

Кількість статей за 2019 рік				Тези, кількість
у вітчизняних виданнях	у зарубіжних виданнях	у препринтах	у наукових фахових журналах (вітчизняних і зарубіжних), що входять до міжнародних баз даних	
55	129	34	171	144

### Найважливіші статті

Назва	Видавництво, журнал (назва, номер, рік, сторінки), URL або посилання на сайт, де розміщено публікацію	Прізвища авторів	К-сть цитув.	Імпакт фактор
Observation of a Narrow Pentaquark State, $P_c(4312)^+$ , and of the Two-Peak Structure of the $P_c(4450)^+$	American Physical Society, Physical Review Letters, 122 (22), 2019, 222001, DOI: <a href="https://doi.org/10.1103/PhysRevLett.122.222001">https://doi.org/10.1103/PhysRevLett.122.222001</a>	R. Aaij, ..., S. Koliiev, ..., I. Kostiuk, ..., O. Kot, ..., V. Pugatch et al. (LHCb Collaboration)	723	8.385
Measurement of b hadron fractions in 13 TeV pp collisions	American Physical Society, Physical Review D, 100 (3), 2019, 031102, DOI: <a href="https://doi.org/10.1103/PhysRevD.100.031102">https://doi.org/10.1103/PhysRevD.100.031102</a>	R. Aaij, ..., S. Koliiev, ..., V. Pugatch et al. (LHCb Collaboration)	302	4.833
Overview of first Wendelstein 7-X high-performance operation	IOP Publishing Nuclear Fusion 59 (11) (2019) 112004 <a href="https://iopscience.iop.org/article/10.1088/1741-4326/ab03a7">https://iopscience.iop.org/article/10.1088/1741-4326/ab03a7</a>	T. Klinger, T., ..., Y. Kolesnichenko, et al.	246	3.706
Overview of the JET preparation for deuterium–tritium operation with the ITER like-wall	IOP Publishing Nuclear Fusion 59 (11) (2019) 112021 <a href="https://iopscience.iop.org/article/10.1088/1741-4326/ab2276/meta">https://iopscience.iop.org/article/10.1088/1741-4326/ab2276/meta</a>	E. Joffrin, S..., Y. Kolesnichenko, et al.	139	3.706
New data on $0^+$ states in $^{158}\text{Gd}$	Phys. Rev. C100, 034307 (2019) <a href="https://doi.org/10.1103/PhysRevC.100.034307">https://doi.org/10.1103/PhysRevC.100.034307</a>	A. I. Levon, D. Bucurescu, C. Costache, et al.	13	2.988

