

List of publications of Attila Kossa

Updated: 11/10/2024

Papers in peer-reviewed international journals (with Impact Factor)

1. Kossa, A., Szabo, L., 2009. Exact integration of the von Mises elastoplasticity model with combined linear isotropic-kinematic hardening. *International Journal of Plasticity* 25, 1083-1106.
DOI: 10.1016/j.ijplas.2008.08.003, IF=4.791, SJR=3.32 Q1(WOS).
2. Kossa, A., Szabo, L., 2010. Numerical implementation of a novel accurate stress integration scheme of the von Mises elastoplasticity model with combined linear hardening. *Finite Elements in Analysis and Design* 46, 391-400.
DOI: 10.1016/j.finel.2009.12.006, IF=1.030, SJR=0.928 Q1(WOS).
3. Szabo, L., Kossa, A., 2012. A new exact integration method for the Drucker-Prager elastoplastic model with linear isotropic hardening. *International Journal of Solids and Structures* 49, 170-190.
DOI: 10.1016/j.ijsolstr.2011.09.021, IF=1.871, SJR=1.476 Q1(WOS).
4. Kossa, A., 2015. A new biaxial compression fixture for polymeric foams. *Polymer Testing* 45, 47-51.
DOI: 10.1016/j.polymertesting.2014.08.003, IF=2.350, SJR=0.947 Q1(WOS).
5. Berezvai, Sz., Kossa, A., 2016. Effect of the skin layer on the overall behavior of closed-cell polyethylene foam sheets. *Journal of Cellular Plastics* 52, 215-229.
DOI: 10.1177/0021955X15575801, IF=1.979, SJR=0.761 Q1(WOS).
6. Kossa, A., Berezvai, Sz., 2016. Novel strategy for the hyperelastic parameter fitting procedure of polymer foam materials. *Polymer Testing* 53, 149-155.
DOI: 10.1016/j.polymertesting.2016.05.014, IF=2.464, SJR=0.82 Q1(WOS).
7. Berezvai, Sz., Kossa, A., 2017. Closed-form solution of the Ogden-Hill's compressible hyperelastic model for ramp loading. *Mechanics of Time-Dependent Materials* 21, 262-286.
DOI: 10.1007/s11043-016-9329-5, IF=1.364, SJR=0.497 Q2(WOS).
8. Kossa, A., 2017. Closed-form stress solutions for incompressible viscohyperelastic solids in uniaxial extension. *Zeitschrift für Angewandte Mathematik und Mechanik* 97, 1268-1282.
DOI: 10.1002/zamm.201600182, IF=1.296, SJR=0.604 Q2(WOS).

