

# Natalia Makuch-Dziarska

## Lista publikacji

z dnia 31 października 2015

### Publikacje w czasopismach

1. Makuch, N., Piasecki, A., Dziarski, P., Kulka, M., 2015, ***Influence of laser alloying with boron and niobium on microstructure and properties of Nimonic 80A-alloy***, *Optics and Laser Technology* 75: s. 229-239
2. Makuch, N., Kulka, M., Piasecki, A., 2015, ***The effects of chemical composition of Nimonic 80A-alloy on the microstructure and properties of gas-borided layer***, *Surface and Coatings Technology* 276: s. 440-455
3. Kulka M., Makuch N., Dziarski P., Mikołajczak D., Przystacki D., 2015, ***Gradient boride layers formed by diffusion carburizing and laser boriding***, *Optics and Lasers in Engineering* 67: s. 163–175
4. Dziarski P., Makuch N., Kulka M., Mikołajczak D., 2015, ***Low-cycle fatigue strength of borocarbureted 15NiCr13 steel***, *Inżynieria Materiałowa* 2: s. 69-73
5. Makuch N., Kulka M., 2014, ***Microstructural characterization and some mechanical properties of gas-borided Inconel 600-alloy***, *Applied Surface Science* 314: s. 1007-1018
6. Kulka M., Makuch N., Dziarski P., Piasecki A., 2014, ***A study of nanoindentation for mechanical characterization of chromium and nickel borides' mixtures formed by laser boriding***, *Ceramics International* 40: s. 6083-6094
7. Makuch N., Kulka M., Dziarski P., Przystacki D., 2014, ***Laser surface alloying of commercially pure titanium with boron and carbon***, *Optics and Lasers in Engineering* 57: s. 64–81
8. Keddani M., Kulka M., Makuch N., Pertek A., Małdziński L., 2014, ***A kinetic model for estimating the boron activation energies in the FeB and Fe<sub>2</sub>B layers during the gas boriding of Armco iron: Effect of boride incubation times***, *Applied Surface Science* 298: s. 155-163
9. Kulka M., Makuch N., Popławski M., 2014, ***Two-stage gas boriding of Nisil in N<sub>2</sub>-H<sub>2</sub>-BCl<sub>3</sub> atmosphere***, *Surface and Coatings Technology* 244: s. 78-86
10. Kulka M., Mikołajczak D., Makuch N., Dziarski P., 2014, ***Laser alloying of 316L steel with boron***, *Inżynieria Materiałowa* 6: s. 512-515
11. Kulka M., Makuch N., Dziarski P., Piasecki A., Mikłaszewski A., 2014, ***Microstructure and properties of laser-borided composite layers formed on commercially pure titanium***, *Optics and Laser Technology* 56: s. 409-424

12. Kulka M., Makuch N., Pertek A., Małdziński L., 2013, ***Simulation of the growth kinetics of boride layers formed on Fe during gas boriding in H<sub>2</sub>-BCl<sub>3</sub> atmosphere***, *Journal of Solid State Chemistry* 199: s. 196–203
13. Kulka M., Dziarski P., Makuch N., Piasecki A., Miklaszewski A., 2013, ***Microstructure and properties of laser-borided Inconel 600-alloy***, *Applied Surface Science* 284: s. 757–771
14. Kulka M., Makuch N., Pertek A., 2013, ***Microstructure and properties of laser-borided 41Cr4 steel***, *Optics and Laser Technology* 45: s. 308-318
15. Kulka M., Makuch N., Pertek A., Piasecki A., 2013, ***Microstructure and properties of borocarbured and laser-modified 17CrNi6-6 steel***, *Optics and Laser Technology* 44: s. 872-881
16. Makuch N., Kulka M., Dziarski P., 2013, ***Gas boriding of Inconel 600 alloy***, *Inżynieria Materiałowa* 6: s. 745-748
17. Kulka M., Makuch N., Dziarski P., Przystacki D., 2013, ***Laser-borided layer formed on Inconel 600 alloy***, *Inżynieria Materiałowa* 6: s. 733-736
18. Dziarski P., Makuch N., Kulka M., 2013, ***Wear resistance improvement of pure titanium by laser boriding***, *Inżynieria Materiałowa* 6: s. 678-681
19. Kulka M., Makuch N., Pertek A., Piasecki A., 2012, ***An alternative method of gas boriding applied to the formation of borocarbured layer***, *Materials Characterization* 72: s. 59-67
20. Kulka M., Pertek A., Małdziński L., Makuch N., 2012, ***Simulation of the growth kinetics of two-phase boride layer formed on Fe during gas boriding***, *Inżynieria Materiałowa* 5: s. 444-447
21. Makuch N., Kulka M., 2012, ***Laser-modified boride layer formed on 100CrMnSi6-4 steel***, *Inżynieria Materiałowa* 6: s. 580-583
22. Kulka M., Pertek A., Makuch N., 2011, ***The importance of carbon concentration–depth profile beneath iron borides for low-cycle fatigue strength***, *Materials Science and Engineering A* 528: s. 8641– 8650
23. Makuch N., Kulka M., Pertek A., 2011, ***Cohesion and fracture toughness of gradient boride layers formed by borocarburing***, *Inżynieria Materiałowa* 4: s. 558-561
24. Kulka M., Pertek A., Makuch N., 2011, ***Two-stage gas boriding of carburized steel in N<sub>2</sub>-H<sub>2</sub>-BCl<sub>3</sub> atmosphere***, *Inżynieria Materiałowa* 4: s. 521-524
25. Kulka M., Pertek A., Makuch N., 2010, ***Laser boriding of carburized steel***, *Inżynieria Materiałowa* 4: s. 1059-1063