# Nikolay Myagkov

List of Publications by Year
in descending order

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|---|---|---|---|
| 31<br>papers | 54<br>citations | 1937685<br>4<br>h-index | 1872680<br>6<br>g-index |
| 31<br>all docs | 31<br>docs citations | 31<br>times ranked | 34<br>citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | Fragmentation model for expanding cylinder. International Journal of Fracture, 2014, 187, 239-243. | 2.2 | 9 |
| 2 | Scaling invariance of spherical projectile fragmentation upon high-velocity impact on a thin continuous shield. Journal of Experimental and Theoretical Physics, 2017, 124, 57-69. | 0.9 | 9 |
| 3 | Double explosion in a perfect gas. Journal of Applied Mechanics and Technical Physics, 1982, 22, 545-551. | 0.5 | 5 |
| 4 | On hypervelocity penetration of the mesh-bumper strings into a projectile. International Journal of Impact Engineering, 2009, 36, 468-475. | 5.0 | 5 |
| 5 | Studying the redistribution of kinetic energy between the morphologically distinct parts of the fragments cloud formed from high-velocity impact fragmentation of an aluminum sphere on a steel mesh. AIMS Materials Science, 2019, 6, 685-696. | 1.4 | 4 |
| 6 | Nonlinear waves in shock-loaded condensed matter. Journal Physics D: Applied Physics, 1994, 27, 1678-1686. | 2.8 | 3 |
| 7 | On hydrodynamic instability of the ozone layer. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 359, 681-684. | 2.1 | 3 |
| 8 | CHARACTERISTIC FEATURES OF PROJECTILE FRAGMENTATION ON A MESH BUMPER AT HIGH-VELOCITY IMPACT. Composites: Mechanics, Computations, Applications, 2012, 3, 35-49. | 0.3 | 3 |
| 9 | Estimating parameters of fragments forming at penetration of periodic system of strings into a semi-infinite target. International Journal of Impact Engineering, 2013, 61, 13-23. | 5.0 | 3 |
| 10 | Modeling of high-velocity impact ejecta by experiments with a water drop impacting on a water surface. Acta Mechanica, 2016, 227, 2911-2924. | 2.1 | 3 |
| 11 | Shock wave propagation in a double explosion in a gas with counterpressure. Journal of Applied Mechanics and Technical Physics, 1984, 24, 698-702. | 0.5 | 2 |
| 12 | Interaction of nonlinear waves in materials with elastoplastic behavior. Journal of Applied Mechanics and Technical Physics, 1994, 35, 246-256. | 0.5 | 1 |
| 13 | Asymptotic Modeling of Nonlinear Wave Processes in Shock‐Loaded Elastoplastic Materials. Journal of Applied Mechanics and Technical Physics, 2003, 44, 249-254. | 0.5 | 1 |
| 14 | Scaling Invariance and Characteristics of the Cloud of Spherical Projectile Fragmentation Products upon High-Velocity Impact on a Thin Mesh Shield. Journal of Experimental and Theoretical Physics, 2018, 126, 50-63. | 0.9 | 1 |
| 15 | Model for the Interaction of a Rigid String with a Deformable Target. Russian Metallurgy (Metally), 2019, 2019, 294-300. | 0.5 | 1 |
| 16 | Fragmentation model of a rapidly expanding ring with arbitrary cross-section. Meccanica, 2019, 54, 1219-1224. | 2.0 | 1 |
| 17 | Propagation of a shock pulse train in dense media. Journal of Applied Mechanics and Technical Physics, 1982, 23, 450-456. | 0.5 | 0 |
| 18 | Nonlinear waves in a Maxwellian medium. Journal of Applied Mechanics and Technical Physics, 1987, 27, 779-784. | 0.5 | 0 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | A cylindrical double explosion. Journal of Applied Mechanics and Technical Physics, 1990, 30, 886-888. | 0.5 | 0 |
| 20 | Modeling of strain localization in the dynamics of a softening rod. Technical Physics Letters, 1999, 25, 822-824. | 0.7 | 0 |
| 21 | Propagation of Quasiacoustic Pulses in an Elastoplastic Medium. Journal of Applied Mechanics and Technical Physics, 2003, 44, 122-128. | 0.5 | 0 |
| 22 | Study of nanostructures on a solar cell surface exposed on the Mir orbital station. Journal of Surface Investigation, 2011, 5, 905-910. | 0.5 | 0 |
| 23 | Approximate modeling of wave processes in elastoplastic solids. Acta Mechanica, 2012, 223, 2379-2392. | 2.1 | 0 |
| 24 | On possibility of clustering of microparticles of orbital debris in circular and elliptical orbits. Solar System Research, 2012, 46, 144-148. | 0.7 | 0 |
| 25 | Model of interaction of a rigid mesh with a deformable target. Meccanica, 2021, 56, 179-193. | 2.0 | 0 |
| 26 | Studies of the Fragmentation of Spherical Aluminum Projectiles on a Heavy Mesh at Velocities of up to 7 km/s. Journal of Experimental and Theoretical Physics, 2021, 132, 177-188. | 0.9 | 0 |
| 27 | Critical behavior for impact fragmentation of spherical solid bodies sensitive to strain rate. Journal of Statistical Mechanics: Theory and Experiment, 2021, 2021, 113201. | 2.3 | 0 |
| 28 | Some Features of Fragmentation of an Aluminum Projectile at Various Velocities of Penetration into a Mesh Bumper. Prikladnaâ Mehanika, Tehničeskaâ Fizika, 2021, 62, 97-107. | 0.0 | 0 |
| 29 | Model of Change of an Ejection Angle in the Case of Penetration of an Impactor into a Massive Target. Prikladnaâ Mehanika, Tehničeskaâ Fizika, 2022, 63, 130-137. | 0.0 | 0 |
| 30 | SOME FEATURES OF FRAGMENTATION OF AN ALUMINUM PROJECTILE AT VARIOUS VELOCITIES OF PENETRATION INTO A MESH BUMPER. Journal of Applied Mechanics and Technical Physics, 2021, 62, 972-980. | 0.5 | 0 |
| 31 | MODEL OF CHANGE OF AN EJECTION ANGLE IN THE CASE OF PENETRATION OF AN IMPACTOR INTO A MASSIVE TARGET. Journal of Applied Mechanics and Technical Physics, 2022, 63, 111-117. | 0.5 | 0 |