

# Stancu Floarea

## 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.

100  
papers

1,781  
citations

21  
h-index

38  
g-index

114  
ext. papers

1,881  
ext. citations

3.8  
avg. IF

4.95  
L-index

#	Paper	IF	Citations
100	Relations between strong decay widths of the Pc pentaquarks in the SU(4) flavor-spin model. <i>Physical Review D</i> , <b>2021</b> , 104,	4.9	1
99	Exploring the spectrum of the hidden charm strange pentaquark in the SU(4) version of the flavor-spin model. <i>Physical Review D</i> , <b>2020</b> , 101,	4.9	6
98	Spectrum of the (uudc $\bar{c}$ ) hidden charm pentaquark with an SU(4) flavor-spin hyperfine interaction. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	10
97	Skyrme density functional description of the double magic Ni78 nucleus. <i>Physical Review C</i> , <b>2018</b> , 97,	2.7	5
96	Stability of pentaquarks with a two- plus three-body chromoelectric interaction. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	1
95	X(5568) as a $\{s\}\bar{d}\bar{b}$ tetraquark in a simple quark model. <i>Journal of Physics G: Nuclear and Particle Physics</i> , <b>2016</b> , 43, 105001	2.9	24
94	Updated $1/N_c$ expansion analysis of $[56, 2^+]$ and $[70, \frac{1}{2}^-]$ baryon multiplets. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	3
93	SU(3) Clebsch-Gordan coefficients at large N c. <i>Nuclear Physics A</i> , <b>2016</b> , 945, 144-152	1.3	1
92	Baryon resonances in large Nc QCD. <i>Reviews of Modern Physics</i> , <b>2015</b> , 87, 211-245	40.5	10
91	$[70, \frac{1}{2}^-]$ baryons in large Nc QCD revisited: The effect on Regge trajectories. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	3
90	Negative parity baryons in the $1/N_c$ expansion: The three towers of states revisited. <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	4
89	Highly excited negative parity baryons in the $1/N_c$ expansion. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	7
88	SU(6) $[70, 1^-]$ baryon multiplet in the $1/N_c$ expansion. <i>Physical Review D</i> , <b>2011</b> , 83,	4.9	8
87	Negative parity baryons in the $1/N_c$ expansion: The quark excitation versus the meson-nucleon resonance picture. <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	6
86	Can Y(4140) be a $c\bar{c}s\bar{s}$ tetraquark?. <i>Journal of Physics G: Nuclear and Particle Physics</i> , <b>2010</b> , 37, 075017	2.9	59
85	Group theoretical study of nonstrange and strange mixed symmetric baryon states $[N_c \bar{1}, 1]$ in the $1/N_c$ expansion. <i>Physical Review D</i> , <b>2010</b> , 81,	4.9	1
84	Matrix elements of SU(6) generators for baryons with arbitrary Nc quarks in mixed symmetric states $[N_c \bar{1}, 1]$ . <i>Nuclear Physics A</i> , <b>2009</b> , 826, 161-177	1.3	9

