

Stancu Floarea

List of Publications by Year in descending order

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111
papers

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citations

304701

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114
all docs

114
docs citations

114
times ranked

825
citing authors

#	ARTICLE	IF	CITATIONS
1	Interaction potential between two ^{16}O nuclei derived from the Skyrme interaction. Nuclear Physics A, 1975, 243, 175-188.	1.5	129
2	The tensor part of Skyrme's interaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1977, 68, 108-112.	4.1	123
3	Evolution of nuclear shells with the Skyrme density dependent interaction. Physical Review C, 2007, 75, .	2.9	109
4	The real part of the nucleus-nucleus interaction. Nuclear Physics A, 1976, 270, 236-254.	1.5	107
5	Stable uudds \bar{s} , pentaquarks in the constituent quark model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 575, 242-248.	4.1	102
6	Tetraquarks with heavy flavors. Physical Review D, 1998, 57, 6778-6787.	4.7	92
7	Tetraquarks with colour-blind forces in chiral quark models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 393, 119-123.	4.1	84
8	Microscopic and proximity nucleus-nucleus potentials. Nuclear Physics A, 1978, 299, 321-332.	1.5	71
9	Can $Y(4140)$ be a $c\bar{c}s\bar{s}$ tetraquark?. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 075017.	3.6	68
10	Nucleon-nucleon interaction in a chiral constituent quark model. Physical Review C, 1997, 56, 2779-2788.	2.9	64
11	Positive parity pentaquarks in a Goldstone boson exchange model. Physical Review D, 1998, 58, .	4.7	51
12	$[56,4^+]$ baryons in the $1/N_c$ expansion. Physical Review D, 2005, 71, .	4.7	51
13	Heavy-flavour pentaquarks in a chiral constituent quark model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 425, 171-176.	4.1	48
14	Masses of $[70, \hat{a}, +]$ baryons in the $1/N_c$ expansion. Physical Review D, 2006, 74, .	4.7	40
15	Pion decay of baryons in a flux-tube quark model. Physical Review D, 1988, 38, 233-237.	4.7	33
16	Role of the pion size and flux-tube extension in a baryon-decay model. Physical Review D, 1989, 39, 343-346.	4.7	30
17	Excited baryons in large QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 631, 7-15.	4.1	29
18	Role of hidden color states in $2q\hat{q}^*2q\hat{q}^-$ systems. Physical Review D, 1994, 49, 4665-4674.	4.7	28

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19	Hyperfine splitting in a realistic basis for baryons. Physical Review D, 1985, 31, 128-136.	4.7	26
20	Isoscalar Factors of the Permutation Group. Few-Body Systems, 1999, 26, 113-133.	1.5	25
21	$\chi(5568)$ as a $\{su\}_3\{ar\}_3\{b\}$ tetraquark in a simple quark model. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 105001.	3.6	25
22	Improved description of the Roper resonance in a constituent quark model. Physical Review D, 1990, 41, 916-919.	4.7	23
23	Dynamical study of the pentaquark antidecuplet. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 595, 269-276.	4.1	22
24	Phase equivalent chains of Darboux transformations in scattering theory. Physical Review C, 2002, 66, .	2.9	21
25	Nucleon-nucleon scattering in a chiral constituent quark model. Physical Review C, 2001, 63, .	2.9	20
26	Photodecay amplitudes in a flux-tube potential model for baryons. Physical Review D, 1986, 33, 727-735.	4.7	19
27	Matrix elements of $SU(6)$ generators for baryons at arbitrary N_c . Physical Review D, 2006, 73, .	4.7	18
28	Three-body confinement force in hadron spectroscopy. Physical Review D, 2002, 65, .	4.7	17
29	Spectrum of the $\{u\}\{d\}\{c\}$ hidden charm pentaquark with an $SU(4)$ flavor-spin hyperfine interaction. European Physical Journal C, 2019, 79, 1.	3.9	17
30	Fusion cross section of light ions at sub-Coulomb energies. Physical Review C, 1981, 23, 1503-1510.	2.9	16
31	Strong decay of hadrons in a semirelativistic quark model. Physical Review D, 1986, 34, 3405-3413.	4.7	16
32	N^* decay of baryons in a flux-tube-breaking mechanism. Physical Review D, 1990, 42, 1521-1526.	4.7	16
33	Negative parity non-strange baryons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 269, 243-246.	4.1	16
34	The nucleon-nucleon potential in the chromodielectric soliton model: Statics. Physical Review C, 1994, 50, 614-626.	2.9	16
35	How the $\{H\}$ particle unravels the quark dynamics. Physical Review D, 1998, 57, 4393-4396.	4.7	16
36	Phase shift effective range expansion from supersymmetric quantum mechanics. Physical Review C, 2003, 67, .	2.9	16

