

# Rashid G Nazmitdinov

## List of Publications by Year in descending order

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148  
papers

1,702  
citations

304743

22  
h-index

377865

34  
g-index

149  
all docs

149  
docs citations

149  
times ranked

767  
citing authors

#	ARTICLE	IF	CITATIONS
1	Classical conformal blocks, Coulomb gas integrals and Richardson-Gaudin models. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
2	Spin Interference Effects in a Ring with Rashba Spin-Orbit Interaction Subject to Strong Light-Matter Coupling in Magnetic Field. Symmetry, 2022, 14, 1194.	2.2	2
3	Potential roots of the deep subbarrier heavy-ion fusion hindrance phenomenon within the sudden approximation approach. Physical Review C, 2021, 103, .	2.9	11
4	Effect of contact barrier heights on the power conversion efficiency of a perovskite photovoltaic element. Mendeleev Communications, 2021, 31, 459-461.	1.6	4
5	Hybrid model for the damped transient response of giant dipole resonances. Physical Review C, 2021, 104, .	2.9	2
6	On the efficiency of perovskite solar cells with a back reflector: effect of a hole transport material. Physical Chemistry Chemical Physics, 2021, 23, 26250-26262.	2.8	5
7	Spin-dependent electron transmission across the corrugated graphene. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 118, 113846.	2.7	5
8	On Statistical Properties of the Gamow-Teller Strength Distribution in ${}^{60}\text{Ca}$ . Physics of Atomic Nuclei, 2020, 83, 171-178.	0.4	0
9	Kramers Degeneracy and Spin Inversion in a Lateral Quantum Dot. Symmetry, 2020, 12, 2043.	2.2	1
10	On Symmetry Properties of The Corrugated Graphene System. Symmetry, 2020, 12, 533.	2.2	3
11	Near-barrier heavy-ion fusion: Role of boundary conditions in coupling of channels. Physical Review C, 2020, 101, .	2.9	10
12	Application of extsf {KANTBP} Program of Finite Element Method in the Coupled-channels Calculations for Heavy-ion Fusion Reactions. Acta Physica Polonica B, Proceedings Supplement, 2020, 13, 549.	0.1	2
13	Effect of the magnetic field on electron density distributions in two-electron quantum dots. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 435303.	2.1	0
14	Synergy of the ray tracing+carrier transport approach: On efficiency of perovskite solar cells with a back reflector. Solar Energy Materials and Solar Cells, 2019, 200, 110050.	6.2	7
15	Cyclic symmetry and self-organization of charged particles in circular geometry. Journal of Physics: Conference Series, 2019, 1194, 012079.	0.4	0
16	From Chaos to Order in Mesoscopic Systems. Physics of Particles and Nuclei Letters, 2019, 16, 159-169.	0.4	4
17	Interplay between electromagnetically induced transparency and Autler-Townes effect in fivelevel atomic systems. EPJ Web of Conferences, 2019, 204, 03013.	0.3	1
18	Spin transport in a rippled graphene periodic chain. Journal of Physics: Conference Series, 2019, 1416, 012035.	0.4	4

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19	Klein collimation by rippled graphene superlattice. Journal of Physics Condensed Matter, 2019, 31, 495301.	1.8	5
20	On Electron Scattering through a Single Corrugated Graphene Structure. Physics of Particles and Nuclei Letters, 2019, 16, 729-733.	0.4	4
21	DFT prediction of band gap in organic-inorganic metal halide perovskites: An exchange-correlation functional benchmark study. Chemical Physics, 2019, 516, 225-231.	1.9	62
22	Two-phonon structures for beta-decay theory. EPJ Web of Conferences, 2018, 194, 02008.	0.3	0
23	Damped transient response of the giant dipole resonance in the lead region. Physical Review C, 2018, 98, .	2.9	9
24	Reply to "Comment on "Spreading widths of giant resonances in spherical nuclei: Damped transient response" Physical Review C, 2018, 97, .	2.9	4
25	Self-organization of charged particles in circular geometry. Physical Review E, 2017, 95, 042603.	2.1	10
26	Reply to "Comment on "Thomson rings in a disk" Physical Review E, 2017, 95, 026602.	2.1	4
27	Spreading widths of giant resonances in spherical nuclei: Damped transient response. Physical Review C, 2017, 95, .	2.9	18
28	Von Neumann's quantization of general relativity. Physics of Atomic Nuclei, 2017, 80, 491-504.	0.4	0
29	On the efficiency limit of ZnO/CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> /CuI perovskite solar cells. Physical Chemistry Chemical Physics, 2017, 19, 19916-19921.	2.8	12
30	Study of Photovoltaics and Solar Thermal for Nearly Zero Energy Mediterranean Villas. , 2017, , .		0
31	100 years of general relativity: From equations to symmetry principles. , 2016, , .		0
32	Triplet absorption spectroscopy and electromagnetically induced transparency. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 175502.	1.5	9
33	Random matrix analysis of the monopole strength distribution in 208Pb. Physics of Atomic Nuclei, 2016, 79, 835-841.	0.4	7
34	Radiative breaking of conformal symmetry in the Standard Model. Europhysics Letters, 2016, 113, 31001.	2.0	5
35	Solar and Heat Pump Systems, Analysis of Several Cases in Russia. , 2016, , .		0
36	Magnetic alteration of entanglement in two-electron quantum dots. Physical Review A, 2015, 92, .	2.5	12

