

# Mikhail A Braun

## List of Publications by Year in descending order

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116  
papers

2,696  
citations

257101

24  
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51  
g-index

116  
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116  
docs citations

116  
times ranked

3666  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | ALICE: Physics Performance Report, Volume II. Journal of Physics G: Nuclear and Particle Physics, 2006, 32, 1295-2040.   | 1.4 | 441       |
| 2  | Charged-particle multiplicity measurement in proton-proton collisions at $\sqrt{s}=7$ TeV with ALICE at LHC. European Physical Journal C, 2010, 68, 345-354.   | 1.4 | 212       |
| 3  | Charged-particle multiplicity measurement in proton-proton collisions at $\sqrt{s}=0.9$ and 2.36 TeV with ALICE at LHC. European Physical Journal C, 2010, 68, 89-108.   | 1.4 | 199       |
| 4  | Alignment of the ALICE Inner Tracking System with cosmic-ray tracks. Journal of Instrumentation, 2010, 5, P03003-P03003.   | 0.5 | 171       |
| 5  | Transverse momentum spectra of charged particles in proton-proton collisions at $\sqrt{s}=0.9$ and 2.36 TeV with ALICE at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 693, 53-68. | 1.4 | 124       |
| 6  | Percolation Approach to Quark-Gluon Plasma and $J/\psi$ Suppression. Physical Review Letters, 1996, 77, 3736-3738.   | 2.9 | 146       |
| 7  | First proton-proton collisions at the LHC as observed with the ALICE detector: measurement of the charged-particle pseudorapidity density at $\sqrt{s}=900$ GeV. European Physical Journal C, 2010, 65, 111-125.                       | 1.4 | 124       |
| 8  | Long and Short Range Correlations: A Signature of String Fusion. Physical Review Letters, 1994, 73, 2813-2816.   | 2.9 | 88        |
| 9  | Percolation of strings and the relativistic energy data on multiplicity and transverse momentum distributions. Physical Review C, 2002, 65, .  | 1.1 | 80        |
| 10 | Correlations between multiplicities and average transverse momentum in the percolating color strings approach. European Physical Journal C, 2004, 32, 535-546.   | 1.4 | 79        |
| 11 | Transverse Momentum Distributions and Their Forward-Backward Correlations in the Percolating Color String Approach. Physical Review Letters, 2000, 85, 4864-4867.  | 2.9 | 77        |
| 12 | Midrapidity Antiproton-to-Proton Ratio in $p$ - $p$ Collisions at $\sqrt{s}=0.9$ and 7 TeV Measured by the ALICE Experiment. Physical Review Letters, 2010, 105, 072002.   | 2.9 | 67        |
| 13 | Nucleus-nucleus interaction in the perturbative QCD. European Physical Journal C, 2004, 33, 113-122.   | 1.4 | 63        |
| 14 | Two-pion Bose-Einstein correlations in $p$ - $p$ collisions at $\sqrt{s}=0.9$ and 2.36 TeV with ALICE at the LHC. Physical Review D, 2010, 82, .   | 1.6 | 61        |
| 15 | String fusion and particle production at high energies: Monte-Carlo string fusion model. Zeitschrift für Physik C-Particles and Fields, 1994, 63, 507-516.   | 1.5 | 54        |
| 16 | FUSION OF STRINGS VS. PERCOLATION AND THE TRANSITION TO THE QUARK-GLUON PLASMA. International Journal of Modern Physics A, 1999, 14, 2689-2704.  | 0.5 | 46        |
| 17 | Anisotropic flows from colour strings: Monte Carlo simulations. Nuclear Physics A, 2013, 906, 14-27.   | 0.6 | 41        |
| 18 | Ridge from strings. European Physical Journal A, 2015, 51, 1.  | 1.0 | 32        |