83	Wave function of $[70, 1^2]$ baryons in the $1/N_c$ expansion. <i>Physical Review D</i> , <b>2008</b> , 77,	4.9	8
82	The Charge Conjugation Quantum Number in Multiquark Systems. <i>AIP Conference Proceedings</i> , <b>2008</b> ,	0	6
81	Large $N_c$ QCD versus the quark model. <i>Few-Body Systems</i> , <b>2008</b> , 44, 103-106	1.6	
80	A new look at the $[70, 1^2]$ baryon multiplet in the $1/N_c$ expansion. <i>Nuclear Physics A</i> , <b>2008</b> , 811, 291-305	1.3	12
79	Mass formula for strange baryons in large $N_c$ QCD versus quark model. <i>Physical Review D</i> , <b>2007</b> , 76,	4.9	11
78	Excited $[70, ]$ baryon resonances in large QCD. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , <b>2007</b> , 174, 155-158		
77	Evolution of nuclear shells with the Skyrme density dependent interaction. <i>Physical Review C</i> , <b>2007</b> , 75,	2.7	99
76	Matrix elements of $SU(6)$ generators for baryons at arbitrary $N_c$ . <i>Physical Review D</i> , <b>2006</b> , 73,	4.9	17
75	Masses of $[70, \square]$ baryons in the $1/N_c$ expansion. <i>Physical Review D</i> , <b>2006</b> , 74,	4.9	36
74	$[56, 4^+]$ baryons in the $1/N_c$ expansion. <i>Physical Review D</i> , <b>2005</b> , 71,	4.9	46
73	Excited $[70, \square]$ baryons in large $N_c$ QCD. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2005</b> , 631, 7-15	4.2	28
72	Dynamics of pentaquarks in constituent quark models: recent developments. <i>AIP Conference Proceedings</i> , <b>2005</b> ,	0	4
71	STRUCTURE OF LIGHT AND HEAVY PENTAQUARKS. <i>International Journal of Modern Physics A</i> , <b>2005</b> , 20, 1797-1802	1.2	2
70	Dynamical study of the pentaquark antidecuplet. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2004</b> , 595, 269-276	4.2	20
69	Stable uudds pentaquarks in the constituent quark model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2003</b> , 575, 242-248	4.2	97
68	Three-body confinement force in a realistic constituent quark model. <i>Nuclear Physics A</i> , <b>2003</b> , 726, 327-338		2
67	Phase shift effective range expansion from supersymmetric quantum mechanics. <i>Physical Review C</i> , <b>2003</b> , 67,	2.7	16
66	The Nucleon-Nucleon Problem in Quark Models. <i>Few-Body Systems</i> , <b>2003</b> , 83-88		2

65	Nucleon-nucleon interaction in a chiral constituent quark model. <i>Nuclear Physics A</i> , <b>2002</b> , 699, 316-319	1.3	3
64	Three-body confinement force in hadron spectroscopy. <i>Physical Review D</i> , <b>2002</b> , 65,	4.9	15
63	Phase equivalent chains of Darboux transformations in scattering theory. <i>Physical Review C</i> , <b>2002</b> , 66,	2.7	20
62	The short-range baryon-baryon interaction in a chiral constituent quark model. <i>Nuclear Physics A</i> , <b>2001</b> , 683, 359-368	1.3	3
61	NN scattering phase shifts in a chiral constituent quark model. <i>Nuclear Physics A</i> , <b>2001</b> , 688, 915-927	1.3	3
60	On the exact solutions of the Lipkin-Meshkov-Glick model. <i>Journal of Physics A</i> , <b>2001</b> , 34, 3265-3276		5
59	Nucleon-nucleon scattering in a chiral constituent quark model. <i>Physical Review C</i> , <b>2001</b> , 63,	2.7	20
58	On an analogue of the spin-orbit coupling. <i>Journal of Physics A</i> , <b>2000</b> , 33, 5693-5706		
57	On the scalar meson exchange in the baryon spectra. <i>Journal of Physics G: Nuclear and Particle Physics</i> , <b>2000</b> , 26, 397-403	2.9	6
56	Important configurations for NN processes in a Goldstone boson exchange model. <i>Physical Review C</i> , <b>1999</b> , 59, 1756-1761	2.7	7
55	NN interaction in a Goldstone boson exchange model. <i>Physical Review C</i> , <b>1999</b> , 60,	2.7	10
54	Isoscalar Factors of the Permutation Group. <i>Few-Body Systems</i> , <b>1999</b> , 26, 113-133	1.6	20
53	Multiquark States in a Goldstone Boson Exchange Model. <i>Few-Body Systems</i> , <b>1999</b> , 33-36		2
52	Heavy-flavour pentaquarks in a chiral constituent quark model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1998</b> , 425, 171-176	4.2	45
51	Tetraquarks with heavy flavors. <i>Physical Review D</i> , <b>1998</b> , 57, 6778-6787	4.9	78
50	Heavy hexaquarks in a chiral constituent quark model. <i>Physical Review D</i> , <b>1998</b> , 57, 4475-4478	4.9	4
49	Positive parity pentaquarks in a Goldstone boson exchange model. <i>Physical Review D</i> , <b>1998</b> , 58,	4.9	47
48	How the $\Xi$ particle unravels the quark dynamics. <i>Physical Review D</i> , <b>1998</b> , 57, 4393-4396	4.9	15

