

Roelof Bijker

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

153
papers

3,306
citations

33
h-index

54
g-index

188
ext. papers

3,642
ext. citations

2.3
avg, IF

5.26
L-index

#	Paper	IF	Citations
153	Cluster structure of ^{21}Ne and ^{21}Na . <i>Nuclear Physics A</i> , 2021 , 1010, 122193	1.3	0
152	Cluster structure of ^{20}Ne : Evidence for D _{3h} symmetry. <i>Nuclear Physics A</i> , 2021 , 1006, 122077	1.3	1
151	Triangular symmetry in cluster nuclei. <i>Journal of Physics: Conference Series</i> , 2020 , 1643, 012113	0.3	
150	Recent results on heavy-ion induced reactions of interest for neutrinoless double beta decay at INFN-LNS. <i>Journal of Physics: Conference Series</i> , 2020 , 1643, 012074	0.3	0
149	Cluster structure of light nuclei. <i>Progress in Particle and Nuclear Physics</i> , 2020 , 110, 103735	10.6	11
148	Recent results on heavy-ion direct reactions of interest for 0^+_{gs} decay at INFN - LNS. <i>Journal of Physics: Conference Series</i> , 2020 , 1610, 012004	0.3	
147	Discrete symmetries in the cluster shell model. <i>European Physical Journal: Special Topics</i> , 2020 , 229, 2353-2366	2.3	1
146	Evidence for Triangular D _{3h} Symmetry in ^{13}C . <i>Physical Review Letters</i> , 2019 , 122, 162501	7.4	9
145	Hidden charm pentaquarks: mass spectrum, magnetic moments and photocouplings. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2019 , 46, 065104	2.9	12
144	Recent results on Heavy-Ion induced reactions of interest for 0^+_{gs} decay. <i>Journal of Physics: Conference Series</i> , 2019 , 1308, 012002	0.3	
143	Odd-mass nuclei in the cluster shell model. <i>Journal of Physics: Conference Series</i> , 2019 , 1308, 012005	0.3	1
142	Electromagnetic couplings of pentaquarks. <i>Journal of Physics: Conference Series</i> , 2019 , 1308, 012015	0.3	
141	The NUMEN project @ LNS: Status and perspectives 2019 ,		1
140	Recent results on heavy-ion induced reactions of interest for neutrinoless double beta decay at INFN-LNS. <i>EPJ Web of Conferences</i> , 2019 , 223, 01009	0.3	
139	The (\varOmega_c)-puzzle solved by means of quark model predictions. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	12
138	The NUMEN project: NUClear Matrix Elements for Neutrinoless double beta decay. <i>European Physical Journal A</i> , 2018 , 54, 1	2.5	92
137	Splitting of single-particle levels in clusters potentials. <i>Journal of Physics: Conference Series</i> , 2018 , 1078, 012019	0.3	

136	Measuring nuclear reaction cross sections to extract information on neutrinoless double beta decay. <i>Journal of Physics: Conference Series</i> , 2018 , 966, 012021	0.3	0
135	Electromagnetic and weak decays of baryons in the unquenched quark model. <i>Journal of Physics: Conference Series</i> , 2018 , 1078, 012005	0.3	
134	Single-particle levels in cluster potentials. <i>Nuclear Physics A</i> , 2017 , 966, 158-184	1.3	20
133	Global Correlations for Low-Lying Collective 2+ States. <i>Journal of Physics: Conference Series</i> , 2017 , 876, 012019	0.3	
132	Pentaquark states with hidden charm. <i>Journal of Physics: Conference Series</i> , 2017 , 876, 012004	0.3	1
131	Contribution of sea quarks to the electromagnetic decay of decuplet baryons. <i>Journal of Physics: Conference Series</i> , 2017 , 912, 012027	0.3	
130	Electromagnetic transitions in the algebraic cluster model. <i>Physica Scripta</i> , 2017 , 92, 124001	2.6	3
129	Self-energies of octet and decuplet baryons due to the coupling to the baryon-meson continuum. <i>European Physical Journal A</i> , 2017 , 53, 1	2.5	13
128	The algebraic cluster model: Structure of ^{16}O . <i>Nuclear Physics A</i> , 2017 , 957, 154-176	1.3	36
127	The NUMEN project @ LNS: Status and perspectives 2017 ,		1
126	Geometric symmetries in light nuclei. <i>Journal of Physics: Conference Series</i> , 2017 , 863, 012009	0.3	
125	Strong decays of baryons and missing resonances. <i>Physical Review D</i> , 2016 , 94,	4.9	24
124	The nuclear matrix elements of $0\nu\beta\beta$ decay and the NUMEN project at INFN-LNS. <i>Journal of Physics: Conference Series</i> , 2016 , 730, 012006	0.3	1
123	Open Flavor Strong Decays. <i>Few-Body Systems</i> , 2016 , 57, 985-991	1.6	3
122	Hadron Spectroscopy in the Unquenched Quark Model 2016 ,		1
121	Strangeness suppression in the unquenched quark model. <i>Journal of Physics: Conference Series</i> , 2016 , 730, 012005	0.3	
120	Geometrical symmetries of nuclear systems: \mathcal{D}_{3h} and \mathcal{T}_d symmetries in light nuclei. <i>Physica Scripta</i> , 2016 , 91, 073005	2.6	9
119	The nuclear matrix elements of $0\nu\beta\beta$ decay and the NUMEN project at INFN-LNS. <i>EPJ Web of Conferences</i> , 2016 , 117, 10003	0.3	1

