## Alexei Starobinski

List of Publications by Year in descending order

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| 163      | 29,380         | 68           | 156                 |
|----------|----------------|--------------|---------------------|
| papers   | citations      | h-index      | g-index             |
| 165      | 165            | 165          | 5340 citing authors |
| all docs | docs citations | times ranked |                     |

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | A new type of isotropic cosmological models without singularity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1980, 91, 99-102.  | 4.1 | 5,638     |
| 2  | THE CASE FOR A POSITIVE COSMOLOGICAL λ-TERM. International Journal of Modern Physics D, 2000, 09, 373-443.  | 2.1 | 2,139     |
| 3  | Dynamics of phase transition in the new inflationary universe scenario and generation of perturbations. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1982, 117, 175-178. | 4.1 | 2,105     |
| 4  | Towards the theory of reheating after inflation. Physical Review D, 1997, 56, 3258-3295.  | 4.7 | 1,499     |
| 5  | Reheating after Inflation. Physical Review Letters, 1994, 73, 3195-3198.  | 7.8 | 1,395     |
| 6  | Statefinder—A new geometrical diagnostic of dark energy. JETP Letters, 2003, 77, 201-206.   | 1.4 | 1,037     |
| 7  | Disappearing cosmological constant in $f(R)$ gravity. JETP Letters, 2007, 86, 157-163.  | 1.4 | 1,030     |
| 8  | Reconstruction of a Scalar-Tensor Theory of Gravity in an Accelerating Universe. Physical Review Letters, 2000, 85, 2236-2239.  | 7.8 | 755       |
| 9  | Exploring the expanding Universe and dark energy using the statefinder diagnostic. Monthly Notices of the Royal Astronomical Society, 2003, 344, 1057-1074.   | 4.4 | 663       |
| 10 | RECONSTRUCTING DARK ENERGY. International Journal of Modern Physics D, 2006, 15, 2105-2132.   | 2.1 | 620       |
| 11 | Equilibrium state of a self-interacting scalar field in the de Sitter background. Physical Review D, 1994, 50, 6357-6368.   | 4.7 | 538       |
| 12 | Semiclassicality and decoherence of cosmological perturbations. Classical and Quantum Gravity, 1996, 13, 377-391.   | 4.0 | 472       |
| 13 | Two new diagnostics of dark energy. Physical Review D, 2008, 78, .  | 4.7 | 438       |
| 14 | Is there supernova evidence for dark energy metamorphosis?. Monthly Notices of the Royal Astronomical Society, 2004, 354, 275-291.  | 4.4 | 395       |
| 15 | The case for dynamical dark energy revisited. Journal of Cosmology and Astroparticle Physics, 2004, 2004, 008-008.  | 5.4 | 345       |
| 16 | Structure of resonance in preheating after inflation. Physical Review D, 1997, 56, 6175-6192.   | 4.7 | 344       |
| 17 | Reconstructing the Cosmic Equation of State from Supernova Distances. Physical Review Letters, 2000, 85, 1162-1165.   | 7.8 | 334       |
| 18 | Inflation scenario via the Standard Model Higgs boson and LHC. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 021.   | 5.4 | 287       |

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | How to determine an effective potential for a variable cosmological term. JETP Letters, 1998, 68, 757-763.  | 1.4 | 263       |
| 20 | Inflationary universe generated by the combined action of a scalar field and gravitational vacuum polarization. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 157, 361-367. | 4.1 | 255       |
| 21 | Nonthermal Phase Transitions after Inflation. Physical Review Letters, 1996, 76, 1011-1014.   | 7.8 | 249       |
| 22 | Prospects and problems of tachyon matter cosmology. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 545, 8-16.  | 4.1 | 239       |
| 23 | Spectra of perturbations produced by double inflation with an intermediate matter-dominated stage.<br>Nuclear Physics B, 1992, 385, 623-650.  | 2.5 | 215       |
