Fedir A Ivanyuk

List of Publications by Year
in descending order

60 papers	785 citations	623734 14 h-index	552781 26 g-index
60 all docs	60 docs citations	60 times ranked	273 citing authors

#	Article	IF	Citations
1	Deformation of fission fragments at scission studied by 4D Langevin model. AIP Conference Proceedings, 2021, , .	0.4	0
2	Dependence of total kinetic energy of fission fragments on the excitation energy of fissioning systems. Physical Review C, 2021, 104, .	2.9	8
3	Formation of superheavy nuclei in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">S</mml:mi><mml:mprescripts /><mml:none /><mml:mn>36</mml:mn></mml:mmultiscripts><mml:mo>+</mml:mo><mml:mmultiscripts><mml:mi mathvariant="normal">U</mml:mi><mml:mprescripts /><mml:none /><mml:mn>236</mml:mn></mml:mmultiscripts></mml:mrow></mml:math> reaction	2.9	10
4	Effect of the doubly magic shell closures in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Sn</mml:mi><mml:mprescripts /><mml:none /><mml:mn>132</mml:mn></mml:mmultiscripts></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Pb</mml:mi><mml:mprescripts /><mml:none /><mml:mn>208</mml:mn></mml:mmultiscripts></mml:math> on the mass distributions of fission fragments	2.9	17
5	Fission of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>Ar</mml:mi><mml:mprescripts /><mml:none /><mml:mn>36</mml:mn></mml:mmultiscripts><mml:mo>+</mml:mo><mml:mmultiscripts><mml:mi>Nd</mml:mi><mml:mprescripts /><mml:none /><mml:mn>142</mml:mn></mml:mmultiscripts></mml:mrow></mml:math> within the two-stage fusion-fission model. Physical Review C, 2019, 99,	2.9	1
6	Fission of superheavy nuclei: Fragment mass distributions and their dependence on excitation energy. Physical Review C, 2019, 99, .	2.9	14
7	Correlated transitions in TKE and mass distributions of fission fragments described by 4-D Langevin equation. Scientific Reports, 2019, 9, 1525.	3.3	52
8	Fission observables from 4D Langevin calculations with macroscopic transport coefficients. EPJ Web of Conferences, 2018, 169, 00027.	0.3	1
9	Temperature dependence of shell corrections. Physical Review C, 2018, 97, .	2.9	38
10	Mass distribution of fission fragments within the Born-Oppenheimer approximation. European Physical Journal A, 2017, 53, 1.	2.5	12
11	Systematic Analysis of Fission Fragment Mass Distribution and TKE for Actinides by Langevin Equation. Energy Procedia, 2017, 131, 299-305.	1.8	2
12	Four-dimensional Langevin approach to low-energy nuclear fission of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="bold">U</mml:mi><mml:mprescripts /><mml:none /><mml:mn>236</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2017, 96, .	2.9	70
13	Analysis of the total kinetic energy of fission fragments with the Langevin equation. Physical Review C, 2017, 96, .	2.9	48
14	Effects of microscopic transport coefficients on fission observables calculated by Langevin equation and its systematics. EPJ Web of Conferences, 2017, 146, 04025.	0.3	2
15	The scission point configuration of fissioning nuclei. EPJ Web of Conferences, 2016, 122, 01002.	0.3	7
16	Allowance for the tunnel effect in the entrance channel of fusionâ€“fission reactions. Physics of Atomic Nuclei, 2016, 79, 342-350.	0.4	4
17	Description of fusion and evaporation residue formation cross sections in reactions leading to the formation of element <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Z</mml:mi><mml:mo>=</mml:mo><mml:mn>122</mml:mn></mml:math> the Langevin approach. Physical Review C, 2016, 93, .	2.9	14
18	Effects of microscopic transport coefficients on fission observables calculated by the Langevin equation. Physical Review C, 2016, 94, .	2.9	49

