

Autorul tezei de abilitare: Conf. Dr. Ing. Stoicănescu Maria

Titlul tezei de abilitare: Cercetări privind efectul unor tratamente termice inovative asupra calității aliajelor metalice utilizate în industrie

Domeniul: Inginerie Industrială

## LISTA DE LUCRĂRI

### LUCRĂRI RELEVANTE

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1. Cazacu M., Zara A, **Stoicănescu M.**, Giacomelli I. - Wear resistance of heat treatable steels, surface hardened with concentrated energy sources, Journal Of Optoelectronics And Advanced Materials, Vol. 15, No. 9 - 10, September – October 2013, p. 1125 – 1130, WOS:000326414700033;
2. **Stoicanescu M.** - Studies concerning the possibility of hardening through thermic isothermal treatment of the casting alloys of aluminum, Revista Recent, Vol. 15, nr. 3(43)/2014, ISSN 2065-4529, pag. 215-219, 2014;
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5. **Stoicanescu M.**, Pitulice C., Giacomelli I.- Studies on structural changes in titanium alloys by heat treatment, Journal of optoelectronics and advanced materials, Vol. 17, no. 9-10, 2015, 1410 – 1416, WOS:000364600400029;
6. **Stoicanescu M.**, Buzamet E., Budei D. V., Craciun V., Budei R., Cosnita M., Crisan A. - Possible causes in breaking of dental implants research, Materials science forum, ISSN: 1662-9752, Vol. 907, 104-118;

7. Zara A., **Stoicănescu M.**, Giacomelli I., Cazacu M.- The using of laser radiation at surface hardening of improvement steels, Journal of optoelectronics and advanced materials, Vol. 15, no. 9 - 10, 2013, 1084 – 1089, WOS:000326414700026;
8. **Stoicanescu M.**, Smeada M. - Studies regarding mechanical properties improvement of aluminum alloy type AlSi5Cu and results validation by calculating precision indicators, Procedia technology, 00 (2016) 000–000, WOS:000383949300025;
9. **Stoicănescu M.**, Zara A., Giacomelli I., Vasile G., Milosan I. -Using the laser radiation at hard deposits on steels to improve, Journal of intense pulsed lasers and applications in advanced physics, Vol.4, no.4, 2014, 71-75;
10. Craciun D., Socol G., Cristea D.V., **Stoicanescu M.**, Olah N., Balazsi K., Stefan N., Lambers E., Craciun V. - Mechanical properties of pulsed laser deposited nanocrystalline SiC films, Applied Surface Science 336, 2015, 391–395, WOS:000351617600066

#### TEZA DE DOCTORAT

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**Stoicănescu Maria** - Studii și cercetări privind tratamentele termice neconven ionale ale aliajelor pe bază de aluminiu, Universitatea Transilvania din Brașov, 2005.

#### BREVETE

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#### CĂRȚI / CAPITOLE DE CĂRȚI

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1. **Stoicanescu M.**, Dinescu I., Smeadă M.- Advanced materials used in military technology, Ed. Lambert Academic Publishing, 2017, ISBN 978-3-330-34575-1, (111pag);
2. **Stoicanescu M.**, Giacomelli I., Zaharia M.- The Physics of Metals, Ed. Lambert Academic Publishing, 2017, ISBN 978-620-2-09538-9, (276pag);

3. **Stoicanescu M.**- Heat treatments. Applications, Ed. Lambert Academic Publishing, 2016, ISBN 978-3-659-96514-2 (138pag);
4. **Stoicanescu M.** - Heat treatments applied to metallic materials, Ed. Lambert Academic Publishing, 2015, ISBN 978-3-659-79927-3, (270pag);
5. Smeadă M., Dinescu I., **Stoicănescu M.**- Materiale metalice si nemetalice utilizate în tehnica militară, Ed. Academiei Forțelor Aeriene „Henri Coanda” Brasov, 2012, ISBN 978-606-8356-06-8 (185pag);
6. **Stoicănescu M.**, Giacomelli I., Zaharia M.- Fizica metalelor, Ed. Universității Transilvania din Brașov, 2006, ISBN (10) 973-635-745-7; ISBN (13) 978-973-635-745-9 (227pag);
7. **Stoicănescu M.** Giacomelli I. - Aluminiul si aliajele de aluminiu, Ed.Universității Transilvania din Brașov, 2006, ISBN 978-973-635-946-0 (107pag);
8. **Stoicănescu M.** - Tratamente termice aplicate aliajelor metalice, Ed. Universității Transilvania din Brașov, 2014, ISBN 978-606-19-0385-6 (273pag);
9. **Stoicănescu M.** - Tratamente termice. Aplicații, Editura Universității Transilvania din Brașov, 2014, ISBN978-606-19-0386-3 (139 pag);
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2. Craciun D., Socol G., Cristea D.V., **Stoicanescu M.**, Olah N., Balazs K., Stefan N., Lambers E., Craciun V.- Mechanical properties of pulsed laser deposited