| 24 | Asymptotic freedom in inflationary cosmology with a non-minimally coupled Higgs field. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 003-003.   | 5.4 | 211       |
| 25 | QUANTUM-TO-CLASSICAL TRANSITION FOR FLUCTUATIONS IN THE EARLY UNIVERSE. International Journal of Modern Physics D, 1998, 07, 455-462.   | 2.1 | 200       |
| 26 | Curing singularities in cosmological evolution of (i) $F(i)(i)R(i)$ gravity. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 005-005.   | 5.4 | 195       |
| 27 | Scalar–tensor models of normal and phantom dark energy. Journal of Cosmology and Astroparticle Physics, 2006, 2006, 016-016.  | 5.4 | 193       |
| 28 | MODEL-INDEPENDENT EVIDENCE FOR DARK ENERGY EVOLUTION FROM BARYON ACOUSTIC OSCILLATIONS. Astrophysical Journal Letters, 2014, 793, L40.  | 8.3 | 193       |
| 29 | Inflation with a constant rate of roll. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 018-018.  | 5.4 | 185       |
| 30 | Robustness of the inflationary perturbation spectrum to trans-Planckian physics. JETP Letters, 2001, 73, 371-374.   | 1.4 | 163       |
| 31 | Isocurvature perturbations in multiple inflationary models. Physical Review D, 1994, 50, 6123-6129.   | 4.7 | 160       |
| 32 | Smoothing supernova data to reconstruct the expansion history of the Universe and its age. Monthly Notices of the Royal Astronomical Society, 2006, 366, 1081-1095.   | 4.4 | 158       |
| 33 | Is cosmic acceleration slowing down?. Physical Review D, 2009, 80, .  | 4.7 | 155       |
| 34 | Correlation functions in stochastic inflation. European Physical Journal C, 2015, 75, 1.  | 3.9 | 151       |
| 35 | Higgs boson, renormalization group, and naturalness in cosmology. European Physical Journal C, 2012, 72, 1.   | 3.9 | 150       |
| 36 | Sixth-order gravity and conformal transformations. Classical and Quantum Gravity, 1990, 7, 893-900.   | 4.0 | 144       |

| #  | Article  | IF   | Citations |
|----|--|------|-----------|
| 37 | Caustics in Tachyon Matter and Other Born-Infeld Scalars. Journal of High Energy Physics, 2002, 2002, 026-026.   | 4.7  | 139       |
| 38 | A 120-Mpc periodicity in the three-dimensional distribution of galaxy superclusters. Nature, 1997, 385, 139-141.   | 27.8 | 138       |
| 39 | PRISM (Polarized Radiation Imaging and Spectroscopy Mission): an extended white paper. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 006-006.                | 5.4  | 138       |
| 40 | Generation of fluctuations during inflation: Comparison of stochastic and field-theoretic approaches. Physical Review D, 2009, 79, .                                       | 4.7  | 136       |
| 41 | Cosmological perturbations from multi-field inflation in generalized Einstein theories. Nuclear Physics B, 2001, 610, 383-410.   | 2.5  | 134       |
| 42 | Power-law inflation as an attractor solution for inhomogeneous cosmological models. Classical and Quantum Gravity, 1990, 7, 1163-1168.                                     | 4.0  | 130       |
| 43 | Generating PBHs and small-scale GWs in two-field models of inflation. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 001-001.                                 | 5.4  | 129       |
| 44 | Pointer states for primordial fluctuations in inflationary cosmology. Classical and Quantum Gravity, 2007, 24, 1699-1718.  | 4.0  | 119       |
| 45 | On a general vacuum solution of fourth-order gravity. Classical and Quantum Gravity, 1987, 4, 695-702.   | 4.0  | 116       |
| 46 | The stability of the de Sitter space-time in fourth order gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 202, 198-200.   | 4.1  | 114       |
| 47 | New universal local feature in the inflationary perturbation spectrum. Physical Review D, 2008, 77, .  | 4.7  | 110       |
| 48 | Stochastic growth of quantum fluctuations during slow-roll inflation. Physical Review D, 2010, 82, .   | 4.7  | 102       |
| 49 | Notes on wormhole existence in scalar-tensor and F(R) gravity. Gravitation and Cosmology, 2010, 16, 216-222.   | 1.1  | 100       |
