

Activitate de cercetare științifică

1. Teza de doctorat

Pinca-Bretotean Camelia, Optimizarea structurilor de rezistență a utilajelor metalurgice, 2002, conducător științific Prof.dr.Eur.ing. Tiberiu-Dimitrie BABEU

2. Teza de abilitare

Pinca-Bretotean Camelia, Comportarea materialelor metalice și compozite la solicitări mecano-termice, 2022

3. Cărți/manuale/monografii/capitole în cărți de specialitate

1. **Pinca-Bretotean Camelia, Utilaje metalurgice**, Ed. Politehnica Timișoara, 2002, ISBN 973-8247-81-0
2. **Pinca-Bretotean Camelia, Fabricarea și asamblarea autovehiculelor rutiere**, vol.I, Ed. Cermi, 2008, ISBN general 978-973-667-346-7, ISBN 978-973-667-350-4
3. **Pinca-Bretotean Camelia, Fabricarea și asamblarea autovehiculelor rutiere**, vol.II Ed. Politehnica, 2010, ISBN general 978-973-667-346-7, 978-606-554-IIO-8
4. **Pinca-Bretotean Camelia, Echipamente mecanice industriale**, Ed. „Politehnica”, 2013, ISBN 978-606-554-535-9
5. Weber F., Alic C., Mikloș C., Mikloș I., **Pinca-Bretotean Camelia**, Cioată V., Ilca I., Dascăl A., Rațiu S., Prejban I., Popa E., Vasiu T., Hărău C., Alexa V., Ardelean E., Negomireanu B., Benea L., Ardelean E., *Discipline fundamentale și de specialitate-Sinteze*, Ed. Mirton, 2005, ISBN 973-661-634-7
6. **Pinca-Bretotean Camelia, Tehnologii de prelucrări mecanice la fabricarea utilajelor tehnologice**, Editura Mirton Timișoara, 2003, ISBN 973-661-146-9
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8. **Pinca-Bretotean Camelia, Echipamente mecanice industriale. Teme experimentale**, Editura Politehnica, Timișoara, 2015, ISBN 976-606-554-912-8
9. **Pinca-Bretotean Camelia, Transmisii mecanice pentru autovehicule. Demers practic**, Ed. Politehnica, Timișoara, 2020, ISBN 978-606-35-0394-8
10. **Pinca-Bretotean Camelia, Optimizarea structurilor de rezistență ale podurilor rulante**, Ed. Mirton, Timișoara, 2003, ISBN 973-661-456-5
11. Toader Ștefan, **Pinca-Bretotean Camelia**, Pleșa Dorin, *Oboseala termică a cilindrilor de laminare la cald*, Ed. Politehnica, Timișoara, 2004, ISBN 973-625-185-3
12. **Pinca-Bretotean Camelia**, Utilaje tehnologice, notițe de curs, aplicații laborator și proiect, pe platforma CAMPUS VIRTUAL UPT, <https://cv.upt.ro/course/view.php?id=2738>
13. **Pinca-Bretotean Camelia**, calculul și construcția autovehiculelor rutiere –Partea I, notițe de curs, aplicații laborator și proiect, pe platforma CAMPUS VIRTUAL UPT <https://cv.upt.ro/course/view.php?id=2649>
14. **Pinca-Bretotean Camelia**, Calculul și construcția autovehiculelor rutiere –Partea 2, notițe de curs, aplicații laborator și proiect, format electronic, pe platforma CAMPUS VIRTUAL UPT <https://cv.upt.ro/course/view.php?id=5203>
15. **Pinca-Bretotean Camelia**, Echipamente mecanice industrial, notițe de curs, aplicații laborator și proiect, pe platforma CAMPUS VIRTUAL UPT <https://cv.upt.ro/course/view.php?id=5215>
16. **Pinca-Bretotean Camelia**, Tehnologia fabricării și asamblării autovehiculelor rutiere, notițe de curs, aplicații laborator și proiect, pe platforma CAMPUS VIRTUAL UPT <https://cv.upt.ro/course/view.php?id=5200>
17. **Pinca-Bretotean Camelia, Tehnologia construcțiilor de mașini**, notițe de curs, aplicații laborator și proiect, pe platforma CAMPUS VIRTUAL UPT <https://cv.upt.ro/course/view.php?id=5693>

