

Pavel Nadtochy

List of Publications by Year in descending order

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78
papers

1,395
citations

430874

18
h-index

361022

35
g-index

80
all docs

80
docs citations

80
times ranked

333
citing authors

#	ARTICLE	IF	CITATIONS
1	Transport coefficients for modeling fission dynamics. Computer Physics Communications, 2022, 275, 108308.	7.5	2
2	Potential energy models of excited compound nucleus. Computer Physics Communications, 2021, 258, 107605.	7.5	2
3	Evaporation and fission decay of Er158 composite nuclei within the statistical model. Physical Review C, 2020, 102, .	2.9	3
4	Competing asymmetric fusion-fission and quasifission in neutron-deficient sub-lead nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 803, 135297.	4.1	11
5	Fission dynamics in systems of intermediate fissility. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 115111.	3.6	9
6	New procedure to determine the mass-angle correlation of quasifission. Physical Review C, 2019, 100, .	2.9	8
7	What Shall We Do with the Spectator System in Ultrarelativistic Heavy-ion Collisions?. Acta Physica Polonica B, 2019, 50, 311.	0.8	0
8	Role of the Spectator System in Electromagnetic Effects. Acta Physica Polonica B, Proceedings Supplement, 2019, 12, 361.	0.1	0
9	Evaporation channel as a tool to study fission dynamics. Nuclear Physics A, 2018, 971, 21-34.	1.5	16
10	Influence of fusion dynamics on fission observables: A multidimensional analysis. Physical Review C, 2018, 97, .	2.9	11
11	Dynamical evolution of spectator systems produced in ultrarelativistic heavy-ion collisions. Physical Review C, 2018, 97, .	2.9	8
12	Is nuclear viscosity dependent on temperature?. EPJ Web of Conferences, 2018, 193, 01002.	0.3	1
13	A study on the dependence of nuclear viscosity on temperature. Journal of Physics: Conference Series, 2018, 1014, 012018.	0.4	0
14	Fission fragment distributions within dynamical approach. European Physical Journal A, 2017, 53, 1.	2.5	39
15	First Estimation of the Fission Dynamics of the Spectator Created in Heavy-ion Collisions. Acta Physica Polonica B, Proceedings Supplement, 2017, 10, 113.	0.1	1
16	Dissipation strength of the tilting degree of freedom in fusion-fission reactions. EPJ Web of Conferences, 2016, 117, 08015.	0.3	1
17	Going beyond statistical models for fission in the Businaro-Gallone region. Physical Review C, 2016, 94, .	2.9	12
18	Clustering effects in Cr48 composite nuclei produced via the Mg24+Mg24 reaction. Physical Review C, 2016, 93, .	2.9	15

#	ARTICLE	IF	CITATIONS
19	Dissipation of the tilting degree of freedom in heavy-ion-induced fission from four-dimensional Langevin dynamics. <i>European Physical Journal A</i> , 2016, 52, 1.	2.5	14
20	Coulomb chronometry to probe the decay mechanism of hot nuclei. <i>Physical Review C</i> , 2015, 92, .	2.9	6
21	Fission dynamics of intermediate-fissility systems: A study within a stochastic three-dimensional approach. <i>Physical Review C</i> , 2015, 92, .	2.9	36
22	Fission dynamics with systems of intermediate fissility. <i>Pramana - Journal of Physics</i> , 2015, 85, 345-355.	1.8	1
23	Dissipative effects in spallation-induced fission of ^{208}Pb at high excitation energies. <i>Physical Review C</i> , 2015, 91, .	2.9	28
24	The software and hardware complex for automatic feed control of steam generators in the power unit of a nuclear power plant. <i>Automation and Remote Control</i> , 2015, 76, 2241-2248.	0.8	6
25	Investigation of dissipation in the tilting degree of freedom from four-dimensional Langevin dynamics of heavy-ion-induced fission. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2015, 42, 045107.	3.6	12
26	Realization of the automatic control system with fuzzy-logic static error compensation in the computer-aided design environment Teprol. <i>Automation and Remote Control</i> , 2015, 76, 157-165.	0.8	4
27	Description of isotopic fission-fragment distributions within the Langevin approach. <i>Physical Review C</i> , 2015, 91, .	2.9	18
28	Analysis of Experimental Data from Fusion-fission Reactions Within Four-dimensional Langevin Dynamics. <i>Acta Physica Polonica B</i> , 2015, 46, 579.	0.8	3
29	The Businaro–Gallone Region: A Playground for Dynamical Models of Fission?. <i>Acta Physica Polonica B, Proceedings Supplement</i> , 2015, 8, 685.	0.1	1
30	On current ambiguity in the interpretation of fission at intermediate excitation energy. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014, 737, 289-292.	4.1	19
31	Transient effects in highly-excited fissioning systems. <i>Journal of Physics: Conference Series</i> , 2014, 569, 012075.	0.4	0
32	Incorporation of a tilting coordinate into the multidimensional Langevin dynamics of heavy-ion-induced fission: Analysis of experimental data from fusion-fission reactions. <i>Physical Review C</i> , 2014, 89, .	2.9	56
33	Examining fine potential energy effects in high-energy fission dynamics. <i>Physical Review C</i> , 2013, 88, .	2.9	8
34	High-precision measurement of total fission cross sections in spallation reactions of ^{208}Pb and ^{238}U . <i>Physical Review C</i> , 2013, 87, .	2.9	19
35	Fission Fragment Mass Distribution as a Probe of the Shape-dependent Congruence Energy Term in the Macroscopic Models. <i>Acta Physica Polonica B</i> , 2013, 44, 293.	0.8	4
36	On some limitations of current Langevin calculations. <i>Physica Scripta</i> , 2013, T154, 014004.	2.5	5

