

**In 2021 in the pro-quality programme for grants for publications in TOP1, TOP10, Nature or Science journals and for monographs in high-scoring publications, under the Excellence Initiative - Research University\* programme**  
in accordance with Ordinance No 27/2020 of 4 March 2020.

Within the framework of the announced pro-quality competition in 2021, 320 applications were submitted, of which 309 met the formal requirements.

| No. | First name and surname of the author/ Organisational unit | Article title/Journal                                                                                                                                                                    |
|-----|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.  | mgr inż. Filip Szelejewski, doktorant wdrożeniowy /RIE/   | „Assessment of improvement in the energy and exergy efficiency of the gas heat plant after the exhaust gas cooled down below the dew point and the use of recovered heat ”<br>Energy     |
| 2.  | mgr inż. Piotr Żymełka, doktorant wdrożeniowy /RIE/       | „Assessment of improvement in the energy and exergy efficiency of the gas heat plant after the exhaust gas cooled down below the dew point and the use of recovered heat ”<br>Energy     |
| 3.  | dr hab. inż. Zbigniew Buliński /RIE/                      | „Fluid structure interaction analysis of the operating Savonius wind turbine”<br>Renewable Energy                                                                                        |
| 4.  | mgr inż. Łukasz Marzec, doktorant /RIE/                   | „Fluid structure interaction analysis of the operating Savonius wind turbine”<br>Renewable Energy                                                                                        |
| 5.  | dr inż. Tomasz Krysiński /RIE/                            | „Fluid structure interaction analysis of the operating Savonius wind turbine”<br>Renewable Energy                                                                                        |
| 6.  | mgr inż. Marcelina Jureczko, doktorant /RIE/              | „White Rot Fungi-Mediated Biodegradation of Cytostatic Drugs - Bleomycin and Vincristine”<br>Journal of Hazardous Materials                                                              |
| 7.  | dr hab. inż. Wioletta Przysaś, prof. PŚ /RIE/             | „White Rot Fungi-Mediated Biodegradation of Cytostatic Drugs - Bleomycin and Vincristine”<br>Journal of Hazardous Materials                                                              |
| 8.  | dr hab. inż. Tomasz Krawczyk, prof. PŚ /RCH/              | „White Rot Fungi-Mediated Biodegradation of Cytostatic Drugs - Bleomycin and Vincristine”<br>Journal of Hazardous Materials                                                              |
| 9.  | dr hab. inż. Dominik Spinczyk, prof. PŚ /RIB/             | „Target registration error reduction for percutaneous abdominal intervention”<br>Computerized Medical Imaging and Graphic                                                                |
| 10. | dr hab. inż. Dawid Janas, prof. PŚ /RCH/                  | „Transformation of industrial wastewater into copper–nickel nanowire composites: straightforward recycling of heavy metals to obtain products of high added value”<br>Scientific Reports |
| 11. | mgr inż. Tomasz Wasiak, doktorant /RCH/                   | „Transformation of industrial wastewater into copper–nickel nanowire composites: straightforward recycling of heavy metals to obtain products of high added value”<br>Scientific Reports |
| 12. | dr hab. inż. Gabriela Pastuch-Gawolek, prof. PŚ /RCH/     | „Biodegradable pH-responsive micelles loaded with 8-hydroxyquinoline glycoconjugates for Warburg effect based tumor targeting”<br>European Journal of Pharmaceutics and Biopharmaceutics |
| 13. | mgr inż. Monika Krawczyk, doktorant /RCH/                 | „Biodegradable pH-responsive micelles loaded with 8-hydroxyquinoline glycoconjugates for Warburg effect based tumor targeting”<br>European Journal of Pharmaceutics and Biopharmaceutics |
| 14. | dr hab. Izabela Jonek-Kowalska, prof. PŚ /ROZ/            | „Financial contagion between the financial and the mining industries – Empirical evidence based on the symmetric and asymmetric CoVaR approach”<br>Resources Policy                      |
| 15. | dr hab. inż. Nikodem Kuźnik, prof. PŚ /RCH/               | „A step towards gadolinium-free bioresponsive MRI contrast agent”<br>European Journal of Medicinal Chemistry                                                                             |
| 16. | dr inż. Łukasz Przypis /RCH/                              | „A step towards gadolinium-free bioresponsive MRI contrast agent”<br>European Journal of Medicinal Chemistry                                                                             |
| 17. | dr inż. Monika Olesiejuk /RCH/                            | „A step towards gadolinium-free bioresponsive MRI contrast agent”<br>European Journal of Medicinal Chemistry                                                                             |
| 18. | dr hab. inż. Tomasz Krawczyk, prof. PŚ /RCH/              | „A step towards gadolinium-free bioresponsive MRI contrast agent”<br>European Journal of Medicinal Chemistry                                                                             |
| 19. | dr inż. Anna Kuźnik / RCH/                                | „A step towards gadolinium-free bioresponsive MRI contrast agent”<br>European Journal of Medicinal Chemistry                                                                             |
| 20. | mgr inż. Adrian Radoń, doktorant /RM/                     | „Broadband dielectric spectroscopy for monitoring temperature-dependent chloride ion motion in BiOCl plates”<br>Scientific Reports                                                       |
| 21. | dr inż. Dariusz Łukowiec /RMT1/                           | „Broadband dielectric spectroscopy for monitoring temperature-dependent chloride ion motion in BiOCl plates”<br>Scientific Reports                                                       |
| 22. | dr inż. Dorota Babilas /RCH1/                             | „Electrodialysis enhanced with disodium EDTA as an innovative method for separating Cu(II) ions from zinc salts in wastewater”<br>Chemical Engineering Journal                           |
| 23. | dr hab. inż. Piotr Dydo, prof. PŚ /RCH1/                  | „Electrodialysis enhanced with disodium EDTA as an innovative method for separating Cu(II) ions from zinc salts in wastewater”<br>Chemical Engineering Journal                           |

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| 24. | dr inż. Andrzej Milewski /RCH/                                  | „Electrodialysis enhanced with disodium EDTA as an innovative method for separating Cu(II) ions from zinc salts in wastewater”<br>Chemical Engineering Journal                                                     |
