# Sergei Tarasov

List of Publications by Year
in descending order



| 159 | 2,261 | 218677 | 265206 |
|---|---|---|---|
| papers | citations | 26 h-index | 42 g-index |

| 161 | 161 | 161 | 1105 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Structural evolution of contact parts of the friction stir processing heat-resistant nickel alloy tool used for multi-pass processing of Ti6Al4V/(Cu+Al) system. Wear, 2022, 488-489, 204138. | 3.1 | 10 |
| 2 | Microstructure and properties of a nanostructured W-31Âwt% Cu composite produced by magnetic pulse compaction of bimetallic nanoparticles. International Journal of Refractory Metals and Hard Materials, 2022, 103, 105735. | 3.8 | 10 |
| 3 | Microstructural Evolution of AA5154 Layers Intermixed with Mo Powder during Electron Beam Wire-Feed Additive Manufacturing (EBAM). Metals, 2022, 12, 109. | 2.3 | 5 |
| 4 | In Situ Intermetallics-Reinforced Composite Prepared Using Multi-Pass Friction Stir Processing of Copper Powder on a Ti6Al4V Alloy. Materials, 2022, 15, 2428. | 2.9 | 4 |
| 5 | Plastic deformation and fragmentation of single-crystal pure copper during friction stir welding. AIP Conference Proceedings, 2022, , . | 0.4 | 0 |
| 6 | The Effect of Heat Input, Annealing, and Deformation Treatment on Structure and Mechanical Properties of Electron Beam Additive Manufactured (EBAM) Silicon Bronze. Materials, 2022, 15, 3209. | 2.9 | 6 |
| 7 | Self-Lubricating Effect of FeWO4 Tribologically Synthesized from WC-(Fe-Mn-C) Composite during High-Speed Sliding against a HSS Disk. Lubricants, 2022, 10, 86. | 2.9 | 9 |
| 8 | Self-Lubricating Effect of WC/Yâ€“TZPâ€“Al2O3 Hybrid Ceramicâ€“Matrix Composites with Dispersed Hadfield Steel Particles during High-Speed Sliding against an HSS Disk. Lubricants, 2022, 10, 140. | 2.9 | 5 |
| 9 | Characterization of gradient CuAlâ€“B4C composites additively manufactured using a combination of wire-feed and powder-bed electron beam deposition methods. Journal of Alloys and Compounds, 2021, 859, 157824. | 5.5 | 31 |
| 10 | Structure and Mechanical Properties of Cuâ€“Alâ€“Siâ€“Mn System-Based Copper Alloy Obtained by Additive Manufacturing. Russian Physics Journal, 2021, 64, 333-339. | 0.4 | 7 |
| 11 | In Situ Investigation of Strain Localization in Sintered, Porous Segmented Alumina. Materials, 2021, 14, 3720. | 2.9 | 4 |
| 12 | The effect of counterbody on tribological adaptation of an electron beam deposited HSS M2 steel coating in a range of sliding speeds and normal loads. Tribology International, 2021, 161, 107109. | 5.9 | 4 |
| 13 | Evolution of Microstructure in Friction Stir Processed Dissimilar CuZn37/AA5056 Stir Zone. Materials, 2021, 14, 5208. | 2.9 | 4 |
| 14 | Tribo-oxidation of Ti-Al-Fe and Ti-Al-Mn cladding layers obtained by non-vacuum electron beam treatment. Surface and Coatings Technology, 2021, 421, 127442. | 4.8 | 7 |
| 15 | Subsurface multilayer evolution of ZrB2â€“SiC ceramics in high-speed sliding and adhesion transfer conditions. Wear, 2021, 482-483, 203956. | 3.1 | 6 |
| 16 | Heat Input Effect on Microstructure and Mechanical Properties of Electron Beam Additive Manufactured (EBAM) Cu-7.5wt.%Al Bronze. Materials, 2021, 14, 6948. | 2.9 | 11 |
| 17 | Microstructure and Corrosion Resistance of AA4047/AA7075 Transition Zone Formed Using Electron Beam Wire-Feed Additive Manufacturing. Materials, 2021, 14, 6931. | 2.9 | 6 |
| 18 | Strength and Ductility Improvement through Thermomechanical Treatment of Wire-Feed Electron Beam Additive Manufactured Low Stacking Fault Energy (SFE) Aluminum Bronze. Metals, 2020, 10, 1568. | 2.3 | 17 |