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|----|--|-----|-----------|
| 19 | The bootstrap for impact factors and the gluon wave function. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 477, 156-162.                            | 1.5 | 26        |
| 20 | Long-range correlations in hadron-nucleus collisions. Physical Review C, 2007, 75, .   | 1.1 | 25        |
| 21 | On the inclusive gluon jet production from the triple pomeron vertex in the perturbative QCD. European Physical Journal C, 2006, 48, 501-510.  | 1.4 | 24        |
| 22 | The reggeon+2reggeons+particle vertex in the Lipatov effective action formalism. European Physical Journal C, 2007, 51, 103-111.   | 1.4 | 24        |
| 23 | Elliptic flow from colour strings. European Physical Journal C, 2011, 71, 1.   | 1.4 | 24        |
| 24 | Gluon production on two centers and the effective action approach. European Physical Journal C, 2011, 71, 1.   | 1.4 | 24        |
| 25 | The bootstrap and the 2nd order corrections for the interaction of two reggeized gluons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 454, 319-327. | 1.5 | 21        |
| 26 | Production of a gluon with the exchange of three reggeized gluons in the Lipatov effective action approach. European Physical Journal C, 2012, 72, 1.  | 1.4 | 20        |
| 27 | On the dT=0 toy model in reggeon field theory. European Physical Journal C, 2007, 50, 857-869.   | 1.4 | 19        |
| 28 | Boundary conditions in the QCD nucleus-nucleus scattering problem. Nuclear Physics A, 2008, 799, 151-166.  | 0.6 | 17        |
| 29 | On the inclusive gluon production in the Lipatov effective action formalism. European Physical Journal C, 2012, 72, 1.   | 1.4 | 16        |
| 30 | The process $\gamma^* + p \rightarrow \eta_c + X$ : a test for the perturbative QCD odderon. European Physical Journal C, 2004, 33, 511-521.   | 1.4 | 13        |
| 31 | On inclusive gluon jet production off the nucleus in perturbative QCD. European Physical Journal C, 2005, 42, 169-181.   | 1.4 | 13        |
| 32 | Production of two gluons in the Lipatov effective action formalism. European Physical Journal C, 2010, 65, 385-394.  | 1.4 | 13        |
| 33 | Gluon production in the Lipatov effective action formalism. European Physical Journal C, 2013, 73, 1.  | 1.4 | 13        |
| 34 | Off-shell gluon production in interaction of a projectile with 2 or 3 targets. European Physical Journal C, 2017, 77, 1.   | 1.4 | 13        |
| 35 | Quark Coalescence Mechanism near the Threshold. Theoretical and Mathematical Physics(Russian) Tj ETQq1 1 0.784314 rgBT <sub>12</sub> /Overlock<br>0.3  | 0.3 | 12        |
| 36 | Pomeron loops in the perturbative QCD with large N c. European Physical Journal C, 2009, 63, 287-296.  | 1.4 | 12        |

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|----|---|-----|-----------|
| 37 | Conformally invariant pomeron interaction in perturbative QCD with large $N_c$ . European Physical Journal C, 2006, 48, 511-522.  | 1.4 | 11        |
| 38 | Single and double inclusive cross sections for nucleus-nucleus collisions in the perturbative QCD. European Physical Journal C, 2008, 55, 377-386.  | 1.4 | 11        |
| 39 | Diffractive scattering on the deuteron. European Physical Journal C, 2017, 77, 1.   | 1.4 | 10        |
| 40 | Relationship between a quasipotential equation and a Schrödinger equation. Theoretical and Mathematical Physics(Russian Federation), 1987, 72, 958-964.   | 0.3 | 9         |
| 41 | On interference of cumulative proton production mechanisms. Journal of Physics G: Nuclear and Particle Physics, 1993, 19, 517-529.  | 1.4 | 9         |
| 42 | The inclusive jet production in the BFKL approach with a running coupling introduced via bootstrap. European Physical Journal C, 2015, 75, 1.   | 1.4 | 9         |
| 43 | Relativistic adiabatic perturbation theory for degenerate levels. Theoretical and Mathematical Physics(Russian Federation), 1980, 45, 975-982.  | 0.3 | 8         |
| 44 | Transverse-momentum dependence of cumulative pions. Physics of Atomic Nuclei, 2000, 63, 1831-1834.  | 0.1 | 8         |
| 45 | On the collision of two projectiles on two targets in the BFKL approach. European Physical Journal C, 2013, 73, 1.  | 1.4 | 8         |
| 46 | Energy loss as the origin of a universal scaling law of the elliptic flow. European Physical Journal A, 2017, 53, 1.  | 1.0 | 8         |
| 47 | Loops in the reggeon model for hA scattering. European Physical Journal C, 2008, 58, 383-394.   | 1.4 | 7         |
| 48 | Scattering amplitude and pomeron loops in perturbative QCD at large $\sqrt{s}$ .<br><small>overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/commontable/dtd"</small> | 1.5 | 7         |
| 49 | Production of fast fragments in high-energy hadron collisions with nuclei. Journal of Physics G: Nuclear and Particle Physics, 1990, 16, 1615-1626.   | 1.4 | 6         |
| 50 | On the description of multiple measurements of an unstable state. Foundations of Physics, 1992, 22, 617-630.  | 0.6 | 6         |
| 51 | Monte Carlo model for multiparticle production at ultrarelativistic energies. Physical Review C, 1995, 52, 362-373.   | 1.1 | 6         |
| 52 | Jet production in pA and AA collisions in the perturbative QCD pomeron model. European Physical Journal C, 2005, 39, 451-464.   | 1.4 | 6         |
| 53 | Gluon emission in interaction of two reggeons. European Physical Journal C, 2015, 75, 1.  | 1.4 | 6         |
| 54 | Scaling behaviour and correlations in the string fusion model for heavy ion collisions. Zeitschrift für Physik C-Particles and Fields, 1995, 67, 489-493.   | 1.5 | 5         |

