

# СПИСЪК

на научните трудове

на доц. д-р Димитър Пилев, предоставени за участие в конкурс за „професор“

1. Stratiev D, Toteva V, Shishkova I, Nenov S, **Pilev D**, Atanassov K, Bureva V, Vasilev S, Stratiev DD, Ancheyta J, Industrial Investigation of the Combined Action of Vacuum Residue Hydrocracking and Vacuum Gas Oil Catalytic Cracking While Processing Different Feeds and Operating under Distinct Conditions, PROCESSES, eISSN: 2227-9717, Volume: 11, Issue: 11, Article Number 3174, 2023, DOI:10.3390/pr11113174, (IF 3.5 (2022), Q2)
2. Georgiev Borislav, Stratiev Dicho, Argirov Georgy, Nedelchev Angel, Dinkov Rosen, Shishkova Ivelina, Ivanov Mihail, Atanassov Krassimir, Ribagin Simeon, Palichev Georgi, Nenov Svetoslav, Sotirov Sotir, Sotirova Evdokia, **Pilev Dimitar**, Stratiev Danail, Commercial Ebullated Bed Vacuum Residue Hydrocracking Performance Improvement during Processing Difficult Feeds, APPLIED SCIENCES-BASEL, eISSN: 2076-3417, MDPI, 2023, DOI: 10.3390/app13063755 (IF 2.7 (2022), Q3)
3. Palichev GN., Stratiev Dicho, Sotirov Sotir, Sotirova Evdokia, Nenov Svetoslav, Shishkova Ivelina, Dinkov Rosen, Atanassov Krassimir, Ribagin Simeon, Stratiev Danail Dichev, **Pilev Dimitar**, Yordanov Dobromir, Prediction of Refractive Index of Petroleum Fluids by Empirical Correlations and ANN, PROCESSES, eISSN 2227-9717, Volume: 11, Issue: 8, MPMD, 2023, DOI 10.3390/pr11082328 (IF 3.5 (2022), Q2)
4. **Dimitar Pilev**, Atanas Atanassov, F. Tomova, Bimodal System for Facial Emotion Recognition Based on Deep Learning Neural Networks, 2022 International Conference Automatics and Informatics (ICAI), IEEE, 0.1109/ICAI55857.2022.9959997
5. Atanas V. Atanassov, **Dimitar I. Pilev**, Fani N. Tomova, Vanya D. Kuzmanova, Hybrid System for Emotion Recognition Based on Facial Expressions and Body Gesture Recognition, 2021 International Conference Automatics and Informatics (ICAI), IEEE, DOI: 10.1109/ICAI52893.2021.9639829
6. Monika Petrunova, Atanas V. Atanassov, **Dimitar I. Pilev**, Selecting a platform for distance learning in an electronic environment, 2021 International Conference Automatics and Informatics (ICAI), IEEE, DOI: 10.1109/ICAI52893.2021.9639855

7. Atanas Atanassov, **Dimitar Pilev**, Pre-trained Deep Learning Models for Facial Emotions Recognition, 2020 International Conference Automatics and Informatics (ICAI), IEEE, DOI: 10.1109/ICAI50593.2020.9311334
8. D. Tochev, M. Karsheva, **D. Pilev**, L. Cayla, G. Masson, G. Mihaylova. Phenolic compounds in peels, seeds, marcs and wines from Mavrud grapes. Journal of Chemical Technology and Metallurgy, 55, 4, 2020, 772-777, ISSN 1314-7471 (SJR 0.331)
9. Marko I. Uzunov, **Dimitar I. Pilev**, Evgenia M. Savova-Videnova, Statistical evaluation and forecasting of the dust particles concentrations depending on the meteorological conditions, Journal of Chemical Technology and Metallurgy, 54, Iss. 1, 2019, 149-161, ISSN 1314-7471 (SJR 0.331)
10. Stratiev D., Shishkova I., Dinkov R., Kolev I., Argirov G., Ivanov V., Ribagin S., Atanassova V., Atanassov K., Stratiev DD., Nenov S., **Pilev D.**, Yordanov D., Intercriteria Analysis to Diagnose the Reasons for Increased Fouling in a Commercial Ebullated Bed Vacuum Residue Hydrocracker, ACS OMEGA, ISSN: 2470-1343, 2022, DOI: 10.1021/acsomega.2c03876 (IF 4.1 (2022), Q2)
11. Stratiev D, Dinkov, R, Tavlieva M, Shishkova I, Palichev G, Ribagin S, Atanassov K, Stratiev DD, Nenov S, **Pilev D**, Sotirov S, Sotirova E, Simeonov S, Boyadzhieva V, Correlations of HTSD to TBP and Bulk Properties to Saturate Content of a Wide Variety of Crude Oils, PROCESSES, eISSN: 2227-9717, MDPI, 2023, DOI:10.3390/pr11020420 (IF 3.5 (2022), Q2)
12. Stratiev D., Nenov S., Shishkova I., Sotirov S., Sotirova E., Dinkov R., Yordanov D, **Pilev D.**, Atanassov K., Vasilev S., Stratiev DD, Prediction of Viscosity of Blends of Heavy Oils with Diluents by Empirical Correlations and Artificial Neural Network, INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, ISSN: 0888-5885, Volume 62, Issue 49, Page: 21449-21463, 2023, Publisher AMER CHEMICAL SOC, DOI:10.1021/acs.iecr.3c02472 (IF 4.2 (2022), Q2)
13. Ivaylo Atanasov, **Dimitar Pilev**, Cyber-physical security through facial recognition and sensor data analysis, Journal of Chemical Technology and Metallurgy, 59, 2, 2024, 465-472, DOI: 10.59957/jctm.v59.i2.2024.27 (SJR 0.2)