| 25. | mgr inż. Katarzyna Leśniak-Ziółkowska, doktorant /RCH/          | „Electrodialysis enhanced with disodium EDTA as an innovative method for separating Cu(II) ions from zinc salts in wastewater”<br>Chemical Engineering Journal                                                     |
| 26. | mgr inż. Jakub Muszyński /RCH/                                  | „Electrodialysis enhanced with disodium EDTA as an innovative method for separating Cu(II) ions from zinc salts in wastewater”<br>Chemical Engineering Journal                                                     |
| 27. | prof. dr hab. inż. Andrzej J. Nowak /RIE6/                      | „Theoretical basis for the use of non-invasive thermal measurements to assess the brain injury in newborns undergoing therapeutic hypothermia”<br>Scientific Reports                                               |
| 28. | dr hab. inż. Ziemowit Ostrowski, prof. PŚ /RIE6/                | „Theoretical basis for the use of non-invasive thermal measurements to assess the brain injury in newborns undergoing therapeutic hypothermia”<br>Scientific Reports                                               |
| 29. | dr inż. Marek Rojczyk /RIE6/                                    | „Theoretical basis for the use of non-invasive thermal measurements to assess the brain injury in newborns undergoing therapeutic hypothermia”<br>Scientific Reports                                               |
| 30. | mgr inż. Dominika Bandoła, doktorant /RIE/                      | „Theoretical basis for the use of non-invasive thermal measurements to assess the brain injury in newborns undergoing therapeutic hypothermia”<br>Scientific Reports                                               |
| 31. | dr hab. inż. Artur Nowoświat, prof. PŚ /RB/                     | „Use of n-perturbation interval ray tracing method in predicting acoustic field distribution”<br>Applied Mathematical Modelling                                                                                    |
| 32. | mgr inż. Daria Świętochowska (Kowalczykiewicz), doktorant /RCH/ | „Rotating bed reactor packed with heterofunctional structured silica-supported lipase. Developing an effective system for the organic solvent and aqueous phase reactions”<br>Microporous and Mesoporous Materials |
| 33. | dr hab. inż. Katarzyna Szymańska, prof. PŚ /RCH/                | „Rotating bed reactor packed with heterofunctional structured silica-supported lipase. Developing an effective system for the organic solvent and aqueous phase reactions”<br>Microporous and Mesoporous Materials |
| 34. | dr hab. inż. Danuta Gillner, prof. PŚ /RCH/                     | „Rotating bed reactor packed with heterofunctional structured silica-supported lipase. Developing an effective system for the organic solvent and aqueous phase reactions”<br>Microporous and Mesoporous Materials |
| 35. | dr hab. inż. Aleksander Król, prof. PŚ /RT/                     | „Numerical investigation on fire accident and evacuation in a urban tunnel for different traffic conditions”<br>Tunnelling and Underground Space Technology                                                        |
| 36. | dr hab. inż. Małgorzata Król, prof. PŚ /RIE/                    | „Numerical investigation on fire accident and evacuation in a urban tunnel for different traffic conditions”<br>Tunnelling and Underground Space Technology                                                        |
| 37. | dr hab. inż. Katarzyna Krukiewicz, prof. PŚ /RCH/               | „In vitro analysis of a physiological strain sensor formulated from a PEDOT:PSS functionalized carbon nanotube-poly(glycerol sebacate urethane) composite”<br>Materials Science and Engineering: C                 |
| 38. | dr inż. Adam Sochacki /RIE/                                     | „Fate of antifungal drugs climbazole and fluconazole in constructed wetlands - Diastereoselective transformation indicates process conditions”<br>Chemical Engineering Journal                                     |
| 39. | dr hab. inż. Barbara Sensuła, prof. PŚ /RIF/                    | „Radiocarbon, trace elements and pb isotope composition of pine needles from a highly industrialized region in southern Poland”<br>Radiocarbon                                                                     |
| 40. | dr hab. inż. Adam Michczyński, prof. PŚ /RIF/                   | „Radiocarbon, trace elements and pb isotope composition of pine needles from a highly industrialized region in southern Poland”<br>Radiocarbon                                                                     |
| 41. | dr hab. inż. Jerzy Łabaj, prof. PŚ /RM/                         | „The use of waste, fine-grained carbonaceous material in the process of copper slag reduction”<br>Journal of Cleaner Production                                                                                    |
| 42. | prof. dr hab. inż. Leszek Blacha /RM/                           | „The use of waste, fine-grained carbonaceous material in the process of copper slag reduction”<br>Journal of Cleaner Production                                                                                    |
| 43. | dr hab. inż. Albert Smalcerz, prof. PŚ /RM/                     | „The use of waste, fine-grained carbonaceous material in the process of copper slag reduction”<br>Journal of Cleaner Production                                                                                    |
| 44. | dr hab. inż. Wojciech Simka, prof. PŚ / RCH/                    | „Modification of SiOC-based layers with cerium ions - influence on the structure, microstructure and corrosion resistance”<br>Applied Surface Science                                                              |
| 45. | dr inż. Maciej Sowa /RCH/                                       | „Modification of SiOC-based layers with cerium ions - influence on the structure, microstructure and corrosion resistance”<br>Applied Surface Science                                                              |
| 46. | dr inż. Anita Pawlak-Jakubowska /RB/                            | „Kinematics of the retractable roofing module constructed from three roof panels with stiffening of the central panel”<br>Structures                                                                               |
| 47. | prof. dr hab. inż. Sławomir Dykas /RIE/                         | „Control of two-phase heat transfer and condensation loss in turbine blade cascade by injection water droplet”<br>Applied Thermal Engineering                                                                      |
| 48. | dr hab. inż. Michał Kawulok, prof. PŚ /RAU/                     | „Dynamics of facial actions for assessing smile genuineness”<br>PLOS ONE                                                                                                                                           |