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|----|---|-----|-----------|
| 55 | Nucleus-nucleus cross-sections and long-range correlations with a local supercritical pomeron. Nuclear Physics A, 2008, 806, 230-244.   | 0.6 | 5         |
| 56 | PT symmetry and Hermitian Hamiltonian in the local supercritical pomeron model. European Physical Journal C, 2009, 59, 795-808.   | 1.4 | 5         |
| 57 | Inclusive cross sections for gluon production in collision of two projectiles on two targets in the BFKL approach. European Physical Journal C, 2013, 73, 1.  | 1.4 | 5         |
| 58 | pt dependence of the flow coefficients for pp collisions in the color string scenario: Monte Carlo simulations. European Physical Journal A, 2018, 54, 1.   | 1.0 | 5         |
| 59 | Properties of the hard pomeron with a running coupling constant and the high-energy scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 388, 823-831. | 1.5 | 4         |
| 60 | The EMC effect at low $x$ in perturbative QCD. Zeitschrift für Physik C-Particles and Fields, 1997, 76, 81-90.  | 1.5 | 4         |
| 61 | The $n$ -jet inclusive cross-section in the Hard Pomeron model. European Physical Journal C, 1998, 4, 685-692.  | 1.4 | 4         |
| 62 | Hadron-nucleus scattering in the local reggeon model with pomeron loops for realistic nuclei. European Physical Journal C, 2010, 69, 75-83.   | 1.4 | 4         |
| 63 | Casimir energy of the quantum field in a dispersive and absorptive medium. Theoretical and Mathematical Physics(Russian Federation), 2013, 175, 771-778.  | 0.3 | 4         |
| 64 | On the application of the effective action approach to amplitudes with reggeon splitting. European Physical Journal C, 2014, 74, 1.   | 1.4 | 4         |
| 65 | The Casimir energy in a dispersive and absorptive medium in the Fano diagonalization approach. Theoretical and Mathematical Physics(Russian Federation), 2017, 190, 237-250.                          | 0.3 | 4         |
| 66 | Energy level shifts and transition probabilities in a relativistic atom. Theoretical and Mathematical Physics(Russian Federation), 1984, 59, 573-581.   | 0.3 | 3         |
| 67 | Separation of the contributions originating from short- and long-range nuclear phenomena for cumulative proton production. Journal of Physics C: Nuclear and Particle Physics, 1993, 19, 531-543.     | 1.4 | 3         |
| 68 | Pomeron with a running coupling constant in the nucleus. European Physical Journal C, 2007, 51, 625-632.  | 1.4 | 3         |
| 69 | Odderon with a running coupling constant. European Physical Journal C, 2008, 53, 59-63.   | 1.4 | 3         |
| 70 | BFKL pomeron propagator in the external field of the nucleus. Nuclear Physics B, 2011, 851, 533-550.  | 0.9 | 3         |
| 71 | Renormalization for a relativistic Fermi system in an external field. Theoretical and Mathematical Physics(Russian Federation), 1972, 12, 652-656.  | 0.3 | 2         |
| 72 | Inelastic diffractive production and string fusion in hadron-nucleus collisions. Physical Review C, 1995, 51, 3393-3403.  | 1.1 | 2         |