9. Berezvai, Sz., Kossa, A., Bachrathy, D., Stepan, G., 2018. Numerical and experimental investigation of the applicability of pellet impacts for impulse excitation. *International Journal of Impact Engineering* 115, 19-91.
DOI: 10.1016/j.ijimpeng.2018.01.006, IF=3.173, SJR=1.802 Q1(WOS).
10. Hensel, R., McMeeking, R. M., Kossa, A., 2019. Adhesion of a rigid punch to a confined elastic layer revisited. *Journal of Adhesion* 95, 44-62.
DOI: 10.1080/00218464.2017.1381603, IF=2.576 Q2 , SJR=0.738 Q1(WOS).
11. Berezvai, Sz., Kossa, A., 2020. Performance of a parallel viscoelastic-viscoplastic model for a microcellular thermoplastic foam on wide temperature range. *Polymer Testing* 84, April 2020, 106395.
DOI: 10.1016/j.polymertesting.2020.106395, IF=4.282 Q1(WOS).
12. Kossa, A., McMeeking, R.M., 2021. Bending of a Nitinol Cantilever and its Fatigue Performance. *Extreme Mechanics Letters* 42, January 2021, 101083.
DOI: 10.1016/j.eml.2020.101083, IF=4.728 Q1(WOS).
13. Samri, M., Kossa, A., Hensel, R., 2021. Effect of subsurface microstructures on adhesion of highly confined elastic films. *Journal of Applied Mechanics*, Mar 2021, 88(3): 031009 (9 pages).
DOI: 10.1115/1.4049182, IF=2.794 Q2(WOS).
14. Kossa, A., Horváth, A. L., 2021. Powerful calibration strategy for the two-layer viscoplastic model. *Polymer Testing* 99, July 2021, 107206, 1-13.
DOI: 10.1016/j.polymertesting.2021.107206, IF=4.931 D1(WOS).
15. Heczko, J., Kottner, R., Kossa, A., 2021. Rubber ageing at elevated temperature – model calibration. *European Journal of Mechanics / A Solids* 89, August–October 2021, 104320.
DOI: 10.1016/j.euromechsol.2021.104320, IF=4.873 Q1(WOS).
16. Kossa, A., McMeeking, R.M., 2021. The Effect of an Implanted Filter on Valsalva-Compression and Respiratory-Compression of the Inferior Vena Cava. *Journal of Elasticity* 145, 383-408.
DOI: 10.1007/s10659-021-09850-8. IF=1.742 Q3(WOS).
17. Areyano, M., Valois, E., Sanchez, I.C., Rajkovic, I., Wonderly, W.R., Kossa, A., McMeeking, R.M., Waite, H., 2022. Viscoelastic analysis of mussel threads reveals energy dissipative mechanisms. *Journal of the Royal Society Interface* 19: 20210828, 1-10.
DOI: 10.1098/rsif.2021.0828, IF=3.9 Q2.
18. Tomin, M., Kossa, A., Berezvai, Sz., Kmetty, Á., 2022. Investigating the impact behavior of wrestling mats via finite element simulation and falling weight impact tests. *Polymer Testing* Volume 108, April 2022, 107521, 1-10.
DOI: 10.1016/j.polymertesting.2022.107521, IF=5.1 D1(WOS).

19. Kossa, A., Valentine, M.T., McMeeking, R.M., 2023. Analysis of the compressible, isotropic, neo-Hookean hyperelastic model. *Meccanica* 58, 217-232.
DOI: 10.1007/s11012-022-01633-2, IF=1.9 Q3(WOS).
20. Kossa, A., Hensel, R., McMeeking, R.M., 2023. Adhesion of a cylindrical punch with elastic properties that vary radially. *Mechanics Research Communications* 130, 104123, 1-7.
DOI: 10.1016/j.mechrescom.2023.104123, IF=1.9 Q3(WOS).
21. Floch, K., Kossa, A., 2023. Motion Tracker Beta: A GUI based open-source motion tracking application. *SoftwareX* 23, 101424, 1-6.
DOI: 10.1016/j.softx.2023.101424, IF=2.4 Q2(WOS).
22. Virág, Á.D., Juhász, Zs., Kossa, A., Molnár, K., 2024. Combining oscillatory shear rheometry and dynamic mechanical analysis to obtain wide-frequency master curves. *Polymer* 295, 1 March 2024, 126742.
DOI: 10.1016/j.polymer.2024.126742. IF=4.1 Q2(WOS).
23. Fodor, B., Kossa, A., 2024. Stability study of the compressible Mooney-Rivlin hyperelastic model. *Journal of Strain Analysis for Engineering Design* 59, 258-268.
DOI: 10.1177/030932472412337, IF=1.4 Q3(WOS) (2023).
24. Horváth, A.L., Kossa, A., 2024. Stability maps for the slightly compressible poker chip detachment problem. *Finite Elements in Analysis and Design*, Volume 242, December 2024, 104257. DOI: 10.1016/j.finel.2024.104257, IF=3.5 D1(WOS) (2023).

Papers in peer-reviewed international journals (without Impact Factor)

25. Kossa, A., 2007. Integration method for constitutive equation of von Mises elastoplasticity with linear hardening. *Periodica Polytechnica-Mechanical Engineering* 51, 71-75.
DOI: 10.3311/pp.me.2007-2.05, SJR=0.132 Q3.
26. Kossa, A., 2009. Analytical strain solution for the Drucker–Prager elastoplasticity model with linear isotropic hardening. *Periodica Polytechnica Mechanical Engineering* 56, 27-31.
DOI: 10.3311/pp.me.2012-1.05, SJR=0.111 Q4.
27. Kossa, A., Berezvai, Sz., 2016. Visco-hyperelastic Characterization of Polymeric Foam Materials. *Materials Today: Proceedings* 3, 1003-1008.
DOI: 10.1016/j.matpr.2016.03.037, SJR=0.205.

