

СПИСЪК

на трудовете и публикациите на доц. д-р инж. **Виктор Петров Савов** за периода 2015 ÷ 2023 г. (след присъждане на академична длъжност „доцент“), представени за участие в конкурс за заемане на академичната длъжност „професор“ по дисциплината „Технология на материалите от дървесни влакна“ в научна област б. „Аграрни науки и ветеринарна медицина“, ПН 6.5. „Горско стопанство“, научна специалност „Технология, механизация и автоматизация на дървообработващата и мебелната промишленост“, обявен в ДВ, бр. 26 от 21.03.2023 г., код на процедурата: **WWI-P-0223-104**

1. Публикации в списания с импакт фактор (Web of Science) – 24 бр.

1. **Savov, V.**, Antov, P., Zhou, Y., Bekhta, P. (2023). Eco-Friendly Wood Composites: Design, Characterization and Applications. *Polymers*, 15, 892. <https://doi.org/10.3390/polym15040892>. IF: 4,967 (2021); 5-Year Impact Factor: 5,063. Квартил Q1.
2. Aristri, M.A., Sari, R.K., Lubis, M.A.R., Laksana, R.P.B., Antov, P., Iswanto, A.H., Mardawati, E., Lee, S.H., **Savov, V.**, Kristak, L., Papadopoulos, A.N. (2023). Eco-Friendly Tannin-Based Non-Isocyanate Polyurethane Resins for the Modification of Ramie (*Boehmeria nivea* L.) Fibers. *Polymers*, 15, 1492. <https://doi.org/10.3390/polym15061492>. IF: 4,967 (2021); 5-Year Impact Factor: 5,063. Квартил Q1.
3. **Savov, V.**, Valchev, I., Antov, P., Yordanov, I., Popski, Z. (2022). Effect of the Adhesive System on the Properties of Fiberboard Panels Bonded with Hydrolysis Lignin and Phenol-Formaldehyde Resin. *Polymers*, 14, 1768. MDPI. ISSN 2073-4360. <https://doi.org/10.3390/polym14091768>. IF: 4,967 (2021); 5-Year Impact Factor: 5,063. Квартил Q1.
4. Valchev, I., Yordanov, Y., **Savov, V.**, Antov, P. (2022). Optimization of the Hot-Pressing Regime in the Production of Eco-Friendly Fibreboards Bonded with Hydrolysis Lignin. *Periodica Polytechnica Chemical Engineering*, 66(1), pp. 125-134. Published Online 26.11.2021. ISSN 1587-3765. <https://doi.org/10.3311/PPch.18284>. IF: 1,571, 5-Year IF: 1,680. Квартил Q3.
5. Shahavi, M. H., Selakjani, P. P., Abatari, M. N.; Antov, P., **Savov, V.** (2022). Novel Biodegradable Poly (Lactic Acid)/Wood Leachate Composites: Investigation of Antibacterial, Mechanical, Morphological, and Thermal Properties. *Polymers*, 14, 1227. MDPI. ISSN 2073-4360. <https://doi.org/10.3390/polym14061227>. IF: 4.967 (2021); 5-Year Impact Factor: 5.063. Квартил Q1.
6. Solihat, N. N., Santoso, E. B., Karimah, A., Madyaratri, E. W., Sari, F. P.; Falah, F., Iswanto, A. H., Ismayati, M., Lubis, M.A.R.; Fatriasari, W., Antov, P., **Savov, V.**, Gajtanska, M., Syafii, W. (2022). Physical and Chemical Properties of *Acacia mangium* Lignin Isolated from Pulp Mill Byproduct for Potential Application in Wood Composites. *Polymers*, 14, 491. MDPI. ISSN 2073-4360. <https://doi.org/10.3390/polym14030491>. IF: 4.967 (2021); 5-Year Impact Factor: 5.063. Квартил Q1.
7. Iswanto, A.H., Madyaratri, E.W., Hutabarat, N.S., Zunaedi, E.R., Darwis, A., Hidayat, W., Susilowati, A., Adi, D.S., Lubis, M.A.R., Sucipto, T., Fatriasari, W., Antov, P. **Savov, V.**, Hua, L. S. (2022). Chemical, Physical, and Mechanical Properties of Belangke Bamboo (*Gigantochloa pruriens*) and Its Application as a Reinforcing Material in Particleboard Manufacturing. *Polymers*, 14, 3111. MDPI. ISSN 2073-4360. <https://doi.org/10.3390/polym14153111>. IF: 4.967 (2021); 5-Year Impact Factor: 5.063. Квартил Q1.
8. Kristak, L., Antov, P., Bekhta, P., Libis, M. A. R., Iswanto, A. H., Reh, R., Sedliacik, J.,