118	Electroproduction of baryon resonance states and strangeness suppression. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 759, 214-217	4.2	12
117	Form factors in the algebraic cluster model. <i>Physica Scripta</i> , 2015 , 90, 074006	2.6	3
116	The unquenched quark model. <i>Journal of Physics: Conference Series</i> , 2015 , 639, 012013	0.3	1
115	Valence and sea quarks in the nucleon. <i>Journal of Physics: Conference Series</i> , 2015 , 578, 012015	0.3	1
114	The structure of rotational bands in alpha-cluster nuclei. <i>EPJ Web of Conferences</i> , 2015 , 93, 01011	0.3	1
113	Evidence for tetrahedral symmetry in $(16)\text{O}$. <i>Physical Review Letters</i> , 2014 , 112, 152501	7.4	82
112	Evidence for triangular D_{3h} symmetry in 12C . <i>Physical Review Letters</i> , 2014 , 113, 012502	7.4	143
111	Algebraic treatment of alpha-cluster nuclei. <i>Journal of Physics: Conference Series</i> , 2014 , 492, 012009	0.3	0
110	Discrete and continuous symmetries in α -cluster nuclei. <i>Journal of Physics: Conference Series</i> , 2014 , 512, 012007	0.3	1
109	The Rotation-Vibration Structure of 12C . <i>Journal of Physics: Conference Series</i> , 2014 , 569, 012011	0.3	1
108	Recent Results for the Unquenched Quark Model. <i>Few-Body Systems</i> , 2013 , 54, 761-767	1.6	1
107	ss-sea pair contribution to electromagnetic observables of the proton in the unquenched quark model. <i>Physical Review C</i> , 2012 , 85,	2.7	45
106	Spectrum generating algebras for few-body systems. <i>Journal of Physics: Conference Series</i> , 2012 , 380, 012003	0.3	12
105	Configuration mixing in the quark model. <i>Journal of Physics: Conference Series</i> , 2012 , 403, 012039	0.3	
104	Strangeness of the proton. <i>Journal of Physics: Conference Series</i> , 2012 , 387, 012011	0.3	
103	Spin and flavor content of octet baryons. <i>Journal of Physics: Conference Series</i> , 2011 , 322, 012014	0.3	2
102	Correlations between transfer reactions in nuclear supersymmetry. <i>Journal of Physics: Conference Series</i> , 2011 , 284, 012013	0.3	
101	Unquenching the Quark Model. <i>Few-Body Systems</i> , 2011 , 50, 199-201	1.6	7