28. Borsos, B., Csorgo, A., Hidas, A., Kotnyek, B., Szabo, A., Kossa, A., Stepan, G., 2017. Two-Dimensional Finite Element Analysis of Turning Processes. *Periodica Polytechnica-Mechanical Engineering* 61, 44-54.
DOI: 10.3311/PPme.9283, SJR=0.247 Q3.
29. Berezvai, Sz., Kossa, A., 2017. Characterization of a thermoplastic foam material with the two-layer viscoplastic model. *Materials Today: Proceedings* 4, 5749-5754.
DOI: 10.1016/j.matpr.2017.06.040, SJR=0.314.
30. Berezvai, Sz., Molnar, T. G., Kossa, A., Bachrathy, D., Stepan, G., 2019. Numerical and experimental investigation of contact length during orthogonal cutting. *Materials Today: Proceedings* 12, 329-334.
DOI: 10.1016/j.matpr.2019.03.131, SJR=0.299 (2018).
31. Kocáb, J., Kottner, R., Kossa, A., 2019. Characterization of a cork-rubber composite using advanced material models. *Materials Today: Proceedings* 12, 340-345.
DOI: 10.1016/j.matpr.2019.03.133, SJR=0.299 (2018).
32. Berezvai, Sz., Kossa, A., K Kiss, A., 2020. Validation method for thickness variation of thermoplastic microcellular foams using punch-tests. *Materials Today: Proceedings* 32, 98-102.
DOI: 10.1016/j.matpr.2020.02.977.
33. Szabo, B., Kossa, A., 2020. Characterization of impacts of elastic-plastic spheres. *Periodica Polytechnica Mechanical Engineering*, 64(2), 165–171.
DOI: 10.3311/PPme.15559, SJR=0.28 (2018) Q3.
34. Bachrathy, D., K Kiss, A., Kossa, A., Berezvai, Sz., Hajdu, D., Stepan, G., 2020. In-Process Monitoring of Changing Dynamics of a Thin-Walled Component During Milling Operation by Ball Shooter Excitation. *Journal of Manufacturing and Materials Processing* 2000 4(3), 78.
DOI: 10.3390/jmmp4030078.
35. Berencsi, B.F., Kossa, A., 2021. Analyzing the effect of temperature on squash ball impacts using high-speed camera recordings. *Periodica Polytechnica Mechanical Engineering* 65(4), pp. 354–362, 2021. SJR=0.259 Q3 (2020).
DOI: 10.3311/PPme.18381.
36. Kossa, A., Berezvai, Sz., Stépán, G., 2022. Mechanical characterization of high-speed rubber ball impacts applied for impulse excitation. *Materials Today: Proceedings* 62(5), 2560-2565.
DOI: 10.1016/j.matpr.2022.03.460, SJR=0.445 (2022).

Papers in peer-reviewed Hungarian journals (without Impact Factor)

37. Kossa, A., 2009. Rugalmas-képlékeny testek anyagegyenleteinek egzakt integrálási módszerei. *Építés - Építészettudomány* 37, 241-264.
DOI: 10.1556/EpTud.37.2009.3-4.3. SJR=0.101 Q3.
38. Kossa, A., 2021. "Double-Network" hidrogélek mechanikai anyagmodellezése. *Biomechanica Hungarica*. XIV. évfolyam, 2. szám, 42-52.
DOI: 10.17489/2021/2/04.
39. Gombos, Á., Kossa, A., 2024. Fotopolimer alapú ektoparazita eltávolító eszköz mechanikai modellezése. *Biomechanica Hungarica* 2024;17(1):24-33.
DOI: 10.17489/biohun/2024/1/601.

Papers in peer-reviewed international conference proceedings

40. Kossa, A., Szabo, L., 2009. Computational aspects of the integration of von Mises elastoplasticity model with combined hardening. X International Conference on Computational Plasticity (COMPLAS), Barcelona, Spain, September 2-4, 2009. ISBN: 978-84-96736-69-6.