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| 19 | Anisotropy of the mechanical properties of the aluminum bronze obtained by the electron beam additive manufacturing. AIP Conference Proceedings, 2020, , . | 0.4 | 1 |
| 20 | Suppression of wear in dry sliding friction induced by negative thermal expansion. Physical Review E, 2020, 102, 042801. | 2.1 | 6 |
| 21 | A Review of Friction Stir Processing of Structural Metallic Materials: Process, Properties, and Methods. Metals, 2020, 10, 772. | 2.3 | 49 |
| 22 | Controlling the porosity using exponential decay heat input regimes during electron beam wire-feed additive manufacturing of Al-Mg alloy. International Journal of Advanced Manufacturing Technology, 2020, 108, 2823-2838. | 3.0 | 38 |
| 23 | Microstructural Analysis of Friction Stir Butt Welded Al-Mg-Sc-Zr Alloy Heavy Gauge Sheets. Metals, 2020, 10, 806. | 2.3 | 21 |
| 24 | Microstructure of In-Situ Friction Stir Processed Al-Cu Transition Zone. Metals, 2020, 10, 818. | 2.3 | 19 |
| 25 | Adaptation and self-healing effect of tribo-oxidizing in high-speed sliding friction on ZrB2-SiÐ¡ ceramic composite. Wear, 2020, 446-447, 203204. | 3.1 | 19 |
| 26 | Gradient transition zone structure in â€œsteelâ€“copperâ€•sample produced by double wire-feed electron beam additive manufacturing. Journal of Materials Science, 2020, 55, 9258-9272. | 3.7 | 62 |
| 27 | Study of the Structure and Mechanical Properties of Aluminum Bronze Printed by Electron Beam Additive Manufacturing. Metal Working and Material Science, 2020, 22, 118-129. | 0.3 | 1 |
| 28 | An experimental study of the wear resistance of ferrite-pearlite steel printed by electron beam additive manufacturing. AIP Conference Proceedings, 2020, , . | 0.4 | 1 |
| 29 | The Effect of the Structural State of AISI 321 Stainless Steel on Surface Quality During Turning. Metal Working and Material Science, 2020, 22, 102-113. | 0.3 | 0 |
| 30 | Tribological behavior of ZrB2-SiC ceramics during dry sliding on steel. AIP Conference Proceedings, 2020, , . | 0.4 | 0 |
| 31 | Nanoindentation of ZrB2-SiC worn surface after high-speed sliding. AIP Conference Proceedings, 2020, , . | 0.4 | 0 |
| 32 | Structure and mechanical properties of ferritic-pearlite steel printed by electron beam additive manufacturing. AIP Conference Proceedings, 2020, , . | 0.4 | 1 |
| 33 | Influence of the structural state on the development of the dynamics of friction processes during dry sliding friction of ferritic-pearlitic steel. AIP Conference Proceedings, 2020, , . | 0.4 | 0 |
| 34 | Self-adaptation mechanisms in the subsurface of different CMCs and MMCs in high-speed sliding. AIP Conference Proceedings, 2020, , . | 0.4 | 0 |
| 35 | Peculiarities of the boron carbide particles reinforced aluminum bronze manufactured by electron beam 3D printing. AIP Conference Proceedings, 2020, , . | 0.4 | 0 |
| 36 | The Microstructural Evolution and Wear of Weld Deposited M2 Steel Coating After Laser Spot Melting. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 4307-4318. | 2.2 | 2 |

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| 37 | Nondestructive Testing of CubSat Satellite Body Using Laser Vibrometry. Russian Journal of Nondestructive Testing, 2019, 55, 418-425. | 0.9 | 4 |
| 38 | Microstructural evolution and chemical corrosion of electron beam wire-feed additively manufactured AISI 304 stainless steel. Journal of Alloys and Compounds, 2019, 803, 364-370. | 5.5 | 72 |
| 39 | Surface Quality of AMg2 Aluminum Alloy with Ultrafine Grain Structure after Machining 2. Milling. Russian Engineering Research, 2019, 39, 436-438. | 0.6 | 2 |
| 40 | Towards aging in a multipass friction stirâ€“processed ÐÐ2024. International Journal of Advanced Manufacturing Technology, 2019, 103, 2121-2132. | 3.0 | 22 |