- Savov, V.**, Taghiyari, H. R., Papadopoulos, A. N., Pizzi, A., Hejna, A. (2022). Recent progress in ultra-low formaldehyde emitting adhesive systems and formaldehyde scavengers in wood-based panels: a review. *Wood Materials Science and Engineering*. Taylor and Francis Publishing House. ISSN 1748-0272. <https://doi.org/10.1080/17480272.2022.2056080>. IF: 2.732 (2021); 5-Year Impact Factor: 2.353. Квартил Q1.
9. Bhakri, S., Ghozali, M., Cahyono, E., Triwulandari, E., Restu, W. K., Solihat, N., N., Iswanto A. H., Antov, P., **Savov, V.**, Hua, L. H., Agustiany, E., A., Kristak, L., Fatriasari, W. (2022). Development and Characterization of Eco-Friendly Non-Isocyanate Urethane Monomer from *Jatropha curcas* Oil for Wood Composite Applications. *Journal of Renewable Materials*, 11(1), 41–59. ISSN 2164-6341. <https://doi.org/10.32604/jrm.2022.023151>. IF: 2.115 (2021); Квартил Q3.
 10. Mihajlova, J., **Savov, V.** (2022). Effect of the content of Corn Stalk Fibres and Additional Heat Treatment on Properties of Eco-friendly Fibreboards Bonded with Lignosulphonate. *Drewno* 65 (209). ISSN 1644-3985. <https://doi.org/10.12841/wood.1644-3985.395.06>. IF: 1,00. Квартил Q3.
 11. Taib., M. N. A. M., Antov, P., **Savov, V.**, Fatriasari, W., Madyaratri, E. W., Wirawan, R., Osvaldová, L. M., Hua, L. S., Ghani, M. A. A., Osman Al Edrus, S. S. A., Chen, L. W., Trache, D., Hussin, H. (2022). Current progress of biopolymer-based flame retardant. *Polymer Degradation and Stability*, 205, 110153. ISSN 0141-3910. <https://doi.org/10.1016/j.polymdegradstab.2022.110153>. IF: 5,204. Квартил Q1.
 12. Hussin, M., H., Abd Latif, N. H., Hamidon, T. Sh., Idris, N. N., Hashim, R., Appaturi, J. N., Brosse, N., Ziegler-Devin, I., Chrusiel, L., Fatriasari, W., Syamani, F. A., Iswanto, A. H., Hua, L. S., Al Edrus, S. S. A. O., Lum, W. Ch., Antov, P., **Savov, V.**, Lubis, M. A. R., Kristak, L., Reh, R., Sedliavcik, J. (2022). Latest advancements in high-performance bio-based wood adhesives: A critical review. *Journal of Material Research and Technology*, 21, pp. 3909-3946. Elsevier, ISSN 2238-7854. <https://doi.org/10.1016/j.jmrt.2022.10.156>. IF: 6.267; CiteScore 5.9. Квартил Q1.
 13. Antov, P., **Savov, V.**, Mantanis, G.I., Neykov, N. (2021). Medium-density Fibreboards Bonded with Phenol-Formaldehyde Resin and Calcium Lignosulfonate as an Eco-friendly Additive. *Wood Material Science and Engineering*, 16(1), pp.42-48. Taylor & Francis publishing house. ISSN 1748-0280. <https://doi.org/10.1080/17480272.2020.1751279>. IF 1,265.
 14. Antov, P. **Savov, V.**, Krišťák, Ľ., Réh, R., Mantanis, G. I. (2021). Eco-Friendly, High-Density Fiberboards Bonded with Urea-Formaldehyde and Ammonium Lignosulfonate. *Polymers* 13 (2):220. ISSN 2073-4360. <https://doi.org/10.3390/polym13020220>. IF 4.329. 5-Year IF: 4,493. Квартил Q1.
 15. Antov, P., **Savov, V.**, Trichkov, N., Krišťák, Ľ., Réh, R., Papadopoulos, A. N., Taghiyari, H. R., Pizzi, A., Kunecová, D., Pachikova, M. (2021). Properties of High-Density Fiberboard Bonded with Urea-Formaldehyde Resin and Ammonium Lignosulfonate as a Bio-Based Additive. *Polymers* 13 (6), 2775. ISSN 2073-4360. <https://doi.org/10.3390/polym13162775>. IF 4,329. 5-Year IF: 4,493. Квартил Q1.
 16. Antov, P. **Savov, V.**, Krišťák, Ľ., Neykov, N. (2021). Effect of Hot Pressing Parameters on the Properties of Hardboards Produced from Mixed Hardwood Tree Species. *Wood Research* 66(3), pp. 437-438. e-ISSN 2729-8906. <https://doi.org/10.37763/wr.1336-4561/66.3.437448>. IF: 0.688; 5-Year IF: 0,785. Квартил Q2.
 17. Réh, R., Krišťák, Ľ., Sedliavcik, J., Bekhta, P., Božiková, M., Kunecová, D., Vozárová, V., Tudor, E.M., Antov, P., **Savov, V.** (2021). Utilization of Birch Bark as an Eco-Friendly Filler in Urea-Formaldehyde Adhesives for Plywood Manufacturing. *Polymers* 13 (4):511. ISSN 2073-4360. <https://doi.org/10.3390/polym13040511>. IF 4.329. 5-Year IF: 4,493. Квартил Q1.
 18. Antov, P., Krišťák, Ľ., Réh, R., **Savov, V.** Papadopoulos, A. N. (2021). Eco-Friendly