International conference talks (plenary, invited, keynote)

41. Kossa, A., 2014. Exact stress integration schemes for elastoplastic constitutive equations. Gabor Kazinczy Memorial Conference, Hungarian Academy of Sciences, Budapest, Hungary, May 12, 2014.
42. Kossa, A., Berezvai, Sz., 2015. Visco-hyperelastic characterization of polymeric foam materials. 32nd International Danubia-Adria Symposium on Advances in Experimental Mechanics (DAS), Starý Smokovec, Slovakia, September 20-25, 2015.
43. Kossa, A., Berezvai, Sz., Stepan, G., 2021. Mechanical characterization of high-speed rubber ball impacts applied for impulse excitation. 37th International Danubia-Adria Symposium on Advances in Experimental Mechanics (DAS), Linz, Austria, September 21-24, 2021.
44. McMeeking, R.M., Kossa, A., 2022. The Effect of an Implanted Filter on Valsalva-Compression and Respiratory-Compression of the Inferior Vena Cava. ociety of Engineering Science Annual Technical Meeting (SES2022). College Station, TX October 16 - 19, 2022.

International conference talks (session talks)

45. Kossa, A., Szabo, L., 2006. Using logarithmic stress rate in computational single crystal elastoplasticity. 35th Solid Mechanics Conference (SOLMECH), Krakow, Poland, September 4-8, 2006.
46. Kossa, A., Szabo, L., 2006. Logarithmic stress rate in single crystal elastoplasticity. 6th European Solid Mechanics Conference (ESMC), Budapest, Hungary, August 28 - September 1, 2006.

47. Kossa, A., Szabo, L., 2009. Computational aspects of the integration of von Mises elastoplasticity model with combined hardening. X International Conference on Computational Plasticity (COMPLAS), Barcelona, Spain, September 2-4, 2009.
48. Kossa, A., 2014. Accurate hyperelastic model fitting procedure for polymeric foam materials. 14th European Mechanics of Materials Conference (EMMC), Gothenburg, Sweden, August 27-29, 2014.
49. Kossa, A., 2014. Effect of the modeling of lateral stretch in the parameter identification algorithm of hyperelastic foam materials. 31st International Danubia-Adria Symposium on Advances in Experimental Mechanics (DAS), Kempten, Germany, September 24-27, 2014.
50. Bachrathy, D., Kossa, A., Stepan, G., 2015. Modeling process damping via FEM based Force-FRF. 4th International Conference on Virtual Machining Process Technology (VMPT), Vancouver, Canada, June 2-5, 2015.
51. Kossa, A., Stepan, G., 2015. Computational aspects of the finite element simulation of chip formation. XIII International Conference on Computational Plasticity (COMPLAS), Barcelona, Spain, September 1-3, 2015.
52. Berezvai, Sz., Kossa, A., 2016. Nonlinear viscoelastic characterization of polymeric foams. VII European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS), Crete, Greece, June 5-10, 2016.
53. Kossa, A., 2016. On the constitutive modelling of elastomeric foams. 24th International Conference of Theoretical and Applied Mechanics (ICTAM), Montreal, Canada, August 21-26, 2016.
54. Kossa, A., Berezvai, Sz., 2016. Characterization of a thermoplastic foam material with the two-layer viscoplastic model. 33rd International Danubia-Adria Symposium on Advances in Experimental Mechanics (DAS), Portorož, Slovenia, September 20-23, 2016.
55. Berezvai, Sz., Kossa, A., Stepan, G., 2017. Nonlinear material modelling of an airsoft pellet applied for impulse excitation. 9th European Nonlinear Dynamics Conference (ENOC), Budapest, June 25-30, 2017.
56. Berezvai, Sz., Kossa, A., Stepan, G., 2017. Investigation of the performance of the two-layer viscoplastic model applied for simulating airsoft ball impacts. XIV International Conference on Computational Plasticity (COMPLAS), Barcelona, Spain, September 5-7, 2017.
57. Kossa, A., Stepan, G., 2017. Investigation of the chip formation using high-speed camera and finite element method. 34th International Danubia-Adria Symposium on Advances in Experimental Mechanics (DAS), Trieste, Italy, September 19-22, 2017.
58. Berezvai, Sz., Kossa, A., Stepan, G., 2017. Nonlinear material modelling of an airsoft pellet applied for impulse excitation. 9th European Nonlinear Dynamics Conference (ENOC), Budapest, Hungary, June 25-30, 2017.
59. Kossa, A., Stepan, G., 2018. Elastic-plastic characterization of 2024-T351 aluminum material based on ring compression test, bending test and uniaxial tension/compression tests. 35th International Danubia-Adria Symposium on Advances in Experimental Mechanics (DAS), Sinaia, Romania, September 25-28, 2018.

