 9, č. 24, s. 1-18. ISSN 2076-3417. | **Q2, Q3** |
| **Procházka**, **Aleš**(14,3); **Dostálová**, **Tatjana**(14,3); **Kašparová**, **Magdaléna**(14,3); **Vyšata**, **Oldřich**(14,3); **Charvátová**, **Hana**(14,3); **Sanei**, **Saeid**(14,2); **Mařík**, **Vladimír**(14,3). Augmented Reality Implementations in Stomatology. *Applied Sciences-Basel*, 2019, roč. 9, č. 14, s. nestrankovano. ISSN 2076-3417. | **Q2, Q3** |
| **Pátíková**, **Zuzana**(50); **Fišnarová**, **Simona**(50). Hille–Nehari type criteria and conditionally oscillatory half-linear differential equations. *Electronic Journal of Qualitative Theory of Differential Equations*, 2019, roč. 2019, č. 71, s. 1-22. ISSN 1417-3875. | **Q1** |
| **Šilhavý**, **Petr**(40); **Šilhavý**, **Radek**(40); **Prokopová**, **Zdenka**(20). Categorical Variable Segmentation Model for Software Development Effort Estimation. *IEEE Access*, 2019, roč. 7, č. neuvedeno, s. 9618-9626. ISSN 2169-3536. | **Q1, Q2** |
| **Řehák**, **David**(60); **Šenovský**, **Pavel**(20); **Hromada**, **Martin**(15); **Loveček**, **Tomáš**(5). Complex Approach to Assessing Resilience of Critical Infrastructure Elements. *International Journal of Critical Infrastructure Protection*, 2019, roč. 2019, č. 25, s. 125-138. ISSN 1874-5482. | **Q2, Q3** |
| **Šomplák**, **Radovan**(35); **Kůdela**, **Jakub**(5); **Smejkalová**, **Veronika**(5); **Pavlas**, **Martin**(5); **Nevrlý**, **Vlastimír**(5); **Hrabec**, **Dušan**(45). Pricing and advertising strategies in conceptual circular economy planning modelled by mixed integer programming. *Journal of Cleaner Production*, 2019, roč. 239, č. Neuveden, s. 118068. ISSN 0959-6526. | **Q1** |
| **Moučka**, **Robert**(30); **Goňa**, **Stanislav**(50); **Sedlačík**, **Michal**(20). Accurate Measurement of the True Plane-Wave Shielding Effectiveness of Thick Polymer Composite Materials via Rectangular Waveguides. *Polymers*, 2019, roč. 2019, č. 11, s. 1-14. ISSN 2073-4360. | **Q1** |
| **Vítková**, **Lenka**(10); **Musilová**, **Lenka**(15); **Achbergerová**, **Eva**(15); **Minařík**, **Antonín**(10); **Smolka**, **Petr**(5); **Wrzecionko**, **Erik**(5); **Mráček**, **Aleš**(40). Electrospinning of hyaluronan using polymer coelectrospinning and intermediate solvent. *Polymers*, 2019, roč. 11, č. 9, s. nestránkováno. ISSN 2073-4360. | **Q1** |
| **Maňas**, **David**(5); **Bednařík**, **Martin**(40); **Mizera**, **Aleš**(20); **Maňas**, **Miroslav**(15); **Ovsík**, **Martin**(10); **Stoklásek**, **Pavel**(10). Effect of beta radiation on the quality of the bonded joint for difficult to bond polyolefins. *Polymers*, 2019, roč. 11, č. 11, s. nestránkováno. ISSN 2073-4360. | **Q1** |
| **Viktorin**, **Adam**(65); **Šenkeřík**, **Roman**(10); **Pluháček**, **Michal**(10); **Kadavý**, **Tomáš**(10); **Zamuda**, **Aleš**(5). Distance based parameter adaptation for Success-History based Differential Evolution. *Swarm and Evolutionary Computation*, 2019, roč. 2019, č. 50, s. 1-17. ISSN 2210-6502. | **Q1** |
| **Procházka**, **Aleš**(25); **Vyšata**, **Oldřich**(25); **Charvátová**, **Hana**(25); **Vališ**, **Martin**(25). Motion Symmetry Evaluation Using Accelerometers and Energy Distribution. *Symmetry-Basel*, 2019, roč. 11, č. 7, s. 1-13. ISSN 2073-8994. | **Q2** |