100	On prolate shape predominance in nuclear deformation. <i>Journal of Physics: Conference Series</i> , 2011 , 322, 012018	0.3	8
99	Flavor asymmetry of sea quarks in the unquenched quark model. <i>Physical Review C</i> , 2010 , 82,	2.7	49
98	Supersymmetry in nuclear physics. <i>Journal of Physics: Conference Series</i> , 2010 , 237, 012005	0.3	2
97	Algebraic cluster model with tetrahedral symmetry 2010 ,		15
96	Structure of the nucleon in the unquenched quark model. <i>Journal of Physics: Conference Series</i> , 2010 , 239, 012009	0.3	1
95	Eigenvalue correlations and the distribution of ground state angular momenta for random many-body quantum systems. <i>Physical Review C</i> , 2009 , 79,	2.7	2
94	New supersymmetric quartet of nuclei in the A~190 mass region. <i>Physical Review C</i> , 2009 , 79,	2.7	3
93	Unquenched quark model for baryons: Magnetic moments, spins, and orbital angular momenta. <i>Physical Review C</i> , 2009 , 80,	2.7	58
92	Two-component model for the axial form factor of the nucleon. <i>Physical Review C</i> , 2008 , 78,	2.7	16
91	Transfer and neutron capture reactions to Ir194 as a test of $U(6/12)?U(6/4)$ supersymmetry. <i>Physical Review C</i> , 2008 , 77,	2.7	9
90	Quark-antiquark effects in baryons. <i>Few-Body Systems</i> , 2008 , 44, 95-97	1.6	25
89	Flavor asymmetry of the nucleon sea in an unquenched quark model 2008 , 166-168		
88	Recent developments in the constituent quark model including quark-antiquark pairs 2008 , 35-39		
87	Flavor content of nucleon form factors in the space- and time-like region. <i>Nuclear Physics A</i> , 2007 , 790, 136c-142c	1.3	1
86	Flavor content of nucleon form factors in a VMD approach. <i>European Physical Journal A</i> , 2007 , 32, 403-407.5		1
85	An Unquenched Quark Model of Baryons. <i>AIP Conference Proceedings</i> , 2007 ,	0	4
84	Prediction of sand wave migration with a non-linear spectral model 2007 , 977-983		
83	Strange form factors of the proton in a two-component model. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2006 , 32, L49-L57	2.9	16

82	Two-nucleon transfer reactions uphold supersymmetry in atomic nuclei. <i>Physical Review Letters</i> , 2005 , 94, 152501	7.4	12
81	B(E2) upward arrow measurements for radioactive neutron-rich ge isotopes: reaching the N=50 closed shell. <i>Physical Review Letters</i> , 2005 , 94, 122501	7.4	62
80	Low-spin γ spectroscopy of the (critical-point?) nucleus Ba122. <i>Physical Review C</i> , 2004 , 69,	2.7	16
79	Reanalysis of the nucleon spacelike and timelike electromagnetic form factors in a two-component model. <i>Physical Review C</i> , 2004 , 69,	2.7	72
78	A new look at nuclear supersymmetry through transfer experiments. <i>Journal of Physics A</i> , 2004 , 37, 10251-10260		
77	Spectroscopy of pentaquark states. <i>European Physical Journal A</i> , 2004 , 22, 319-329	2.5	34
76	Magnetic moments of antidecuplet pentaquarks. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004 , 595, 260-268	4.2	22
75	Test of X(5) for the \mathbb{Z} degree of freedom. <i>Physical Review C</i> , 2003 , 68,	2.7	63
74	The Algebraic Cluster Model: Three-Body Clusters. <i>Annals of Physics</i> , 2002 , 298, 334-360	2.5	78
73	Regular spectra from random interactions. <i>European Physical Journal D</i> , 2002 , 52, C643-C648		0
72	Generic rotation in a collective SD nucleon-pair subspace. <i>Physical Review C</i> , 2002 , 66,	2.7	20
71	Regular spectra in the vibron model with random interactions. <i>Physical Review C</i> , 2002 , 65,	2.7	22
70	XXV symposium on nuclear physics. <i>Nuclear Physics News</i> , 2002 , 12, 14-14	0.7	
69	Playing Dice with Nuclei: Pattern out of Randomness?. <i>Nuclear Physics News</i> , 2001 , 11, 15-20	0.7	5
68	Mean-field analysis of interacting boson models with random interactions. <i>Physical Review C</i> , 2001 , 64,	2.7	29
67	Single-particle transfer and nuclear supersymmetry. <i>Physical Review C</i> , 2001 , 64,	2.7	9
66	Comment on "Two-Body Random Ensembles: From Nuclear Spectra to Random Polynomials" <i>Physical Review Letters</i> , 2001 , 87,	7.4	12
65	A Geometric and an Algebraic Model for Tri-Nuclear Molecules. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 2001 , 13, 89-92		2

