

# Vadim Baru

## List of Publications by Year in descending order

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Version: 2024-02-01

96  
papers

2,549  
citations

172457

29  
h-index

189892

50  
g-index

97  
all docs

97  
docs citations

97  
times ranked

915  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Coupled-channel approach to $T$ states. <i>Physical Review Letters</i> , 2020, 124, 082501.   | 4.7  | 15        |
| 2  | Double- $J/\psi$ system in the spotlight of recent LHCb data. <i>SciPost Physics Proceedings</i> , 2022, .  | 0.4  | 0         |
| 4  | Effective range expansion for narrow near-threshold resonances. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022, 833, 137290.  | 4.1  | 23        |
| 5  | High-accuracy calculation of the deuteron charge and quadrupole form factors in chiral effective field theory. <i>Physical Review C</i> , 2021, 103, .  | 2.9  | 30        |
| 7  | On the nature of near-threshold bound and virtual states. <i>European Physical Journal A</i> , 2021, 57, 1.   | 2.5  | 45        |
| 8  | Coupled-Channel Interpretation of the LHCb Double- $J/\psi$ Spectrum and Hints of a New State Near the $J/\psi$ . <i>Physical Review Letters</i> , 2020, 124, 082501.   | 7.8  | 49        |
| 9  | Revisiting the nature of the $P_c$ pentaquarks. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.  | 4.7  | 45        |
| 10 | Is the existence of a $J/\psi$ state plausible?. <i>Science Bulletin</i> , 2021, 66, 2462-2470.   | 10.0 | 123       |
| 11 | Deciphering the mechanism of near-threshold $J/\psi$ photoproduction. <i>European Physical Journal C</i> , 2020, 80, 1.   | 3.9  | 39        |
| 12 | Interpretation of the LHCb $J/\psi$ States as Hadronic Molecules and Hints of a Narrow $J/\psi$ . <i>Physical Review Letters</i> , 2020, 124, 082501.   | 7.8  | 97        |
| 13 | Extraction of the Neutron Charge Radius from a Precision Calculation of the Deuteron Structure. <i>Physical Review Letters</i> , 2020, 124, 082501.   | 7.8  | 48        |
| 14 | Spin partners $J/\psi$ from the line shapes of the $J/\psi$ . <i>Physical Review Letters</i> , 2020, 124, 082501.   | 4.7  | 20        |
| 15 | Remarks on the heavy-quark flavour symmetry for doubly heavy hadronic molecules. <i>European Physical Journal C</i> , 2019, 79, 1.  | 3.9  | 13        |
| 16 | Towards baryon-baryon scattering in manifestly Lorentz-invariant formulation of SU(3) baryon chiral perturbation theory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 798, 134987. | 4.1  | 16        |
| 17 | Exotic molecular states in the decays of vector bottomonia. <i>EPJ Web of Conferences</i> , 2019, 212, 02002.   | 0.3  | 0         |
| 18 | Properties of $Z_b$ and $Z_b$ (10610) and $Z_b$ (10650) from an analysis of experimental line shapes. <i>EPJ Web of Conferences</i> , 2019, 202, 06012.   | 0.3  | 1         |



