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Facultatea: Ingineria Sistemelor Biotehnice
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Gradul didactic: Conferențiar

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Constantin Gabriel-Alexandru, *Cercetări privind procesul de cernere și sortare a fracțiilor de măcinș într-o moară industrială*, Conducător științific Prof.univ.dr. ing. Gheorghe VOICU, susținere publică 25.04.2014, titlu de doctor în domeniul Inginerie Mecanică din 15.07.2014.

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. Voicu Gheorghe, Ștefan Elena-Mădălina, **Constantin Gabriel-Alexandru**, Voicu Paula, *Tehnologii de prelucrare a produselor agricole (Materiale și culegere de materiale pentru uzul studenților)*, Editura "Terra Nostra" Iași, 2013, ISBN 978-606-623-024-7, 344 pag., Cod CNCISIS 29.
2. Voicu Gh., Biriș S.S., Ștefan E.M., **Constantin G.A.**, Ungureanu N. - *Grinding characteristics of wheat in industrial mills*, Chapter 15 in Food Industry Book, Edited by InTech Europe, University Campus STeP Ri, Rijeka, Croația, <http://www.intechopen.com/books/food-industry> (publicat pe 16.01.2013), ISBN 978-953-51-0911-2, p.: 323-354.
3. STOICA Dorel, **CONSTANTIN Gabriel-Alexandru**, *Noțiuni de cinematică și dinamică*, Ed. Matrix Rom, 2017, ISBN 978-606-25-0337-6, 150 pag., Cod CNCISIS: 39.
4. **CONSTANTIN Gabriel-Alexandru**, *Sisteme CAD – îndrumar de laborator*, Ed. Politehnica Press, 2021, ISBN 978-606-515-974-7, 183 pag.
5. Gheorghe VOICU (coordonator), **Gabriel-Alexandru CONSTANTIN**, Elena-Mădălina ȘTEFAN, Mariana-Gabriela MUNTEANU, *Procese și utilaje pentru morărit*, Ed. Politehnica Press, 2023, ISBN 978-606-9608-56-2, 326 pag.
6. **Gabriel-Alexandru CONSTANTIN**, Gheorghe VOICU, Elena-Mădălina ȘTEFAN, *Aspecte teoretice și experimentale privind procesul de sortare prin cernere a măcinșurilor în unitățile de morărit industriale*, Ed. Matrix Rom, 2024, ISBN 978-606-25-0861-6, 399 pag.

C. Articole în reviste cotate ISI Thomson Reuters și în volume indexate ISI proceedings

1. **Constantin, G.-A.**; Munteanu, M.-G.; Voicu, G.; Paraschiv, G.; Ștefan, E.-M. An Analysis of Air Flow in the Baking Chamber of a Tunnel-Type Electric Oven. *Computation* (**FI₂₀₂₂ = 2,200**) 2023, 11(12), 236; <https://doi.org/10.3390/computation11120236>, WOS:001130775800001; <https://jcr.clarivate.com/jcr-jp/journal-profile?journal=COMPUTATION&year=2022>