| 50 | Exploring the properties of dark energy using type-la supernovae and other datasets. Journal of Cosmology and Astroparticle Physics, 2007, 2007, 011-011.                  | 5.4  | 94        |
| 51 | First detection of polarization of the submillimetre diffuse galactic dust emission by Archeops. Astronomy and Astrophysics, 2004, 424, 571-582.                           | 5.1  | 93        |
| 52 | Gauge-invariant analysis of perturbations in Chaplygin gas unified models of dark matter and dark energy. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 016. | 5.4  | 92        |
| 53 | Occurrence of exact R 2 inflation in non-local UV-complete gravity. Journal of High Energy Physics, 2016, 2016, 1.   | 4.7  | 92        |
| 54 | Evolution of scalar perturbations near the Cauchy horizon of a charged black hole. Physical Review D, 1979, 19, 413-420.   | 4.7  | 86        |

| #  | Article   | IF                        | CITATIONS   |
|----|---|---------------------------|-------------|
| 55 | f(R) constant-roll inflation. European Physical Journal C, 2017, 77, 1.   | 3.9                       | 85          |
| 56 | No realistic wormholes from ghost-free scalar-tensor phantom dark energy. JETP Letters, 2007, 85, 1-5.  | 1.4                       | 83          |
| 57 | Inflation in the mixed Higgs- $\langle i\rangle$ R $\langle i\rangle$ $\langle sup\rangle$ 2 $\langle sup\rangle$ model. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 064-064. | 5.4                       | 80          |
| 58 | $\label{lembedding} EmbeddingR+R2$  | /mr <b>4l<i>3</i></b> mn> | নন্ধl:msup> |
| 59 | Constant-roll inflation: Confrontation with recent observational data. Europhysics Letters, 2017, 117, 39001.   | 2.0                       | 78          |
| 60 | Stability properties of some perfect fluid cosmological models. Physical Review D, 2005, 72, .  | 4.7                       | 75          |
| 61 | Inflation and nonminimal scalar-curvature coupling in gravity and supergravity. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 022-022.  | 5.4                       | 75          |
| 62 | Phantom Boundary Crossing and Anomalous Growth Index of Fluctuations in Viable f(R) Models of Cosmic Acceleration. Progress of Theoretical Physics, 2010, 123, 887-902.                       | 2.0                       | 73          |
| 63 | Can the Lack of Symmetry in the COBE DMR Maps Constrain the Topology of the Universe?.<br>Astrophysical Journal, 1996, 468, 457.  | 4.5                       | 71          |
| 64 | Final state of the evolution of the interior of a charged black hole. Physical Review D, 1979, 20, 1260-1270.   | 4.7                       | 70          |
| 65 | Observational constraints on successful model of quintessential Inflation. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 011-011.   | 5.4                       | 70          |
| 66 | Wiggly whipped inflation. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 048-048.  | 5.4                       | 69          |
| 67 | Analysis of inflation driven by a scalar field and a curvature-squared term. Physical Review D, 1991, 43, 2510-2520.  | 4.7                       | 68          |
| 68 | Scalar-tensor theories of gravity, neutrino physics, and the <i>H</i> <sub>0</sub> tension. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 044-044.                              | 5.4                       | 68          |
| 69 | Structure of primordial gravitational waves spectrum in a double inflationary model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 356, 196-204.    | 4.1                       | 67          |
| 70 | Is a step in the primordial spectral index favoured by CMB data?. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 028-028.  | 5 <b>.</b> 4              | 67          |
| 71 | Inflaton field potential producing an exactly flat spectrum of adiabatic perturbations. JETP Letters, 2005, 82, 169-173.  | 1.4                       | 66          |