| 49. | dr inż. Jakub Nalepa /RAU/                                      | „Dynamics of facial actions for assessing smile genuineness”<br>PLOS ONE                                                                                                                                           |
| 50. | dr inż. Jolanta Kawulok /RAU/                                   | „Dynamics of facial actions for assessing smile genuineness”<br>PLOS ONE                                                                                                                                           |
| 51. | prof. dr hab. Bogdan Smółka /RAU/                               | „Dynamics of facial actions for assessing smile genuineness”<br>PLOS ONE                                                                                                                                           |
| 52. | mgr inż. Patryk Grelewicz, doktorant /RAU/                      | „Increment Count Method and its PLC-based Implementation for Autotuning of Reduced-Order ADRC with Smith Predictor”<br>IEEE Transactions on Industrial Electronics                                                 |
| 53. | dr inż. Paweł Nowak /RAU/                                       | „Increment Count Method and its PLC-based Implementation for Autotuning of Reduced-Order ADRC with Smith Predictor”<br>IEEE Transactions on Industrial Electronics                                                 |

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| 54. | dr hab. inż. Jacek Cieczot, prof. PŚ /RAU/             | „Increment Count Method and its PLC-based Implementation for Autotuning of Reduced-Order ADRC with Smith Predictor”<br>IEEE Transactions on Industrial Electronics |
| 55. | mgr inż. Jakub Musiał, doktorant /RAU/                 | „Increment Count Method and its PLC-based Implementation for Autotuning of Reduced-Order ADRC with Smith Predictor”<br>IEEE Transactions on Industrial Electronics |
| 56. | dr Jan Juszczak /RIB/                                  | „Automated size-specific dose estimates using deep learning image processing”<br>Medical Image Analysis                                                            |
| 57. | dr hab. inż. Paweł Badura, prof. PŚ /RIB/              | „Automated size-specific dose estimates using deep learning image processing”<br>Medical Image Analysis                                                            |
| 58. | dr inż. Joanna Czajkowska /RIB/                        | „Automated size-specific dose estimates using deep learning image processing”<br>Medical Image Analysis                                                            |
| 59. | mgr inż. Agata Wijata, doktorant /RIB/                 | „Automated size-specific dose estimates using deep learning image processing”<br>Medical Image Analysis                                                            |
| 60. | mgr inż. Michał Smoliński, doktorant wdrożeniowy /RIB/ | „Automated size-specific dose estimates using deep learning image processing”<br>Medical Image Analysis                                                            |
| 61. | mgr inż. Marta Biesok, doktorant /RIB/                 | „Automated size-specific dose estimates using deep learning image processing”<br>Medical Image Analysis                                                            |
| 62. | mgr inż. Agata Sage, doktorant /RIB/                   | „Automated size-specific dose estimates using deep learning image processing”<br>Medical Image Analysis                                                            |
| 63. | dr inż. Marcin Rudzki /RIB/                            | „Automated size-specific dose estimates using deep learning image processing”<br>Medical Image Analysis                                                            |
| 64. | dr hab. inż. Wojciech Więclawek, prof. PŚ /RIB/        | „Automated size-specific dose estimates using deep learning image processing”<br>Medical Image Analysis                                                            |
| 65. | dr hab. inż. Marcin Woźniak, Prof. PŚ /RMS/            | „Real-time neural network based predictor for cov19 virus spread”<br>PLOS ONE                                                                                      |
| 66. | Michał Wieczorek /RMS/                                 | „Real-time neural network based predictor for cov19 virus spread”<br>PLOS ONE                                                                                      |
| 67. | Jakub Siłka /RMS/                                      | „Real-time neural network based predictor for cov19 virus spread”<br>PLOS ONE                                                                                      |
| 68. | dr inż. Dawid Połap /RMS/                              | „Real-time neural network based predictor for cov19 virus spread”<br>PLOS ONE                                                                                      |
| 69. | dr hab. inż. Marcin Woźniak, prof. PŚ /RMS/            | „Red fox optimization algorithm”<br>Expert Systems with Applications                                                                                               |
| 70. | dr inż. Dawid Połap /RMS/                              | „Red fox optimization algorithm”<br>Expert Systems with Applications                                                                                               |
| 71. | dr hab. inż. Marcin Woźniak, prof. PŚ /RMS/            | „MobileGCN applied to low-dimensional node feature learning”<br>Pattern Recognition                                                                                |
| 72. | dr hab. inż. Marcin Woźniak, prof. PŚ /RMS/            | „6G-enabled IoT Home Environment control using Fuzzy Rules”<br>IEEE Internet of Things Journal                                                                     |
| 73. | dr inż. Adam Zielonka /RMS/                            | „6G-enabled IoT Home Environment control using Fuzzy Rules”<br>IEEE Internet of Things Journal                                                                     |
| 74. | dr inż. Andrzej Sikora /RE/                            | „6G-enabled IoT Home Environment control using Fuzzy Rules”<br>IEEE Internet of Things Journal                                                                     |
| 75. | dr hab. inż. Wojciech Śimka, prof. PŚ /RCH/            | „In vitro evaluation of electrochemically bioactivated Ti6Al4V 3D porous scaffolds”<br>Materials Science and Engineering: C                                        |
| 76. | mgr inż. Katarzyna Leśniak-Ziółkowska, doktorant /RCH/ | „In vitro evaluation of electrochemically bioactivated Ti6Al4V 3D porous scaffolds”<br>Materials Science and Engineering: C                                        |