60. Kocáb, J., Kottner, R., Kossa, A., 2018. Characterization of a cork-rubber composite using advanced material models. 35th International Danubia-Adria Symposium on Advances in Experimental Mechanics (DAS), Sinaia, Romania, September 25-28, 2018.
61. Berezvai, Sz., Molnar, T. G., Kossa, A., Bachrathy, D., Stepan, G., 2018. Numerical and experimental investigation of contact length during orthogonal cutting. 35th International Danubia-Adria Symposium on Advances in Experimental Mechanics (DAS), Sinaia, Romania, September 25-28, 2018.
62. Kossa, A., 2019. Adhesion of elastic punch to confined elastic layer. 36th International Danubia-Adria Symposium on Advances in Experimental Mechanics (DAS), Pilsen, Czech Republic, September 24-29, 2019.
63. Berezvai, Sz., Kossa, A., Kiss, A.K., 2019. Validation method for thickness variation of thermoplastic microcellular foams using punch tests. 36th International Danubia-Adria Symposium on Advances in Experimental Mechanics (DAS), Pilsen, Czech Republic, September 24-29, 2019.
64. Horváth, A. L., Kossa, A., 2021. Efficient parameter fitting of the two-layer viscoplastic constitutive model. XXVII Conference on Computer Methods in Materials Technology (KomPlasTech), Online Event, Kraków, Poland, March 8-9, 2021.
65. Toth, G., Kossa, A., 2021. Open-source ready-to-use software for high accuracy motion and deformation tracking. 37th International Danubia-Adria Symposium on Advances in Experimental Mechanics (DAS), Linz, Austria, September 21-24, 2021.
66. Kossa, A., 2021. Analysis of the compressible Neo-Hookean isotropic hyperelastic material model. 33rd Nordic Seminar on Computational Mechanics (NSCM-33), Online Seminar, Jönköping, Sweden, 25-26 November, 2021.
67. Horváth, A. L., Kossa, A., 2021. Automated stress singularity calculations with Python scripts in Abaqus. 33rd Nordic Seminar on Computational Mechanics (NSCM-33), Online Seminar, Jönköping, Sweden, 25-26 November, 2021.
68. Berezvai, Sz., Kossa, A., 2021. Numerical analysis of detachment stability in soft-tip composite fibrils. 33rd Nordic Seminar on Computational Mechanics (NSCM-33), Online Seminar, Jönköping, Sweden, 25-26 November, 2021.
69. Kossa, A., Hensel, R., McMeeking, R.M., 2022. Adhesion of a cylindrical punch with elastic properties that vary spatially in a gradual manner. 11th European Solid Mechanics Conference (ESMC2022), Galway, Ireland, 4-8 July, 2022.
70. Horváth, A. L., Kossa, A., 2022. Determination of stable center, edge, and ring detachment sizes in the poker chip problem. 11th European Solid Mechanics Conference (ESMC2022), Galway, Ireland, 4-8 July, 2022.
71. Kossa, A., Bachrathy D., Stépán, G., 2022. Modelling chip formation processes using the smoothed particle hydrodynamics method. 38th International Danubia-Adria Symposium on Advances in Experimental Mechanics (DAS), Poros, Greece, September 20-23, 2022.
72. Fodor, B., Kossa, A., 2023. Stability study of the compressible Mooney-Rivlin hyperelastic model. 39th International Danubia-Adria Symposium on Advances in Experimental Mechanics (DAS), Siófok, Hungary, September 26-29, 2023.