64	2001,		135
63	Algebraic Models of Hadron Structure. <i>Annals of Physics</i> , 2000 , 284, 89-133	2.5	99
62	Cluster states in nuclei as representations of a $U(\mathbb{H}1)$ group. <i>Physical Review C</i> , 2000 , 61,	2.7	78
61	Band structure from random interactions. <i>Physical Review Letters</i> , 2000 , 84, 420-2	7.4	74
60	Collective states in nuclei and many-body random interactions. <i>Physical Review C</i> , 2000 , 62,	2.7	42
59	Sensitivity of tensor analyzing power in the process $d+p \rightarrow d+X$ to the longitudinal isoscalar form factor of the Roper resonance electroexcitation. <i>Physical Review C</i> , 1999 , 59, 1526-1533	2.7	10
58	Dominance of $JP=0+$ ground states in even-even nuclei from random two-body interactions. <i>Physical Review C</i> , 1999 , 60,	2.7	55
57	On the Elimination of Spurious Modes in Algebraic Models of Molecular Vibrations. <i>Journal of Molecular Spectroscopy</i> , 1999 , 196, 329-334	1.3	15
56	A symmetry adapted approach to vibrational excitations in atomic clusters. <i>European Physical Journal D</i> , 1998 , 48, 782-788		
55	Spectrum generating algebra of the symmetric top. <i>Nuclear Physics A</i> , 1998 , 631, 727-731	1.3	1
54	Algebraic Treatment of Three-Body Problems. <i>Few-Body Systems</i> , 1998 , 25, 89-100	1.6	10
53	Algebraic treatment of the hyper-Coulomb problem. <i>Journal of Physics A</i> , 1998 , 31, 9041-9054		25
52	A Comparison Between Algebraic Models of Molecular Spectroscopy 1998 , 37-46		1
51	Strong decays of nonstrange q^3 baryons. <i>Physical Review D</i> , 1997 , 55, 2862-2873	4.9	43
50	Transition from the seniority to the anharmonic vibrator regime in nuclei. <i>Physical Review C</i> , 1997 , 55, R585-R587	2.7	1
49	Algebraic Model of an Oblate Top 1997 , 9-24		1
48	Comment on Boson-realization model for the vibrational spectra of tetrahedral molecules \square <i>Physical Review A</i> , 1997 , 56, 4337-4340	2.6	5
47	Symmetry-Adapted Algebraic Description of Stretching and Bending Vibrations of Ozone. <i>Journal of Molecular Spectroscopy</i> , 1997 , 184, 1-11	1.3	36

46	Algebraic Approach to Baryon Structure 1997 , 193-210		
45	A Symmetry Adapted Algebraic Approach to Molecular Spectroscopy 1997 , 99-115		1
44	On the relation between algebraic and configuration space calculations of molecular vibrations. <i>Chemical Physics Letters</i> , 1996 , 258, 301-306	2.5	23
43	A General Algebraic Model for Molecular Vibrational Spectroscopy. <i>Annals of Physics</i> , 1996 , 252, 211-238	2.5	72
42	Electromagnetic form factors in a collective model of the nucleon. <i>Physical Review C</i> , 1996 , 54, 1935-1953	3.7	41
41	Transformation brackets between $U(\mathfrak{su}(1)) \otimes U(\mathfrak{su}(2)) \otimes SO(3)$ and $U(\mathfrak{su}(1)) \otimes SO(\mathfrak{su}(1)) \otimes SO(3)$ <i>Journal of Mathematical Physics</i> , 1996 , 37, 2674-2681	1.2	14
40	Spectrum-generating algebra for X3 molecules. <i>Physical Review A</i> , 1995 , 52, 2786-2790	2.6	33
39	Algebraic-eikonal approach to medium energy proton scattering from odd-mass nuclei. <i>Physical Review C</i> , 1995 , 52, 831-836	2.7	1
38	Spin-rotor interpretation of identical bands and quantized alignment in superdeformed A. <i>Physical Review C</i> , 1995 , 52, 1307-1314	2.7	8
37	Algebraic Models of Hadron Structure. I. Nonstrange Baryons. <i>Annals of Physics</i> , 1994 , 236, 69-116	2.5	256
36	Algebraic Treatment of Collective Excitations in Baryon Spectroscopy 1994 , 87-101		16
35	Vibrational excitation of molecules in electron scattering. <i>Physical Review A</i> , 1992 , 46, 1388-1393	2.6	5
34	Eikonal scattering from complex systems. <i>Physical Review C</i> , 1992 , 45, 3030-3033	2.7	5
33	Iterative boson expansions and mean-field approximations for boson systems. <i>Nuclear Physics A</i> , 1992 , 537, 13-44	1.3	1
32	Mean-field approximations for deformed odd-mass nuclei. <i>Nuclear Physics A</i> , 1992 , 543, 469-494	1.3	
31	Supersymmetric quantum mechanics and superdeformed nuclei. <i>Physical Review Letters</i> , 1991 , 67, 2777-2779	2.7	28
30	Algebraic Treatment of Multistep Processes in Electron-Molecule Scattering 1991 , 15-29		1
29	Hybrid approach to electron scattering from polar molecules. <i>Physical Review A</i> , 1990 , 42, 6414-6422	2.6	8