47	Quark substructure approach to 4He charge distribution. <i>Physical Review C</i> , <b>1997</b> , 56, 486-490	2.7	
46	Nucleon-nucleon interaction in a chiral constituent quark model. <i>Physical Review C</i> , <b>1997</b> , 56, 2779-2788	2.7	62
45	Positive parity nonstrange baryons beyond 2 GeV. <i>Zeitschrift für Physik A</i> , <b>1997</b> , 359, 321-325		10
44	Tetraquarks with colour-blind forces in chiral quark models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1997</b> , 393, 119-123	4.2	61
43	Nucleon-nucleon interaction in the chromodielectric soliton model: Dynamics. <i>Physical Review C</i> , <b>1996</b> , 53, 1368-1373	2.7	6
42	Decay of baryons in a flux-tube-breaking mechanism. <i>Zeitschrift für Physik A</i> , <b>1995</b> , 351, 77-82		5
41	Role of hidden color states in 2q-2q-bar systems. <i>Physical Review D</i> , <b>1994</b> , 49, 4665-4674	4.9	26
40	The nucleon-nucleon potential in the chromodielectric soliton model: Statics. <i>Physical Review C</i> , <b>1994</b> , 50, 614-626	2.7	16
39	N+ omega decay of baryons in a flux-tube-breaking mechanism. <i>Physical Review D</i> , <b>1993</b> , 47, 2140-2142	4.9	10
38	Negative parity non-strange baryons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1991</b> , 269, 243-246	4.2	15
37	Improved description of the Roper resonance in a constituent quark model. <i>Physical Review D</i> , <b>1990</b> , 41, 916-919	4.9	23
36	N+ rho decay of baryons in a flux-tube-breaking mechanism. <i>Physical Review D</i> , <b>1990</b> , 42, 1521-1526	4.9	14
35	Role of the pion size and flux-tube extension in a baryon-decay model. <i>Physical Review D</i> , <b>1989</b> , 39, 343-346	4.9	28
34	Unitary transformation from color-spin to isospin-spin coupling schemes for six-quark color singlet states. <i>Physical Review C</i> , <b>1989</b> , 39, 2030-2035	2.7	3
33	Important configurations in six-quark N-N states. II. Current quark model. <i>Physical Review C</i> , <b>1989</b> , 40, 1901-1904	2.7	3
32	Construction of six-quark states from parity eigenfunctions for N-N processes. <i>Progress in Particle and Nuclear Physics</i> , <b>1988</b> , 20, 175-179	10.6	
31	Pion decay of baryons in a flux-tube quark model. <i>Physical Review D</i> , <b>1988</b> , 38, 233-237	4.9	31
30	Important configurations in six-quark N-N states. <i>Physical Review C</i> , <b>1988</b> , 38, 1145-1152	2.7	9