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2. Rusănescu C.O., Rusănescu M., **Constantin G.A. (autor corespondent)**, *Wastewater Management in Agriculture*, Water (**FI**₂₀₂₂ = **3,4**) 2022, 14, 3351. <https://doi.org/10.3390/w14213351>, WOS:000881696900001; <https://jcr.clarivate.com/jcr-jp/journal-profile?journal=WATER-SUI&year=2022>
 3. Rusănescu, C.O.; Rusănescu, M.; Istrate, I.A.; **Constantin, G.A (autor corespondent)**, Begea M.. The Effect of Dust Covering on the Performance of Photovoltaic Panels. *Energies* (**FI**₂₀₂₂ = **3,2**) ISSN: 1996-1073, 2023, 16, 6794. <https://doi.org/10.3390/en16196794>, WOS:001082988900001, <https://jcr.clarivate.com/jcr-jp/journal-profile?journal=ENERGIES&year=2022>;
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 5. Gh. Voicu, **G.A. Constantin (autor corespondent)**, A. Saracin, *Simulation of mechanical behaviour in milling and polishing of dental polymeric (resin) composites*, Revista de Materiale Plastice (**FI**₂₀₁₈ = **1,393**), Vol. 55, no. 3, September 2018, p. 308-314. , ISSN 0025-5289, WOS:000452711500012, <https://jcr.clarivate.com/jcr-jp/journal-profile?journal=MATER%20PLAST&year=2018>
 6. Lazea M, **G.A. Constantin (autor corespondent)**, Stoica D., Voicu Gh., FEM STRUCTURAL ANALYSIS FOR WEAR PARTS SUPPORTING COUNTERPRESSURE PLATE FROM A MUNICIPAL SOLID WASTE TRUCK, Romanian Journal of Materials (**FI**₂₀₂₂=**0,7**), ISSN 2457-502X, 2020, 50 (2), 283 – 293, WOS:000538152900016, <https://jcr.clarivate.com/jcr-jp/journal-profile?journal=REV%20ROM%20MATER&year=2022>
 7. Dorel S., Voicu Gh., **Constantin G. A.**, Carp-Ciocărdia C., Moise V. - *Kinematic study of a vibrating conical sieve for separating impurities from seed of agricultural crop*, Proceedings of the 41. International Symposium on Agricultural Engineering, Opatija, Croatia, 2013, p: 290-300, ISSN 1848-4425, WOS:000324234600029
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 9. E-M Ștefan, Gh. Voicu, G. Ipate, **G-A. Constantin**, *Mathematical model to estimate the energy consumption at wheat grinding with roller mills*, Proceedings of the 41. International Symposium on Agricultural Engineering. Actual Tasks on Agricultural Engineering, 19th – 22th February, Opatija, Croația 2013, Vol.41, Nr.1, pp. 279-289, ISSN 1848-4425, WOS:000324234600028
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12. Gh. Voicu, **G.A. Constantin**, B. Plosceanu, E.M. Ștefan, P. Voicu, D. Stoica, *Vibratory movement analysis of plansifters from milling plants*, Proceedings of the 43. International Symposium on Agricultural Engineering, Opatija, Croatia, 2015, p: 395-404, ISSN 1848-4425, WOS:000373450700035
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 17. G. Moiceanu, Gh. Voicu, G. Paraschiv, M. Dinca, M. Ferdes, M. Chitoiu, **G.A. Constantin**, G. Musuroi, *Energy consumption to the formation of solid-liquid system based on vegetal biomass*, Proceedings of the 43. International symposium on agricultural engineering, Opatija, Croatia, 2015, p: 645-656, ISSN 1848-4425, WOS:000373450700059
 18. Gh. Voicu, E.M. Ștefan, **G.A. Constantin**, P.Tudor, Gh. Constantin, *The relationship between dough consistency and its development time, farinographic curves analysis*, Proceedings of the 44th International Symposium "Actual Tasks on Agricultural Engineering", Croatia, Opatija, 2016, p.370-379, ISSN 1848-4425, WOS:000432240900033
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 21. **G.A. Constantin**, G. Ipate, Gh. Voicu, G. Mușuroi, M.G. Munteanu, M. Dragomir, *Evaluation of hand-arm vibration transmitted during soil tillage based on Arduino and MPU9250 motion sensor*, Proceedings of the 46th International Symposium "Actual Tasks on Agricultural Engineering", Croatia, Opatija, 2018, p.99-106, ISSN 1848-4425, WOS:000506355900009
 22. M.G. Munteanu, Gh. Voicu, G. Ipate, N. E. Gheorghică, **G.A. Constantin**, I.C. Duțu, I.A. Istrate, *Aspects regarding the flow of the mixture flour-water at different temperatures, through small diameter channels*, Proceedings of the 46th International Symposium "Actual Tasks on