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37	Cooperative phenomenon in a rippled graphene: Chiral spin guide. <i>Physical Review B</i> , 2015, 92, .	3.2	12
38	Thomson rings in a disk. <i>Physical Review E</i> , 2015, 91, 032312.	2.1	12
39	Shape transitions in two-body systems in a magnetic field: a classical limit. <i>Physics of Atomic Nuclei</i> , 2014, 77, 362-369.	0.4	0
40	Spin-orbit effects in carbon nanotubes – Analytical results. <i>European Physical Journal B</i> , 2014, 87, 1.	1.5	12
41	Ground state configurations of charged particles in a disk at zero temperature. <i>Journal of Physics: Conference Series</i> , 2014, 563, 012007.	0.4	0
42	Entanglement as an indicator of a geometrical crossover in a two-electron quantum dot in a magnetic field. <i>JETP Letters</i> , 2013, 97, 199-204.	1.4	3
43	Effects of symmetry breaking in finite quantum systems. <i>Physics Reports</i> , 2013, 526, 1-91.	25.6	90
44	Geometrical crossover in two-body systems in a magnetic field. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 325304.	2.1	0
45	Shape transitions in excited states of two-electron quantum dots in a magnetic field. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 205503.	1.5	30
46	MAGNETO-ABSORPTION IN ELLIPSOIDAL QUANTUM DOT. <i>International Journal of Modern Physics Conference Series</i> , 2012, 15, 40-47.	0.7	3
47	Narrow optical band-pass filters and nanoplasmonics. <i>Journal of Physics: Conference Series</i> , 2012, 393, 012007.	0.4	1
48	A geometrical crossover in excited states of two-electron quantum dots in a magnetic field. <i>Journal of Physics: Conference Series</i> , 2012, 393, 012009.	0.4	3
49	Conformal and affine Hamiltonian dynamics of general relativity. <i>General Relativity and Gravitation</i> , 2012, 44, 2745-2783.	2.0	9
50	The general relativity with conformal units. <i>Physics of Particles and Nuclei</i> , 2012, 43, 682-688.	0.7	2
51	Applying a new method for analyzing experimental data on nuclear reactions at high energies. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2012, 76, 1089-1092.	0.6	0
52	Orbital entanglement in an exactly solvable two-electron quantum dot model. <i>Journal of Physics: Conference Series</i> , 2012, 343, 012023.	0.4	2
53	Effects of plasmonic resonances and transparency of nanoshells for optical filtering. <i>JETP Letters</i> , 2012, 95, 122-126.	1.4	2
54	Quantum entanglement in a two-electron quantum dot in magnetic field. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2012, 112, 319-322.	0.6	3

