

List of publications

1. **Bakoglidis K.D.**, Paksoy A.H., Xiao P., Degradation of the mechanical properties of ytterbium disilicate-based environmental barrier coatings for jet engines. Submitted to Journal of the European Ceramic Society. Under review.
2. Hernandez M.A., **Bakoglidis K.D.**, Xiao P. A slurry infiltration method to enhance the wear resistance of bulk graphite with development of graphitic composites including SiC or Si₃N₄ hard particles. Journal of the European Ceramic Society 39 (2019) 1984-1992; <https://doi.org/10.1016/j.jeurceramsoc.2019.01.053>.
3. Flores-Ruiz F.J., Tucker M., Bakoglidis K.D., Yu X., Gellman A., Herrera-Gomez A., Hultman L., Rosen J. Micro-tribological performance of fullerene-like carbon and carbon-nitride surfaces. Tribol. Int., 128, (2018) 104-112; <https://doi.org/10.1016/j.triboint.2018.07.009>.
4. **Bakoglidis K.D.**, Palisaitis J., dos Santos R.B., Rivelino R., Persson P., Gueorguiev G.K., Hultman L. Self-healing in carbon nitride evidenced as material inflation and superlubric behavior. ACS Applied Materials and Interfaces 2018, 10, 16238-16243; <https://doi.org/10.1021/acsami.8b03055>.
5. Prieto G., **Bakoglidis K.D.**, Tuckart W.R., Broitman E. Nanotribological behavior of cryogenically treated martensitic stainless steel. Beilstein J. Nanotech. 2017, 8, 1760-1768; <https://doi.org/10.3762/bjnano.8.177>.
6. **Bakoglidis K.D.**, Nedelcu I., Ivanov I.G., Meeuwenoord R., Schmidt S., Janzén E., Ehret P., Greczynski G., Hultman L. Rolling performance of carbon nitride-coated bearing components in different lubrication regimes. Tribol. Int., 114 (2017) 141-151; <https://doi.org/10.1016/j.triboint.2017.04.006>.
7. **Bakoglidis K.D.**, Glenat H., Greczynski G., Schmidt S., Grillo S., Hultman L., Broitman E. Comparative study of macro- and microtribological properties of carbon nitride thin films deposited by HiPIMS. Wear, 370-371 (2017) 1-8; <https://doi.org/10.1016/j.wear.2016.11.005>.
8. Yalamanchili K., Jiménez-Piqué E., Pelcastre L., **Bakoglidis K.D.**, Roa J.J., Johansson Jöesaar M.P., Prakash B., Ghafoor N., Odén M. Influence of microstructure and mechanical properties on the tribological behavior of reactive arc deposited Zr-Si-N coatings at room and high temperature. Surf. Coat. Tech., 304 (2016) 393-400; <https://doi.org/10.1016/j.surfcoat.2016.07.042>.
9. **Bakoglidis K.D.**, Schmidt S., Greczynski G., Hultman L. Improved adhesion of carbon nitride coatings on steel substrates using metal HiPIMS pretreatments. Surf. Coat. Tech., 302 (2016) 454-462; <http://dx.doi.org/10.1016/j.surfcoat.2016.06.048>.
10. **Bakoglidis K.D.**, Nedelcu I., Schmidt S., Greczynski G., Ehret P., Hultman L. Rolling contact fatigue of bearing components coated with carbon nitride thin films. Tribol. Int., 98 (2016) 100-107; <http://dx.doi.org/10.1016/j.triboint.2016.02.017>.
11. **Bakoglidis K.D.**, Schmidt S., Garbrecht M., Ivanov I., Jensen J., Greczynski G., Hultman L. Low-temperature growth of low friction wear-resistant amorphous carbon nitride thin films by mid-frequency, high power impulse, and direct current magnetron sputtering. J. Vac. Sci. Technol. A 33 (2015), 05E112 1-12; <http://dx.doi.org/10.1016/j.surfcoat.2016.06.048>.
12. **Bakoglidis K.D.**, Simeonidis K., Sakellari D., Stefanou G., Angelakeris M. Size-dependent mechanisms in AC magnetic hyperthermia response of iron-oxide nanoparticles. IEEE T. Magn., 48 (4) (2012) 1320-1323; <https://doi.org/10.1109/TMAG.2011.2173474>.

13. Papageorgiou D., **Bakoglidis K.D.** Use of nanomaterials for the improvement of various industrial and biomedical applications. A review. J. Environ. Prot. Ecol., 13 (2) (2012) 593-602.
14. Subedi B., Afouxenidis D., Polymeris G., **Bakoglidis K.D.**, Raptis S., Tsirliganis N., Kitis G. Thermal quenching of thermoluminescence in quartz samples of various origins. Mediterr. Archaeol. Ar., 10 (4) (2010) 69-75.