

# Andrii Natochii

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

618  
citations

840776

11  
h-index

642732

23  
g-index

60  
all docs

60  
docs citations

60  
times ranked

3149  
citing authors

#	ARTICLE	IF	CITATIONS
1	Test of Lepton-Flavor Universality in $B \rightarrow K^* \ell \bar{\nu}_\ell$ Decays at Belle. Physical Review Letters, 2021, 126, 161801.	7.8	108
2	Test of lepton flavor universality and search for lepton flavor violation in $B \rightarrow K^* \ell \bar{\nu}_\ell$ decays. Journal of High Energy Physics, 2021, 2021, 1.	4.7	64
3	Search for Axionlike Particles Produced in $B \rightarrow K^* \ell \bar{\nu}_\ell$ Decays. Physical Review Letters, 2021, 126, 161801.	7.8	50
4	Search for Axionlike Particles Produced in $B \rightarrow K^* \ell \bar{\nu}_\ell$ Decays. Physical Review Letters, 2021, 126, 161801.	7.8	35
5	Search for Axionlike Particles Produced in $B \rightarrow K^* \ell \bar{\nu}_\ell$ Decays. Physical Review Letters, 2021, 126, 161801.	7.8	26
6	Feasibility of measuring the magnetic dipole moments of the charm baryons at the LHC using bent crystals. Journal of High Energy Physics, 2017, 2017, 1.	4.7	23
7	Evidence for $B \rightarrow K^* \ell \bar{\nu}_\ell$ Decays. Physical Review Letters, 2021, 126, 161801.	7.8	19
8	Performance of the diamond-based beam-loss monitor system of Belle II. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 997, 165157.	1.6	19
9	Search for lepton-flavor-violating tau-lepton decays to $\ell \bar{\nu}_\ell$ at Belle. Journal of High Energy Physics, 2021, 2021, 1.	4.7	19
10	First determination of the spin and parity of the charmed-strange baryon $\Lambda_c^+$ . Physical Review Letters, 2021, 126, 161801.	4.7	16
11	Comprehensive study of beam focusing by crystal devices. Physical Review Accelerators and Beams, 2018, 21, .	1.6	16
12	Measurements of partial branching fractions of inclusive $B \rightarrow K^* \ell \bar{\nu}_\ell$ decays with hadronic tagging. Physical Review D, 2021, 104, .	4.7	12
13	Study of inelastic nuclear interactions of 400 GeV/c protons in bent silicon crystals for beam steering purposes. European Physical Journal C, 2018, 78, 505.	3.9	10
14	Reduction of multiple scattering of high-energy positively charged particles during channeling in single crystals. European Physical Journal C, 2019, 79, 1.	3.9	10
15	Measurements of the branching fractions of $B \rightarrow K^* \ell \bar{\nu}_\ell$ and $B \rightarrow K^* \ell \bar{\nu}_\ell$ decays at Belle. Physical Review D, 2021, 103, .	4.7	10
16	Improved simulation of beam backgrounds and collimation at SuperKEKB. Physical Review Accelerators and Beams, 2021, 24, .	1.6	10
17	First test of lepton flavor universality in the charmed baryon decays $B \rightarrow K^* \ell \bar{\nu}_\ell$ . Physical Review Letters, 2021, 126, 161801.	4.7	10
18	The prospect of charm quark magnetic moment determination. European Physical Journal C, 2020, 80, 1.	3.9	9

#	ARTICLE	IF	CITATIONS
19	Measurements of $\langle \sigma_{\text{in}} \rangle$ and $\langle \sigma_{\text{ex}} \rangle$ for the $\Lambda^0$ and $\Sigma^0$ baryons. Physical Review D, 2021, 104, .	4.7	9
20	Focusing of 180 GeV/c pions from a point-like source into a parallel beam by a bent silicon crystal. Nuclear Instruments & Methods in Physics Research B, 2019, 446, 15-18.	1.4	8
21	Study of electromagnetic decays of orbitally excited $\Lambda^0$ baryons. Physical Review D, 2020, 102, .	4.7	8
22	Evidence for the decay $\Lambda^0 \rightarrow p \pi^-$ . Physical Review D, 2021, 104, .	4.7	8
23	Precise Measurement of the $\Lambda^0 \rightarrow p \pi^-$ and $\Lambda^0 \rightarrow n \pi^0$ branching fractions. Physical Review Letters, 2021, 127, 261801.	7.8	8
24	Study of $\Lambda^0 \rightarrow p \pi^-$ and $\Lambda^0 \rightarrow n \pi^0$ decays. Physical Review Letters, 2021, 127, 261801.	4.7	8
25	The CpFM, an in-vacuum Cherenkov beam monitor for UA9 at SPS. Journal of Instrumentation, 2017, 12, P04029-P04029.	1.2	6
26	Measurement of branching fractions of $\Lambda^0 \rightarrow p \pi^-$ , $\Lambda^0 \rightarrow n \pi^0$ , $\Lambda^0 \rightarrow p \pi^0$ , and $\Lambda^0 \rightarrow n \pi^+$ . Physical Review D, 2021, 103, .	4.7	6
27	Measurement of the energy dependence of the $\Lambda^0 \rightarrow p \pi^-$ and $\Lambda^0 \rightarrow n \pi^0$ exclusive cross sections. Journal of High Energy Physics, 2021, 2021, 1.	4.7	6
28	Measurement of Differential Branching Fractions of Inclusive $\Lambda^0 \rightarrow p \pi^-$ and $\Lambda^0 \rightarrow n \pi^0$ decays. Physical Review Letters, 2021, 127, 261801.	7.8	6
29	Measurement of the branching fraction of $\Lambda^0 \rightarrow p \pi^-$ decay at Belle. Physical Review D, 2021, 104, .	4.7	5
30	Angular asymmetry of the nuclear interaction probability of high energy particles in short bent crystals. European Physical Journal C, 2020, 80, 1.	3.9	5
31	Measurement of the masses and widths of the $\Lambda^0$ and $\Sigma^0$ baryons. Physical Review D, 2021, 104, .	4.7	5
32	Measurement of the branching fraction of $\Lambda^0 \rightarrow p \pi^0$ decay at Belle. Physical Review D, 2021, 104, .	4.7	5
33	Search for lepton-number- and baryon-number-violating tau decays at Belle. Physical Review D, 2020, 102, .	4.7	5
34	Measurements of the branching fractions of $\Lambda^0 \rightarrow p \pi^-$ and $\Lambda^0 \rightarrow n \pi^0$ decays. Physical Review Letters, 2021, 127, 261801.	4.7	5
35	Beam steering performance of bent silicon crystals irradiated with high-intensity and high-energy protons. European Physical Journal C, 2019, 79, 1.	3.9	4
36	The UA9 setup for the double-crystal experiment in CERN-SPS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 975, 164175.	1.6	4