| 77. | dr inż. Anita Pawlak-Jakubowska /RB/                   | „Kinematics of the retractable roofing module constructed from three roof panels”<br>Journal of Building Engineering                                               |
| 78. | dr hab. inż. Katarzyna Krukiewicz, prof. PŚ /RCH/      | „Electrical percolation in intrinsically conducting, poly( $\epsilon$ -decalactone) composite neural interface materials”<br>Scientific Reports                    |
| 79. | mgr inż. Małgorzata Skorupa /RCH/                      | „Electrical percolation in intrinsically conducting, poly( $\epsilon$ -decalactone) composite neural interface materials”<br>Scientific Reports                    |
| 80. | dr hab. inż. Artur Babiarz, prof. PŚ /RAU/             | „Necessary and sufficient conditions for assignability of dichotomy spectra of continuous time-varying linear systems”<br>Automatica                               |
| 81. | prof. dr hab. inż. Adam Czornik /RAU/                  | „Necessary and sufficient conditions for assignability of dichotomy spectra of continuous time-varying linear systems”<br>Automatica                               |
| 82. | dr hab. inż. Agnieszka Szczesna, prof. PŚ /RAU/        | „Optical motion capture dataset of selected techniques in beginner and advanced Kyokushin karate athletes”<br>Scientific Data                                      |
| 83. | dr inż. Anna Kaźmierczak-Balata /RIF/                  | „Correlations of thermal properties with grain structure, morphology, and defect balance in nanoscale polycrystalline ZnO films”<br>Applied Surface Science        |
| 84. | dr hab. inż. Lucyna Grządziel, prof. PŚ /RIF/          | „Correlations of thermal properties with grain structure, morphology, and defect balance in nanoscale polycrystalline ZnO films”<br>Applied Surface Science        |
| 85. | dr hab. inż. Maciej Krzywiecki, prof. PŚ /RIF/         | „Correlations of thermal properties with grain structure, morphology, and defect balance in nanoscale polycrystalline ZnO films”<br>Applied Surface Science        |
| 86. | dr hab. inż. Elwira Zajusz-Zubek, prof. PŚ /RIE/       | „Bioavailability of elements in atmospheric PM <sub>2.5</sub> during winter episodes at Central Eastern European urban background site”<br>Atmospheric Environment |
| 87. | dr inż. William Chukwuemaeke Isaac /RAU/               | „Numerical investigation of the vibro-acoustic response of functionally graded lightweight square panel at low and mid-frequency regions”<br>Composite Structures  |
| 88. | prof. dr hab. inż. Marek Pawełczyk /RAU/               | „Numerical investigation of the vibro-acoustic response of functionally graded lightweight square panel at low and mid-frequency regions”<br>Composite Structures  |
| 89. | dr inż. Stanisław Wrona /RAU/                          | „Numerical investigation of the vibro-acoustic response of functionally graded lightweight square panel at low and mid-frequency regions”<br>Composite Structures  |

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| 90.  | dr inż. Aleksandra Kozłowska /RMT/                 | „Mechanical stability of retained austenite in aluminum-containing medium-Mn steel deformed at different temperatures”<br>Archives of Civil and Mechanical Engineering                       |
| 91.  | prof. dr hab. inż. Adam Grajcar /RMT/              | „Mechanical stability of retained austenite in aluminum-containing medium-Mn steel deformed at different temperatures”<br>Archives of Civil and Mechanical Engineering                       |
| 92.  | mgr inż. Krzysztof Matus /RMT/                     | „Mechanical stability of retained austenite in aluminum-containing medium-Mn steel deformed at different temperatures”<br>Archives of Civil and Mechanical Engineering                       |
| 93.  | dr hab. inż. Tomasz Krawczyk, prof. PŚ /RCH5/      | „Archives of Civil and Mechanical Engineering”<br>International Journal of Greenhouse Gas Control                                                                                            |
| 94.  | mgr inż. Mariusz Zalewski, doktorant /RCH/         | „Archives of Civil and Mechanical Engineering”<br>International Journal of Greenhouse Gas Control                                                                                            |
| 95.  | dr inż. Agnieszka Siewniak /RCH5/                  | „Archives of Civil and Mechanical Engineering”<br>International Journal of Greenhouse Gas Control                                                                                            |
| 96.  | dr inż. Michał Haida /RIE6/                        | „CFD modelling of R410A flow through an expansion valve using equilibrium and modified relaxation models”<br>Applied Thermal Engineering                                                     |
| 97.  | prof. dr hab. inż. Jacek Smółka /RIE6/             | „CFD modelling of R410A flow through an expansion valve using equilibrium and modified relaxation models”<br>Applied Thermal Engineering                                                     |
| 98.  | dr hab. inż. Piotr Moska, prof. PŚ /RIF2/          | „Problems of 14C dating in fossil soils within tectonically active highlands of Russian Altai in the chronological context of the late Pleistocene megafloods ”<br>CATENA                    |
| 99.  | mgr inż. Ewa Karchniwy, doktorantka /RIE6/         | „The effect of turbulence on mass transfer in solid fuel combustion: RANS model”<br>Combustion and Flame                                                                                     |
| 100. | dr hab. inż. Adam Klimanek, prof. PŚ /RIE6/        | „The effect of turbulence on mass transfer in solid fuel combustion: RANS model”<br>Combustion and Flame                                                                                     |
| 101. | dr inż. Sławomir Śladek /RIE6/                     | „The effect of turbulence on mass transfer in solid fuel combustion: RANS model”<br>Combustion and Flame                                                                                     |
| 102. | dr inż. Edyta Kudlek /RIE4/                        | „Determination of environmental properties and toxicity of octyl-dimethyl-para-aminobenzoic acid and its degradation products”<br>Journal of Hazardous Materials                             |
| 103. | dr inż. Piotr Sakiewicz /RMT1/                     | „Neural network prediction of parameters of biomass ashes, reused within the circular economy frame”<br>Renewable Energy                                                                     |
| 104. | dr hab. inż. Krzysztof Piotrowski, prof. PŚ /RCH3/ | „Neural network prediction of parameters of biomass ashes, reused within the circular economy frame”<br>Renewable Energy                                                                     |
| 105. | dr hab. inż. Sylwester Kalisz, prof. PŚ /RIE5/     | „Neural network prediction of parameters of biomass ashes, reused within the circular economy frame”<br>Renewable Energy                                                                     |