- nanocrystalline SiC films, Applied Surface Science Volume 336, 1 May 2015, Pages 391-395, ISSN: 0169-4332, Journal impact 3.38, WOS:000351617600066
3. Socol M., Preda N., Vacareanu L., Grigoras M., Socol G., Mihailescu N., Stanculescu F., Jelinek M., Stanculescu A., **Stoicanescu M.** - Organic heterostructures based on arylenevinylene oligomers deposited by MAPLE, Applied Surface Science, Volume: 302, Pages: 216-222, DOI: 10.1016/j.apsusc.2013.12.091, Published: MAY 30 2014 ISSN: 0169-4332, eISSN: 1873-5584, WOS:000333405800045
  4. Zara A., **Stoicănescu M.**, Giacomelli I., Cazacu M. - The using of laser radiation at surface hardening of improvement steels, Journal of Optoelectronics and Advanced Materials, Volume: 15 Issue: 9-10 Pages: 1084-1089 Published: SEP-OCT 2013, ISSN: 1454-4164, FI 2013= 0,563, Accession Number: WOS:000326414700026
  5. Cazacu M., Zara A., **Stoicănescu M.**, Giacomelli I. - Wear resistance of heat treatable steels, surface hardened with concentrated energy sources, Journal of Optoelectronics and Advanced Materials, Volume: 15 Issue: 9-10 Pages: 1125-1130 Published: SEP-OCT 2013 ISSN: 1454-4164, FI 2013= 0,563, Accession Number: WOS:000326414700033
  6. **Stoicanescu M.**, Ciobanu I., Crisan A. - About the Mathematical Modeling of the Chemical Intercrystalline microsegregation of a Steel with 0.533 %C, Metalurgia International, Volume: 18 Special Issue:5, Pages: 143-148, Published: 2013, ISSN: 1582-2214, FI = 0,053, Accession Number: WOS:000315611900029
  7. Cazacu M., Giacomelli I., **Stoicanescu M.**, Vasile G. - Structural aspects of thermomechanical treatments of a low allied construction steel, Metalurgia International Volume: 18, Special Issue: 6 Pages: 47-50, Published: 2013, ISSN: 1582-2214, FI = 0,053, Accession Number: WOS:000315835600010
  8. Cazacu M., Giacomelli I., **Stoicanescu M.**, Vasile G. - Wear behavior of layers deposited by welding, Metalurgia International Volume: 18 Special Issue: 5 Pages: 65-68 Published: 2013, ISSN: 1582-2214, FI = 0,053, Accession Number: WOS:000315611900012

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1. **Stoicanescu M.**, Ene E., Zara A., et al.-The heat treatment influence of 1.3343 high speed steel on content of residual austenite, Procedia Technology Volume 22, 2016, Pages 161-166, WOS:000383949300024, <https://doi.org/10.1016/j.protcy.2016.01.039>
2. Matei S., **Stoicanescu M.**, Crisan A.- Composites with short fibers reinforced epoxy resin matrix, Procedia Technology, Volume 22, 2016, Pages 174-181, WOS:000383949300026, <https://doi.org/10.1016/j.protcy.2016.01.041>
3. **Stoicanescu M.**, Smeada M.- Studies regarding mechanical properties improvement of aluminum alloy type AlSi5Cu<sub>x</sub> and results validation by calculating precision indicators, Procedia Technology, Volume 22, 2016, Pages 167-173, <https://doi.org/10.1016/j.protcy.2016.01.040>
4. Craciun D., Popescu A. C., Cristea D., **Stoicanescu M.**, Milos I., Lambers E., Socol G., Craciun V. - Hard TiC films grown by pulsed laser deposition, Materials Today: Proceedings, Volume 2, Issue 6, 2015, Pages 3790-3796, <https://doi.org/10.1016/j.matpr.2015.08.005>

