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Title: Contributions regarding the competitiveness growth of the alloy steels tools

Domain: Industrial engineering

PUBLICATIONS LIST

RELEVANT PAPERS

1. **Catana D.** – *Thermomechanical treatment influence on the high-speed steel hardness and wear*, Universal Journal of Materials Science, Vol. 3 (3), pp. 44-48, 2015, ISSN 2331-6691 print, ISSN 2331-6705 online, DOI: 10.13189/ujms.2015.0
2. **Catana D.** – *Risk factors combating of the work environment*, Lambert Academic Publishing, Saarbrucken, Germany, ISBN 978-3-659-26421-4, 2014,
3. **Catana D.** – *Study regarding cryogenic temperatures resilience of the bearings steel*, Metalurgia International, Vol. 18, nr. (issue) 4, pp. 80-82, 2013, ISSN 1582-2214
4. **Catana D.** – *Plastic deformation speed influence on HS2-9-1-8 high-speed steel plastic deformation strength*, Metalurgia International Vol. XVII, no. 5, pp. 21-24, 2012, ISSN 1582-2214
5. **Catana D.** – *Dependence between deformation speeds and high speed steel plastic deformation strength*, Metalurgia Internațional Vol. XVI, no. 3, pp. 68-70, 2011, ISSN 1582-2214
6. **Catana D.** – *Traction behaviour simulation of spot welded*, DAAAM International Scientific Book 2010, pp. 575-582, B. Katalinic (Ed.), Published by DAAAM International, ISBN 978-3-901509-74-2, ISSN 1726-9687, Vienna, Austria DOI: 10.2507 / daaam.scibook.2010.50
7. **Catana D.,** Catana D-A – *Statistical weights method to assessment global risk level*, 8th International Scientific Conference – Health, work and social responsibility, University Urbaniana, Rome, Italy, 28.09.-02.10.2010
8. **Catana D.** – *Possibilities of simulation of the axials deformation for the butt head welding*, Buletinul Institutului Politehnic din Iași Tomul L(LIV) Fascicula Vb, 2006, pp. 1135-1140, ISSN 1011-2855

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1. **Catana D.** – *Risk factors combating of the work environment*, Lambert Academic Publishing, Saarbrucken, Germany, 2014, ISBN 978-3-659-26421-4
2. **Catana D.** – *Risk assessment in occupational safety and health*, Editura Lux Libris, Braşov, 2013, ISBN 978-973-131-254-5
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4. **Catana D.** – *Tehnologia materialelor – Teste*, Editura Universităţii “Transilvania” Braşov, 2001, ISBN 973-8124-10-7
5. **Catana D., s. a.** – *Tehnologia Materialelor (Tehnologii Industriale)*, Editura Universităţii “Transilvania” Braşov, 1999, ISBN 973-9474-38-1

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JOURNAL ARTICLES

1. **Catana D.** – *Influence of the heat treatments on the wear-resistant steels properties*, Bulletin of the Transilvania University of Brasov, Vol. 8 (57), No. 2, pp. 87-92, 2015, Series I, Engineering Sciences, ISSN 2065-2119 (print), ISSN 2065-2127 (CD-ROM)
2. **Catana D.** – *Thermomechanical treatment influence on the high-speed steel hardness and wear*, Universal Journal of Materials Science, Vol. 3 (3), pp. 44-48, 2015, ISSN 2331-6691 print, ISSN 2331-6705 online, DOI: 10.13189/ujms.2015.030302, BDI-EBSCO
3. **Catana D.** – *Study regarding industrial noise reduction with sound absorbing screens*, Bulletin of the Transilvania University of Brasov, Series I: Engineering Sciences, Vol. 6 (55), No. 1, pp. 89-94, 2013, ISSN 2065-2119 (print), ISSN 2065-2127 (CD-ROM)
4. **Catana D.** – *Study regarding cryogenic temperatures resilience of the bearings steel*, Metalurgia International, Vol. 18, nr. (issue) 4, pp. 80-82, 2013, ISSN 1582-2214
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7. **Catana D.** – *High speed steel HS 2-9-1-8 (W 1.3247) plastic deformation strength*, Metalurgia International Vol. XVI, no. 2, pp. 80-83, 2011, ISSN 1582-2214
8. **Catana D., Catana D-A.** – *Thermo-mechanic treatment influence on microstructure and mechanical properties of high speed steel*, Metalurgia International Vol. XV, no. 9, pp. 44-46, 2010, ISSN 1582 – 2214
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12. **Catana D.** – *Casting method influence on microstructure and mechanical properties of the antifriction alloys*, Metalurgia International Vol. XIV (Special issue no. 3), pp. 161-164, 2009, ISSN 1582 – 2214
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14. **Catana D., Machedon-Pisu T.** – *The simulation of behavior at traction of spots welded joints*, Sudura nr. XIII 2-2003, ISSN 1453-0384, 2003

15. Novac Gh., Markos Z., Baltes L., **Catana D.** – *Possibilities for increasing of carbon steel performances by superficial heat treatments in plasma*, Tratamente termice si ingineria suprafetelor, 2003, ISSN 1221-5678

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1. **Catana D.**, Catana D.A. – *Statistical weights method to assessment global risk level*, 8th International Scientific Conference – Health, work and social responsibility, University Urbaniana, 28-02.10.2010, Rome , Italy
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3. **Catana D.** – *Theoretic contributions for the plastic deformation simulation process*, International Scientific Conference „Modern Technologies, Quality, Restructuring” TMCR 2005, Technical University of Moldova, Chişinău, Republica Moldova, 19-22.05.2005, Vol I, ISBN 9975-9875-4-0
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7. **Catana D.**, Eftimie L. – *The influence of microstructure on part hardness during the double-layer metal coating in vibrating field*, International Conference of PhD Students, University of Miskolc, 11-18.08.1997, Hungary
8. Eftimie L, **Catana D.**, Serban C. – *The influence of the microstructure on the hardness at the double-layer metal coating in vibrating field*, The Eight Israel Materials Engineering Conference-IMEC VIII, Beer-Sheva, Israel, April 16-17, 1997

OTHER PAPERS / RELEVANT ACHIEVEMENTS

1. **Catana D.** – *Researches regarding the influence of the heat treatments with solar energy on the alloy steels properties*, 7th Frame Work Programme of the EU și Ministerio de Economía y Competitividad Spain EU-DG RTD’s – The European Solar Research Infrastructure for Concentrated Solar Power – Grant Agreement no. 312643 (coordonator contract de cercetare)

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