

СВЕДЕНИЯ ОБ ОФИЦИАЛЬНЫХ ОППОНЕНТАХ

по докторской диссертации Кильмаметова Аскара Раитовича на тему «Закономерности структурно-фазовых превращений в металлических сплавах под воздействием интенсивной пластической деформации» по специальности 2.6.6 - Нанотехнологии и наноматериалы

№ п/п	Фамилия, имя, отчество	Полное наименование организации, являющейся основным местом работы	Ученая степень	Список основных публикаций по теме диссертации в рецензируемых научных изданиях
1.	Назаров Айрат Ахметович	ФГБУН Институт проблем сверхпластичности металлов Российской академии наук «ИПСМ РАН», г.н.с., зам. директора по научной работе (г. Уфа)	Доктор физико-математических наук, 01.04.07 - физика конденсированного состояния	<p>1. Shayakhmetova E.R. Ultrasonic welding of nickel with coarse and ultrafine grained structures / E.R. Shayakhmetova, M.A. Murzinova, A.A. Nazarov // Metals. - 2021. - V. 11. - # 1800.</p> <p>2. Nazarov A.A. Review: Nonequilibrium grain boundaries in bulk nanostructured metals and their recovery under the influences of heating and cyclic deformation / A.A. Nazarov // Letters on Materials. - 2018. - V. 8 (3). - P. 372-381.</p> <p>3. Samigullina A.A. Microstructure changes in ultrafine-grained nickel processed by high pressure torsion under ultrasonic treatment / A.A. Samigullina, A.A. Mukhametgalina, S.N. Sergeev, A.P. Zhilyaev, A.A. Nazarov, Yu.R. Zagidullina, N.Yu. Parkhimovich, V.V. Rubanik, Yu.V. Tsarenko // Ultrasonics. - 2018. - V. 82. - P. 313-321.</p> <p>4. Bachurin D.V. Discrete dislocation simulation of the ultrasonic relaxation of non-equilibrium grain boundaries in a deformed polycrystal / D.V. Bachurin, R.T. Murzaev, A.A. Nazarov // Ultrasonics. – 2021. – V. 117. # 106555.</p> <p>5. Mukhametgalina, A.A. Ultrasonic Treatment of Ti-5Al-0.5 V Alloy Subjected to Equal-Channel Angular Pressing / A.A. Mukhametgalina, M.A. Murzinova, A.A. Nazarov, A.A. Samigullina, M. Janeček, J. Stráský, K. Bartha, J. Čížek // Metals and Materials International. – 2021.</p> <p>6. Murzaev, R.T. Ultrasonic treatment of ultrafine-grained titanium / R.T. Murzaev, D.V. Bachurin, Mukhametgalina, A.A., M.A. Murzinova, A.A. Nazarov // Atomic and Solid State Physics. – 2020. - V. 384 (35). - # 126906.</p> <p>7. Samigullina, A.A. Effect of ultrasonic treatment on the structure of coarse-grained nickel / A.A. Samigullina, A.P. Zhilyaev, E.R. Shayakhmetova, A.A. Nazarov, A.A. Mukhametgalina // Materials Science and Engineering A. – 2020. - V. 772. - #138764.</p> <p>8. Bachurin, D.V. Relaxation of dislocation structures under ultrasonic influence / D.V. Bachurin, R.T. Murzaev, A.A. Nazarov // International Journal of Solids</p>