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|----|---|-----|-----------|
| 37 | Recoil corrections in antikaon-deuteron scattering. , 2016, , .   |     | 0         |
| 38 | Low-energy theorems for nucleon-nucleon scattering at unphysical pion masses. Physical Review C, 2015, 92, .  | 2.9 | 26        |
| 39 | Binding energy of the $X(3872)$ . Physical Review D, 2015, 91, .  | 4.7 | 25        |
| 40 | Recoil corrections in antikaon-deuteron scattering. Physical Review D, 2015, 91, .  | 4.7 | 17        |
| 41 | Remarks on study of $X(3872)$ . Physical Review D, 2015, 91, .  | 4.7 | 17        |
| 42 | Towards a field theoretical understanding of kaonic deuterium: leading order retardation effects. Hyperfine Interactions, 2015, 233, 141-149.                                     | 0.5 | 1         |
| 43 | Effective field theory calculations of $NN\pi\pi$ . International Journal of Modern Physics E, 2014, 23, 1430004.   | 1.0 | 19        |
| 44 | Status and recent developments in $NN\pi\pi$ . Physics of Particles and Nuclei, 2014, 45, 179-180.  | 0.7 | 0         |
| 45 | The multiple-scattering series in few-nucleon systems. EPJ Web of Conferences, 2014, 73, 06005.   | 0.3 | 0         |
| 46 | Complete next-to-next-to-leading order calculation of $NN\pi\pi$ in chiral effective field theory. EPJ Web of Conferences, 2014, 81, 03003.                                       | 0.3 | 1         |
| 47 | Non-perturbative pion dynamics for the $X(3872)$ . EPJ Web of Conferences, 2014, 81, 05005.   | 0.3 | 0         |
| 48 | Quark mass dependence of the $X(3872)$ . Physical Review C, 2013, 88, .   | 0.3 | 0         |
| 49 | Pion production in nucleon-nucleon collisions in chiral effective field theory with $\chi$ PT. Physical Review C, 2013, 88, .   | 2.9 | 11        |
| 50 | Measurement of spin observables in the $\bar{K}^0 p \rightarrow \bar{K}^0 n$ reaction at 353 MeV. Physical Review C, 2013, 88, .  | 2.9 | 7         |
| 51 | Charge symmetry breaking in pion-deuteron scattering. , 2013, , .   |     | 3         |
| 52 | Pion production in nucleon-nucleon collisions in chiral effective field theory: Next-to-next-to-leading order contributions. Physical Review C, 2012, 85, .                       | 2.9 | 14        |
| 53 | The multiple-scattering series in pion-deuteron scattering and the nucleon-nucleon potential: perspectives from effective field theory. European Physical Journal A, 2012, 48, 1. | 2.5 | 25        |
| 54 | Differential cross section and analysing power of the quasi-free $\bar{K}^0 p \rightarrow \bar{K}^0 n$ reaction. Physical Review C, 2012, 85, .                                   | 4.1 | 13        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Differential cross section and analysing power of the $^3\text{He}(p, n)^3\text{He}$ reaction at low energy. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 694, 473-477.                        | 4.1 | 13        |
| 56 | Extraction of S-wave pN scattering lengths from data on pionic atoms. <i>Journal of Physics: Conference Series</i> , 2012, 295, 012026.   |     | 0         |
| 57 | Three-body $^3\text{He}(p, n)^3\text{He}$ dynamics for the $^3\text{He}(p, n)^3\text{He}$ reaction. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 694, 473-477.                                 | 4.7 | 73        |
| 58 | The role of spin in $^3\text{He}(p, n)^3\text{He}$ . <i>Journal of Physics: Conference Series</i> , 2011, 295, 012026.  | 0.4 | 0         |
| 59 | Precision calculation of threshold scattering, $^3\text{He}$ scattering lengths, and the GMO sum rule. <i>Nuclear Physics A</i> , 2011, 872, 69-116.  | 1.5 | 117       |
| 60 | Chiral perturbation theory calculation for pn $\rightarrow$ d $\pi$ at threshold. <i>European Physical Journal A</i> , 2011, 47, 1.   | 2.5 | 4         |
| 61 | Towards a high-precision calculation for the pion-nucleus scattering lengths. <i>European Physical Journal A</i> , 2011, 47, 1.   | 2.5 | 20        |
| 62 | Precision calculation of the $^3\text{He}(p, n)^3\text{He}$ scattering length and its impact on threshold $^3\text{He}$ scattering. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 694, 473-477. | 4.1 | 13        |
| 63 | Abashian-Booth-Crowe Effect in Basic Double-Pionic Fusion: A New Resonance?. <i>Physical Review Letters</i> , 2011, 106, 242302.  | 7.8 | 210       |
| 64 | $^3\text{He}$ SYSTEM AT LOW ENERGY. <i>International Journal of Modern Physics A</i> , 2011, 26, 586-588.   | 1.5 | 1         |
| 65 | PRECISION CALCULATION OF THE $^3\text{He}$ SCATTERING LENGTH. <i>International Journal of Modern Physics A</i> , 2011, 26, 589-591.   | 1.5 | 0         |
| 66 | Interplay of quark and meson degrees of freedom in a near-threshold resonance. <i>European Physical Journal A</i> , 2010, 44, 93-103.   | 2.5 | 60        |
| 67 | Low-energy $^3\text{He}$ NN system. <i>EPJ Web of Conferences</i> , 2010, 3, 03003.   | 0.3 | 0         |
| 68 | Comment on "Possibility of Deeply Bound Hadronic Molecules from Single Pion Exchange". <i>Physical Review Letters</i> , 2010, 105, 019101.  | 7.8 | 37        |
| 69 | A high-accuracy extraction of the isoscalar $^3\text{He}$ scattering length from pionic deuterium data. <i>Journal of Physics: Conference Series</i> , 2010, 205, 012001.   |     | 0         |
| 70 | Hadronic atoms. <i>Journal of Physics: Conference Series</i> , 2010, 205, 012002.   |     | 0         |
| 71 | Pion reactions with few-nucleon systems. <i>Journal of Physics: Conference Series</i> , 2010, 205, 012003.  |     | 0         |
| 72 | p-wave pion production from nucleon-nucleon collisions. <i>Physical Review C</i> , 2009, 80, 014807.  | 2.9 | 33        |



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|----|--|-----|-----------|
| 91 | Charge symmetry breaking as a probe for the real part of $\pi$ -nucleus scattering lengths. Physical Review C, 2003, 68, .   | 2.9 | 7         |
| 92 | On the migdal-watson approach to FSI effects in meson production in NN collisions. Physics of Atomic Nuclei, 2001, 64, 579-584.  | 0.4 | 19        |
| 93 | Energy dependence of the near-threshold total cross-section for the $pp \rightarrow pp\pi^0$ reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 474, 416-422. | 4.1 | 62        |
| 94 | Near-threshold amplitude of pion-deuteron scattering: One-loop contributions. Physics of Atomic Nuclei, 2000, 63, 801-811.   | 0.4 | 11        |
| 95 | Charge symmetry violation effects in pion scattering off the deuteron. Physical Review C, 2000, 62, .  | 2.9 | 3         |
| 96 | On production of $\pi^0$ mesons in pp collisions close to threshold. European Physical Journal A, 1999, 6, 445-450.  | 2.5 | 9         |