4. Articole și publicații științifice indexate Web of Science - Thomson Reuters (WOS)

1. **Pinca-Bretotean Camelia**, Tirian Gelu Ovidiu, Vilceanu Lucia, *The effect of the thermal fatigue upon the hot rolling mill cylinders*, Metalurgia international, 13(5), 2008, pg. 25-33, WOS:000256691600005, **Factor de impact 0,173**
2. **Pinca-Bretotean Camelia**, Crăciun Andrei Lucian, Josan Ana, Ardelean Erika, *Experimental study of sintered friction material with coconut fiber for brake pads*, Revista de Materiale Plastice București, 2019, ISSN: , WOS:000452711500029, 55(3), 2018, pg.389-392, **Factor de impact 1,393**
3. **Pinca-Bretotean Camelia**, Lemle Ludovic Dan, Szabo Alexandru, *Ecological composites for brake pads using shells as filler material*, Revista de Materiale Plastice București, 2019, ISSN: 0025-5289, <https://doi.org/10.37358/MP.19.3.5234>, 56(3), 2019, pg. 588-591, WOS:000487764000023, **Factor de impact 1,517**
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5. Crăciun Andrei, **Pinca-Bretotean Camelia (autor corespondent)**, Uțu Dragoș, Josan Ana, *Tribological properties of nonasbestos brake pad material by using coconut fiber*, IOP Conference Series: Materials Science and Engineering/ISSN: 17578981, 163, pg.1-9, 2017, DOI: 10.1088/1757-899X/163/1/012038, WOS:000399755300014
6. Crăciun Andrei Lucian, **Pinca-Bretotean Camelia (autor corespondent)**, Birtok-Băneasă Corneliu, Josan Ana, *Composite materials for friction and braking application*, IOP Conference Series: Materials Science and Engineering/ISSN: 17578981, Vol. 200, pg.1-10, 2017, DOI: 10.1088/1757-899X/200/1/012009, WOS:000419288800009
7. **Pinca-Bretotean Camelia**, Crăciun Andrei Lucian, Josan Ana, Ardelean Erika, *Experimental study of sintered friction material with coconut fiber for brake pads*, Revista de Materiale Plastice București, 2019, 55(3), 389-392, 2018, WOS:000452711500029, **Factor de impact 1,393**
8. **Pinca-Bretotean Camelia**, Ana Josan, Vasile Puțan, *Testing of brake pads made of nonasbestos organic friction composite on specialized station*, Materials Today-Proceedings, 45(5), 2021, pg. 4183-4188, <https://doi.org/10.1016/j.matpr.2020.12.039>, WOS:000419288800009
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10. **Pinca-Bretotean Camelia**, Crăciun Andrei Lucian, Josan Ana, Ardelean Marius, *Friction and wear characteristics of organic brake pads material*, IOP Conference Series: Materials Science and Engineering/ISSN: 17578981, 477, pg.1-8, 2019, DOI: 10.1088/1757-899X/477/1/012009, WOS:000461184100009
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12. Josan Ana, **Pinca-Bretotean Camelia**, Sorin Rațiu, *Researches and studies regarding the casting of brake drums from cast iron*, IOP CONFERENCE SERIES: MATERIALS SCIENCE AND ENGINEERING 477, 2019, 012033, DOI: 10.1088/1757-899X/477/1/012033, WOS: 000461184100033
13. Josan, A., **Pinca-Bretotean Camelia**, Pinca; Ratiu, S., Ardelean, E., Ardelean, M., *Research on the influence of moulding-casting technology on the quality of castings*, IOP CONFERENCE SERIES:

MATERIALS SCIENCE AND ENGINEERING 200, 012010, 2017, DOI:10.1088/1757-899X/200/1/012010, WOS:000419288800010

14. Josan Ana, **Pinca-Bretotean Camelia**, *Using the anti-adherence paints to manufacturing of the moulds intended for iron castings*, IOP CONFERENCE SERIES: MATERIALS SCIENCE AND ENGINEERING 163 (1), 012020, 2017, DOI:10.1088/1757-899X/163/1/012020, WOS:000399755300020

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19. Păucă Adina, Hepuț Teodor, **Pinca-Bretotean Camelia**, Stoica Diana, *A comparative study of heat transfer in metallic material*, AIP Conference Proceedings/ ISSN: 978-0-7354-0956-9/530.00, 1389,pg. 543-546, 2011, DOI:10.1063/1.3636786, WOS:000302239800133

20. Arun Kumar Sharma, Rakesh Bhandari, **Pinca-Bretotean Camelia**, *A systematic overview on fabrication aspects and methods of aluminium metal matrix composites*, Materials Today-Proceedings, 45(5), pg. 4133-4138, 2021, DOI:10.1016/j.matpr.2020.11.899, WOS 000655645500009

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5. Articole și publicații științifice BDI