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55	Quantum nonequilibrium approach for fast electron transport in open systems: Photosynthetic reaction centers. <i>Physical Review E</i> , 2011, 84, 051912.	2.1	9
56	Universe as a representation of affine and conformal symmetries. <i>Physics of Particles and Nuclei Letters</i> , 2011, 8, 187-201.	0.4	1
57	Spectral singularities and zero energy bound states. <i>European Physical Journal D</i> , 2011, 63, 369-373.	1.3	6
58	An orbital entanglement in two-electron quantum dots in a magnetic field. <i>Journal of Physics: Conference Series</i> , 2010, 248, 012021.	0.4	1
59	Interaction effects in quantum dots in a vertical magnetic field. <i>Journal of Physics: Conference Series</i> , 2010, 248, 012017.	0.4	6
60	Resonance scattering and singularities of the scattering function. <i>European Physical Journal D</i> , 2010, 58, 53-56.	1.3	6
61	Conformal Hamiltonian dynamics of general relativity. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010, 691, 230-233.	4.1	14
62	Central nucleus-nucleus collisions at relativistic energies with a new method based on Random Matrix Theory. <i>Chinese Physics C</i> , 2010, 34, 1076-1081.	3.7	2
63	Time scales in nuclear giant resonances. <i>Physical Review C</i> , 2010, 81, .	2.9	8
64	Quantum phase transitions in rotating nuclei. , 2009, , .		0
65	Spin control in semiconductor quantum wires: Rashba and Dresselhaus interaction. <i>Physical Review B</i> , 2009, 79, .	3.2	12
66	Analysis of nucleus-nucleus collisions at high energies and random matrix theory. <i>Physical Review C</i> , 2009, 79, .	2.9	9
67	SYMMETRY BREAKING PHENOMENA IN MESOSCOPIC SYSTEMS: QUANTUM DOTS AND ROTATING NUCLEI. <i>International Journal of Modern Physics E</i> , 2009, 18, 1014-1021.	1.0	0
68	Magnetic field and symmetry effects in small quantum dots. <i>Physics of Particles and Nuclei</i> , 2009, 40, 71-92.	0.7	26
69	Entanglement control in coupled two-mode boson systems. <i>Physical Review A</i> , 2008, 78, .	2.5	13
70	Dynamical screening of the Coulomb interaction for two confined electrons in a magnetic field. <i>Physical Review A</i> , 2008, 78, .	2.5	18
71	Dimensionality effects in vertical two-electron quantum dots in a perpendicular magnetic field. <i>Journal of Physics: Conference Series</i> , 2008, 129, 012014.	0.4	0
72	Instabilities, nonhermiticity and exceptional points in the cranking model. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 9475-9481.	2.1	3

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73	Finite-thickness effects in ground-state transitions of two-electron quantum dots. Physical Review B, 2007, 76, .	3.2	22
74	Shell effects in nonlinear magnetotransport through small quantum dots. Physical Review B, 2007, 75, .	3.2	12
75	Wobbling excitations at high spins in $^{162}\text{Dy}$ and $^{162}\text{Yb}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 657, 159-164.	4.1	2
76	Reflection symmetry instability at high spins in $^{162}\text{Dy}$ and $^{162}\text{Yb}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 657, 159-164.	4.1	3
77	Microscopic analysis of wobbling excitations in $^{156}\text{Dy}$ and $^{162}\text{Yb}$ . Journal of Experimental and Theoretical Physics, 2007, 105, 962-981.	0.9	3
78	Octupole excitations at high spins in $A \approx 160$ nuclei. Physics of Atomic Nuclei, 2007, 70, 1386-1391.	0.4	1
79	Microscopic analysis of shape-phase transitions in even-even $N \approx 90$ rotating nuclei. Physical Review C, 2006, 73, .	2.9	11
80	Nonlinear transport at the strong intra-dot Coulomb interaction. Journal of Physics Condensed Matter, 2006, 18, L55-L61.	1.8	7
81	Vibrational excitations and tilted rotation in $^{163}\text{Lu}$ . Physica Scripta, 2006, T125, 139-141.	2.5	9
82	Quantum phase transitions and backbending in even-even $N \approx 90$ nuclei. JETP Letters, 2006, 83, 187-191.	1.4	2
83	Random matrix theory and analysis of nucleus-nucleus collision at high energies. Physics of Atomic Nuclei, 2006, 69, 142-146.	0.4	7
84	Model for spin-orbit effects in two-dimensional semiconductors in magnetic fields. Physical Review B, 2006, 73, .	3.2	24
85	COLLECTIVE MODES IN FAST ROTATING NUCLEI. , 2005, , .		0
86	Backbending and $\beta$ -vibrations. Physical Review C, 2004, 69, .	2.9	13
87	Roto-vibrational spectrum and Wigner crystallization in two-electron parabolic quantum dots. Physical Review B, 2004, 69, .	3.2	37
88	Collective excitations and a backbending phenomenon in $^{156}\text{Dy}$ . Physics of Atomic Nuclei, 2004, 67, 1650-1655.	0.4	1
89	Collective magnetic excitations and backbending in fast rotating nuclei. Physical Review C, 2004, 69, .	2.9	7
90	Symmetry breaking and the random-phase approximation in small quantum dots. Physical Review B, 2003, 68, .	3.2	27