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1. Ciobanu I., Dăian M., Munteanu S. I., Crișan A., **Stoicănescu M.** - The Solidification of Gray Iron Parts Centrifugal Cast with External Sand Core, Recent 53, Vol. 18 (2017), No. 3 (53), November 2017, [http://www.recentonline.ro/no\\_053.html](http://www.recentonline.ro/no_053.html)
2. **Stoicănescu M.**, Dăian M., Ciobanu I., Bedo T., Pop M. A.- The influence of wall thickness of hollow parts on the thickness of white cast iron layers in centrifugally cast parts, Recent 53, Vol. 18 (2017), No. 3 (53), November 2017, [http://www.recentonline.ro/no\\_053.html](http://www.recentonline.ro/no_053.html)
3. **Stoicănescu M.**, Buzamet E., Budei D. V., Craciun V., Budei R., Cosnita M., Crisan A. - Possible Causes in Breaking of Dental Implants Research, Materials Science

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4. **Stoicanescu M.** - Theoretical and practical considerations on some of the diffusion aspects in the presence of mechanical vibrations, Jurnal BDI: European Scientific Journal, vol 3, 2014, ISSN: 1857 - 7881 (Print), ISSN: 1857 - 7431 (Online), pag. 169-172; <http://eujournal.org/index.php/esj/issue/view/109>  
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  6. **Stoicănescu M.** - The correlation between structure and working parameters for alloy AlCu4PbMgMn, rev. Metalurgia nr. 3/2014, ISSN 0461-9579, pg. 26-29  
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  7. **Stoicănescu M.,** Zara A., Giacomelli I., Vasile G., Milosan I. - Using the laser radiation at hard deposits on steels to improve, Journal of intense pulsed lasers and applications in advanced physics Vol. 4, No. 4, 2014, ISSN 2069-8631, p. 71 – 75, [http://www.chalcogen.ro/71\\_Stoicanescu.pdf](http://www.chalcogen.ro/71_Stoicanescu.pdf)
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  9. Crișan A., Ciobanu I., Ionescu D., **Stoicănescu M.**- Computer simulation based comparative study on the solidification of a cast iron and steel casting, International Conference of Scientific Paper AFASES 2014, ISSN-L: 2247-3173,pg. 157-164.  
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10. Smeada M., **Stoicanescu M.** - Interpretation of the experimental results on the mechanical properties of the aluminum alloy ATSi 6Cu 4Mn; Review of the Air Force Academy No 2 (26) 2014 ISSN: 2069-4733, pg.97-101,  
<http://search.proquest.com/docview/1528863125?accountid=7257>
11. Smeadă M., **Stoicănescu M.** - Studies and experimental researches on physical and mechanical properties of aluminum alloys, "Mircea cel Batran" Naval Academy Scientific Bulletin, Volume XVI – 2013 – Issue 1 Published by "Mircea cel Batran" Naval Academy Press, Constanta, Romania, ISSN: 1454864X, pg.151-154,  
[http://scholar.google.com/scholar?as\\_ylo=2014&q=stoicanescu+maria&hl=ro&as\\_sdt=0,5&lookup=0](http://scholar.google.com/scholar?as_ylo=2014&q=stoicanescu+maria&hl=ro&as_sdt=0,5&lookup=0)
12. **Stoicanescu M.** - The influence of the heat treatment after hardening on the properties of tool steels, rev. Metalurgia nr.8/2013, ISSN 0461-9579, pag 38-42;  
<http://tls.proquest.com/tls/jsp/list/ListHTML.jsp?start=5000&productID=6044&productName=ProQuest+SciTech+Collection&IDString=6044&format=formatHTML&issn=issn&combined=combined&showcounts=true;>  
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13. Smeadă M., **Stoicănescu M.** - Experimental studies on improving the mechanical properties of aluminum alloys, Review of the Air Force Academy No 1 (23) , 2013, pg. 45-48, ISSN: 2069-4733, <http://scholar.google.com/>
14. Stoicanescu M. , Giacomelli I. - Results obtained by different mode achieving heat treatment of aluminum alloys, Metalurgia, nr 6/2010, ISSN 0461-9579,  
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#### ALTE LUCRĂRI / REALIZARI RELEVANTE

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1. Proiect international SFERA II 2014 – la 'CIEMAT-PSA' nr. P1404300065 for SF5: Using the solar energy at heat treatments at surfaces of the metal alloys- director, 13734,9 Euro

2. Proiect international SFERA II 2016 – la 'CIEMAT-PSA' nr. P1602050206, Research on using solar energy to heat treatment of steels surface, valoare, 12363,1 Euro
3. Contract cu terti 2014-2015- Cercetări privind stabilirea cauzelor apariției neomogenităților structurale în vederea diminuării/eliminării lor în produsele din ATSi7Mg0.3 de tip bară, valoare 45.087 RON;
4. Contract cu terți 7191/ 2010-2011 - Studii și cercetări privind îmbunătățirea calității produselor SC ALRO Slatina SA și instruirea personalului operator - valoare 97105 RON .

Data,  
05.2018

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