| 41 | Ultrasonic-assisted laser welding on AISI 321 stainless steel. Welding in the World, Le Soudage Dans Le Monde, 2019, 63, 875-886. | 2.5 | 27 |
| 42 | Wear, vibration and acoustic emission characterization of sliding friction processes of coarse-grained and ultrafine-grained copper. Wear, 2019, 424-425, 78-88. | 3.1 | 18 |
| 43 | Structural, Mechanical, and Tribological Characterization of Magnetic Pulse Compacted Feâ€“Cu Bimetallic Particles Produced by Electric Explosion of Dissimilar Metal Wires. Metals, 2019, 9, 1287. | 2.3 | 5 |
| 44 | Infrared thermography inspection of severe friction on UFG stainless steel, copper and aluminum alloy. AIP Conference Proceedings, 2019, , . | 0.4 | 0 |
| 45 | Deformation behavior of Cu-1.5Co-3Al single crystals during sliding friction. AIP Conference Proceedings, 2019, , . | 0.4 | 0 |
| 46 | Indentation and scratch testing of coarse-grained and ultrafine-grained AA6063. AIP Conference Proceedings, 2019, , . | 0.4 | 0 |
| 47 | Nanoindentation on coarse-grained (CG) and ultrafine-grained (UFG) C11000 grade copper. AIP Conference Proceedings, 2019, , . | 0.4 | 0 |
| 48 | Influence of Intense Bulk Plastic Deformation on the Roughness of a Milled AISI 321 Stainless Steel Surface. Russian Engineering Research, 2019, 39, 986-989. | 0.6 | 7 |
| 49 | Microstructural, mechanical and acoustic emission-assisted wear characterization of equal channel angular pressed (ECAP) low stacking fault energy brass. Tribology International, 2018, 123, 273-285. | 5.9 | 28 |
| 50 | Detecting transition to chatter mode in peakless tool turning by monitoring vibration and acoustic emission signals. International Journal of Advanced Manufacturing Technology, 2018, 95, 157-169. | 3.0 | 22 |
| 51 | The effect of plasma torch weaving on microstructural evolution in multiple-pass plasma-transferred arc Fe-Cr-V-Mo-C coating. Surface and Coatings Technology, 2018, 344, 75-84. | 4.8 | 14 |
| 52 | The effect of equal channel angular pressing on structure and machining quality of AA5052. AIP Conference Proceedings, 2018, , . | 0.4 | 0 |
| 53 | Dynamic of friction on ultrafine-grained Cu-Zn brass. AIP Conference Proceedings, 2018, , . | 0.4 | 0 |
| 54 | Acoustic emission response to severe friction in deformation by cutting on metals and alloys. AIP Conference Proceedings, 2018, , . | 0.4 | 0 |

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| 55 | Surface Quality of AMg2 Aluminum Alloy with Ultrafine Grain Structure after Machining. 1. Turning. Russian Engineering Research, 2018, 38, 1067-1070. | 0.6 | 1 |
| 56 | The annealing effect on scratch testing behavior of ultrafine-grained brass. AIP Conference Proceedings, 2018, , . | 0.4 | 1 |
| 57 | Acoustic emission as method of chatter detection in cutting. AIP Conference Proceedings, 2018, , . | 0.4 | 3 |
| 58 | The effect of annealing on structure and phase composition of ultrafine-grained AISI 321 stainless steel. AIP Conference Proceedings, 2018, , . | 0.4 | 0 |
| 59 | Dynamics of friction processes on stainless steel AISI 201 with coarse and ultrafine-grained structure. AIP Conference Proceedings, 2018, , . | 0.4 | 0 |
| 60 | Scratch testing of coarse-grained and ultra fine-grained copper. AIP Conference Proceedings, 2018, , . | 0.4 | 1 |
| 61 | Dynamic behavior of friction ultrafine-grained AA5052. AIP Conference Proceedings, 2018, , . | 0.4 | 2 |
| 62 | Dynamics of friction processes on Alâ€“Znâ€“Mgâ€“Cu alloy with coarse-grained or ultrafine-grained structure. AIP Conference Proceedings, 2018, , . | 0.4 | 0 |
| 63 | Microstructure and tensile properties of Cuâ€“Zn brass after severe plastic deformation. AIP Conference Proceedings, 2018, , . | 0.4 | 9 |