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91	Hidden symmetries of two-electron quantum dots in a magnetic field. Physical Review B, 2003, 67, .	3.2	30
92	Quadrupole correlations and inertial properties of rotating nuclei. Journal of Physics G: Nuclear and Particle Physics, 2003, 29, 2193-2206.	3.6	6
93	SELF-CONSISTENT HARMONIC OSCILLATOR MODEL AND TILTED ROTATION. , 2003, , .		0
94	Conductance of open quantum billiards and classical trajectories. Physical Review B, 2002, 66, .	3.2	56
95	Statistical fluctuations of electromagnetic transition intensities and electromagnetic moments in pf-shell nuclei. Physical Review C, 2002, 65, .	2.9	24
96	Shot noise and transport in small quantum cavities with large openings. Physical Review B, 2002, 66, .	3.2	24
97	Self-consistent harmonic oscillator model and tilted rotation. Physical Review C, 2002, 65, .	2.9	17
98	Semiclassical analysis of a two-electron quantum dot in a magnetic field: Dimensional phenomena. Physical Review B, 2002, 65, .	3.2	48
99	Dynamical moment of inertia and quadrupole vibrations in rotating nuclei. Physical Review C, 2002, 65, .	2.9	16
100	Octupole deformations in actinides at high spins within the cranking Skyrme-Hartree-Fock approach. Journal of Physics G: Nuclear and Particle Physics, 2002, 28, 2187-2206.	3.6	23
101	Nonaxial octupole deformations in light $N=Z$ nuclei at high spins. Physical Review C, 2001, 63, .	2.9	13
102	Quantum correlations in rotating nuclei. Physics of Atomic Nuclei, 2001, 64, 1076-1080.	0.4	1
103	On the confinement potential formation in a two-electron quantum dot. Journal of Experimental and Theoretical Physics, 2001, 92, 1049-1059.	0.9	4
104	Signature inversion in axially deformed $^{160,162}\text{Tm}$ . Physical Review C, 2001, 63, .	2.9	7
105	Whispering gallery modes in open quantum billiards. Physical Review E, 2001, 64, 056214.	2.1	38
106	Particle Number Projection and Pairing-RPA Calculations in Rotating Nuclei. Physica Scripta, 2000, T88, 62.	2.5	7
107	Tilted rotation and wobbling motion in nuclei. JETP Letters, 2000, 72, 106-110.	1.4	7
108	The microscopic analysis of signature inversion in odd-odd nuclei. AIP Conference Proceedings, 2000, , .	0.4	0

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109	Nonaxial octupole deformations and shell phenomena. Physical Review C, 1999, 60, .	2.9	14
110	Integral Representation of the Random-Phase Approximation Correlation Energy. Physical Review Letters, 1999, 83, 280-283.	7.8	16
111	Triaxial octupole deformations and shell structure. JETP Letters, 1999, 69, 563-569.	1.4	4
112	Ground state spin oscillations of a two-electron quantum dot in a magnetic field. Journal of Physics Condensed Matter, 1999, 11, L83-L88.	1.8	24
113	Electromagnetic modes in deformed nuclei. European Physical Journal D, 1999, 49, 253-258.	0.4	0
114	On electromagnetic properties of rotating nuclei in crpa. European Physical Journal D, 1998, 48, 21-28.	0.4	3
115	Shell phenomena in mesoscopic systems: From nuclei to quantum dots. European Physical Journal D, 1998, 48, 853-857.	0.4	0
116	Orbital magnetism in small quantum dots with closed shells. JETP Letters, 1998, 68, 915-921.	1.4	10
117	Electronic shell structure of large metallic clusters in the modified harmonic oscillator. Physica D: Nonlinear Phenomena, 1998, 118, 134-150.	2.8	7
118	Representation of the three-dimensional rotation operator in the anisotropic Gaussian basis. Journal of Physics A, 1997, 30, 1253-1257.	1.6	0
119	Simple shell model for quantum dots in a tilted magnetic field. Physical Review B, 1997, 55, 16310-16317.	3.2	28
120	Two-electron quantum dot in a magnetic field: Analytical results. Physical Review B, 1997, 55, 13707-13714.	3.2	142
121	Minimal energy solutions in the three-dimensional rotating harmonic oscillator. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 397, 1-5.	4.1	7
122	Representation of three-dimensional rotations in oscillator basis sets. Nuclear Physics A, 1996, 596, 53-66.	1.5	12
123	Shell effects in quantum dots in tilted magnetic fields. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 222, 309-314.	2.1	17
124	Periodic orbits and shell structure in octupole deformed potentials. Physical Review B, 1995, 51, 1874-1884.	3.2	13
125	Regular and chaotic motion in axially deformed nuclei. Physical Review C, 1995, 52, 3032-3042.	2.9	26
126	Nuclear shell structure and chaotic dynamics in hexadecapole deformation. Physical Review C, 1995, 52, R1179-R1183.	2.9	7