#	ARTICLE	IF	CITATIONS
37	Influence of orientation degree of freedom on fission dynamics of highly excited nuclei. EPJ Web of Conferences, 2013, 62, 07001.	0.3	5
38	Fission dynamics: The quest of a temperature dependent nuclear viscosity. EPJ Web of Conferences, 2013, 62, 07004.	0.3	3
39	Sequential fissions of heavy nuclear systems. EPJ Web of Conferences, 2013, 62, 07006.	0.3	0
40	Pre- and post-scission particle emission in 3D Langevin calculations with various macroscopic potentials. EPJ Web of Conferences, 2013, 62, 02002.	0.3	1
41	Clustering effects in ^{48}Cr composite nucleus produced via the reaction $^{24}\text{Mg} + ^{24}\text{Mg}$ at the excitation energy of 60 MeV. Journal of Physics: Conference Series, 2013, 436, 012054.	0.4	6
42	Investigating the dynamics of fission with low-fissility highly-excited nuclei. EPJ Web of Conferences, 2013, 62, 06004.	0.3	0
43	Clustering effects in ^{48}Cr composite nuclei produced via $^{24}\text{Mg} + ^{24}\text{Mg}$ reaction. EPJ Web of Conferences, 2012, 21, 02002.	0.3	3
44	Four-dimensional Langevin dynamics of heavy-ion-induced fission. Physical Review C, 2012, 85, .	2.9	70
45	Critical insight into the influence of the potential energy surface on fission dynamics. Physical Review C, 2011, 84, .	2.9	14
46	Influence of the potential energy landscape on the fission dynamics. EPJ Web of Conferences, 2011, 17, 16006.	0.3	0
47	Statistics vs. dynamics: hints from systems of intermediate fissility. Journal of Physics: Conference Series, 2011, 282, 012012.	0.4	1
48	The role of isospin in fusion evaporation reactions. Journal of Physics: Conference Series, 2011, 267, 012053.	0.4	4
49	Evaporation and fission decay of ^{132}Ce compound nuclei at $E_x=122$ MeV: some limitations of the statistical model. European Physical Journal A, 2011, 47, 1.	2.5	27
50	Examination of isospin effects in multi-dimensional Langevin fission dynamics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 685, 258-262.	4.1	35
51	Fission rate and transient time of highly excited nuclei in multi-dimensional stochastic calculations. , 2010, , .		0
52	Fragmentation of spherical radioactive heavy nuclei as a novel probe of transient effects in fission. Physical Review C, 2010, 81, .	2.9	57
53	FRAGMENTATION OF RADIOACTIVE BEAMS FOR TAILORING FISSION TRANSIENTS. International Journal of Modern Physics E, 2009, 18, 2150-2154.	1.0	5
54	Rate of excited-nucleus fission within a multidimensional stochastic approach. Physics of Atomic Nuclei, 2009, 72, 1992-2004.	0.4	7