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37	A new look at the baryon multiplet in the expansion. Nuclear Physics A, 2008, 811, 291-305.	1.5	16
38	Effect of shell structure on the nucleon transfer contribution to the imaginary part of the heavy ion optical potential. Physical Review C, 1985, 32, 1937-1943.	2.9	14
39	Classification and construction of six-quark basis states from parity eigenfunctions for N-N processes. Physical Review C, 1987, 36, 726-731.	2.9	14
40	Baryon resonances in large N_c QCD. Reviews of Modern Physics, 2015, 87, 211-245.	45.6	14
41	Mass formula for strange baryons in large N_c QCD versus quark model. Physical Review D, 2007, 76, .	4.7	12
42	Skyrme density functional description of the double magic ^{78}Ni nucleus. Physical Review C, 2018, 97, .	2.9	12
43	Positive parity nonstrange baryons beyond 2 GeV. Zeitschrift für Physik A, 1997, 359, 321-325.	0.9	11
44	$N \rightarrow \Lambda$ decay of baryons in a flux-tube-breaking mechanism. Physical Review D, 1993, 47, 2140-2142.	4.7	10
45	NN interaction in a Goldstone boson exchange model. Physical Review C, 1999, 60, .	2.9	10
46	On the exact solutions of the Lipkin-Meshkov-Glick model. Journal of Physics A, 2001, 34, 3265-3276.	1.6	10
47	Matrix elements of generators for baryons with arbitrary quarks in mixed symmetric states. Nuclear Physics A, 2009, 826, 161-177.	1.5	10
48	Important configurations in six-quark N - N states. Physical Review C, 1988, 38, 1145-1152.	2.9	9
49	Wave function of ^{70}Ni baryon multiplet in the $SU(6)$ expansion. Physical Review D, 2012, 85, .	4.7	9
50	Wave function of ^{70}Ni baryons in the $SU(6)$ expansion. Physical Review D, 2012, 85, .	4.7	8
51	Highly excited negative parity baryons in the $1/N_c$ expansion. Physical Review D, 2012, 85, .	4.7	8
52	Exploring the spectrum of the hidden charm strange pentaquark in the $SU(4)$ version of the flavor-spin model. Physical Review D, 2020, 101, .	4.7	8
53	Nucleon transfer contribution to the absorptive potential in heavy-ion scattering. Physical Review C, 1982, 25, 2450-2456.	2.9	7
54	Unified Skyrme approach to the real and imaginary parts of the heavy-ion optical potential. Nuclear Physics A, 1983, 404, 392-400.	1.5	7

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55	Heavy hexaquarks in a chiral constituent quark model. Physical Review D, 1998, 57, 4475-4478.	4.7	7
56	Important configurations for NN processes in a Goldstone boson exchange model. Physical Review C, 1999, 59, 1756-1761.	2.9	7
57	On the scalar meson exchange in the baryon spectra. Journal of Physics G: Nuclear and Particle Physics, 2000, 26, 397-403.	3.6	7
58	SU3 Wigner coefficients in angular momentum space. Nuclear Physics B, 1967, 1, 471-482.	2.5	6
59	Separable single-particle Hamiltonian and its local equivalent. Nuclear Physics A, 1972, 179, 714-724.	1.5	6
60	Time-dependent Hartree-Fock and the one-body dissipation for head-on collisions. Physical Review C, 1981, 24, 144-147.	2.9	6
61	Nucleon-nucleon interaction in the chromodielectric soliton model: Dynamics. Physical Review C, 1996, 53, 1368-1373.	2.9	6
62	The Charge Conjugation Quantum Number in Multiquark Systems. AIP Conference Proceedings, 2008, , .	0.4	6
63	Negative parity baryons in the 1S_0 NN interaction versus the meson-nucleon resonance picture. Physical Review D, 2011, 84, .		
64	Relations between strong decay widths of the Pc pentaquarks in the SU(4) flavor-spin model. Physical Review D, 2021, 104, .	4.7	6
65	Separable single-particle potential in shell-model calculations extended to the continuum. Nuclear Physics A, 1970, 157, 646-660.	1.5	5
66	Classical trajectory calculations with time-dependent forces in heavy-ion collisions. Nuclear Physics A, 1981, 366, 520-532.	1.5	5
67	Quantum mechanical model for the one-sided flux in heavy ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1983, 127, 10-14.	4.1	5
68	Proximity limit of the imaginary part of the heavy ion optical potential due to nucleon transfer. Physical Review C, 1984, 30, 1904-1911.	2.9	5
69	?? decay of baryons in a flux-tube-breaking mechanism. Zeitschrift für Physik A, 1995, 351, 77-82.	0.9	5
70	Dynamics of pentaquarks in constituent quark models: recent developments. AIP Conference Proceedings, 2005, , .	0.4	5
71	SU3 Wigner coefficients in angular momentum space. Nuclear Physics A, 1970, 142, 481-487.	1.5	4
72	The nucleus-nucleus optical potential derived from a complex Skyrme-type interaction. Physical Review C, 1981, 24, 2347-2350.	2.9	4

