# Mikhail Katanaev

List of Publications by Year
in descending order



| 55 | 1,170 | 567281 15 | 395702 33 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 58 | 58 | 58 | 321 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Disclinations in the Geometric Theory of Defects. Proceedings of the Steklov Institute of Mathematics, 2021, 313, 78-98. | 0.3 | 7 |
| 2 | Spin Distribution for the â€™t Hooftâ€“Polyakov Monopole in the Geometric Theory of Defects. Universe, 2021, 7, 256. | 2.5 | 4 |
| 3 | Gravity with dynamical torsion. Classical and Quantum Gravity, 2021, 38, 015014. | 4.0 | 3 |
| 4 | Nonrelativistic Limit of the Bosonic String. Proceedings of the Steklov Institute of Mathematics, 2020, 309, 183-193. | 0.3 | 0 |
| 5 | The â€™t Hooftâ€“Polyakov monopole in the geometric theory of defects. Modern Physics Letters B, 2020, 34, 2050126. | 1.9 | 9 |
| 6 | Global properties of warped solutions in general relativity with an electromagnetic field and a cosmological constant. II.. Physical Review D, 2020, 101, . | 4.7 | 0 |
| 7 | Point disclinations in the Chernâ€“Simons geometric theory of defects. Modern Physics Letters B, 2020, 34, 2150012. | 1.9 | 6 |
| 8 | Global properties of warped solutions in general relativity with an electromagnetic field and a cosmological constant. Physical Review D, 2019, 100, . | 4.7 | 1 |
| 9 | Gauge Parameterization of the n-Field. Proceedings of the Steklov Institute of Mathematics, 2019, 306, 127-134. | 0.3 | 2 |
| 10 | Normal Coordinates in Affine Geometry. Lobachevskii Journal of Mathematics, 2018, 39, 464-476. | 0.9 | 4 |
| 11 | Chernâ€”Simons Action and Disclinations. Proceedings of the Steklov Institute of Mathematics, 2018, 301, 114-133. | 0.3 | 9 |
| 12 | Description of Disclinations and Dislocations by the Chernâ€“Simons Action for $$mathbb{S}mathbb{O}(3)$$ Connection. Physics of Particles and Nuclei, 2018, 49, 890-893. | 0.7 | 5 |
| 13 | Cosmological models with homogeneous and isotropic spatial sections. Theoretical and Mathematical Physics(Russian Federation), 2017, 191, 661-668. | 0.9 | 8 |
| 14 | Chern-Simons term in the geometric theory of defects. Physical Review D, 2017, 96, . | 4.7 | 9 |
| 15 | Killing vector fields and a homogeneous isotropic universe. Physics-Uspekhi, 2016, 59, 689-700. | 2.2 | 14 |
| 16 | Rotational elastic waves in a cylindrical waveguide with wedge dislocation. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 085202. | 2.1 | 5 |
| 17 | Lorentz invariant vacuum solutions in general relativity. Proceedings of the Steklov Institute of Mathematics, 2015, 290, 138-142. | 0.3 | 11 |
| 18 | Rotational elastic waves in double wall tube. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 1544-1548. | 2.1 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | On homogeneous and isotropic universe. Modern Physics Letters A, 2015, 30, 1550186. | 1.2 | 6 |
| 20 | Passing the Einsteinâ€“Rosen bridge. Modern Physics Letters A, 2014, 29, 1450090. | 1.2 | 5 |
| 21 | Point massive particle in General Relativity. General Relativity and Gravitation, 2013, 45, 1861-1875. | 2.0 | 16 |
| 22 | Wedge dislocations, three-dimensional gravity, and the Riemann-Hilbert problem. Physics of Particles and Nuclei, 2012, 43, 639-643. | 0.7 | 2 |
| 23 | Wedge dislocations and three-dimensional gravity. P-Adic Numbers, Ultrametric Analysis, and Applications, 2012, 4, 5-19. | 0.4 | 2 |
| 24 | On geometric interpretation of the berry phase. Russian Physics Journal, 2012, 54, 1082-1092. | 0.4 | 2 |
| 25 | Adiabatic theorem for finite dimensional quantum mechanical systems. Russian Physics Journal, 2011, 54, 342-353. | 0.4 | 2 |
| 26 | On geometric interpretation of the Aharonovâ€“Bohm effect. Russian Physics Journal, 2011, 54, 507-514. | 0.4 | 2 |
| 27 | Tube dislocations in gravity. Journal of Mathematical Physics, 2009, 50, 042501. | 1.1 | 10 |
| 28 | Inside the BTZ black hole. Physical Review D, 2007, 75, . | 4.7 | 5 |
| 29 | Polynomial form of the Hilbertâ€“Einstein action. General Relativity and Gravitation, 2006, 38, 1233-1240. | 2.0 | 7 |
| 30 | Polynomial Hamiltonian form of general relativity. Theoretical and Mathematical Physics(Russian) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3 | 0.9 | 4 |
| 31 | Geometric theory of defects. Physics-Uspekhi, 2005, 48, 675-701. | 2.2 | 83 |
| 32 | One-Dimensional Topologically Nontrivial Solutions in the Skyrme Model. Theoretical and Mathematical Physics(Russian Federation), 2004, 138, 163-176. | 0.9 | 16 |
| 33 | Wedge Dislocation in the Geometric Theory of Defects. Theoretical and Mathematical Physics(Russian) Tj ETQq1 1 0.784314 rgBT /Ov | 0.9 | 31 |
| 34 | Effective Action for Scalar Fields in Two-Dimensional Gravity. Annals of Physics, 2002, 296, 1-50. | 2.8 | 16 |
| 35 | Global solutions in gravity. Nuclear Physics, Section B, Proceedings Supplements, 2000, 88, 233-236. | 0.4 | 6 |
| 36 | Scattering on Dislocations and Cosmic Strings in the Geometric Theory of Defects. Annals of Physics, 1999, 271, 203-232. | 2.8 | 43 |