| 64 | The Features of Structure Formation in Chromium-Nickel Steel Manufactured by a Wire-Feed Electron Beam Additive Process. Russian Physics Journal, 2018, 61, 1491-1498. | 0.4 | 18 |
| 65 | Selection of the severe plastic deformation mode for improving mechanical properties of AISI 201 steel. AIP Conference Proceedings, 2018, , . | 0.4 | 0 |
| 66 | Effect of heat input on phase content, crystalline lattice parameter, and residual strain in wire-feed electron beam additive manufactured 304 stainless steel. International Journal of Advanced Manufacturing Technology, 2018, 99, 2353-2363. | 3.0 | 74 |
| 67 | Subsurface structural evolution and wear lip formation on copper single crystals under unlubricated sliding conditions. Wear, 2018, 410-411, 210-221. | 3.1 | 19 |
| 68 | Acoustic emission characterization of sliding wear under condition of direct and inverse transformations in low-temperature degradation aged Y-TZP and Y-TZP-AL2O3. Friction, 2018, 6, 323-340. | 6.4 | 17 |
| 69 | The Effect of Equal-Channel Angular Pressing on the Surface Quality of Aluminum Alloy 7075 after Milling. Metal Working and Material Science, 2018, 20, 96-106. | 0.3 | 0 |
| 70 | Ultrasonic-assisted aging in friction stir welding on Al-Cu-Li-Mg aluminum alloy. Welding in the World, Le Soudage Dans Le Monde, 2017, 61, 679-690. | 2.5 | 68 |
| 71 | Acoustic emission study of surface deterioration in tribocontacting. Applied Acoustics, 2017, 117, 106-112. | 3.3 | 37 |
| 72 | Adhesion transfer in sliding a steel ball against an aluminum alloy. Tribology International, 2017, 115, 191-198. | 5.9 | 72 |

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| 73 | Vibration and acoustic emission monitoring the stability of peakless tool turning: Experiment and modeling. Journal of Materials Processing Technology, 2017, 246, 224-234. | 6.3 | 55 |
| 74 | Structural modification in a re-heated bead-overlapping zone of the multiple-pass plasma-transferred arc Fe-Cr-V-Mo-C coating. Surface and Coatings Technology, 2017, 329, 272-280. | 4.8 | 14 |
| 75 | Mathematical support for automated geometry analysis of lathe machining of oblique peakless roundâ€“nose tools. Journal of Physics: Conference Series, 2017, 803, 012041. | 0.4 | 5 |
| 76 | Mechanical strength of multicomponent reinforced composite structures at different temperatures. AIP Conference Proceedings, 2017, , . | 0.4 | 1 |
| 77 | Friction-stir processed ultrafine grain high-strength Al-Mg alloy material. AIP Conference Proceedings, 2017, , . | 0.4 | 15 |
| 78 | Modal analysis of additive manufactured carbon fiber reinforced polymer composite: Experiment and modeling. AIP Conference Proceedings, 2017, , . | 0.4 | 0 |
| 79 | Towards the effect of acoustic emission (AE) sensor positioning within AE signal parameters in sliding on bulk ultrafine-grained materials. AIP Conference Proceedings, 2017, , . | 0.4 | 0 |
| 80 | Compression strain-induced folding at intersecting deformation macrobands on the copper single crystals. AIP Conference Proceedings, 2017, , . | 0.4 | 0 |
| 81 | High-strength friction stir processed dispersion hardened Al-Cu-Mg alloy. AIP Conference Proceedings, 2017, , . | 0.4 | 18 |
| 82 | AA2024 microstructural evolution after bidirectional friction stir processing. AIP Conference Proceedings, 2017, , . | 0.4 | 4 |
| 83 | Modeling acoustic wave propagation in isotropic medium. AIP Conference Proceedings, 2017, , . | 0.4 | 1 |
| 84 | Adhesion transfer layer formation in sliding on equal-channel angle pressed ultrafine grained AA6063. AIP Conference Proceedings, 2017, , . | 0.4 | 2 |