| 72 | Trans-Planckian particle creation in cosmology and ultrahigh energy cosmic rays. JETP Letters, 2002, 76, 235-239.   | 1.4                       | 63          |

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|----|--|----------------------|----------------|
| 73 | Nonlinear approximations to gravitational instability: A comparison in the quasi-linear regime.<br>Astrophysical Journal, 1994, 436, 517.  | 4.5                  | 63             |
| 74 | Cosmology Based on <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo) (str<="" 0="" 10="" 50="" 697="" etqq0="" overlock="" rgbt="" td="" tf="" tj=""><td>etc<b>h.y</b>="fal</td><td>se<b>"6</b>}</td></mml:mo)></mml:math> | etc <b>h.y</b> ="fal | se <b>"6</b> } |
| 75 | 2013, 110, 121302.  CDM models with a BSI step-like primordial spectrum and a cosmological constant. Monthly Notices of the Royal Astronomical Society, 1998, 297, 769-776.  | 4.4                  | 61             |
| 76 | Tolman-Oppenheimer-Volkoff equations in the presence of the Chaplygin gas: Stars and wormholelike solutions. Physical Review D, 2008, 78, .  | 4.7                  | 61             |
| 77 | Quantum effects and evolution of cosmological models. Societa Italiana Di Fisica Nuovo Cimento<br>B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1976, 35, 293-307.   | 0.2                  | 58             |
| 78 | The coherence of primordial fluctuations produced during inflation. Classical and Quantum Gravity, 1998, 15, L67-L72.  | 4.0                  | 58             |
| 79 | Entropy of gravitons produced in the early universe. Physical Review D, 2000, 62, .  | 4.7                  | 58             |
| 80 | New null diagnostic customized for reconstructing the properties of dark energy from baryon acoustic oscillations data. Physical Review D, 2012, 86, .   | 4.7                  | 57             |
| 81 | R2 inflation to probe non-perturbative quantum gravity. Journal of High Energy Physics, 2018, 2018, 1.   | 4.7                  | 57             |
| 82 | Inflation with Whip-Shaped Suppressed Scalar Power Spectra. Physical Review Letters, 2014, 113, 071301.  | 7.8                  | 56             |
| 83 | The screening Horndeski cosmologies. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 007-007.  | 5.4                  | 53             |
| 84 | Can dark energy be decaying?. Journal of Cosmology and Astroparticle Physics, 2003, 2003, 002-002.   | 5.4                  | 52             |
| 85 | Cosmological constraints on post-Newtonian parameters in effectively massless scalar-tensor theories of gravity. Physical Review D, 2019, 100, .   | 4.7                  | 51             |
| 86 | ANALYTIC SOLUTION FOR MATTER DENSITY PERTURBATIONS IN A CLASS OF VIABLE COSMOLOGICAL f(R) MODELS. International Journal of Modern Physics D, 2009, 18, 1731-1740.  | 2.1                  | 50             |
| 87 | On the violent preheating in the mixed Higgs-R2 inflationary model. Physics Letters, Section B:<br>Nuclear, Elementary Particle and High-Energy Physics, 2019, 791, 36-42.   | 4.1                  | 49             |
| 88 | The supercluster-void network - II. An oscillating cluster correlation function. Monthly Notices of the Royal Astronomical Society, 1997, 289, 801-812.  | 4.4                  | 46             |
| 89 | From stable to unstable anomaly-induced inflation. European Physical Journal C, 2016, 76, 1.   | 3.9                  | 44             |
| 90 | Falsifying <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:mi mathvariant="normal"><math>\hat{\nu}</math></mml:mi> &lt; mml:mi&gt; &lt; mml:mi&gt; &lt; /mml:math&gt; : Model-independent tests of the concordance model with eBOSS DR14Q and Pantheon. Physical Review D, 2018, 98, .</mml:math>  | 4.7                  | 44             |

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|-----|--|-----|----------|