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|---|---|---|---|
| 37 | Global Properties of Warped Solutions in General Relativity. Annals of Physics, 1999, 276, 191-222. | 2.8 | 28 |
| 38 | Generalized supergravity in two dimensions. Nuclear Physics B, 1998, 530, 457-486. | 2.5 | 3 |
| 39 | Euclidean two-dimensional gravity with torsion. Journal of Mathematical Physics, 1997, 38, 946-980. | 1.1 | 11 |
| 40 | On the completeness of the black hole singularity in 2D dilaton theories. Nuclear Physics B, 1997, 486, 353-370. | 2.5 | 56 |
| 41 | Geometric interpretation and classification of global solutions in generalized dilaton gravity. Physical Review D, 1996, 53, 5609-5618. | 4.7 | 47 |
| 42 | Canonical quantization of the string with dynamical geometry and anomaly free nontrivial string in two dimensions. Nuclear Physics B, 1994, 416, 563-605. | 2.5 | 16 |
| 43 | New constraints in dynamical torsion theory. General Relativity and Gravitation, 1993, 25, 349-359. | 2.0 | 8 |
| 44 | All universal coverings of twoâ€dimensional gravity with torsion. Journal of Mathematical Physics, 1993, 34, 700-736. | 1.1 | 31 |
| 45 | Theory of defects in solids and three-dimensional gravity. Annals of Physics, 1992, 216, 1-28. | 2.8 | 437 |
| 46 | Conformal invariance, extremals, and geodesics in twoâ€dimensional gravity with torsion. Journal of Mathematical Physics, 1991, 32, 2483-2496. | 1.1 | 32 |
| 47 | Complete integrability of twoâ€dimensional gravity with dynamical torsion. Journal of Mathematical Physics, 1990, 31, 882-891. | 1.1 | 34 |
| 48 | Two-dimensional gravity with dynamical torsion and strings. Annals of Physics, 1990, 197, 1-32. | 2.8 | 75 |
| 49 | String with dynamical geometry. Hamiltonian analysis in conformal gauge. Theoretical and Mathematical Physics(Russian Federation), 1989, 80, 838-848. | 0.9 | 6 |
| 50 | Large-scale limit of dynamic-torsion theory. Soviet Physics Journal (English Translation of Izvestiia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | 0.0 | 0 |
| 51 | Kinetic part of dynamical torsion theory. Theoretical and Mathematical Physics(Russian Federation), 1987, 72, 735-741. | 0.9 | 2 |
| 52 | Scalar fields and dynamical torsion in Kaluza-Klein theories. Theoretical and Mathematical Physics(Russian Federation), 1986, 66, 53-60. | 0.9 | 7 |
| 53 | Kinetic term for the Lorentz connection. Theoretical and Mathematical Physics(Russian Federation), 1985, 65, 1043-1050. | 0.9 | 2 |
| 54 | Linear connection in theories of Kaluza-Klein type. Theoretical and Mathematical Physics(Russian) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | 0.9 | 4 |

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|---|---|---|---|
| 55 | Gauge theory for the Poincarï¿½ group. Theoretical and Mathematical Physics(Russian Federation), 1983, 54, 248-252. | 0.9 | 10 |