| 106. | dr inż. Paweł Sikora /RG5/                         | „Numerical assessment of the influence of former mining activities and plasticity of rock mass on deformations of terrain surface”<br>International Journal of Mining Science and Technology |
| 107. | dr inż. Michał Kręcichwost /RIB1/                  | „Chronic wounds multimodal image database”<br>Computerized Medical Imaging and Graphics                                                                                                      |
| 108. | dr inż. Joanna Czajkowska /RIB1/                   | „Chronic wounds multimodal image database”<br>Computerized Medical Imaging and Graphics                                                                                                      |
| 109. | mgr inż. Agata Wijata, doktorant /RIB/             | „Chronic wounds multimodal image database”<br>Computerized Medical Imaging and Graphics                                                                                                      |
| 110. | dr Jan Juszczyk /RIB1/                             | „Chronic wounds multimodal image database”<br>Computerized Medical Imaging and Graphics                                                                                                      |
| 111. | dr inż. Bartłomiej Pyciński /RIB1/                 | „Chronic wounds multimodal image database”<br>Computerized Medical Imaging and Graphics                                                                                                      |
| 112. | mgr inż. Marta Biesok, doktorant /RIB/             | „Chronic wounds multimodal image database”<br>Computerized Medical Imaging and Graphics                                                                                                      |
| 113. | dr inż. Marcin Rudzki /RIB1/                       | „Chronic wounds multimodal image database”<br>Computerized Medical Imaging and Graphics                                                                                                      |
| 114. | prof. dr hab. inż. Ewa Pietka /RIB1/               | „Chronic wounds multimodal image database”<br>Computerized Medical Imaging and Graphics                                                                                                      |
| 115. | dr hab. inż. Grzegorz Poręba /RIF2/                | „Combining 137Cs, 210Pb and dendrochronology for improved reconstruction of erosion-sedimentation events in a loess gully system (southern Poland)”<br>Land Degradation and Development      |
| 116. | dr inż. Tomasz Jastrzęb /RAU5/                     | „Parallel Algorithms for Minimal Nondeterministic Finite Automata Inference”<br>Fundamenta Informaticae                                                                                      |
| 117. | dr inż. Małgorzata Czichy /RCH4/                   | „Influence of isomeric phthaloperinone monomers on the formation of $\pi$ -dimers and $\sigma$ -bonded segments in electrochemically-crosslinked products”<br>Electrochimica Acta            |
| 118. | prof. dr hab. inż. Mieczysław Łapkowski /RCH4/     | „Influence of isomeric phthaloperinone monomers on the formation of $\pi$ -dimers and $\sigma$ -bonded segments in electrochemically-crosslinked products”<br>Electrochimica Acta            |
| 119. | dr inż. Radosław Motyka /RCH4/                     | „Influence of isomeric phthaloperinone monomers on the formation of $\pi$ -dimers and $\sigma$ -bonded segments in electrochemically-crosslinked products”<br>Electrochimica Acta            |
| 120. | mgr inż. Patryk Janasik, doktorant /RCH/           | „Influence of isomeric phthaloperinone monomers on the formation of $\pi$ -dimers and $\sigma$ -bonded segments in electrochemically-crosslinked products”<br>Electrochimica Acta            |
| 121. | dr hab. inż. Barbara Kozielska, prof. PŚ /RIE2/    | „Heavy metal- and organic-matter pollution due to self-heating coal-waste dumps in the Upper Silesian Coal Basin (Poland)”<br>Journal of Hazardous Materials                                 |
| 122. | prof. dr hab. inż. Anna Chrobok /RCH5/             | „Hard confinement systems as effective nanoreactors for in situ photo-RAFT: towards control over molecular weight distribution and morphology”<br>Polymer Chemistry                          |

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| 123. | mgr inż. Anna Szelwicka, doktorant /RCH/            | „Hard confinement systems as effective nanoreactors for in situ photo-RAFT: towards control over molecular weight distribution and morphology”<br>Polymer Chemistry                                                          |
| 124. | dr hab. inż. Jerzy Łabaj, prof. PŚ /RM2/            | „Utilization of waste coal flotation concentrate for copper matte smelting”<br>Engineering Science and Technology, an International Journal                                                                                  |
| 125. | prof. dr hab. inż. Leszek Blacha /RM2/              | „Utilization of waste coal flotation concentrate for copper matte smelting”<br>Engineering Science and Technology, an International Journal                                                                                  |
| 126. | dr hab. inż. Albert Smalcerz, prof. PŚ /RM4/        | „Utilization of waste coal flotation concentrate for copper matte smelting”<br>Engineering Science and Technology, an International Journal                                                                                  |
| 127. | dr inż. Jakub Wieczorek /RM3/                       | „Utilization of waste coal flotation concentrate for copper matte smelting”<br>Engineering Science and Technology, an International Journal                                                                                  |
| 128. | mgr inż. Bartłomiej Sobel, doktorant /RMT/          | „Synthesis of Ag nanoparticles by a chitosan-poly(3-hydroxybutyrate) polymer conjugate and their superb catalytic activity”<br>Carbohydrate Polymers                                                                         |
| 129. | dr inż. Artur Maciej /RCH1/                         | „Colourful thin passive films on a Zn-Co alloy formed by anodic oxidation”<br>Electrochimica Acta                                                                                                                            |
| 130. | dr inż. Maciej Sowa /RCH1/                          | „Colourful thin passive films on a Zn-Co alloy formed by anodic oxidation”<br>Electrochimica Acta                                                                                                                            |
| 131. | prof. dr hab. inż. Wojciech Simka /RCH1/            | „Colourful thin passive films on a Zn-Co alloy formed by anodic oxidation”<br>Electrochimica Acta                                                                                                                            |