| 91  | Anisotropic cosmological solutions in $R + R^2 $ R + R 2 gravity. European Physical Journal C, 2018, 78, 1.  | 3.9 | 43       |
| 92  | Skewness of Cosmic Microwave Background Temperature Fluctuations Due to Nonlinear Gravitational Instability. Astrophysical Journal, 1995, 454, 552.                        | 4.5 | 42       |
| 93  | Signatures of a graviton mass in the cosmic microwave background. Physical Review D, 2010, 81, .   | 4.7 | 41       |
| 94  | Bouncing universes in scalar-tensor gravity models admitting negative potentials. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 002-002.                     | 5.4 | 41       |
| 95  | Future oscillations around phantom divide in <i>f &lt; /i &gt; ( <i> R &lt; /i &gt;) gravity. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 006-006.</i></i> | 5.4 | 40       |
| 96  | Towards understanding the structure of voids in the cosmic web. Astronomy and Astrophysics, 2011, 534, A128.   | 5.1 | 39       |
| 97  | Inflation in an effective gravitational model and asymptotic safety. Physical Review D, 2018, 98, .  | 4.7 | 39       |
| 98  | Ruling out the power-law form of the scalar primordial spectrum. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 061-061.                                      | 5.4 | 36       |
| 99  | Metastable dark energy with radioactive-like decay. Monthly Notices of the Royal Astronomical Society, 2018, 473, 2760-2770.   | 4.4 | 36       |
| 100 | Constant-roll inflation in scalar-tensor gravity. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 025-025.   | 5.4 | 36       |
| 101 | Comment about quasi-isotropic solution of Einstein equations near the cosmological singularity. Classical and Quantum Gravity, 2002, 19, 3845-3849.                        | 4.0 | 35       |
| 102 | Trans-Planckian wimpzillas. Journal of Cosmology and Astroparticle Physics, 2007, 2007, 005-005.   | 5.4 | 35       |
| 103 | What do WMAP and SDSS really tell us about inflation?. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 010.  | 5.4 | 35       |
| 104 | Primordial features and Planck polarization. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 009-009.  | 5.4 | 35       |
| 105 | Matter Power Spectrum in f(R) Gravity with Massive Neutrinos. Progress of Theoretical Physics, 2010, 124, 541-546.   | 2.0 | 33       |
| 106 | Non-Gaussianities and tensor-to-scalar ratio in non-local R2-like inflation. Journal of High Energy Physics, 2020, 2020, 1.  | 4.7 | 33       |
| 107 | Sine-Gordon parametric resonance. Nuclear Physics B, 1999, 543, 423-443.   | 2.5 | 32       |
| 108 | More about the Tolman-Oppenheimer-Volkoff equations for the generalized Chaplygin gas. Physical Review D, 2009, 80, .  | 4.7 | 32       |

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|-----|---|-----|-----------|
| 109 | Multidimensional cosmological models: Cosmological and astrophysical implications and constraints. Physical Review D, 2004, 69, .   | 4.7 | 31        |
| 110 | On higher derivative corrections to the $\langle i \rangle R \langle  i \rangle + \langle i \rangle R \langle  i \rangle \langle \sup \rangle 2 \langle  \sup \rangle$ inflationary model. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 007-007. | 5.4 | 30        |
| 111 | Mixed Cold-Hot Dark Matter Model with Falling and Quasi-flat Initial Perturbation Spectra.<br>Astrophysical Journal, 1995, 447, 465.  | 4.5 | 30        |
| 112 | Confrontation of a double inflationary cosmological model with observations. Astrophysical Journal, 1994, 434, 417.   | 4.5 | 29        |
| 113 | f(R) GRAVITY AND ITS COSMOLOGICAL IMPLICATIONS. International Journal of Modern Physics D, 2011, 20, 1347-1355.   | 2.1 | 28        |
| 114 | Effects of inhomogeneities on apparent cosmological observables: "fake―evolving dark energy.<br>European Physical Journal C, 2012, 72, 1.   | 3.9 | 28        |
