

## СВЕДЕНИЯ ОБ ОФИЦИАЛЬНОМ ОППОНЕНТЕ

**Фамилия, имя, отчество:** Максимкин Алексей Валентинович

**Полное наименование организации:** ФГАОУ ВО «Национальный исследовательский технологический университет «МИСиС»

**Ученая степень, ученое звание:** кандидат физико-математических наук

**Должность:** научный сотрудник

**Научная специальность, по которой защищена диссертация:**  
01.04.07 – физика конденсированного состояния

**Список основных публикаций официального оппонента по теме диссертации в рецензируемых научных изданиях за последние 5 лет (не более 15 публикаций):**

1. Maksimkin A. V et al. Transformation of the lamellar structure into nanofibrillar structure in the bulk oriented ultra high molecular weight polyethylene: mechanical and tribological properties // Mendeleev Commun. 2016. Vol. 26, № 4. P. 350–352.

2. Maksimkin A. V et al. The influence of fluorinated MWCNT distribution quality on the mechanical properties of the bulk oriented UHMWPE-based composites // Results Phys. 2017. Vol. 7. P. 1044–1045.

3. Maksimkin A. V et al. Fabrication of oriented UHMWPE films using low solvent concentration // Mater. Des. 2017. Vol. 115. P. 133–137.

4. Maksimkin A. V et al. Wear performance of bulk oriented nanocomposites UHMWPE/FMWCNT and metal-polymer composite sliding bearings // Wear. 2017. Vol. 392–393. P. 167–173.

5. Senatov F.S. et al. Comparative analysis of structure and mechanical properties of porous PEEK and UHMWPE biomimetic scaffolds // Mater. Lett. 2019. Vol. 239. P. 63–66.

6. Chukov D.I. et al. Comparison between self-reinforced composites based on ultra-high molecular weight polyethylene fibers and isotropic UHMWPE // Mendeleev Commun. 2020. Vol. 30, № 1. P. 49–51.

7. Dyachkova T. et al. Studying the surface of UHMWPE films modified with graphene nanoplatelets using a Raman mapping method // Fullerenes, Nanotub. Carbon Nanostructures. Taylor & Francis, 2020. Vol. 28, № 7. P. 561–564.

8. Chukov D.I. et al. Structure and mechanical properties of self-reinforced ultra-high molecular weight polyethylene // J. Compos. Mater. SAGE Publications Ltd STM, 2017. Vol. 52, № 12. P. 1689–1698.

9. Dayyoub T. et al. The Structure and Mechanical Properties of the UHMWPE Films Modified by the Mixture of Graphene Nanoplates with Polyaniline // Polymers (Basel). Multidisciplinary Digital Publishing Institute, 2018. Vol. 11, № 1. P. 23.

10. Maksimkin A. V et al. Coiled artificial muscles based on UHMWPE with large muscle stroke // Mater. Today Commun. 2019. Vol. 21. P. 100688.

11. Dayyoub T. et al. A New Approach Based on Glued Multi-Ultra High Molecular Weight Polyethylene Forms to Fabricate Bone Replacement Products // Polymers (Basel). Multidisciplinary Digital Publishing Institute, 2020. Vol. 12, № 11. P. 2545.

12. Blokhin A.N. et al. Polymer composites based on epoxy resin with added carbon nanotubes // Fullerenes, Nanotub. Carbon Nanostructures. Taylor & Francis, 2020. Vol. 28, № 1. P. 45–49.