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19	The transport coefficient of collective motion within the two-center shell model shape parameterization. Journal of Nuclear Science and Technology, 2016, 53, 737-748.	1.3	7
20	The Scission Point Configuration and the Multiplicity of Prompt Neutrons. Physics Procedia, 2015, 64, 28-33.	1.2	0
21	Fission of transactinide elements described in terms of generalized Cassinian ovals: Fragment mass and total kinetic energy distributions. Nuclear Physics A, 2015, 942, 97-109.	1.5	18
22	Fission Fragments Mass Distribution of ^{236}U. Acta Physica Polonica B, Proceedings Supplement, 2015, 8, 659.	0.1	4
23	Scission-point configuration within the two-center shell model shape parameterization. Physical Review C, 2014, 90, .	2.9	43
24	The shell effects in the scission-point configuration of fissioning nuclei. Physica Scripta, 2014, 89, 054012.	2.5	6
25	Description of the two-humped mass distribution of fission fragments of mercury isotopes on the basis of the multidimensional stochastic model. Physics of Atomic Nuclei, 2014, 77, 167-174.	0.4	3
26	Description of synthesis of super-heavy elements within the multidimensional stochastic model. Physical Review C, 2014, 89, .	2.9	21
27	On the Scission Point Configuration of Fissioning Nuclei. Physics Procedia, 2013, 47, 17-26.	1.2	12
28	On the PoincarÃ© instability of a rotating liquid drop. Physica Scripta, 2013, T154, 014021.	2.5	4
29	Influence of the shell structure of colliding nuclei in fusion-fission reactions. Physical Review C, 2012, 85, .	2.9	11
30	THE SHAPE TRANSITIONS IN ROTATING NUCLEI. International Journal of Modern Physics E, 2012, 21, 1250032.	1.0	4
31	Allowance for the orientation of colliding ions in describing the synthesis of heavy nuclei. Physics of Atomic Nuclei, 2012, 75, 1500-1512.	0.4	10
32	Allowance for the shell structure of the 42 100 Mo and 46 110 Pd nuclei in the synthesis of 84 200 Po, 88 210 Ra, and 92 220 U. Physics of Atomic Nuclei, 2012, 75, 37-44.	0.4	4
33	Allowance for the shell structure of colliding nuclei in the fusion-fission process. Physics of Atomic Nuclei, 2011, 74, 1001-1009.	0.4	9
34	ON POINCARÃ‰ INSTABILITY OF ROTATING STARS AND NUCLEI. International Journal of Modern Physics E, 2010, 19, 601-610.	1.0	6
35	THE FISSION BARRIERS OF HEAVY AND EXOTIC NUCLEI. International Journal of Modern Physics E, 2010, 19, 514-520.	1.0	4
36	Fission barrier heights and lifetimes for heavy and superheavy nuclei. , 2009, , .		0

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37	PAIRING CORRELATIONS AND FISSION BARRIER HEIGHTS. International Journal of Modern Physics E, 2009, 18, 900-906.	1.0	14
38	REMARKS ON THE NUCLEAR SHELL-CORRECTION METHOD. International Journal of Modern Physics E, 2009, 18, 123-130.	1.0	2
39	THE SHAPES OF CONDITIONAL EQUILIBRIUM IN THE LIQUID-DROP MODEL. International Journal of Modern Physics E, 2009, 18, 879-884.	1.0	14
40	Optimal shapes and fission barriers of nuclei within the liquid drop model. Physical Review C, 2009, 79, .	2.9	54
41	Application of a two-step dynamical model to calculating properties of fusion-fission reactions. Physics of Atomic Nuclei, 2008, 71, 2052-2066.	0.4	5
42	THE TRANSPORT COEFFICIENTS OF LARGE SCALE NUCLEAR COLLECTIVE MOTION. International Journal of Modern Physics E, 2008, 17, 60-71.	1.0	0
43	Dielectric function of metal clusters: Finite-size effects and the macroscopic limit. Physical Review B, 2008, 77, .	3.2	2
44	Diabatic States from Nodal Structure Conservation. Physical Review Letters, 2005, 95, 082501.	7.8	0
45	The Multi-dimensional Langevin Approach to the Description of Fusion-fission Reactions. Journal of Nuclear and Radiochemical Sciences, 2002, 3, 71-76.	0.7	11
46	Fission dynamics of excited nuclei within the liquid-drop model. Physics of Atomic Nuclei, 2002, 65, 824-830.	0.4	0
47	Multidimensional Langevin approach to describing the 18O + 208Pb fusion-fission reaction. Physics of Atomic Nuclei, 2002, 65, 1588-1595.	0.4	8
48	The effect of nuclear rotation on the collective transport coefficients. Nuclear Physics A, 2001, 694, 295-311.	1.5	3
49	Nuclear fission: The â€œonset of dissipationâ€•from a microscopic point of view. Physical Review C, 2001, 64, .	2.9	23
50	Transport coefficients for shape degrees in terms of Cassini ovaloids. Physical Review C, 1997, 55, 1730-1746.	2.9	44
51	Semiclassical analysis of shell structure in large prolate cavities. Annalen Der Physik, 1997, 509, 555-594.	2.4	14
52	Collective friction coefficients in the relaxation time approximation. Physical Review C, 1996, 53, 1861-1867.	2.9	6
53	Liquid drop surface dynamics for large nuclear deformations. Physical Review C, 1995, 52, 678-684.	2.9	9
54	Towards a macroscopic generator coordinate method. Zeitschrift FÃ¼r Physik A, 1992, 341, 267-274.	0.9	4

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55	The adiabatic cranking model for large amplitudes. Zeitschrift FÃ¼r Physik A, Atomic Nuclei, 1989, 334, 69-75.	0.3	0
56	Shell corrections for finite depth potentials. 3. Zeitschrift FÃ¼r Physik A, 1984, 316, 233-237.	1.4	7
57	Towards CRAMOLA, the cranking model for large amplitudes. Zeitschrift FÃ¼r Physik A, 1982, 306, 273-280.	1.4	4
58	Shell corrections for finite depth deformed potentials. II. Zeitschrift FÃ¼r Physik A, 1979, 290, 107-111.	1.4	11
59	Energy- andN-averagings in the shell correction method. Zeitschrift FÃ¼r Physik A, 1979, 293, 337-342.	1.4	17
60	Shell corrections for finite depth potentials. Zeitschrift FÃ¼r Physik A, 1978, 286, 291-297.	1.4	18