- Fiberboard Panels from Recycled Fibers Bonded with Calcium Lignosulfonate. *Polymers* 13 (4), 639. ISSN 2073-4360. <https://doi.org/10.3390/polym13040639>. IF 4,329. 5-Year IF: 4,493. Квартил Q1.
19. Bekhta P., Noshchenko G., Réh R., Kristak L., Sedliačik J., Antov P., Mirski R., **Savov V.** (2021). Properties of Eco-Friendly Particleboards Bonded with Lignosulfonate-Urea-Formaldehyde Adhesives and pMDI as a Crosslinker. *Materials*. 14(17), 4875. ISSN 1996-1944. <https://doi.org/10.3390/ma14174875>. IF 3,623, 5 Year IF: 3,920. Квартил Q1.
 20. Handika, S.O., Lubis, M.A.R., Sari, R.K., Laksana, R.P.B., Antov, P., **Savov, V.**, Gajtanska, M., Iswanto, A. H. (2021). Enhancing Thermal and Mechanical Properties of Ramie Fiber via Impregnation by Lignin-Based Polyurethane Resin. *Materials* 14 (7), 6858. ISSN 1996-1944. <https://doi.org/10.3390/ma14226850>. IF: 3.623, 5 Year IF: 3.920. Квартил Q1.
 21. **Savov, V.**, Antov, P. (2020). Engineering the Properties of Eco-Friendly Medium Density Fibreboards Bonded with Lignosulfonate Adhesive. *Drvna Industrija* 71 (2), pp. 157-162. ISSN 0012-6772. <https://doi.org/10.5552/drvind.2020.1968>. IF 0,830. SJR 0,284. Квартил Q3.
 22. Antov, P., **Savov, V.**, Neykov, N. (2020). Sustainable Bio-Based Adhesives for Eco-Friendly Wood Composites – A review. *Wood Research* 65 (1), pp. 51-62. ISSN 1336-4561. <https://doi.org/10.37763/wr.1336-4561/65.1.051062>. IF 0,740. Квартил Q2.
 23. Antov, P., Mantanis, G.I., **Savov, V.** (2020). Development of Wood Composites from Recycled Fibres Bonded with Magnesium Lignosulfonate. *Forests* 11(6), 613. MDPI, ISSN 1999-4907. <https://doi.org/10.3390/fl11060613>. IF 2.221, 5 Year IF 2,804. Квартил Q1.
 24. Antov, P., Jivkov, V., **Savov, V.**, Simeonova, R., Yavorov, N. (2020). Structural Application of Eco-Friendly Composites from Recycled Wood Fibres Bonded with Magnesium Lignosulfonate. *Applied Science*, 10(21), 7526. MDPI, ISSN 2076-3417. <https://doi.org/10.3390/app10217526>. IF 2.474, 5 Year IF 2,736. Квартил Q1.