| 115 | Revisiting Metastable Dark Energy and Tensions in the Estimation of Cosmological Parameters.<br>Astrophysical Journal, 2019, 887, 153.  | 4.5 | 28        |
| 116 | The cosmic web for density perturbations of various scales. Astronomy and Astrophysics, 2011, 531, A149.  | 5.1 | 27        |
| 117 | Duality between static spherically or hyperbolically symmetric solutions and cosmological solutions in scalar-tensor gravity. Physical Review D, 2018, 98, .  | 4.7 | 27        |
| 118 | Comparison of double-inflationary models with observations. Physical Review D, 1994, 50, 4827-4834.   | 4.7 | 26        |
| 119 | ONCE AGAIN ON THIN-SHELL WORMHOLES IN SCALAR–TENSOR GRAVITY. Modern Physics Letters A, 2009, 24, 1559-1564.   | 1.2 | 26        |
| 120 | Archeops in-flight performance, data processing, and map making. Astronomy and Astrophysics, 2007, 467, 1313-1344.  | 5.1 | 24        |
| 121 | Auxiliary fields representation for modified gravity models. Physical Review D, 2011, 83, .   | 4.7 | 24        |
| 122 | When is the growth index constant?. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 037-037.  | 5.4 | 24        |
| 123 | Probing features in inflaton potential and reionization history with future CMB space observations. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 017-017.  | 5.4 | 24        |
| 124 | Induced gravity and minimally and conformally coupled scalar fields in Bianchi-I cosmological models. Physical Review D, 2018, 97, .  | 4.7 | 24        |
| 125 | Anisotropy screening in Horndeski cosmologies. Physical Review D, 2020, 101, .  | 4.7 | 24        |
| 126 | Stochastic dark energy from inflationary quantum fluctuations. European Physical Journal C, 2018, 78, 1.  | 3.9 | 23        |

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| 127 | Probing features in the primordial perturbation spectrum with large-scale structure data. Monthly Notices of the Royal Astronomical Society, 2018, 477, 2503-2512.                           | 4.4 | 21        |
| 128 | Curing inflationary degeneracies using reheating predictions and relic gravitational waves. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 075.                                 | 5.4 | 21        |
| 129 | RECONSTRUCTING COSMOLOGICAL MATTER PERTURBATIONS USING STANDARD CANDLES AND RULERS.<br>Astrophysical Journal, 2009, 704, 1086-1097.  | 4.5 | 19        |
| 130 | Cosmological constant from decoherence. Classical and Quantum Gravity, 2011, 28, 125022.   | 4.0 | 17        |
| 131 | Analytic infinite derivative gravity, R2-like inflation, quantum gravity and CMB. International Journal of Modern Physics D, 2020, 29, 2043018.  | 2.1 | 17        |
| 132 | Large scale plane-mirroring in the cosmic microwave background WMAP5 maps. Astronomy and Astrophysics, 2008, 490, 929-932.   | 5.1 | 16        |
| 133 | Searching for systematics in SNIa and galaxy cluster data using the cosmic duality relation. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 042-042.                            | 5.4 | 16        |
| 134 | Searching for hidden mirror symmetries in CMB fluctuations from WMAP 7 year maps. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 049-049.                                       | 5.4 | 15        |
| 135 | Energy-momentum tensor and helicity for gauge fields coupled to a pseudoscalar inflaton. Physical Review D, 2019, 100, .   | 4.7 | 15        |
| 136 | Defying the laws of gravity I: model-independent reconstruction of the Universe expansion from growth data. Monthly Notices of the Royal Astronomical Society, 2020, 494, 819-826.           | 4.4 | 14        |
| 137 | Constraints on features in the inflationary potential from future Euclid data. Monthly Notices of the Royal Astronomical Society, 2020, 496, 3448-3468.                                      | 4.4 | 14        |
| 138 | Nonlinear approximations to gravitational instability: A comparison in second-order perturbation theory. Astrophysical Journal, 1994, 428, 433.  | 4.5 | 14        |