#	ARTICLE	IF	CITATIONS
127	Shell structures and chaos in nuclei and large metallic clusters. <i>Physica Scripta</i> , 1995, T56, 182-191.	2.5	3
128	Solution of the cranked harmonic oscillator model at non-zero temperatures. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1995, 21, 1205-1216.	3.6	4
129	VARIATIONAL DESCRIPTION OF THE ROTATING NUCLEI. <i>International Journal of Modern Physics E</i> , 1994, 03, 183-193.	1.0	0
130	Classical Analysis of Phenomenological Potentials for Metallic Clusters. <i>Physical Review Letters</i> , 1994, 73, 1235-1238.	7.8	19
131	Chaos in axially symmetric potentials with octupole deformation. <i>Physical Review Letters</i> , 1994, 72, 2351-2354.	7.8	50
132	Cranking anharmonic gamma vibrations. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993, 300, 199-204.	4.1	20
133	Quadrupole splitting of octupole vibrational states. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992, 289, 238-244.	4.1	21
134	Quantum fluctuation and statistical properties of a two-mode boson system. <i>Journal of the European Optical Society Part B: Quantum Optics</i> , 1991, 3, 1-6.	1.2	8
135	Interplay between symmetries and residual interactions in rotating nuclei. <i>European Physical Journal D</i> , 1990, 40, 864-874.	0.4	1
136	A simple model of a rapidly rotating hot nucleus. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990, 238, 131-136.	4.1	1
137	TIME EVOLUTION OF VARIANCES OF QUADRATURE OPERATORS IN A TWO-MODE BOSON SYSTEM. <i>International Journal of Modern Physics B</i> , 1990, 04, 2335-2343.	2.0	6
138	On octupole alignment in actinides. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1987, 188, 171-176.	4.1	16
139	Statistical model of coexisting multiquark clusters. <i>Nuclear Physics A</i> , 1986, 449, 660-672.	1.5	10
140	Microscopic description of collective states near the yrast line of nuclei with stable octupole deformation. <i>Nuclear Physics A</i> , 1985, 439, 86-116.	1.5	6
141	p-Polarized Nonlinear Surface Waves in Symmetric Layered Structures. <i>Physica Scripta</i> , 1984, 29, 269-275.	2.5	45
142	The microscopic description of the isovector dipole excitations at high spins. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1983, 121, 15-20.	4.1	20
143	The shape of the heated fast-rotating nuclei. <i>Nuclear Physics A</i> , 1980, 346, 191-215.	1.5	60
144	Strength-function algorithm for stationary problems. <i>Theoretical and Mathematical Physics (Russian)</i> Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.9	2

#	ARTICLE	IF	CITATIONS
145	Inertial parameters of nuclear rotation in microscopic theory. Soviet Physics Journal (English) Tj ETQq1 1 0.784314 ggBT /Overlock 10	0.50	10
146	Calculations of low-lying collective excitation energies in $^{168}\text{Yb}$ at high angular momenta. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1978, 79, 347-350.	4.1	6
147	Two-phase model of rotating nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1978, 73, 271-273.	4.1	3
148	Equilibrium properties of fast-rotating headed nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1978, 76, 543-546.	4.1	18