2. Публикации в научни списания, реферирани и индексирани в световноизвестни бази данни с научна информация (Web of Science и Scopus) – 10 бр.

25. **Savov, V.**, Angelski, D. (2022). Effect of Lignosulfonate Content on the Adhesive Strength at Veneering of Medium Density Fibreboards. *Innovations in Woodworking Industry and Engineering Design* 11(2), pp. 45-50. ISSN 1314-6149. Индексирано в Web of Science; CABI.
26. **Savov, V.**, Grigorov, R., Alexandrov, S. (2022). Properties of Particleboards with the Participation of Hemp and Vine Particles in the Core Layer – Part II: Optimisation of the Composition. *Innovations in Woodworking Industry and Engineering Design* 11 (2), pp. 51-60. ISSN 1314-6149. Индексирано в Web of Science; CABI.
27. Panchev, Ch., **Savov, V.** (2022). Recycling of Medium Density Fibreboards – A Review. *Innovations in Woodworking Industry and Engineering Design* 1 (21), pp. 39-46. ISSN 1314-6149. Индексирано в Web of Science; CABI.
28. Grigorov, R., **Savov, V.**, Alexandrov, S. (2022). Properties of Particleboards with the Participation of Hemp and Vine particles in the Core Layer – Part I: Effect of the Composition. *Innovations in Woodworking Industry and Engineering Design* 1 (21), pp. 47-56. ISSN 1314-6149. Индексирано в Web of Science; CABI.
29. **Savov, V.**, Antov, P., Trichkov, N. (2021). Properties of Hight-Density Fibreboards Bonded with Urea-Formaldehyde and Phenol-Formaldehyde Resins. *Innovations in Woodworking Industry and Engineering Design* 2 (20), pp. 17-26. ISSN 1314-6149. Индексирано в Web of Science; CABI.
30. **Savov, V.**, Mihajlova, J., Yotov, N., Madjarov, B. (2021). Influence of Hot-Pressing Temperature on Properties of Eco-Friendly Dry-Process Fibreboards with

- Lignosulfonate Adhesive. Innovations in Woodworking Industry and Engineering Design 1 (19), pp. 29-36. ISSN 1314-6149. Индексирано в Web of Science; CABI.
31. **Savov, V.** (2020). Engineering of Selected Properties of Light Medium Density Fibreboards Produced from Hardwood Tree Species. (2020). Innovation in Woodworking Industry and Engineering Design, 1/2020 (17), pp. 53-59. ISSN 1314-6149. Индексирано в Web of Science; CABI.
 32. **Savov, V.,** Valchev, I. Yavorov, N., Sabev, K. (2020). Influence of press factor and additional thermal treatment on technology for production of eco-friendly MDF based on lignosulfonate adhesives. Bulgarian Chemical Communications, Volume 52, Special Issue B, pp.48-52. <https://doi.org/10.34049/bcc.52.B0015>. ISSN 0324-1130. SJR 0,140. Квартил Q4. Индексирано в Web of Science; Scopus.
 33. **Savov, V.,** Mihajlova, J., Grigorov, R. (2019). Selected physical and mechanical properties of combined wood based from wood fibres and sawdust. Innovation of woodworking industry and engineering design. Vol. 8(2), pp. 42-48. ISSN 1314-6249. Индексирано в Web of Science; CABI.
 34. **Savov, V.** Mihajlova, J. Grigorov, R. Molev, E. (2018). Effect of Participation of Vine Fibers on Some Physical and Mechanical Properties of Fibreboards. Innovation in Woodworking Industry and Engineering Design, Vol. VII. pp. 44-52. ISSN 1314-6149. Индексирано в Web of Science; CABI.