| 85 | Sliding dynamics on ultrafine grained Alâ€“6 wt % Mg made by equal channel single pressing. AIP Conference Proceedings, 2017, , . | 0.4 | 0 |
| 86 | Modal analysis of additive manufactured carbon fiber reinforced polymer composite framework: Experiment and modeling. AIP Conference Proceedings, 2016, , . | 0.4 | 1 |
| 87 | Mechanical strength of additive manufactured carbon fiber reinforced polyetheretherketone. AIP Conference Proceedings, 2016, , . | 0.4 | 1 |
| 88 | Towards the problem of forming full strength welded joints on aluminum alloy sheets. Part II: AA7475. AIP Conference Proceedings, 2016, , . | 0.4 | 6 |
| 89 | Microstructure of Fixed Butt Joints Formed by Friction Stir Welding on 2024T3 Aluminum Alloy. Key Engineering Materials, 2016, 683, 203-208. | 0.4 | 4 |
| 90 | Diagnostics of flexible workpiece using acoustic emission, acceleration and eddy current sensors in milling operation. AIP Conference Proceedings, 2016, , . | 0.4 | 0 |

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| 91 | Oriented microtexturing on the surface of high-speed steel cutting tool. AIP Conference Proceedings, 2016, , . | 0.4 | 2 |
| 92 | An experimental modeling and acoustic emission monitoring of abrasive wear in a steel/diabase pair. AIP Conference Proceedings, 2016, , . | 0.4 | 0 |
| 93 | Towards identifying the dynamics of sliding by acoustic emission and vibration. AIP Conference Proceedings, 2016, , . | 0.4 | 0 |
| 94 | Application of 3D Ð¡omputed Microtomography for Investigating the Microstructural Defects of Carbon Fiber Reinforced Composite Made by 3D-Printing. Key Engineering Materials, 2016, 712, 324-327. | 0.4 | 2 |
| 95 | Tensile strength on friction stir processed AMg5 (5083) aluminum alloy. AIP Conference Proceedings, 2016, , . | 0.4 | 1 |
| 96 | Minkowski functionals and fractography of aluminum alloys. AIP Conference Proceedings, 2016, , . | 0.4 | 0 |
| 97 | Orientation dependence of compression deformation on 1570C aluminum alloy. AIP Conference Proceedings, 2016, , . | 0.4 | 0 |
| 98 | Mechanical strength characterization of three-component composite structural components. AIP Conference Proceedings, 2016, , . | 0.4 | 0 |
| 99 | Structure and tensile fracture of 1570C aluminum alloy. AIP Conference Proceedings, 2016, , . | 0.4 | 17 |
| 100 | Effect of adhesion transfer on the surface pattern regularity in nanostructuring burnishing. AIP Conference Proceedings, 2016, , . | 0.4 | 2 |
| 101 | Mechanical properties of three-component additive manufactured composites at elevated and cool temperatures. AIP Conference Proceedings, 2016, , . | 0.4 | 0 |
| 102 | Strain-induced folding on [11Â¯1Â¯]-copper single crystals under uniaxial compression. Applied Surface Science, 2016, 371, 547-561. | 6.1 | 28 |
| 103 | Toward control of subsurface strain accumulation in nanostructuring burnishing on thermostrengthened steel. Surface and Coatings Technology, 2016, 285, 171-178. | 4.8 | 40 |
| 104 | Effect of Ultrasonic Application during Friction Stir Welding on Microstructure and Properties of AA2024 Fixed Joints. Key Engineering Materials, 2016, 683, 227-231. | 0.4 | 17 |
| 105 | Radioscopy of remnant joint line in a friction stir welded seam. Russian Journal of Nondestructive Testing, 2015, 51, 573-579. | 0.9 | 11 |
| 106 | Effect of friction stir welding parameters on defect formation. AIP Conference Proceedings, 2015, , . | 0.4 | 22 |
| 107 | Ultrasonic-assisted friction stir welding on V95AT1 (7075) aluminum alloy. AIP Conference Proceedings, 2015, , . | 0.4 | 5 |
| 108 | Friction stir processing on high carbon steel U12. AIP Conference Proceedings, 2015, , . | 0.4 | 0 |