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| 519. | mgr inż. Paweł Lasek /RE5/                        | „Virtual COVID-19 Reality”: Education, Research, and Professional Meetings Only or Something More?”<br>IEEE Industrial Electronics Magazine                                                          |
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| 638. | prof. dr hab. inż. Jacek Smółka /RIE6/             | „Effect of turbulence models and cavitation intensity on the motive and suction nozzle mass flow rate prediction during a non-equilibrium expansion process in the CO2 ejector”<br>Applied Thermal Engineering                                                              |
| 639. | dr inż. Michał Palacz /RIE6/                       | „Effect of turbulence models and cavitation intensity on the motive and suction nozzle mass flow rate prediction during a non-equilibrium expansion process in the CO2 ejector”<br>Applied Thermal Engineering                                                              |
| 640. | dr inż. Michał Haida /RIE6/                        | „Effect of turbulence models and cavitation intensity on the motive and suction nozzle mass flow rate prediction during a non-equilibrium expansion process in the CO2 ejector”<br>Applied Thermal Engineering                                                              |
| 641. | prof. dr hab. inż. Andrzej Nowak /RIE6/            | „Effect of turbulence models and cavitation intensity on the motive and suction nozzle mass flow rate prediction during a non-equilibrium expansion process in the CO2 ejector”<br>Applied Thermal Engineering                                                              |
| 642. | mgr inż. Emad Hasani Malekshah, doktorant /RIE5/   | „Comprehensive hydrothermal analysis of an inclined mini-channel with fin array: by dual/multi-relaxation-time LBM and experimental process on SiO2-glycol rheological/thermal characteristics”<br>International Journal of Numerical Methods for Heat & Fluid Flow         |
| 643. | mgr inż. Emad Hasani Malekshah, doktorant /RIE5/   | „Smoothed/profile lattice Boltzmann method for hydrothermal analysis of a corrugated parabolic-trough solar collector filled with nanofluid predicted by Koo–Kleinstreuer–Li model”<br>International Journal of Numerical Methods for Heat & Fluid Flow                     |
| 644. | mgr inż. Emad Hasani Malekshah, doktorant /RIE5/   | „An experimental/numerical hydrothermal-Second law analysis of a finned/tubular heat exchanger using Bhatnagar–Gross–Krook Lattice Boltzmann (BGK-LBM) and rheological-thermal behavior of Fe2O3-water”<br>International Journal of Numerical Methods for Heat & Fluid Flow |
| 645. | dr inż. Sourbh Thakur /RCH2/                       | „The environmental impact of mass coronavirus vaccinations: A point of view on huge COVID-19 vaccine waste across the globe during ongoing vaccine campaigns”<br>Science of The Total Environment                                                                           |
| 646. | dr inż. Dawid Połap /RMS2/                         | „A hybridization of distributed policy and heuristic augmentation for improving federated learning approach”<br>Neural Networks                                                                                                                                             |
| 647. | dr hab. inż. Marcin Woźniak, prof. PŚ /RMS2/       | „A hybridization of distributed policy and heuristic augmentation for improving federated learning approach”<br>Neural Networks                                                                                                                                             |
| 648. | prof. dr hab. inż. Marek Pawełczyk /RAU2/          | „Analysis of sound radiation from a vibrating elastically supported annular plate using compatibility layer and radial polynomials”<br>Journal of Sound and Vibration                                                                                                       |
| 649. | dr hab. inż. Mirosława Pawlyta, prof. PŚ /RMT-L1/  | „Titanium anodization in deep eutectic solvents: The effect of anodizing time on the morphology and structure of anodic layers”<br>Applied Surface Science                                                                                                                  |
| 650. | dr inż. Paweł Jarka /RMT1/                         | „Thermal and optical properties of PMMA films reinforced with Nb2O5 nanoparticles”<br>Scientific Reports                                                                                                                                                                    |
| 651. | dr hab. inż. Tomasz Tański, prof. PŚ /RMT1/        | „Thermal and optical properties of PMMA films reinforced with Nb2O5 nanoparticles”<br>Scientific Reports                                                                                                                                                                    |
| 652. | dr hab. inż. Przemysław Ledwoń /RCH4/              | „Functionalized polysiloxanes with perylene diimides and poly(ethylene glycol): Synthesis and properties”<br>European Polymer Journal                                                                                                                                       |
| 653. | mgr inż. Karolina Głosz, doktorant                 | „Functionalized polysiloxanes with perylene diimides and poly(ethylene glycol): Synthesis and properties”<br>European Polymer Journal                                                                                                                                       |
| 654. | dr inż. Radosław Motyka /RCH4/                     | „Functionalized polysiloxanes with perylene diimides and poly(ethylene glycol): Synthesis and properties”<br>European Polymer Journal                                                                                                                                       |
| 655. | dr hab. inż. Agnieszka Stolarczyk, prof. PŚ /RCH4/ | „Functionalized polysiloxanes with perylene diimides and poly(ethylene glycol): Synthesis and properties”<br>European Polymer Journal                                                                                                                                       |
| 656. | mgr inż. Ivan Gusev, doktorant /RCH/               | „Functionalized polysiloxanes with perylene diimides and poly(ethylene glycol): Synthesis and properties”<br>European Polymer Journal                                                                                                                                       |