3. Публикации в специализирани научни списания, които не са реферирани и индексирани в световноизвестни бази данни с научна информация (Web of Science и Scopus) – 8 бр.

35. Mihailova, J., **Savov, V.,** Grigorov, R. (2019). Utilization of Mass of Industrial Hemp in the production of Medium-density Fibreboards. Journal of Anatolian Environmental and Animal Sciences. Year: 4, No: 4, pp. 679-683., e-ISSN 2548-0006 <https://doi.org/10.35229/jaes.637270>.
36. Antov, P., **Savov, V.,** Neykov, N. (2019). Possibilities for Manufacturing Insulation Boards with Participation of Recycled Lignocellulosic Fibres. Management and Sustainable Development, vol. 75, pp. 72–76. ISSN 1311-4506.
37. Antov, P., **Savov, V.,** Neykov, N. (2018). Influence of the Composition on the Exploitation Properties of Combined Medium Density Fibreboards Manufactured with Coniferous Wood Residues. European Mechanical Science Journal, Vol. 2(4), pp.140-145, e-ISSN 2587-1110. <https://doi.org/10.26701/ems.443891>.
38. Yotov, N., **Savov, V.,** Valchev, I, Petrin, St., Karatotev, V. (2017). Study on possibility for utilization of technical, hydrolysis, lignin, in composition of medium density fiberboard. Innovation in woodworking industry and engineering design. Vol VI 2/2017. pp. 69-74. ISSN 1314-6149.
39. **Savov, V.,** Mihajlova, J. (2017). Influence of the Content of Lignosulfonate on Physical Properties of Medium Density Fiberboard. PRO LIGNO. Vol. 13 № 4/2017. pp. 247-251. ISSN 2069-7430.
40. **Savov, V.,** Mihajlova, J. (2017). Influence of the Content of Lignosulfonate on Mechanical Properties of Medium Density Fiberboard. PRO LIGNO. Vol. 13 № 4/2017. pp. 2252-256. ISSN 2069-7430.
41. Antov, P., **Savov, V.,** Neykov, N. (2017). Utilization of Agricultural Waste and Wood Industry Residues in the Production of Natural Fiber – Reinforced Composite Materials. International Journal – Wood, Design & Technology, Vol. 6, No. 1, pp 64-71. ISSN 1857 – 9140.
42. Mihajlova, J. **Savov, V.** (2017). Analysis of Possibilities for Utilization of Agricultural Lignocellulosic Residuals as Alternative Raw Material for Production of Medium-Density Fibreboards (MDF). International Journal – Wood, Design & Technology, Vol. 6, No. 1, pp. 38-48. ISSN 1857 – 9140.

4. Публикации в сборници от научни конференции – 7 бр.