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| 109 | Structure and properties of fixed joints formed by ultrasonic-assisted friction-stir welding. AIP Conference Proceedings, 2015, , . | 0.4 | 9 |
| 110 | Stress and strain analysis of steel subsurface layers under nanostructuring burnishing. AIP Conference Proceedings, 2015, , . | 0.4 | 2 |
| 111 | Microstructure of AA 2024 fixed joints formed by friction stir welding. AIP Conference Proceedings, 2015, , . | 0.4 | 3 |
| 112 | Diffusion-controlled wear of steel friction stir welding tools used on aluminum alloys. AIP Conference Proceedings, 2015, , . | 0.4 | 12 |
| 113 | Macrosegmentation and strain hardening stages in copper single crystals under compression. International Journal of Plasticity, 2015, 69, 36-53. | 8.8 | 36 |
| 114 | General regularities of the microstructure formation during friction stir welding and sliding friction. Journal of Friction and Wear, 2015, 36, 127-131. | 0.5 | 33 |
| 115 | Friction-Burnishing Treatment of Medium-Carbon Steel. Metal Science and Heat Treatment, 2015, 57, 334-338. | 0.6 | 0 |
| 116 | Nanostructuring burnishing and subsurface shear instability. Journal of Materials Processing Technology, 2015, 217, 327-335. | 6.3 | 55 |
| 117 | THE USE OF NON-DESTRUCTIVE TESTING METHODS FOR DIAGNOSTICS OF FRICTION STIR WELD FLAWS. Kontrol Diagnostika, 2015, , 51-58. | 0.1 | 2 |
| 118 | Plastic strain arrangement in copper single crystals in sliding. , 2014, , . | | 3 |
| 119 | Thermography inspection of friction stir welding. , 2014, , . | | 17 |
| 120 | Ultrasonic phase array and eddy current methods for diagnostics of flaws in friction stir welds. , 2014, , . | | 2 |
| 121 | Friction stir processing on carbon steel. , 2014, , . | | 2 |
| 122 | Radiographic detection of defects in friction stir welding on aluminum alloy AMg5M. AIP Conference Proceedings, 2014, , . | 0.4 | 6 |
| 123 | The effect of friction stir welding tool wear on the weld quality of aluminum alloy AMg5M. AIP Conference Proceedings, 2014, , . | 0.4 | 5 |
| 124 | Identification of conditions for nanostructured burnishing and subsurface shear instability. , 2014, , . | | 0 |
| 125 | The microstructural aspects of abrasive wear resistance in composite electron beam clad coatings. Applied Surface Science, 2014, 293, 318-325. | 6.1 | 16 |
| 126 | A proposed diffusion-controlled wear mechanism of alloy steel friction stir welding (FSW) tools used on an aluminum alloy. Wear, 2014, 318, 130-134. | 3.1 | 75 |

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| 127 | Orientation dependence of subsurface deformation in dry sliding wear of Cu single crystals. Applied Surface Science, 2013, 274, 22-26. | 6.1 | 28 |
| 128 | Structural phase states and heat aging of composite electron-beam clad coatings. Surface and Coatings Technology, 2013, 232, 775-783. | 4.8 | 22 |
| 129 | Folding on the lateral sides of copper monocrystals loaded by uniaxial compression and friction. Letters on Materials, 2013, 3, 202-205. | 0.7 | 0 |
| 130 | Structure and Abrasive Wear of Composite HSS M2/WC Coating. Advances in Tribology, 2012, 2012, 1-9. | 2.1 | 0 |
| 131 | Subsurface deformation in copper single crystals during reciprocal sliding. Physics of the Solid State, 2012, 54, 2034-2038. | 0.6 | 17 |
| 132 | The effect of thermal cycling by electron-beam surfacing on structure and wear resistance of deposited M2 steel. Applied Surface Science, 2012, 263, 215-222. | 6.1 | 35 |
| 133 | One-dimensional model of inhomogeneous shear in sliding. Physical Mesomechanics, 2012, 15, 337-341. | 1.9 | 25 |
| 134 | Shear instability in the subsurface layer of a material in friction. Physics of the Solid State, 2011, 53, 358-362. | 0.6 | 26 |