| 657. | dr inż. Agata Blacha-Grzechnik /RCH4/              | „Functionalized polysiloxanes with perylene diimides and poly(ethylene glycol): Synthesis and properties”<br>European Polymer Journal                                                                                                                                       |
| 658. | dr inż. Sylwia Waśkiewicz /RCH4/                   | „Functionalized polysiloxanes with perylene diimides and poly(ethylene glycol): Synthesis and properties”<br>European Polymer Journal                                                                                                                                       |
| 659. | mgr inż. Piotr Kałużński /RE/                      | „Functionalized polysiloxanes with perylene diimides and poly(ethylene glycol): Synthesis and properties”<br>European Polymer Journal                                                                                                                                       |
| 660. | prof. dr hab. inż. Mieczysław Łapkowski /RCH4/     | „Functionalized polysiloxanes with perylene diimides and poly(ethylene glycol): Synthesis and properties”<br>European Polymer Journal                                                                                                                                       |
| 661. | dr hab. inż. Grzegorz Adamiec, prof. PŚ /RIF2/     | „Accumulation of aeolian sediments around the Tengger Desert during the late Quaternary and its implications on interpreting chronostratigraphic records from drylands in north China”<br>Quaternary Science Reviews                                                        |
| 662. | dr inż. Michał Haida                               | „Coupled EM–CFD analysis of an electrical three-phase low voltage line reactor equipped with liquid- and air-based cooling systems”<br>Applied Thermal Engineering                                                                                                          |
| 663. | mgr inż. Michał Stebel /RIE6/                      | „Coupled EM–CFD analysis of an electrical three-phase low voltage line reactor equipped with liquid- and air-based cooling systems”<br>Applied Thermal Engineering                                                                                                          |
| 664. | dr inż. Bartłomiej Melka /RIE6/                    | „Coupled EM–CFD analysis of an electrical three-phase low voltage line reactor equipped with liquid- and air-based cooling systems”<br>Applied Thermal Engineering                                                                                                          |

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| 665. | mgr inż. Paweł Lasek /RE5/                           | „Coupled EM–CFD analysis of an electrical three-phase low voltage line reactor equipped with liquid- and air-based cooling systems”<br>Applied Thermal Engineering                  |
| 666. | dr inż. Michał Palacz /RIE6/                         | „Coupled EM–CFD analysis of an electrical three-phase low voltage line reactor equipped with liquid- and air-based cooling systems”<br>Applied Thermal Engineering                  |
| 667. | mgr inż. Jakub Bodys /RIE6/                          | „Coupled EM–CFD analysis of an electrical three-phase low voltage line reactor equipped with liquid- and air-based cooling systems”<br>Applied Thermal Engineering                  |
| 668. | dr hab. inż. Mariusz Stępień, prof. PŚ /RE5/         | „Coupled EM–CFD analysis of an electrical three-phase low voltage line reactor equipped with liquid- and air-based cooling systems”<br>Applied Thermal Engineering                  |
| 669. | prof. dr hab. inż. Jacek Smółka, prof. PŚ /RIE6/     | „Coupled EM–CFD analysis of an electrical three-phase low voltage line reactor equipped with liquid- and air-based cooling systems”<br>Applied Thermal Engineering                  |
| 670. | prof. dr hab. inż. Jacek Smółka /RIE6/               | „Analysis of Al–Zn alloy refining in an industrial induction skull melter with two crucible types”<br>International Journal of Heat and Mass Transfer                               |
| 671. | dr hab. inż. Sławomir Golać, prof. PŚ /RM4/          | „Analysis of Al–Zn alloy refining in an industrial induction skull melter with two crucible types”<br>International Journal of Heat and Mass Transfer                               |
| 672. | dr hab. inż. Roman Przyłucki, prof. PŚ /RM4/         | „Analysis of Al–Zn alloy refining in an industrial induction skull melter with two crucible types”<br>International Journal of Heat and Mass Transfer                               |
| 673. | dr inż. Michał Palacz /RIE6/                         | „Analysis of Al–Zn alloy refining in an industrial induction skull melter with two crucible types”<br>International Journal of Heat and Mass Transfer                               |
| 674. | dr hab. inż. Grzegorz Siwiec, prof. PŚ /RM2/         | „Analysis of Al–Zn alloy refining in an industrial induction skull melter with two crucible types”<br>International Journal of Heat and Mass Transfer                               |
| 675. | dr inż. Bartłomiej Melka /RIE6/                      | „Analysis of Al–Zn alloy refining in an industrial induction skull melter with two crucible types”<br>International Journal of Heat and Mass Transfer                               |
| 676. | prof. dr hab. inż. Leszek Blacha /RM2/               | „Analysis of Al–Zn alloy refining in an industrial induction skull melter with two crucible types”<br>International Journal of Heat and Mass Transfer                               |
| 677. | dr hab. Izabela Jonek-Kowalska, prof. PŚ /ROZ1/      | „The quality of service to residents by public administration on the example of municipal offices in Poland”<br>Administratie si Management Public                                  |
| 678. | prof. dr hab. inż. Radosław Wolniak /ROZ1/           | „The quality of service to residents by public administration on the example of municipal offices in Poland”<br>Administratie si Management Public                                  |
| 679. | dr hab. inż. Jakub Nalepa, prof. PŚ /RAU5/           | „Deep Ensembles for Hyperspectral Image Data Classification and Unmixing”<br>Remote Sensing                                                                                         |
| 680. | mgr inż. Łukasz Tulczyjew, doktorant /RAU/           | „Deep Ensembles for Hyperspectral Image Data Classification and Unmixing”<br>Remote Sensing                                                                                         |
| 681. | dr hab. inż. Michał Kawulok, prof. PŚ /RAU5/         | „Deep Ensembles for Hyperspectral Image Data Classification and Unmixing”<br>Remote Sensing                                                                                         |