Detailed studies of $^{100}\text{Mo}$ two-neutrino double beta decay in NEMO-3	European Physical Journal C 79 (2019) 440, 11 p. <a href="https://doi.org/10.1140/epjc/s10052-019-6948-4">https://doi.org/10.1140/epjc/s10052-019-6948-4</a> .	R.Arnold, ..., V.I.Tretyak, ...	46	4.389
First results from the AMoRE-Pilot neutrinoless double beta decay experiment	European Physical Journal C 79 (2019) 791, 12 p. <a href="https://doi.org/10.1140/epjc/s10052-019-7279-1">https://doi.org/10.1140/epjc/s10052-019-7279-1</a> .	V.Alenkov, ..., R.S.Boiko, ..., D.M.Chernyak, ..., F.A.Danevich, et al.	81	4.389
Experimental searches for rare alpha and beta decays	European Physical Journal A 55 (2019) 140, 43 p. <a href="https://doi.org/10.1140/epja/i2019-12823-2">https://doi.org/10.1140/epja/i2019-12823-2</a> .	P.Belli, ..., F.A.Danevich, ..., V.I.Tretyak,	28	2.176
Experimental observation of neutron-neutrons correlations in nucleus $^6\text{He}$ from $^3\text{H}(\alpha, p\alpha)nn$ reaction	Nucl. Phys. and At. Energy, T.20, № 4 pages 357-365 (2019) <a href="https://doi.org/10.15407/jnpae2019.04.357">https://doi.org/10.15407/jnpae2019.04.357</a>	O. M. Povoroznyk, O. K. Gorpinich	1	0.3
Empirical relations for the fusion cross sections of heavy ions	Springer, European Physical Journal A, 2019, 55(9), p. 153. <a href="https://doi.org/10.1140/epja/i2019-12855-6">https://doi.org/10.1140/epja/i2019-12855-6</a>	Denisov, V.Y., Sedykh, I.Y.	17	3.13
Comparison of the nucleus-nucleus potential evaluated in the double-folding and energy density approximations and the cross-sections of elastic scattering and fusion of heavy ions	Elsevier, Nuclear Physics A, 2019, 989, p. 214–230. <a href="https://doi.org/10.1016/j.nuclphysa.2019.06.004">https://doi.org/10.1016/j.nuclphysa.2019.06.004</a>	Davydovska, O.I., Denisov, V.Y., Nesterov, V.A.	10	1.56
Excitation of $^{179}\text{Hf}^{m2}$ with $(\gamma, n)$ -reaction	Elsevier, Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms, 2019, 456, p. 116–119 <a href="https://doi.org/10.1016/j.nimb.2019.06.029">https://doi.org/10.1016/j.nimb.2019.06.029</a>	Zheltonozhsky, V.A., Savrasov, A.M.	12	1.38
Fission of superheavy nuclei: Fragment mass distributions and their dependence on excitation energy	Phys. Rev. C 99, 064606 (2019) (7 pages) <a href="https://doi.org/10.1103/PhysRevC.99.064606">https://doi.org/10.1103/PhysRevC.99.064606</a>	Carjan N., Ivanyuk F.A., and Oganessian Yu.Ts.	23	2.988
Correlated transitions in TKE and mass distributions of fission fragments described by	Scientific Reports 9, 1525 (2019) (9 pages) <a href="https://doi.org/10.1038/s41598-018-37993-7">https://doi.org/10.1038/s41598-018-37993-7</a>	Usang M.D., Ivanyuk F.A., Ishisuka C., and Chiba S.	60	3.998

Exciton condensation in quantum wells with defects of macroscopic	IOP Publishing Ltd - Journal of Physics: Condens. Maters. - 2019. - V. 31.- No. 47. - P. 475301. <a href="https://doi.org/10.1088/1361-648X/ab36ec">https://doi.org/10.1088/1361-648X/ab36ec</a>	V.I.Sugakov	3	2.705
$^{12}\text{C}(^{15}\text{N}, ^{14}\text{C})^{13}\text{N}$ reaction at 81 MeV. Competition between one and two particle transfers	Nucl. Phys. A 992 (2019) 121638. <a href="https://www.sciencedirect.com/science/article/abs/pii/S0375947419302131">https://www.sciencedirect.com/science/article/abs/pii/S0375947419302131</a> DOI: 10.1016/j.nuclphysa.2019.121638	A.T. Rudchik, A.A. Rudchik, et al.	1	3,2
Elastic and inelastic scattering of $^{15}\text{N}$ ions by $^{12}\text{C}$ at 81 MeV and the effect of transfer channels	Acta Physica Polonica B 50 (2019) 753. <a href="https://www.actaphys.uj.edu.pl/fulltext?series=Reg&amp;vol=50&amp;page=753">https://www.actaphys.uj.edu.pl/fulltext?series=Reg&amp;vol=50&amp;page=753</a> DOI: 10.5506/APhysPolB.50.753	A.T. Rudchik, A.A. Rudchik, et al.	4	1,4
Валидація пакета програм MСРV, адаптивованого для розрахунків переносу нейтронів в окологорпусном пространстві реактора ВВЭР-440	Ядерна фізика та енергетика, Т. 20, № 2, 2019, С. 153, <a href="https://doi.org/10.15407/jnpae2019.02.153">https://doi.org/10.15407/jnpae2019.02.153</a>	Пугач, Пугач, Демехин, Буканов, Гриценко		
Исследование чернобыльских выпадений в 30-км зоне ЧАЭС после установки конфайнмента.	Ядерна фізика та енергетика. – 2019. т. 20, №3 . – с.258. <a href="https://doi.org/10.15407/jnpae2019.03.258">https://doi.org/10.15407/jnpae2019.03.258</a>	М.В.Желтоножская, Н.В.Кулич, Д.Е.Мызников, В.И.Слисенко		
Перші дослідження реакцій нікель-літій-водневого теплогенератора в Києві.	Ядерна фізика та енергетика, т. 20, №2, 2019, с. 196. <a href="https://doi.org/10.15407/jnpae2019.02.196">https://doi.org/10.15407/jnpae2019.02.196</a>	В.А.Пшеничний, О.О.Грицай, В.М.Павлович та ін.		
Nucleon microscopy in proton-nucleus scattering via analysis of bremsstrahlung emission	Phys. Rev. C 99, 064602 (2019) <a href="https://doi.org/10.1103/PhysRevC.99.064602">https://doi.org/10.1103/PhysRevC.99.064602</a>	Maydanyuk S. P., Zhang P.-M., Zou L.-P.	2	2.988
First investigations of hypernuclei in reactions via analysis of bremsstrahlung photons	Phys. Rev. C 99, 064614 (2019) <a href="https://doi.org/10.1103/PhysRevC.99.064614">https://doi.org/10.1103/PhysRevC.99.064614</a>	Liu X., Maydanyuk S. P., Zhang P.-M., Liu L.	3	2.988