73. Vargovics, T., Kossa, A., 2023. Mechanical modelling and analysis of auxetic structures. 39th International Danubia-Adria Symposium on Advances in Experimental Mechanics (DAS), Siófok, Hungary, September 26-29, 2023.
74. Kossa, A., 2024. Constitutive Modeling of Self-Healing Superelastic Biomaterials. 40th International Danubia-Adria Symposium on Advances in Experimental Mechanics (DAS), Gdańsk, Poland, September 24-27, 2024.
75. Havasi, K., Kossa, A., 2024. Estimating equibiaxial stress-strain relation based on non-homogeneous biaxial measurement. 40th International Danubia-Adria Symposium on Advances in Experimental Mechanics (DAS), Gdańsk, Poland, September 24-27, 2024.
76. Berezvai, Sz., Kossa, A., 2024. Analyzing the Compression of Hyperelastic Spheres. 40th International Danubia-Adria Symposium on Advances in Experimental Mechanics (DAS), Gdańsk, Poland, September 24-27, 2024.
77. Horvát, A. L., Kossa, A., 2024. 3D stability analysis of the poker chip detachment problem. 40th International Danubia-Adria Symposium on Advances in Experimental Mechanics (DAS), Gdańsk, Poland, September 24-27, 2024.

Papers in peer-reviewed Hungarian conference proceedings

78. Berezvai, Sz., Kossa, A., 2016. Memóriahabok mechanikai modellezése. XXIV. Nemzetközi Gépészeti Találkozó (OGÉT), Deva, Romania, April 21-24, 2016.
79. Berezvai, Sz., Kossa, A., Stepan, G., 2018. Airsoft lövedék viszkózus-rugalmas-képlékeny ütközésének szimulációja és alkalmazása. XXVI. Nemzetközi Gépészeti Találkozó (OGÉT), Marosvásárhely, Románia, April 26-29, 2018. ISSN 2068-1267.
80. Kossa, A., 2019. Gekók tapadását utánzó struktúrák tervezése végelelemes szimulációk segítségével. Conference proceedings paper: 353. XIII. Magyar Mechanikai Konferencia (MAMEK), Miskolc, Hungary, August 27-29, 2019. ISSN 2668-9685.
81. Horváth A. L., Kossa A., 2020. Paraméterillesztő szoftver a „Two-Layer Viscoplastic” anyagmodellhez. XXVIII. Nemzetközi Gépészeti Konferencia (OGÉT), Székelyudvarhely, Románia, April 23-26, 2020.
82. Floch, K., Kossa, A., 2023. Motion Tracker Beta: nyílt forráskódú „motion-tracking” szoftver. XXXI. Nemzetközi Gépészeti Konferencia (OGÉT), Temesvár, Románia, April 27-30, 2023. [LINK](#).
83. Havasi, K., Kossa, A., 2023. Új hiperelasztikus konstitutív modell fejlesztése és implementálása végelelemes szoftverbe. XXXI. Nemzetközi Gépészeti Konferencia (OGÉT), Temesvár, Románia, April 27-30, 2023. [LINK](#).
84. Fodor, B., Kossa, A., 2024. A Mooney-Rivlin-féle hiperelasztikus anyagmodell stabilitási vizsgálata többtengelyű terhelések esetén. XXXII. Nemzetközi Gépészeti Konferencia (OGÉT), Csíksomlyó, Románia, April 25-28, 2024. [LINK](#).