| 682. | dr hab. inż. Maria Hurnik, prof. PŚ /RIE1/           | „Local and gross parameters of air distribution in a room with a sidewall jet: CFD validation based on benchmark test”<br>Building and Environment                                  |
| 683. | prof. dr hab. inż. Zbigniew Popiołek /RIE1/          | „Local and gross parameters of air distribution in a room with a sidewall jet: CFD validation based on benchmark test”<br>Building and Environment                                  |
| 684. | prof. dr hab. inż. Radosław Wolniak, prof. PŚ /ROZ1/ | „Systematic Assessment of Product Quality”<br>Journal of Open Innovation: Technology, Market, and Complexity                                                                        |
| 685. | dr hab. inż. Joanna Ferdyn-Grygierek prof. PŚ /RIE1/ | „Effects of Climate Change on Thermal Comfort and Energy Demand in a Single-Family House in Poland”<br>Buildings                                                                    |
| 686. | mgr inż. Izabela Sarna, doktorant /RIE1/             | „Effects of Climate Change on Thermal Comfort and Energy Demand in a Single-Family House in Poland”<br>Buildings                                                                    |
| 687. | dr hab. inż. Krzysztof Grygierek, prof. PŚ /RB5/     | „Effects of Climate Change on Thermal Comfort and Energy Demand in a Single-Family House in Poland”<br>Buildings                                                                    |
| 688. | mgr inż. Kamil Korus, doktorant /RB/                 | „Optimization of geometric parameters of arch bridges using visual programming FEM components and genetic algorithm”<br>Engineering Structures                                      |
| 689. | dr hab. inż. Marek Salamak, prof. PŚ /RB5/           | „Optimization of geometric parameters of arch bridges using visual programming FEM components and genetic algorithm”<br>Engineering Structures                                      |
| 690. | dr hab. inż. Jarosław Brodny, prof. PŚ /ROZ3/        | „Analysis of the efficiency and structure of energy consumption in the industrial sector in the European Union countries between 1995 and 2019”<br>Science of The Total Environment |
| 691. | dr inż. Magdalena Tutak /RG3/                        | „Analysis of the efficiency and structure of energy consumption in the industrial sector in the European Union countries between 1995 and 2019”<br>Science of The Total Environment |
| 692. | dr inż. Sourbh Thakur /RCH2/                         | „Bentonite-based sodium alginate/ dextrin cross-linked poly (acrylic acid) hydrogel nanohybrids for facile removal of paraquat herbicide from aqueous solutions”<br>Chemosphere     |
| 693. | dr hab. inż. Dawid Janas, prof. PŚ /RCH2/            | „Bentonite-based sodium alginate/ dextrin cross-linked poly (acrylic acid) hydrogel nanohybrids for facile removal of paraquat herbicide from aqueous solutions”<br>Chemosphere     |
| 694. | prof. dr hab. inż. Jacek Czczot /RAU3/               | „Feed-forward offset-free model predictive temperature control for proton exchange membrane fuel cell: An experimental study”<br>ISA Transactions                                   |
| 695. | dr inż. Paweł Nowak /RAU3/                           | „Feed-forward offset-free model predictive temperature control for proton exchange membrane fuel cell: An experimental study”<br>ISA Transactions                                   |
| 696. | dr inż. Marcin Lawnik /RMS2/                         | „Homotopic Parametric Continuation Method for Determining Stationary States of Chemical Reactors with Dispersion”<br>Symmetry                                                       |

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| 697.                             | dr hab. inż. Piotr Moska, prof. PŚ /RIF2/      | <i>„Detection of occupational surface remnants at a heavily eroded site; case study of archaeological soils from La Terrasse, Bibracte oppidum”</i><br>CATENA                           |
| 698.                             | dr hab. inż. Marcin Woźniak, prof. PŚ /RMS2/   | <i>„Revise-Net: Exploiting Reverse Attention Mechanism for Salient Object Detection”</i><br>Remote Sensing                                                                              |
| 699.                             | dr hab. inż. Marcin Woźniak, prof. PŚ /RMS2/   | <i>„Heuristic optimization of multi-pulse rectifier for reduced energy consumption”</i><br>IEEE Transactions on Industrial Informatics                                                  |
| 700.                             | dr inż. Andrzej Sikora /RE3/                   | <i>„Heuristic optimization of multi-pulse rectifier for reduced energy consumption”</i><br>IEEE Transactions on Industrial Informatics                                                  |
| 701.                             | dr inż. Adam Zielonka /RMS2/                   | <i>„Heuristic optimization of multi-pulse rectifier for reduced energy consumption”</i><br>IEEE Transactions on Industrial Informatics                                                  |
| 702.                             | dr hab. inż. Marcin Woźniak, prof. PŚ /RMS2/   | <i>„Lightweight CNN model for human face detection in risk situations”</i><br>IEEE Transactions on Industrial Informatics                                                               |
| 703.                             | Michał Wieczorek, student /RMS/                | <i>„Lightweight CNN model for human face detection in risk situations”</i><br>IEEE Transactions on Industrial Informatics                                                               |
| 704.                             | Jakub Siłka, student /RMS/                     | <i>„Lightweight CNN model for human face detection in risk situations”</i><br>IEEE Transactions on Industrial Informatics                                                               |
| 705.                             | dr hab. inż. Marcin Woźniak, prof. PŚ /RMS2/   | <i>„Dynamic Bargain Game Theory in the Internet of Things for Data Trustworthiness”</i><br>Sensors                                                                                      |
| 706.                             | dr inż. Sylwia Waśkiewicz /RCH4/               | <i>„Synthesis of new oligoesterdiols based on waste poly(ethylene terephthalate) and dimerized fatty acid”</i><br>Polymer                                                               |
| 707.                             | dr hab. inż. Magdalena Palacz, prof. PŚ /R0Z3/ | <i>„The Influence of the Grid Density of Measurement Points on Damage Detection in an Isotropic Plate by the Use of Elastic Waves and Laser Scanning Doppler Vibrometry”</i><br>Sensors |
| * Listed in order of grant award |                                                |                                                                                                                                                                                         |