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5. **Pinca-Bretotean Camelia**, Tirian Gelu Ovidiu, *The analysis of the stresses and strains state of the strength structure of a rolling bridge for increasing its solidity*, 2nd WSEAS International Conference on Engineering Mechanics, Structures and Engineering Geology, WOS:000276584000009, Book Series:Mathematics and Computer Science, 4 (79-84), 2009, **ISI Proceedings**
6. **Pinca-Bretotean Camelia**, Tirian Gelu Ovidiu, Josan Ana, *Finite element analysis of an overhead crane bridge*, 2nd WSEAS International Conference on Finite Elements, Finite Volumes, Boundary Elements , WOS: 000271229900007, Book Series:Mathematics and Computer Science, 6 (51-56), 2010, **ISI Proceedings**
7. **Pinca-Bretotean Camelia**, Tirian Gelu Ovidiu, Josan Ana, Chețe Gladiola, *Quantitative and qualitative study on the state of the strength structure of a crane bridge*, WSEAS Transactions on Applied and Theoretical Mechanics, Vol: 5, Issue 4, 11 (231-241), 2010, **Scopus**
8. **Pinca Bretotean Camelia**, Tirian Gelu Ovidiu, Josan Ana, Chețe Gladiola, *Modeling effectiveness of stress and deformation state of strength structures*, Latest Trends on Engineering Mechanics, Structures, Engineering Geology, pp.97-102, 2010, ISBN: 978-960-474-203-5, WOS:000288686900018, **ISI Proceedings**
9. **Pinca-Bretotean Camelia**, Josan Ana, *Determination of the variable temperature fields in the cylinder head of a spark ignition engine*, Proceedings of the 22nd International DAAAM Symposium,, Intelligent manufacturing and automation:Ipower of knowledge and creativity Vienna, Austria, ISBN978-3-901509-83-4, Annals of DAAAM and Proceedings of the International DAAAM Symposium, 2(605-606), 2011, **Scopus**
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14. Tirian Gelu Ovidiu, **Pinca-Bretotean Camelia**, *Software implementation of a neuronal system which enables the prediction of the wire breaking during continuous casting*, 7th WSEAS international Conference on Circuits, Systems,Electronics, Control & Signal, WOS: 000264171900025, Book Series: Electrical and Computer Engineering Series, 6(151-156), 2008, **ISI Proceedings**
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23. Josan Ana, **Pinca-Bretotean Camelia**, Rațiu Sorin, *Critical analysis of the influence of the possibilities of establishing the moulding technology on obtaining the castings*, IOP Conference Series: Materials Science and Engineering, International Conference on Applied Sciences 2017, ICAS 2017; Engineering Faculty of Hunedoara/Hunedoara/ISSN: 17578981, 294(1), 9 (1-8), 2018, **Scopus**
24. Crăciun Andrei Lucian, Hepuț Teodor, **Pinca-Bretotean Camelia**, *Aspect regarding manufacturing technologies of composite materials for brake pad application*, IOP Conference Series: Materials Science and Engineering, International Conference on Applied Sciences 2017, ICAS 2017; DOI:10.1088/1757-899X/294/1/012003, 294(1), 9 (1-8), 2018, **Scopus**
25. Kiss Imre, **Pinca-Bretotean Camelia**, Josan Ana, *Experimental research upon the durability in exploitation of the Adamite type rolls*, IOP Conference Series: Materials Science and Engineering, 10th International Conference Machine and Industrial Design in Mechanical Engineering, KOD 2018; DOI:10.1088/1757-899X/393/1/012090, 393(1), 6(1-6), 2018, **Scopus**
26. Birtok-Băneasă, C., Rațiu Sorin, **Pinca-Bretotean Camelia**, *The dispersion of heat flow in the engine compartment. Case study: Drift engines*, IOP Conference Series: Materials Science and Engineering, 10th International Conference Machine and Industrial Design in Mechanical Engineering, KOD 2018; Novi Sad/ISSN: 17578981, 393(1), 8 (1-7), 2018, **Scopus**
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31. **Pinca-Bretotean Camelia**, Sharma A.K., Josan Ana, *Investigation of functional characteristics of composites used for brake pads*, IOP Conf. Series: Journal of Physics: Conference Series, 012025, 2212(1), 11(1-11), 2022, **Scopus**
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6. Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale

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5. **Pinca-Bretotean Camelia**, *The study of the behavior in service of rolling cylinders*, 11th International Research/Expert Conference-Trends in the Development of Machinery and Associated Technology, Hammamet, Tunisia, TMT 07-15, 2007, **Google Scholar**
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