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 24. Elena-Madalina Stefan, Gheorghe Voicu, **Gabriel-Alexandru Constantin (autor corespondent)**, George Ipate, Mariana Munteanu, *Effect of whole buckwheat flour on technological properties of wheat flour and dough*, 17th International Scientific Conference ENGINEERING FOR RURAL DEVELOPMENT Proceedings, Volume 17 May 23-25, 2018, Jelgava, LATVIA, ISSN 1691-5976, p. 1533-1538, WOS:000805412200234
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 26. **G.A. CONSTANTIN (autor corespondent)**, Gh. VOICU, G. IPATE, G. MUŞUROI, E.M. STEFAN, M.G. MUNTEANU, D. STOICA, *Influence of motion type on granulometric distribution of grist obtained from some varieties of wheat and corn*, Proceedings of the 47th International Symposium “Actual Tasks on Agricultural Engineering”, Croatia, Opatija, 2019, p.409-417, ISSN 1848-4425, WOS:000472729500042
 27. Gheorghe Voicu, **Gabriel-Alexandru Constantin (autor corespondent)**, Petru Cardei, Ion Cristian Poenaru, *Theoretical and experimental research in fuel consumption at miscanthus rhizomes planting*, 18th International Scientific Conference ENGINEERING FOR RURAL DEVELOPMENT Proceedings, May 22-24, 2019, Jelgava, LATVIA, ISSN 1691-5976, p. 284-290, DOI: 10.22616/ERDev2019.18.N403, WOS:000482103500040
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 30. Mariana Gabriela Munteanu, Gheorghe Voicu, Elena Mădălina Ştefan and **Gabriel Alexandru Constantin**, *Determination of extensibility for certain types of pretzels dough*, E3S Web of Conferences 112, ISSN: 2267-1242, 03029 (2019), 8 pages <https://doi.org/10.1051/e3sconf/201911203029>, WOS:000619989000062
 31. Gabriela-Mariana Munteanu, Gheorghe Voicu, Mariana Ferdeş, Elena-Mădălina Ştefan, **Gabriel-Alexandru Constantin**, Paula Tudor - *DYNAMICS OF FERMENTATION PROCESS OF BREAD DOUGH PREPARED WITH DIFFERENT TYPES OF YEAST*, Scientific Study & Research Chemistry & Chemical Engineering, Biotechnology, Food Industry (**FI**₂₀₂₂=**0,3**), ISSN 1582-540X, 2019, 20 (4), pp. 575 – 584, WOS:000502846500007, <https://jcr.clarivate.com/jcr-jp/journal-profile?journal=SCI%20STUDY%20RES-CHEM%20C&year=2022>

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 39. Bianca-Stefania ZABAVA, Gheorghe VOICU, Paula TUDOR, Mariana FERDES, **Gabriel-Alexandru CONSTANTIN**, VARIATION OF TURBIDITY OF LIQUID-SOLID MIXTURES IN THE WASTEWATER SETTLING PROCESS, Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering. Vol. X, 2021, ISSN 2285-6064, p.: 184-191, WOS:000704605600027
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43. Mariana- Gabriela MUNTEANU, Gheorghe VOICU, **Gabriel-Alexandru CONSTANTIN**, Elena –Mădălina STEFAN, Paula TUDOR, Mihaela NITU, EXPERIMENTAL RESEARCH ON ENERGY CONSUMPTION IN THE LAMINATION AND DRAWING OF DOUGH, INMATEH Agricultural Engineering (**FI₂₀₂₂ = 0,7**), ISSN 2068-4215, Vol. 70, No. 2 / 2023, p.: 147-154, WOS:001055661600001, <https://jcr.clarivate.com/jcr-jp/journal-profile?journal=INMATEH-AGRIC%20ENG&year=2022>
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D. Articole in reviste si volume BDI

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3. Safta V.V., Dilea M., **Constantin G.A.**, - *Algorithm for determination of characteristic parameters of filtering process in granular material incompressible layer*, INMATEH, Vol. 43, Nr.2, p. 147-

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5. EUREKA Nr. 331E/2013, „Innovative biofortified bakery products through valorification of brewing by-products” (Asistent cercetare)
6. PN-II-PT-PCCA-2013-4-0221, Contract: 67/2014, „Utilizarea resurselor energetice regenerabile pentru creșterea independenței energetice a miniserelor și solarilor (ENERGSER)” (Asistent cercetare) - buget proiect 1.244.200 RON
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