				and Structures. – 2019. - V. 156-157. - P. 1-13. 9.Nazarov, A.A. Nonequilibrium grain boundaries and their relaxation under oscillating stresses in columnar nickel nanocrystals studied by molecular dynamics / A.A. Nazarov, R.T. Murzaev // Computational Materials Science. – 2018. – V. 151. - P. 204-213.
2.	Найденкин Евгений Владимирович	ФГБУН «Институт физики прочности и материаловедения Сибирского отделения Российской академии наук», лаборатория физического материаловедения, заведующий лабораторией (г. Томск.)	Доктор физико-математических наук, 01.04.07 – физика конденсированного состояния	1. Lozhkomoev A.S. The formation of Fe-Cu composite based on bimetallic nanoparticles / A.S. Lozhkomoev, M.I. Lerner, A.V. Pervikov, E.V. Naidenkin, I.P. Mishin, A.B. Vorozhtsov, A.S. Apkarian, D.G. Eskin // Vacuum. – 2019. – V.159. – P.441-446. 2. Naydenkin E.V. The effect of interfaces on mechanical and superplastic properties of titanium alloys / E.V. Naydenkin, I.V. Ratochka, I.P. Mishin, O.N. Lykova, N.V. Varlamova // J Mat. Sci. – 2017. – V. 52, №. 8. – P. 4164-4171. 3. Ratochka, I.V. Low-temperature superplasticity of ultrafine-grained near β titanium alloy / I.V. Ratochka, E.V. Naydenkin, I.P. Mishin, O.N. Lykova, O.V. Zabudchenko // Journal of Alloys and Compounds. – 2022. –V. 891. - #161981. 4. Mishin, I.P. Evolution of structure, mechanical properties and fracture of β titanium alloy in the process of wire obtaining / I.P. Mishin, E.V. Naydenkin, O.V. Zabudchenko, A.I. Manisheva, D.I. Bobrov, E.K. Aleksandrovskiy // Materials Letters. – 2021. - V. 303. - #130476. 5. Naydenkin, E.V. Effect of combined rolling with subsequent aging on the structure, mechanical and fatigue properties of β titanium alloy / E.V. Naydenkin, I.P. Mishin, V.A. Oborin, A.I. Manisheva // Materials Letters. – 2021. - V. 300. - # 130132. 6. Naydenkin, E.V. Thermal Stability and S-Phase Evolution in Ultrafine-Grained Al–Mg–Li Alloy Produced by Equal-Channel Angular Pressing / E.V. Naydenkin, I.P. Mishin, O.V. Zabudchenko // Advanced Engineering Materials – 2021. – V. 23 (9). - # 2100181. 7. Naydenkin, E.V. Fatigue and fracture behavior of ultrafine-grained near β titanium alloy produced by radial shear rolling and subsequent aging / E.V. Naydenkin, I.P. Mishin, I.V. Ratochka, V.A. Oborin, M.V. Bannikov, D.A. Bilalov, K.E. Naydenkin // Materials Science and Engineering A. – 2021. – V. 810. - # 140968. 8. Ratochka, I.V. Effect of annealing on the superplastic properties of ultrafine-grained Ti–5Al–5V–5Mo–1Cr–1Fe alloy / I.V. Ratochka, I.P. Mishin, O.N. Lykova, E.V. Naydenkin // Materials Science and Engineering A. – 2021. V. 803. - # 140511. 9. Naydenkin, E.V. Structure and grain boundaries of ultrafine-grained nickel

				after rolling and forging at cryogenic temperature / E.V. Naydenkin, I.P. Mishin // Solid State Phenomena. 2021 - V. 313. - P. 31-40.
3.	Беляков Андрей Николаевич	ФГАОУ ВО Белгородский государственный национальный исследовательский университет, лаборатория механических свойств наноструктурных и жаропрочных материалов, ведущий научный сотрудник (г. Белгород)	Доктор физико-математических наук, 01.04.07 – физика конденсированного состояния	<p>1. Kusakin P. Advanced thermomechanical processing for a high-Mn austenitic steel / P. Kusakin, K. Tsuzaki, D.A. Molodov, R. Kaibyshev A. Belyakov // Metall. Mater. Trans. A – 2016. – V. 47. – P. 5704-5708</p> <p>2. Yanushkevich Z. Microstructural evolution of a 304-type austenitic stainless steel during rolling at temperatures of 773-1273 K / Z. Yanushkevich, A. Belyakov, R. Kaibyshev // Acta Mater. – 2015. – V. 82. – P. 244-254.</p> <p>3. Bodyakova, A. Thermal stability of gradient microstructure in a low-alloyed Cu-Cr-Zr alloy / A. Bodyakova, A. Pilipenko, A. Lugovskaya, A. Belyakov, R. Kaibyshev // Materials Letters. – 2021. - V. 304. - #130531.</p> <p>4. Dolzhenko, A. Outstanding impact toughness of low-alloyed steel with fine lamellar microstructure / A. Dolzhenko, R. Kaibyshev, A. Belyakov // Materials Letters. - 2021. - V. 303. - #130547.</p> <p>5. Dolzhenko, P. Peculiarities of DRX in a highly-alloyed austenitic stainless steel / P. Dolzhenko, M. Tikhonova, R. Kaibyshev, A. Belyakov // Materials. – 2021. – V. 14 (14). - # 4004.</p> <p>6. Torganchuk, V. On friction stir welding of a medium manganese austenitic steel / V. Torganchuk, I. Vysotskiy, S. Malopheyev, A. Belyakov, R. Kaibyshev // Philosophical Magazine. - 2021. – V. 101 (5). – P. 576-597.</p> <p>7. Dolzhenko, A. Tempforming as an advanced processing method for carbon steels / A. Dolzhenko, R. Kaibyshev, A. Belyakov // Metals. – 2020. – V. 10 (12). - # 1566. - P. 1-20.</p> <p>8. Köhnen, P. Controlling microstructure and mechanical properties of additively manufactured high-strength steels by tailored solidification / P. Köhnen, S. Ewald, J.H. Schleifenbaum, A. Belyakov, C. Haase // Additive Manufacturing. – 2020. – V. 35. - # 101389.</p> <p>9. Fang, X.W. Tailoring microstructure and texture of annealed Al-Mn alloy through the variation of homogenization and prior cold deformation strain / X.W. Fang, H. Xiao, K. Marthinsen, A. Belyakov, X.Y. Fang, K. Huang // Materials Characterization. – 2020. – V.166. - #110438.</p>

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