| 135 | Formation of surface layer with nanosize grain-subgrain structure due to friction of a copper â€“ tool steel pair. Metal Science and Heat Treatment, 2010, 52, 183-188. | 0.6 | 11 |
| 136 | Scale-dependent subsurface deformation of metallic materials in sliding. Tribology International, 2010, 43, 695-699. | 5.9 | 46 |
| 137 | Subsurface shear instability and nanostructuring of metals in sliding. Wear, 2010, 268, 59-66. | 3.1 | 50 |
| 138 | Generation of shear bands in subsurface layers of metals in sliding. Physics of the Solid State, 2008, 50, 844-847. | 0.6 | 40 |
| 139 | The evolution of the surface layers on metals in sliding friction. Journal of Friction and Wear, 2007, 28, 514-520. | 0.5 | 6 |
| 140 | Localization of strain in friction. Metal Science and Heat Treatment, 2006, 48, 226-230. | 0.6 | 6 |
| 141 | Wear resistance of structural steel in lubricants bearing metal nanopowders. Metal Science and Heat Treatment, 2005, 47, 560-565. | 0.6 | 9 |
| 142 | Codon-Optimized Cloning, Expression and Characterization of the C-Terminal Region of Human Apoptotic Protein GADD34 in Escherichia coli. Cell Cycle, 2004, 3, 74-78. | 2.6 | 5 |
| 143 | Alloying contact zones by metallic nanopowders in sliding wear. Wear, 2004, 257, 523-530. | 3.1 | 20 |
| 144 | The effect of pulsed electron beam melting on microstructure, friction and wear of WCâ€“Hadfield steel hard metal. Wear, 2004, 257, 97-103. | 3.1 | 40 |

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| 145 | Study of friction reduction by nanocopper additives to motor oil. Wear, 2002, 252, 63-69. | 3.1 | 269 |
| 146 | Subsurface layer formation during sliding friction. Wear, 2001, 249, 860-867. | 3.1 | 65 |
| 147 | Wear and friction of transformation-toughened CMC and MMC. Wear, 2001, 249, 892-900. | 3.1 | 8 |
| 148 | Structural changes of the friction surface and wear resistance of a ZrO2-Y2O3 ceramic. Technical Physics Letters, 2000, 26, 461-463. | 0.7 | 1 |
| 149 | Effect of friction on subsurface layer microstructure in austenitic and martensitic steels. Wear, 1999, 231, 228-234. | 3.1 | 41 |
| 150 | Application of fractals to the analysis of friction processes. Technical Physics Letters, 1999, 25, 119-121. | 0.7 | 3 |
| 151 | Formation of a surface-layer substructure due to friction. Russian Physics Journal, 1997, 40, 200-204. | 0.4 | 2 |
| 152 | Friction and the development of hard alloy surface microstructures during wear. Journal of Materials Engineering and Performance, 1997, 6, 737-742. | 2.5 | 3 |
| 153 | Structural properties of boride coatings for triboengineering. Metal Science and Heat Treatment, 1995, 37, 257-260. | 0.6 | 4 |
| 154 | Hardening treatment for the sliding supports of drill bits. Chemical and Petroleum Engineering (English Translation of Khimicheskoe I Neftyanoe Mashinostroenie), 1993, 29, 188-190. | 0.3 | 0 |
| 155 | Structure in surface frictional layers on 36NKhTYu alloy. Soviet Physics Journal (English Translation) Tj ETQq1 1 0.784314 rgBT /Overlo | 0.0 | 1 |
| 156 | Fragmentation, Texturing and Plastic Flow in the Subsurface of Friction-Processed Copper Single Crystal. Advanced Materials Research, 0, 872, 30-35. | 0.3 | 15 |
| 157 | Structure and Properties of Multicomponent Tin Leaded Bronzes upon Die-Casting Depending on Pouring Temperature. Applied Mechanics and Materials, 0, 756, 281-285. | 0.2 | 1 |
| 158 | Wrinkling and Folding in Copper Single Crystals under Compression and Sliding. Advanced Materials Research, 0, 1085, 351-354. | 0.3 | 1 |
| 159 | Mechanical Properties of Additive Manufactured Complex Matrix Three-Component Carbon Fiber Reinforced Composites. Key Engineering Materials, 0, 712, 232-236. | 0.4 | 0 |