

Lista a maximum 10 publicații, brevete sau alte lucrări, considerate a fi cele mai relevante

1. **Petre, I.M.**, Nobari, H., Boscoianu, M., Pelin, B., Ionescu, A., Prieto Gonzalez, P., Oliveira, R., Oancea, B. Differences in knee flexor and extensor force and kinematic variables in rural versus urban area female students in Romania, *Front. Physiol.* 2024
<https://doi.org/10.3389/fphys.2024.1152119>
2. Găvrus, C., **Petre, I.**, Parv, L., Industry 4.0 - Premise for Sustainability. Implementation Degree in Manufacturing Companies from Romania, *Sustainability* 2024, EISSN 2071-1050, 16(2), 807.
<https://www.mdpi.com/2071-1050/16/2/807>
3. Stanciu, E.M., Pascu, A., Croitoru, C., Roată, I.C., Cristea, D., Tiorean, M.H., Hulka, I., **Petre, I.M.**, Mirza Rosca, J.C., Functional Surfaces via Laser Processing in Nickel Acetate Solution, *Materials* 2023, 16 (8), 3087
<https://www.mdpi.com/1996-1944/16/8/3087>
4. Iagăru, P., Boșcoianu, M., Cioca, I.L., **Petre, I.M.**, Pop, S., Sârbu, F.A., Iagăru, R., Critical Analysis of mini unmanned aerial vehicles (UAV) development capabilities and perspectives of effective integration in horticultural agroecosystems in Romania, *Scientifica Papers Series Management, Economic Engineering in Agriculture and Rural Development* 2023, 23(1), 293-302, ISSN 2284-7995, EISSN 2285-3952
https://managementjournal.usamv.ro/pdf/vol.23_1/Art33.pdf
5. **Petre, I.M.**; Boscoianu, M.; Oancea, B.; Chicomban, M.; Turcu, I.; Simion, G. Analysis of the Physiognomy of Unique Sets in the Maximum Number of Repetitions Strategy—The Case of One-Arm Scott Machine Seated Bicep Curls. *Appl. Sci.* 2022, 12, 8308. EISSN 2076-3417
<https://doi.org/10.3390/app12168308>
<https://www.mdpi.com/2076-3417/12/16/8308>
6. **Petre, I.M.** Studies regarding the Use of Pneumatic Muscles in Precise Positioning Systems. *Appl. Sci.* 2021, 11, 9855. EISSN 2076-3417
<https://doi.org/10.3390/app11219855>
<https://www.mdpi.com/2076-3417/11/21/9855>
7. Roata, I.C., Croitoru, C., Pascu, A., Stanciu, E.M., Hulka, I., **Petre, I.**, Gabor, C., Patroi, D., Sbarcea, B.G., Surface engineering of Ni-Al coatings through concentrated solar heat treatment, *Applied Surface Science* 2020, 506, 144185 DOI: 10.1016/j.apsusc.2019.144185
<https://www.sciencedirect.com/science/article/pii/S0169433219330016?via%3Dihub>

8. **Petre I.**, Deaconescu A., Sarbu F., Deaconescu T., Pneumatic Muscle Actuated Wrist Rehabilitation Equipment Based on the Fin Ray Principle, STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING, vol 64. Issue 6, 2018, pp. 383 – 392, ISSN 0039-2480
ISSN 2536-2948 (online)
<https://www.sv-jme.eu/article/pneumatic-muscle-actuated-wrist-rehabilitation-equipment-based-on-the-fin-ray-principle/>
9. **Petre I.M.**, Găvruş, C., Influence of the cutting force upon machining process efficiency, Materials Today: Proceedings, 2022, ISSN 2214-7853, 10.1088/1757-899X/1009/1/012047
<https://doi.org/10.1016/j.matpr.2022.10.063>
10. Petre, I., Pop, S., Boscoianu, M., Engineering and Management of the Precision Treatments Spraying System Implementation on Horticultural Crops, RECENT Journal 2023, 71, 249-255.
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