29	Classification and construction of six-quark basis states from parity eigenfunctions for N-N processes. <i>Physical Review C</i> , <b>1987</b> , 36, 726-731	2.7	14
28	Photodecay amplitudes in a flux-tube potential model for baryons. <i>Physical Review D</i> , <b>1986</b> , 33, 727-735	4.9	19
27	Strong decay of hadrons in a semirelativistic quark model. <i>Physical Review D</i> , <b>1986</b> , 34, 3405-3413	4.9	15
26	Effect of shell structure on the nucleon transfer contribution to the imaginary part of the heavy ion optical potential. <i>Physical Review C</i> , <b>1985</b> , 32, 1937-1943	2.7	13
25	Hyperfine splitting in a realistic basis for baryons. <i>Physical Review D</i> , <b>1985</b> , 31, 128-136	4.9	24
24	Independent particle model for nucleon transfer in heavy ion collisions. <i>Physical Review C</i> , <b>1984</b> , 29, 1748-1755	2.7	4
23	Density matrix approach to the complex heavy ion optical potential: Exchange part. <i>Physical Review C</i> , <b>1984</b> , 29, 1756-1760	2.7	4
22	Wigner function and the one-sided flux. <i>Physical Review C</i> , <b>1984</b> , 29, 868-871	2.7	4
21	Proximity limit of the imaginary part of the heavy ion optical potential due to nucleon transfer. <i>Physical Review C</i> , <b>1984</b> , 30, 1904-1911	2.7	5
20	Unified Skyrme approach to the real and imaginary parts of the heavy-ion optical potential. <i>Nuclear Physics A</i> , <b>1983</b> , 404, 392-400	1.3	7
19	Complex heavy ion optical potential and the proximity concept. <i>Physical Review C</i> , <b>1983</b> , 28, 2533-2535	2.7	2
18	Quantum mechanical model for the one-sided flux in heavy ion collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1983</b> , 127, 10-14	4.2	4
17	Nucleon transfer contribution to the absorptive potential in heavy-ion scattering. <i>Physical Review C</i> , <b>1982</b> , 25, 2450-2456	2.7	7
16	Density matrix approach to the complex heavy ion optical potential. <i>Physical Review C</i> , <b>1982</b> , 26, 1025-1034	2.7	2
15	Classical trajectory calculations with time-dependent forces in heavy-ion collisions. <i>Nuclear Physics A</i> , <b>1981</b> , 366, 520-532	1.3	4
14	Fusion cross section of light ions at sub-Coulomb energies. <i>Physical Review C</i> , <b>1981</b> , 23, 1503-1510	2.7	16
13	Time-dependent Hartree-Fock and the one-body dissipation for head-on collisions. <i>Physical Review C</i> , <b>1981</b> , 24, 144-147	2.7	6
12	The nucleus-nucleus optical potential derived from a complex Skyrme-type interaction. <i>Physical Review C</i> , <b>1981</b> , 24, 2347-2350	2.7	4

11	Static Polarization Effects in the Nucleus-Nucleus Potential. <i>Physical Review Letters</i> , <b>1979</b> , 43, 1094-1097.	7.4	2
10	Microscopic and proximity nucleus-nucleus potentials. <i>Nuclear Physics A</i> , <b>1978</b> , 299, 321-332	1.3	68
9	The tensor part of Skyrme's interaction. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1977</b> , 68, 108-112	4.2	113
8	The real part of the nucleus-nucleus interaction. <i>Nuclear Physics A</i> , <b>1976</b> , 270, 236-254	1.3	100
7	Interaction potential between two $^{16}\text{O}$ nuclei derived from the Skyrme interaction. <i>Nuclear Physics A</i> , <b>1975</b> , 243, 175-188	1.3	126
6	Separable-potential model for the nucleon-nucleus interaction. <i>Nuclear Physics A</i> , <b>1973</b> , 205, 561-573	1.3	
5	Separable single-particle Hamiltonian and its local equivalent. <i>Nuclear Physics A</i> , <b>1972</b> , 179, 714-724	1.3	6
4	Separable single-particle potential in shell-model calculations extended to the continuum. <i>Nuclear Physics A</i> , <b>1970</b> , 157, 646-660	1.3	5
3	SU3 Wigner coefficients in angular momentum space. <i>Nuclear Physics A</i> , <b>1970</b> , 142, 481-487	1.3	4
2	Particle-hole description of even-parity $T=1$ levels of $^{12}\text{B}$ . <b>1968</b> , 58, 503-513		1
1	SU3 Wigner coefficients in angular momentum space. <i>Nuclear Physics B</i> , <b>1967</b> , 1, 471-482	2.8	6