Modification of the defective structure of silicon under the influence of radiation	J. Nano- Electron. Phys. – 2019. – Vol. 11, No. 3. – P. 03010 (6). <a href="https://doi.org/10.21272/jnep.11(3).03010">https://doi.org/10.21272/jnep.11(3).03010</a>	Gaidar G.P. Pinkovska M.B. Starchyk M.I.	1	–
Current-voltage characteristic and electroluminescence of UV LEDs 365 nm at liquid nitrogen temperature	Optica Applicata. – 2019. – V. 49, No. 1. – P. 125–133. DOI: <a href="https://doi.org/10.5277/oa190111">10.5277/oa190111</a>	Veleschuk V. Vlasenko A. Vlasenko Z. Petrenko I. Malyi Ye. Borshch V. Borshch O. Shefer A.	2	0,14
Radiation-induced effects in silicon	Problems of Atomic Science and Technology (PAST). – 2019. – № 5 (123). – Series: Physics of Radiation Effect and Radiation Materials Science (115). – P. 35–43. <a href="https://vant.kipt.kharkov.ua/ARTICLE/VANT_2019_5/article_2019_5_35.pdf">https://vant.kipt.kharkov.ua/ARTICLE/VANT_2019_5/article_2019_5_35.pdf</a>	Gaidar G.P. Pinkovska M.B. Starchyk M.I.	1	0,11
Engineering Version of Local Approach to Fracture and its Application for RPV Lifetime Prediction	Key Engineering Materials. – 2019. – Vol. 810. – P. 15 – 20 <a href="https://doi.org/10.4028/www.scientific.net/KEM.810.15">https://doi.org/10.4028/www.scientific.net/KEM.810.15</a>	S. Kotrechko, G. Zimina, V. Revka, I. Dlouhy	0	0.48
Influence of Nonuniform Magnetic Field on the Helicon Discharge Excited by Various Antennas	Naukova Dumka, Ukr. J. Phys. 2019. Vol. 64, No. 3. pp. 223-223 <a href="https://doi.org/10.15407/ujpe64.3.223">doi.org/10.15407/ujpe64.3.223</a>	Вірко В.Ф., Вірко Ю.В.	3	0,5
Examining a mathematical apparatus of Z-approximations of function for construction of an adaptive algorithm.	Eastern-European Journal of Enterprise Technologies. 3/4 (99) 2019. P. 6-13. <a href="https://doi.org/10.15587/1729-4061.2019.170824">https://doi.org/10.15587/1729-4061.2019.170824</a>	Kryazhych O.O., Kovalenko O.V.	1	1,23
Застосування статистичних методів для перевірки працездатності технічних засобів системи фізичного захисту	Ядерна фізика та енергетика Nuclear Physics and Atomic Energy 2019, volume 20, issue 1, pages 90-95. <a href="https://doi.org/10.15407/jnpae2019.01.090">https://doi.org/10.15407/jnpae2019.01.090</a>	Б. В. Кайдик, Т. В. Бібік, В. І. Гаврилюк, С. С. Драпей, О. П. Романова	0	0,3