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55	Tailoring fission dynamics using fragmentation of radioactive heavy ion beams. , 2009, , .		0
56	Fission dynamics In [¹³² Ce composite nuclei at E _x =122 MeV. , 2009, , .		1
57	Statistics vs. dynamics in fission: light and shade from systems of intermediate fissility. , 2009, , .		3
58	Nuclear scission and fission-fragment kinetic-energy distribution: Study within three-dimensional Langevin dynamics. Nuclear Physics A, 2008, 799, 56-83.	1.5	40
59	Impact of non-Markovian effects on the fission rate and time. Physics of Atomic Nuclei, 2008, 71, 2007-2017.	0.4	14
60	Application of a temperature-dependent liquid-drop model to dynamical Langevin calculations of fission-fragment distributions of excited nuclei. Physical Review C, 2008, 78, .	2.9	71
61	NEW CLUES ON FISSION DYNAMICS FROM SYSTEMS OF INTERMEDIATE FISSION. , 2008, , .		0
62	First Experiment on Fission Transients in Highly Fissile Spherical Nuclei Produced by Fragmentation of Radioactive Beams. Physical Review Letters, 2007, 99, 042701.	7.8	63
63	Investigation of the reaction ²⁰⁸ Pb(18O, f): Fragment spins and phenomenological analysis of the angular anisotropy of fission fragments. Physics of Atomic Nuclei, 2007, 70, 1679-1693.	0.4	5
64	Dynamical description of the moments of the energy distribution of fission fragments and scission of a fissile nucleus. Physics of Atomic Nuclei, 2007, 70, 1846-1858.	0.4	2
65	Fission rate in multi-dimensional Langevin calculations. Physical Review C, 2007, 75, .	2.9	64
66	Nuclear Viscosity in the Fission of ¹³² Ce Composite Nuclei at E _x =122 MeV. AIP Conference Proceedings, 2006, , .	0.4	0
67	Dynamical interpretation of average fission-fragment kinetic energy systematics and nuclear scission. Physical Review C, 2005, 72, .	2.9	45
68	FISSION DYNAMICS IN SYSTEMS OF INTERMEDIATE FISSION WITH 8iELP APPARATUS. , 2005, , .		0
69	Level-density parameter of hot rotating fissioning nuclei within the finite-range liquid-drop model. Nuclear Physics A, 2004, 734, E37-E40.	1.5	1
70	Probabilistic scission of a fissile nucleus into fragments. Physics of Atomic Nuclei, 2003, 66, 618-631.	0.4	10
71	Reduction coefficient in surface-plus-window dissipation: Analysis of experimental data from fusion-fission reactions within a stochastic approach. Physics of Atomic Nuclei, 2003, 66, 1203-1210.	0.4	14
72	Consistent application of the finite-range liquid-drop model to Langevin fission dynamics of hot rotating nuclei. Journal of Physics G: Nuclear and Particle Physics, 2003, 29, 2365-2380.	3.6	38

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73	More detailed study of fission dynamics in fusion-fission reactions within a stochastic approach. Physical Review C, 2002, 65, .	2.9	146
74	Langevin fission dynamics of hot rotating nuclei: Systematic application to $Z \geq 42$ heavy nuclei. Physics of Atomic Nuclei, 2002, 65, 799-813.	0.4	11
75	THREE-DIMENSIONAL LANGEVIN CALCULATIONS OF FISSION FRAGMENT MASS-ENERGY DISTRIBUTION FROM EXCITED COMPOUND NUCLEI. , 2002, , .		82
76	Three-dimensional Langevin calculations of fission fragment mass-energy distribution from excited compound nuclei. Physical Review C, 2001, 63, .	2.9	147
77	Mass-energy distribution of fragments from the fission of excited nuclei within three-dimensional Langevin dynamics. Physics of Atomic Nuclei, 2001, 64, 861-869.	0.4	5
78	Langevin description of mass distributions of fragments originating from the fission of excited nuclei. Physics of Atomic Nuclei, 2000, 63, 1865-1873.	0.4	14