| 139 | A built-in scale in the initial spectrum of density perturbations: Evidence from cluster and CMB data. JETP Letters, 1997, 66, 397-403.  | 1.4 | 13        |
| 140 | Origin of classical structure in the Universe. Journal of Physics: Conference Series, 2007, 67, 012023.  | 0.4 | 13        |
| 141 | Cosmology based on $\langle i \rangle f \langle i \rangle R \langle i \rangle$ gravity with $?(1)$ eV sterile neutrino. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 004-004. | 5.4 | 13        |
| 142 | On the phase-space volume of primordial cosmological perturbations. Classical and Quantum Gravity, 1997, 14, 881-888.  | 4.0 | 11        |
| 143 | Non-perturbative effects of primordial curvature perturbations on the apparent value of a cosmological constant. Europhysics Letters, 2014, 106, 69002.                                      | 2.0 | 11        |
| 144 | Pauli–Zeldovich cancellation of the vacuum energy divergences, auxiliary fields and supersymmetry. European Physical Journal C, 2018, 78, 1.   | 3.9 | 11        |

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|-----|--|-----|-----------|
| 145 | Anisotropic cosmological models in Horndeski gravity. Physical Review D, 2021, 103, .  | 4.7 | 11        |
| 146 | Steps toward the Power Spectrum of Matter. III. The Primordial Spectrum. Astrophysical Journal, 1999, 519, 469-478.  | 4.5 | 10        |
| 147 | Inflation story: slow-roll and beyond. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 038.  | 5.4 | 10        |
| 148 | ON AXIAL AND PLANE-MIRROR INHOMOGENEITIES IN THE WMAP3 COSMIC MICROWAVE BACKGROUND MAPS. Modern Physics Letters A, 2007, 22, 2955-2964.  | 1.2 | 9         |
| 149 | Global properties of the growth index of matter inhomogeneities in the Universe. Physical Review D, 2019, 100, .   | 4.7 | 9         |
| 150 | Massive scalar field in de Sitter spacetime: a two-loop calculation and a comparison with the stochastic approach. European Physical Journal C, 2022, 82, 1.   | 3.9 | 9         |
| 151 | FUTURE AND ORIGIN OF OUR UNIVERSE: MODERN VIEW. , 2000, , .  |     | 8         |
| 152 | Instability of a scalar field in a geometry with anisotropic inflation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 188, 399-402.                            | 4.1 | 7         |
| 153 | Observational Matter Power Spectrum and the Height of the Second Acoustic Peak. Astrophysical Journal, 2001, 559, 1-8.   | 4.5 | 7         |
| 154 | Editorial note to: Matvei P. Bronstein, Quantum theory of weak gravitational fields. General Relativity and Gravitation, 2012, 44, 263-265.  | 2.0 | 7         |
| 155 | Presently decaying dark energy?. Annalen Der Physik, 2010, 19, 316-319.  | 2.4 | 6         |
| 156 | Global properties of the growth index: Mathematical aspects and physical relevance. Physical Review D, 2020, 101, .  | 4.7 | 6         |
| 157 | Tentative evidence for slowing down of cosmic acceleration from recent small redshift supernovae and BAO data., 2010,,.  |     | 4         |
| 158 | f(R) COSMOLOGY AND MASSIVE NEUTRINOS. International Journal of Modern Physics Conference Series, 2012, 10, 35-42.  | 0.7 | 3         |
| 159 | Stochastic growth of quantum fluctuations during slow-roll inflation. , 2012, , .  |     | 2         |
| 160 | ANALYTIC SOLUTION FOR MATTER DENSITY FLUCTUATIONS IN $f(R)$ MODELS OF COSMIC ACCELERATION. , 2010, , .   |     | 0         |
| 161 | Editorial to the Special Issue "Selected Papers from the 17th Russian Gravitational Conference—International Conference on Gravitation, Cosmology and Astrophysics (RUSGRAV-17)― Universe, 2021, 7, 296. | 2.5 | 0         |
| 162 | RECONSTRUCTION OF DARK ENERGY USING SUPERNOVA AND OTHER DATASETS. , 2008, , .  |     | 0         |

| #   | ARTICLE  | IF | CITATIONS |
|-----|--|----|-----------|
| 163 | ASYMPTOTIC FREEDOM IN INFLATIONARY COSMOLOGY WITH A NON-MINIMALLY COUPLED HIGGS FIELD. , 2012, , . |    | 0         |