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|----|---|-----|-----------|
| 73 | Initial condition for evolution of the perturbative QCD Pomeron in a nucleus. Theoretical and Mathematical Physics(Russian Federation), 2006, 148, 923-927.                                     | 0.3 | 2         |
| 74 | BKP states in the inclusive gluon production. European Physical Journal C, 2010, 70, 73-90.   | 1.4 | 2         |
| 75 | QED in dispersive and absorptive media. Theoretical and Mathematical Physics(Russian Federation), 2011, 169, 1413-1422.   | 0.3 | 2         |
| 76 | BFKL pomeron in the external field of the nucleus in $d$ -dimensional QCD. Nuclear Physics B, 2012, 863, 495-509.   | 0.9 | 2         |
| 77 | Pomeron fan diagrams in perturbative QCD. Journal of High Energy Physics, 2018, 2018, 1.  | 1.6 | 2         |
| 78 | On the one-dimensional reggeon model: eigenvalues of the Hamiltonian and the propagator. European Physical Journal C, 2019, 79, 1.  | 1.4 | 2         |
| 79 | Elliptic and triangular flows in dAu collisions at 200 GeV in the fusing color string model. European Physical Journal A, 2020, 56, 1.  | 1.0 | 2         |
| 80 | Triple-pomeron amplitude in the effective action approach. European Physical Journal C, 2020, 80, 1.  | 1.4 | 2         |
| 81 | On the S matrix for a field theory with Lagrangians that depend on derivatives. Theoretical and Mathematical Physics(Russian Federation), 1971, 6, 229-235.                                     | 0.3 | 1         |
| 82 | Composite and elementary particles with the same quantum numbers in quantum field theory. Theoretical and Mathematical Physics(Russian Federation), 1971, 8, 654-662.                           | 0.3 | 1         |
| 83 | On the decay width of multiply measured unstable state. Foundations of Physics Letters, 1993, 6, 481-490.   | 0.6 | 1         |
| 84 | Loops in the gluon emission amplitude: reggeization from the eikonal scattering. European Physical Journal C, 2010, 66, 147-161.  | 1.4 | 1         |
| 85 | Configuration-Space Faddeev Calculation for Proton-Deuteron Elastic Scattering Observables. Few-Body Systems, 2011, 50, 267-269.  | 0.7 | 1         |
| 86 | An effective two reggeon two reggeon + particle vertex in Lipatov's effective action and regge kinematics. Bulletin of the Russian Academy of Sciences: Physics, 2016, 80, 959-965.             | 0.1 | 1         |
| 87 | Diffraction scattering on the deuteron projectile in the NLO: triple interaction of reggeized gluons. European Physical Journal C, 2018, 78, 1.   | 1.4 | 1         |
| 88 | Local one-dimensional reggeon model of the interaction of pomerons and odderons. European Physical Journal C, 2021, 81, 1.  | 1.4 | 1         |
| 89 | Multichannel interaction of particles with identical quantum numbers and conditions for particles to be composite. Theoretical and Mathematical Physics(Russian Federation), 1972, 11, 333-341. | 0.3 | 0         |
| 90 | N-Reggeon vertex for generalized Veneziano models. Theoretical and Mathematical Physics(Russian) Tj ETQqO 0 0 rgBT /Overlock 10 Tf 5  | 0.3 | 0         |