Hungarian conference talks (session talks)

85. Kossa, A., Szabo, L., 2007. Rugalmas-képlékeny testek konstitutív egyenleteinek integrálása lineáris izotrop és kinematikai keményedés esetén. X. Magyar Mechanikai Konferencia (MAMEK), Miskolc, Hungary, August 27-29, 2007.
86. Kossa, A. 2011. Egzakt feszültségszámító eljárás a Drucker-Prager-féle rugalmas-képlékeny anyagmodellre izotrop keményedés esetén. XI. Magyar Mechanikai Konferencia (MAMEK), Miskolc, Hungary, August 29-31, 2011.
87. Kossa, A., 2015. Polimer habok viszko-hiperelasztikus anyagmodellezése. XII. Magyar Mechanikai Konferencia (MAMEK), Miskolc, Hungary, August 25-31, 2015.
88. Kossa, A., Stepan, G., 2015. Modellezési lehetőségek forgácsolási folyamatok végeselemes szimulációjában. XII. Magyar Mechanikai Konferencia (MAMEK), Miskolc, Hungary, August 25-31, 2015.
89. Berezvai, Sz., Kossa, A., 2016. Memóriahabok mechanikai modellezése. XXIV. Nemzetközi Gépészeti Találkozó (OGÉT), Deva, Romania, April 21-24, 2016.
90. Berezvai, Sz., Kossa, A., Stepan, G., 2018. Airsoft lövedék viszkózus-rugalmas-képlékeny ütközésének szimulációja és alkalmazása. XXVI. Nemzetközi Gépészeti Találkozó (OGÉT), Marosvásárhely, Románia, April 26-29, 2018.
91. Kossa, A., 2019. Gekók tapadását utánzó struktúrák tervezése végeselemes szimulációk segítségével. XIII. Magyar Mechanikai Konferencia (MAMEK), Miskolc, Hungary, August 27-29, 2019.
92. Kossa, A., 2019. Viszkoelasztikus-viszkoplasztikus anyagmodell fejlesztése hőre lágyuló polimer hőformázásának szimulációjához. XIII. Magyar Mechanikai Konferencia (MAMEK), Miskolc, Hungary, August 27-29, 2019.
93. Kossa, A., Bachrathy D., Stepan, G., 2019. Homlokapi nyomáseloszlás meghatározása forgácsolási folyamatoknál kapcsolt Euler–Lagrange-féle végeselemes technika alkalmazásával. XIII. Magyar Mechanikai Konferencia (MAMEK), Miskolc, Hungary, August 27-29, 2019.
94. Berezvai, Sz., Kossa, A., Viszkózus-rugalmas-képlékeny anyagmodellek vizsgálata mikrocellás polimer hab hőformázása esetén. XIII. Magyar Mechanikai Konferencia (MAMEK), Miskolc, Hungary, August 27-29, 2019.
95. Bachrathy, D., Miklos, A., Kossa, A., 2019. Több-dimenziós felezőmódszer mérnöki alkalmazásai. XIII. Magyar Mechanikai Konferencia (MAMEK), Miskolc, Hungary, August 27-29, 2019.
96. Horváth A. L., Kossa A., 2020. Paraméterillesztő szoftver a „Two-Layer Viscoplastic” anyagmodellhez. XXVIII. Nemzetközi Gépészeti Konferencia (OGÉT), Székelyudvarhely, Románia, April 23-26, 2020.

97. Floch, K., Kossa, A., 2023. Motion Tracker Beta: nyílt forráskódú „motion-tracking” szoftver. XXXI. Nemzetközi Gépészeti Konferencia (OGÉT), Temesvár, Románia, April 27-30, 2023.
98. Havasi, K., Kossa, A., 2023. Új hiperelasztikus konstitutív modell fejlesztése és implementálása végeselemes szoftverbe. XXXI. Nemzetközi Gépészeti Konferencia (OGÉT), Temesvár, Románia, April 27-30, 2023.
99. Kossa, A., 2023. Öngyógyító szuperrugalmas bioanyagok mechanikai modellezése. XIV. Magyar Mechanikai Konferencia (MAMEK), Miskolc, Hungary, August 29-31, 2023.
100. Horváth A. L., Kossa, A., 2023. Hengeres rugalmas hasáb kontaktfelületi görbületének hatása az adhézióra. XIV. Magyar Mechanikai Konferencia (MAMEK), Miskolc, Hungary, August 29-31, 2023.
101. Havasi, K., Kossa, A., 2023. Szilikon gumilap mechanikai viselkedésének részletes leírása többtengelyű feszültségi állapot esetén. XIV. Magyar Mechanikai Konferencia (MAMEK), Miskolc, Hungary, August 29-31, 2023.
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