28	Boson expansions for systems of interacting bosons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1989 , 219, 5-9	4.2	13
27	Interacting Boson-Fermion model of collective states IV. The SU(3) ? U(2) limit. <i>Annals of Physics</i> , 1988 , 187, 148-197	2.5	49
26	Dynamic symmetries in deformed odd-even nuclei. <i>Physical Review C</i> , 1988 , 37, 2149-2155	2.7	6
25	Algebraic-eikonal approach to electron-molecule scattering. III. Triatomic molecules. <i>Physical Review A</i> , 1988 , 37, 1425-1437	2.6	15
24	Algebraic approach to the two-Skyrmion system. <i>Physical Review C</i> , 1987 , 36, 1727-1736	2.7	10
23	Algebraic description of the skyrmion and its quantization for finite N. <i>Physical Review Letters</i> , 1987 , 58, 654-657	7.4	20
22	Algebraic-eikonal approach to electron-molecule scattering: Diatomic molecules. <i>Physical Review A</i> , 1986 , 33, 871-881	2.6	38
21	Algebraic-eikonal approach to electron-molecule scattering. II. Rotational and vibrational excitation of LiF and KI. <i>Physical Review A</i> , 1986 , 34, 71-79	2.6	30
20	Description of the odd-even xenon and cesium isotopes in the proton-neutron interacting boson-fermion model. <i>Nuclear Physics A</i> , 1985 , 445, 333-349	1.3	43
19	Excitation of hexadecapole transitions in ¹⁹⁶ Pt via electron scattering and their interpretation in the interacting boson approximation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1985 , 152, 330-334	4.2	16
18	Interacting Boson-Fermion model of collective states III. The SO(6) ? U(2) limit. <i>Annals of Physics</i> , 1985 , 161, 360-398	2.5	46
17	U(5) x SU(2) limits of the interacting boson fermion model, their associated supersymmetries, and their application to ⁷⁶ Se and ⁷⁵ As. <i>Physical Review C</i> , 1985 , 32, 1406-1415	2.7	18
16	Excitation energy of the collective M1 mode in the classical limit of the neutron-proton interacting boson model. <i>Physical Review C</i> , 1985 , 32, 1442-1444	2.7	12
15	Relation between the interacting boson-fermion approximation model and dynamical boson-fermion symmetries. <i>Physical Review C</i> , 1985 , 32, 591-601	2.7	23
14	Breaking of the multi-j supersymmetry schemes in the Pt ¹⁹⁵ (d,p)Pt ¹⁹⁶ reaction. <i>Physical Review C</i> , 1984 , 30, 517-520	2.7	10
13	A calculation of low-lying collective states in odd-even nuclei. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1984 , 144, 141-144	4.2	40
12	Interacting boson-fermion model of collective states II. Boson-fermion symmetries connected with the U(5) limit. <i>Annals of Physics</i> , 1984 , 156, 110-141	2.5	39
11	Study of ⁹⁶ , ⁹⁸ , ¹⁰⁰ Mo with the Ru(d, ⁶ Li) Mo reaction at Ed = 45 MeV. <i>Nuclear Physics A</i> , 1984 , 422, 61-803		19

10	New class of supersymmetry in nuclei. <i>Physical Review C</i> , 1983 , 27, 1761-1764	2.7	78
9	Further tests of the multi-j supersymmetry scheme using transfer reactions. <i>Physical Review C</i> , 1983 , 28, 360-363	2.7	32
8	Properties of the intrinsic matrix elements of the interacting-boson-approximation E2 operator in the rotational limit. <i>Physical Review C</i> , 1982 , 26, 2688-2689	2.7	27
7	On triaxial features in the neutron-proton IBA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1982 , 116, 77-81	4.2	86
6	Description of odd-A nuclei in the Pt region in the interacting boson-fermion model. <i>Nuclear Physics A</i> , 1982 , 379, 221-238	1.3	45
5	Study of the $^{193}\text{Ir}(3\text{He}, d)^{194}\text{Pt}$ and $^{193}\text{Ir}(d, 3\text{He})^{192}\text{Os}$ reactions: Test of a supersymmetric coupling scheme. <i>Nuclear Physics A</i> , 1982 , 388, 77-92	1.3	24
4	Rotational bands in ^{152}Sm observed following the $(\alpha, 2n)$ reaction. <i>Nuclear Physics A</i> , 1982 , 373, 397-433	1.3	25
3	Description of the Pt and Os isotopes in the interacting boson model. <i>Nuclear Physics A</i> , 1980 , 344, 207-233		146
2	Electromagnetic form factors of the nucleon 81-90		
1	An Introduction to Nuclear Supersymmetry: A Unification Scheme for Nuclei. <i>Lecture Notes in Physics</i> , 285-324	0.8	1