

Lista de lucrări

Asistent univ. dr. ing. Toma Georgeta

1. **Teză de doctorat:** Cercetări privind dinamica unităților de pompare cu balansier folosite în industria petrolieră în vederea optimizării constructiv-funcționale, Universitatea Petrol-Gaze din Ploiești, 205 pag., 2016

Conducător științific : Prof. univ. dr. ing. Pupăzescu Alexandru

Domeniul de doctorat: Inginerie Mecanică

2. **Articole de specialitate publicate în reviste cotate ISI sau în volumele unor manifestări indexate ISI proceedings**

- 2.1. Badoiu D., **Toma G.** - Research Concerning the Correlations Between Some Experimental Results in the Case of a Sucker Rod Pumping Installation, Revista de Chimie, vol. 69, nr. 11, 2018, pag. 3060-3063, WOS:000451931500021
- 2.2. Badoiu D., **Toma G.** - Research Concerning the Kinetostatic Analysis of the Mechanism of the Conventional Sucker Rod Pumping Units, Revista de Chimie, vol. 69, nr. 11, 2018, pag. 1855-1859, WOS:000444595700052
- 2.3. Badoiu D., Petrescu M.G., Antonescu N.N., **Toma G.** - Research concerning the balancing of a plane mechanism, IOP Conference Series-Materials Science and Engineering, Vol. 295, 2018, DOI: 10.1088/1757-899X/295/1/012016, WOS:000448617300016
- 2.4. Badoiu D., Petrescu M.G., Antonescu N.N., **Toma G.** - Research concerning the evaluation of the connection forces in the joints of the sucker rod pumping units mechanism, Conference Series-Materials Science and Engineering, Vol. 295, 2018, DOI: 10.1088/1757-899X/295/1/012020, WOS:000448617300020
- 2.5. Badoiu D., **Toma G.** - Research Concerning the Identification of Some Parameters of a Sucker Rod Pumping Unit, Revista de Chimie, vol. 68, nr. 10, 2017, pag. 2289-2292, WOS:000416750000017
- 2.6. **Toma G.**, Pupazescu A., Badoiu D., Simulation of the Sucker Rod Column Dynamics for Different Pumping Regimes, Revista de Chimie, vol. 68, nr. 11, 2017, pag. 2593-2596, WOS:000416751800026
- 2.7. Badoiu D., **Toma G.** - On a dynamic optimisation problem of the quadrilateral mechanism, JOURNAL OF THE BALKAN TRIBOLOGICAL ASSOCIATION, Vol.: 22, Issue: 1, Pag.: 250-260, 2016, WOS:000374619000024

- 2.8. Badoiu D., Petrescu M.G., **Toma G.** - On the analysis and synthesis of the quadrilateral mechanism, JOURNAL OF THE BALKAN TRIBOLOGICAL ASSOCIATION, Vol.: 20, Issue: 2, Pag.: 161-168, 2014, WOS:000338972700001
- 2.9. Bădoiu D., Petrescu M., **Toma G.**, Helthuis J. - On the Generation of Complex Trajectories Using a Robotic System with Six Degrees of Freedom, Applied Mechanics and Materials, Vol. 657, pag. 803-807, 2014, DOI: 10.4028/www.scientific.net/AMM.657.803, WOS:000348898000157

3. Articole indexate în alte baze de date internaționale de referință pentru domeniu

- 3.1. **Toma G.**, D. Bădoiu - Research Concerning the Influence of Some Constructive Errors on the Dynamics of a Pumping Unit, Bul. UPG, Seria Tehnica, Vol LXIII, No. 4, 2011, ISSN 1224-8495, <http://www.bulletin.upg-ploiesti.ro/>
- 3.2. **Toma G.**, D. Bădoiu - On the Cinematic Analysis of a Mechanism of Fourth Class, Bul. UPG, Seria Tehnica, Vol LXIV, No. 1, 2012, ISSN 1224-8495, <http://www.bulletin.upg-ploiesti.ro/>
- 3.3. **Toma G.**, Pupazescu Al., Badoiu D. - On a Synthesis Problem of the Mechanism of a Sucker Rod Pumping Unit, Bul. UPG, Seria Tehnica, Vol LXV, No. 4, pag. 107-111, 2013, ISSN 1224-8495, <http://www.bulletin.upg-ploiesti.ro/>
- 3.4. Nae I., Badoiu D., **Toma G.** - On the Establishment and Visualization of the Multiple Configurations of the Mitsubishi RV-1A Robot System, Bul. UPG, Seria Tehnica, Vol LXVI, No. 1, pag. 73-78, 2014, ISSN 1224-8495, <http://www.bulletin.upg-ploiesti.ro/>
- 3.5. **Toma G.**, Pupazescu Al., Badoiu D. - On the Kinematics of Some Sucker Rod Pumping Units, Bul. UPG, Seria Tehnica, Vol LXVI, No. 3, pag. 95-100, 2014, ISSN 1224-8495, <http://www.bulletin.upg-ploiesti.ro/>
- 3.6. **Toma G.**, Pupazescu Al., Badoiu D. - On the calculus of some cinematic parameters of the sucker rod pumping units, Bul. UPG Seria Tehnica, Vol. LXVII, No. 1, pag. 93-98, 2015, ISSN 1224-8495 <http://www.bulletin.upg-ploiesti.ro/>
- 3.7. **Toma G.**, Badoiu D. - Research concerning the calculus of the equilibrium moment in the case of a plane mechanism using the dynamic model, Bul. UPG Seria Tehnica, Vol. LXVII, No. 2, pag. 93-98, 2015, ISSN 1224-8495, <http://www.bulletin.upg-ploiesti.ro/>
- 3.8. **Toma G.**, Pupazescu Al., Badoiu D., On the calculus of the motor moment of a sucker rod pumping unit, Buletin UPG, Seria Tehnica, Vol. LXVII, nr. 4, pag. 15-20, 2015, ISSN 1224-8495, <http://www.bulletin.upg-ploiesti.ro/>

- 3.9. **Toma G.**, Pupazescu Al., Research concerning the functional constructive optimization of the sucker rod pumping units, Bul. UPG Seria Tehnica, Vol. LXVIII, No. 2, , pag. 67-72, 2016, ISSN 1224-8495, <http://www.bulletin.upg-ploiesti.ro/>
- 3.10. **Toma G.**, Bădoiu D., On the Variation of the Motor Moment in the Case of a Total Statically Balanced Quadrilateral Mechanism, Bul. UPG Seria Tehnica, Vol. LXIX, No. 1, pag. 69-74, 2017, ISSN 1224-8495, <http://www.bulletin.upg-ploiesti.ro/>

4. Alte contribuții științifice

- 4.1. **Toma G.** – Stadiul actual al cercetarilor privind metodele de evaluare a comportarii in exploatare a tipurilor de unitati de pompare cu balansier construite si/sau folosite in prezent in tara noastra, Raport de cercetare nr. 1, Universitatea Petrol-Gaze din Ploiesti, 2013
- 4.2. **Toma G.** – Contributii la studiul dinamicii unitatilor de pompare cu balansier in vederea optimizarii functionarii acestora in exploatare, Raport de cercetare nr. 2, Universitatea Petrol-Gaze din Ploiesti, 2014
- 4.3. **Toma G.** – Analiza experimentală a comportarii in exploatare a instalatiilor de pompare cu prajini in vederea validarii modelelor dinamice de studiu, Raport de cercetare nr. 3, Universitatea Petrol-Gaze din Ploiesti, 2015