

Best Paper programme: results of the third competition

No.	Author	Title	Journal
1.	Zdrojek Mariusz	Heat management with a twist in layered materials	Nature
2.	Halina Szatyłowicz, Olga Stasyuk, Miquel Sola, Tadeusz M. Krygowski,	Aromaticity of nucleic acid bases	Wiley Interdisciplinary Reviews-Computational Molecular Science [Wiley Interdisciplinary Reviews: Computational Molecular Science]
3.	Zahra Barani, Fariborz Kargar, Yassamin Ghafouri, Subhajit Ghosh, Konrad Godziszewski, Saba Baraghani, Yevhen Yashchyshyn, Grzegorz Cywiński, S.L. Romyantsev, Tina T. Salguero, Alexander A. Balandin	Electrically Insulating Flexible Films with Quasi-1D van der Waals Fillers as Efficient Electromagnetic Shields in the GHz and Sub-THz Frequency Bands	Advanced Materials
4.	Marek Michalczuk, Bartłomiej Ufnalski, Lech Grzesiak	Imposing Constraints in a Full State Feedback System Using Multithreaded Controller	IEEE Transactions on Industrial Electronics
5.	Marthe Bonamy, Édouard Bonnet, Nicolas Bousquet, Pierre Charbit, Panos Giannopoulos, Eun Jung Kim, Paweł Rzążewski, Florian Sikora, Stéphan Thomassé	EPTAS and Subexponential Algorithm for Maximum Clique on Disk and Unit Ball Graphs	Journal of the ACM
6.	Dominik Olszewski	A clustering-based adaptive Neighborhood Retrieval Visualizer	Neural Networks
7.	Andrea Baccioli, Angelica Liponi, Jarosław Milewski, Arkadiusz Szczęśniak, Umberto Desideri	Hybridization of an internal combustion engine with a molten carbonate fuel cell for marine applications	Applied Energy
8.	Antonio Vassallo	Does general relativity highlight necessary connections in nature?	Synthese

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9.	Andrzej Biłat	The correctness and relevance of the modal ontological argument	Synthese
10.	Paula Quinon	Can Church's thesis be viewed as a Carnapian explication?	Synthese
11.	Michał Terlecki, S. Badoni, Michał Leszczyński, Stanisław Gierlotka, Iwona Justyniak, Hanako Okuno, Małgorzata Wolska-Pietkiewicz, D. Lee, G. De Paëpe, Janusz Lewiński	ZnO Nanoplatelets with Controlled Thickness: Atomic Insight into Facet-Specific Bimodal Ligand Binding Using DNP NMR	Advanced Functional Materials
12.	Michał Jakubczak, Szuplewska Aleksandra, Anita Rozmysłowska-Wojciechowska, Andreas Rosenkranz, Agnieszka Jastrzębska	Novel 2D MBenes—Synthesis, Structure and Biotechnological Potential	Advanced Functional Materials
13.	Jarosław Milewski, Arkadiusz Szczęśniak	A reduced order model of proton conducting Solid Oxide Fuel Cell: A proposal	Energy Conversion and Management
14.	Timothy A. Strobel, L Zhu, Piotr Guńka, Gustav M. Borstad, Michael Guerette, A Lanthanum-Filled Carbon–Boron Clathrate	A Lanthanum-Filled Carbon–Boron Clathrate	Angewandte Chemie-International Edition, [Angewandte Chemie - International Edition]
15.	Maciej Pikuliński, Paweł Malczyk	Adjoint method for optimal control of multibody systems in the Hamiltonian setting	Mechanism and Machine Theory
16.	Filipe Marques, Łukasz Woliński, Marek Wojtyra, Paulo Flores, Hamid M. Lankarani	An investigation of a novel LuGre-based friction force model	Mechanism and Machine Theory
17.	Lech Łobocki, Paola Maria Porretta-Tomaszewska	Prediction of gradient-based similarity functions from the Mellor-Yamada model	Quarterly Journal of the Royal Meteorological Society

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18.	Radosław Żyłka, Beata Karolinczak, Wojciech Dąbrowski	Structure and indicators of electric energy consumption in dairy wastewater treatment plant	Science of the Total Environment
19.	Zuzanna Bojarska, Janusz Kopytowski, Marta Mazurkiewicz-Pawlicka, Piotr Bazarnik, Stanisław Gierlotka, Antoni Rozeń, Łukasz Makowski	Molybdenum disulfide-based hybrid materials as new types of oil additives with enhanced tribological and rheological properties	Tribology International
20.	Karolina Okrasa, Paweł Rzązewski	Fine-Grained Complexity of the Graph Homomorphism Problem for Bounded-Treewidth Graphs	SIAM Journal on Computing
21.	Maciej Kachniarz, Jacek Salach	Characterization of magnetoelastic properties of Ni–Zn ferrite in wide range of magnetizing fields for stress sensing applications	Measurement, [Measurement: Journal of the International Measurement Confederation]
22.	Karol Brzeziński, Kazimierz Józefiak, Artur Zbiciak	On the interpretation of shear parameters uncertainty with a linear regression approach	Measurement, [Measurement: Journal of the International Measurement Confederation]
23.	Patrycja Sokołowska, Kamil Żukowski, Justyna Janikiewicz, Elżbieta Jastrzębska, Agnieszka Dobrzyn, Zbigniew Brzózka	Islet-on-a-chip: Biomimetic micropillar-based microfluidic system for three-dimensional pancreatic islet cell culture	Biosensors & Bioelectronics, [Biosensors and Bioelectronics]
24.	Katarzyna Budzyńska, Marcin Koszowy, Martín Pereira-Fariña	Associating Ethos with Objects: Reasoning from Character of Public Figures to Actions in the World	Argumentation
25.	Artur Kasprzak, Hidehiro Sakurai	Disaggregation of a sumanene-containing fluorescent probe towards highly sensitive and specific detection of caesium cations	Chemical Communications

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26.	Ilona Bluemke, Agnieszka Malanowska	Software Testing Effort Estimation and Related Problems: A Systematic Literature Review	ACM Computing Surveys
27.	Piotr Maciąg, Marzena Kryszkiewicz, Robert Bembenik, Jesus L. Lobo, Javier Del Ser	Unsupervised Anomaly Detection in Stream Data with Online Evolving Spiking Neural Networks	Neural Networks
28.	Gonzalo Nápoles, Agnieszka Jastrzębska, Yamisleydi Salgueiro	Pattern classification with Evolving Long-term Cognitive Networks	Information Sciences
29.	Adam Żychowski, Jacek Mańdziuk	Duo-LDL method for Label Distribution Learning based on pairwise class dependencies	Applied Soft Computing, [Applied Soft Computing Journal]
30.	G. Bezhanishvili, N. Bezhanishvili, T. Moraschini, Michał Stronkowski	Profiniteness and representability of spectra of Heyting algebras	Advances in Mathematics