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37	Channeling efficiency in a target-crystal assembly. Nuclear Instruments & Methods in Physics Research B, 2020, 467, 118-122.	1.4	4
38	Measurements of branching fractions and asymmetry parameters of $\overline{K}^0_S$ , $\overline{K}^0_L$ , $\overline{K}^0_S$ , and $\overline{K}^0_L$ decays at Belle. Journal of High Energy Physics, 2021, 2021, 1.	4.7	4
39	asymmetries for $C$	4.7	4
40	Focusing of a particle beam by a crystal device with a short focal length. Nuclear Instruments & Methods in Physics Research B, 2018, 414, 104-106.	1.4	3
41	Use of a hybrid semiconductor pixel detector as a precision beam monitor at CERN accelerator facilities. Journal of Instrumentation, 2019, 14, P03018-P03018.	1.2	3
42	Double-crystal measurements at the CERN SPS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1015, 165747.	1.6	3
43	Search for $B \rightarrow \pi^0 \pi^0 \pi^0$ ( $\pi^0 \rightarrow \gamma \gamma$ ) with a hadronic tagging method at Belle. Physical Review D, 2021, 104, .	4.7	3
44	Commissioning and operation of the Cherenkov detector for proton Flux Measurement of the UA9 experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 946, 162513.	1.6	2
45	Measurement of the resonant and nonresonant branching ratios in $\tilde{\chi}_0^0 \rightarrow \tilde{\chi}_0^0 K^0$ . Physical Review D, 2021, 103, .	4.7	2
46	Channeling efficiency reduction in high dose neutron irradiated silicon crystals for high energy and high intensity beam collimation and extraction. Journal of Instrumentation, 2021, 16, P08015.	1.2	2
47	Measurement of Two-Particle Correlations of Hadrons in $e^+e^-$ Collisions at Belle. Physical Review Letters, 2022, 128, 142005.	7.8	2
48	A smart adjustable Inelastic Nuclear Interactions counter based on compact Arduino control system and readout. , 2017, , .		1
49	Characterisation of the fused silica surface quality with a $\hat{\rho}^2$ -source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 910, 15-21.	1.6	1
50	Search for transitions from $\tilde{\chi}^0(4S)$ and $\tilde{\chi}^0(5S)$ to $\hat{b}(1S)$ and $\hat{b}(2S)$ with emission of an $\tilde{\chi}^0$ meson. Physical Review D, 2020, 102, .	4.7	1
51	Search for the dark photon in $B \rightarrow \pi^0 \pi^0 \pi^0$ , $B \rightarrow \pi^0 \pi^0 \pi^0$ , and $B \rightarrow \pi^0 \pi^0 \pi^0$ decays at Belle. Journal of High Energy Physics, 2021, 2021, 1.	4.7	1
52	Search for $B_s \rightarrow \pi^0 \pi^0 \pi^0$ at Belle using a semi-inclusive method. Physical Review D, 2021, 104, .	4.7	1
53	Search for the decay $B_s \rightarrow \pi^0 \pi^0 \pi^0$ . Physical Review D, 2021, 104, .	4.7	1
54	Measurement of branching fractions and search for CP violation in $D^0 \rightarrow \pi^0 \pi^0 \pi^0$ , $D^0 \rightarrow \pi^0 K^0 \pi^0$ , and $D^0 \rightarrow \pi^0 \pi^0 \pi^0$ at Belle. Journal of High Energy Physics, 2021, 2021, 1.	4.7	1

#	ARTICLE	IF	CITATIONS
55	Study of $B^0 \rightarrow D^+ h^-$ ( $h=K/\pi$ ) decays at Belle. Physical Review D, 2022, 105, . Search for a Light Higgs Boson in Single-Photon Decays of $\chi$	4.7	1
56	Characterization of the quartz surface quality with $\hat{I}^2$ -source. , 2017, , .		0
57	Measurement of branching fraction and search for CP violation in $B^0 \rightarrow \pi^+ \pi^- K$ . Physical Review D, 2021, 103, .	4.7	0
58	Search for the $\chi_{c2}(1D)$ in $e^+e^- \rightarrow \chi_{c2}(1D)$ at $s$ near 10.6 GeV at Belle. Physical Review D, 2021, 104, . Study of $\chi_{c2}(1D)$	4.7	0
59	Search for a Light Higgs Boson in Single-Photon Decays of $\chi$		
60	Characterization of the quartz surface quality with $\hat{I}^2$ -source. , 2017, , .		0