43. Neykov, N., Antov, P. **Savov, V.** (2020). Circular Economy Opportunities for Economic Efficiency Implement in Wood-Based Panel Industry. Proceedings of the 11th International Scientific Conference “Business and Management 2020” May 7–8, 2020, Vilnius, Lithuania, pp. 8-17. <https://doi.org/10.3846/bm.2020.493>. ISBN 978-609-476-231-4.
44. Antov, P., **Savov, V.**, Neykov, N. (2020). Reduction of Formaldehyde Emission from Engineered Wood Panels by Formaldehyde Scavengers – a Review. Proceedings of the 13th International Scientific Conference WoodEMA2020 and 31st International Scientific Conference ICWST 2020 “Sustainability of Forest-Based Industries in the Global Economy”, pp.289-294. ISBN 978-953-57822-8-5.
45. Valchev, I., **Savov, V.**, Yordanov, I. (2020). Reduction of Phenol Formaldehyde Resin Content in Dry-Processed Fibreboards by Adding Hydrolysis Lignin. Proceedings of the 2020 Society of Wood Science and Technology International Convention “Renewable Resources for Sustainable and Healthy Future”. July 12-15 Portoroz, Slovenia, pp. 592-602. ISBN 978-1-73404-850-6.
46. Antov, P., **Savov, V.** (2019). Possibilities for Manufacturing Eco-friendly Medium Density Fibreboards from Recycled Fibres – a Review. Proceedings of 30th International Conference on Wood Science and Technology - ICWST 2019 “IMPLEMENTATION OF WOOD SCIENCE IN WOODWORKING SECTOR” & 70th Anniversary of Drvna industrija Journal, 12th – 13th December, Zagreb, Croatia, pp. 18-24. ISBN 978-953-292-062-8.
47. Mihajlova, J. **Savov, V.**, Grigorov, R. (2018). Effect of Participation of Mass of Maize Stalks on Some Physicomechanical Indicators of Medium-density Fibreboards (MDF). Proceedings of the International Forest Products Congress Trabzon, Turkey, 26-29 September 2018. ORENKO 2018 Paper ID. 85. pp. 425-433. ISBN: 978-605-2271-32-2.
48. **Savov, V.**, Ivanova, J. (2016). Influence of the content of corn stalks and phenol-formaldehyde resin on some physical and mechanical properties of very hard fibreboards. Proceedings of 10th international science conference “Chip and chipless woodworking processes”, pp 171-179. 08-10 September 2016, Zvolen, Slovakia. ISBN 978-80-228-2143-8 .

5. Публикувана глава от колективна монография – 1 бр.

49. **Savov, V.** (2023). Nanomaterials to Improve Properties in Wood-Based Composite Panels. In: Taghiyari, H.R., Morrell, J.J., Husen, A. (eds) Emerging Nanomaterials. Springer, Cham. pp. 135-155. ISBN 978-3-031-17377-6. https://doi.org/10.1007/978-3-031-17378-3_5.

6. Публикуван университетски учебник – 1 бр.

50. Савов, В. (2021). Учебник по Технология на материалите от дървесни влакна. Интел Ентранс, стр. 290. ISBN 978-619-7554-86-1. Рецензенти – проф. д-р Иво Владимиров Вълчев; доц. д-р Петър Йорданов Антов.

7. Публикувано университетско пособие – 1 бр.

51. Савов, В. (2020). Ръководство за упражнения по Технология на материалите от дървесни влакна. Интел Ентранс, стр. 102. ISBN 978-619-7554-05-2. Рецензенти – проф. д-р Николай Асенов Йосифов; доц. д-р Иво Владимиров Вълчев.

ОБОБЩЕНА СПРАВКА

за публикациите след придобиването на академичната длъжност „доцент“

Общ брой на публикациите – 51 броя.

1. Публикации в списания с импакт фактор (Web of Science) – **24 броя.**
2. Публикации в научни списания, реферирани и индексирани в световноизвестни бази данни с научна информация (Web of Science и Scopus) – **10 броя.**
3. Публикации в специализирани научни списания, които не са реферирани и индексирани в световноизвестни бази данни с научна информация (Web of Science и Scopus) – **8 броя.**
4. Публикации в сборници от научни конференции – **6 броя.**
5. Публикувана глава от колективна монография – **1 брой.**
6. Университетски учебник – **1 брой.**
7. Публикувано университетско пособие – **1 брой.**

Равностойни публикации на монография

Избрани са 10 броя научни публикации в издания, които са реферирани и индексирани в световноизвестни бази данни с научна информация (Web of Science и/или Scopus): **публикации №. 1, 3, 12, 13, 14, 20, 21, 24, 29, 31.**

27.04.2023 г.

Изготвил:.....

/доц. д-р инж. Виктор Савов/