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|-----|--|-----|-----------|
| 91  | On renormalization and the $\gamma$ operation for quantum electrodynamics in an external field. Theoretical and Mathematical Physics(Russian Federation), 1978, 34, 98-105.              | 0.3 | 0         |
| 92  | Perturbation theory for level shifts and transition probabilities in a relativistic two-electron system. Theoretical and Mathematical Physics(Russian Federation), 1978, 34, 36-42.      | 0.3 | 0         |
| 93  | Particle production at high energies in the Cardy pomeron model. Zeitschrift für Physik C-Particles and Fields, 1992, 56, 643-652.   | 1.5 | 0         |
| 94  | On the Nikolaev-Zakharov-Zoller form for the BFKL pomeron. Zeitschrift für Physik C-Particles and Fields, 1996, 70, 103-106.   | 1.5 | 0         |
| 95  | Jet production from the perturbative QCD pomeron with a running coupling constant. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 406, 137-148. | 1.5 | 0         |
| 96  | Cross sections and asymmetries for elastic $^3\text{He}$ scattering in the energy region around the $\rho$ resonance. Physics of Atomic Nuclei, 2000, 63, 795-800.                       | 0.1 | 0         |
| 97  | Correlations between $\pi^+$ and jet multiplicities from the Balitskiĭ-Fadin-Kuraev-Lipatov chain. Physical Review D, 2002, 65, .  | 1.6 | 0         |
| 98  | Rapidity and centrality dependence in the percolating color strings scenario. Nuclear Physics A, 2006, 778, 217-232.   | 0.6 | 0         |
| 99  | A study of neutron-deuteron scattering in configuration space. Nuclear Physics A, 2007, 790, 699c-702c.  | 0.6 | 0         |
| 100 | Two-jet inclusive cross-sections in heavy-ion collisions in the perturbative QCD. Nuclear Physics A, 2007, 784, 407-425.   | 0.6 | 0         |
| 101 | Glauber shadowing in jet and particle production in nucleus-nucleus collisions within perturbative QCD. Physics of Atomic Nuclei, 2008, 71, 1988-1993.                                   | 0.1 | 0         |
| 102 | Jet energy loss due to multiple scattering in the nucleus. Nuclear Physics A, 2010, 836, 293-310.  | 0.6 | 0         |
| 103 | Configuration-space Faddeev calculation for proton-deuteron observables at energy $E_{\text{lab}} = 3 \text{ MeV}$ . , 2011, , .   |     | 0         |
| 104 | Unitarity of the tree approximation to the Glauber AA amplitude for large A. Physics of Atomic Nuclei, 2011, 74, 199-208.  | 0.1 | 0         |
| 105 | On the Casimir energy of the electromagnetic field in the dispersive and absorptive medium. International Journal of Modern Physics A, 2014, 29, 1450101.                                | 0.5 | 0         |
| 106 | Neutron-Deuteron Scattering Observables at $E_{\text{lab}} = 14.1 \text{ MeV}$ . Few-Body Systems, 2014, 55, 1033-1034.  | 0.7 | 0         |
| 107 | Double inclusive cross sections for gluon production in collision of two projectiles on two targets in the BFKL approach. European Physical Journal C, 2014, 74, 1.                      | 1.4 | 0         |
| 108 | Yu. V. Novozhilov: Creative path. Theoretical and Mathematical Physics(Russian Federation), 2015, 184, 1203-1212.  | 0.3 | 0         |

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|-----|--|-----|-----------|
| 109 | The general configuration-space Faddeev formalism for studying pd scattering. EPJ Web of Conferences, 2016, 113, 03017.            | 0.1 | 0         |
| 110 | Gluon emission at small longitudinal momenta in the QCD effective action approach. European Physical Journal C, 2019, 79, 1.       | 1.4 | 0         |
| 111 | The QCD odderon in elastic (anti)proton scattering. European Physical Journal C, 2021, 81, 1.                                      | 1.4 | 0         |
| 112 | Flow coefficients in O-O, Al-Al, and Cu-Cu collisions at 200 GeV in the fusing color string model. Physical Review C, 2021, 103, . | 1.1 | 0         |
| 113 | THE SYSTEM OF FOUR REGGEIZED GLUONS AND THE THREE-POMERON VERTEX IN THE HIGH COLOUR LIMIT. , 1998, , .                             |     | 0         |
| 114 | ON THE ODDERON INTERCEPT IN QCD. , 1998, , .   |     | 0         |
| 115 | The Odderon and BKP States in Quantum Chromodynamics. , 2021, , 239-281.   |     | 0         |
| 116 | Four-pomeron vertex. European Physical Journal C, 2021, 81, 1.   | 1.4 | 0         |