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73	Density matrix approach to the complex heavy ion optical potential: Exchange part. Physical Review C, 1984, 29, 1756-1760.	2.9	4
74	Negative parity baryons in the 1^1S_0 channel. The three towers of states revisited. Physical Review D, 2012, 86, .	4.7	4
75	$[70, \frac{1}{2}^+, \frac{1}{2}^+]$ baryons in large Nc QCD revisited: The effect on Regge trajectories. Physical Review D, 2013, 87, .	4.7	4
76	Updated $1/N_c$ expansion analysis of $[56, 2^+]$ and $[70, \frac{1}{2}^+, \frac{1}{2}^+]$ baryon multiplets. Physical Review D, 2016, 93, .	4.7	4
77	Unitary transformation from color-spin to isospin-spin coupling schemes for six-quark color singlet states. Physical Review C, 1989, 39, 2030-2035.	2.9	3
78	Important configurations in six-quark N-N states. II. Current quark model. Physical Review C, 1989, 40, 1901-1904.	2.9	3
79	The short-range baryon-nucleon interaction in a chiral constituent quark model. Nuclear Physics A, 2001, 683, 359-368.	1.5	3
80	NN scattering phase shifts in a chiral constituent quark model. Nuclear Physics A, 2001, 688, 915-927.	1.5	3
81	Nucleon-nucleon interaction in a chiral constituent quark model. Nuclear Physics A, 2002, 699, 316-319.	1.5	3
82	Three-body confinement force in a realistic constituent quark model. Nuclear Physics A, 2003, 726, 327-338.	1.5	3
83	Multiquark States in a Goldstone Boson Exchange Model. Few-Body Systems, 1999, , 33-36.	0.2	3
84	Static Polarization Effects in the Nucleus-Nucleus Potential. Physical Review Letters, 1979, 43, 1094-1097.	7.8	2
85	Density matrix approach to the complex heavy ion optical potential. Physical Review C, 1982, 26, 1025-1034.	2.9	2
86	Complex heavy ion optical potential and the proximity concept. Physical Review C, 1983, 28, 2533-2535.	2.9	2
87	Stability of multiquark systems. AIP Conference Proceedings, 2000, , .	0.4	2
88	STRUCTURE OF LIGHT AND HEAVY PENTAQUARKS. International Journal of Modern Physics A, 2005, 20, 1797-1802.	1.5	2
89	The Nucleon-Nucleon Problem in Quark Models. Few-Body Systems, 2003, , 83-88.	0.2	2
90	Particle-hole description of even-parity $T=1$ levels of ^{12}B . Il Nuovo Cimento A, 1968, 58, 503-513.	0.2	1

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91	Group Theoretical Analysis of the Wave Function of the $[70, 1]^{[sup \hat{a}]}$ Nonstrange Baryons in the $1\hat{a}^N$ Expansion. AIP Conference Proceedings, 2008, , .	0.4	1
92	Group theoretical study of nonstrange and strange mixed symmetric baryon states $[Nc\hat{a}^{1,1}]$ in the $1/Nc$ expansion. Physical Review D, 2010, 81, .	4.7	1
93	SU(3) Clebsch-Gordan coefficients at large N c. Nuclear Physics A, 2016, 945, 144-152.	1.5	1
94	Stability of pentaquarks with a two- plus three-body chromoelectric interaction. Physical Review D, 2017, 96, .	4.7	1
95	Separable-potential model for the nucleon-nucleus interaction. Nuclear Physics A, 1973, 205, 561-573.	1.5	0
96	Independent particle model for nucleon transfer in heavy ion collisions. Physical Review C, 1984, 29, 1748-1755.	2.9	0
97	Wigner function and the one-sided flux. Physical Review C, 1984, 29, 868-871.	2.9	0
98	Construction of six-quark states from parity eigenfunctions for N-N processes. Progress in Particle and Nuclear Physics, 1988, 20, 175-179.	14.4	0
99	Quark substructure approach to $4He$ charge distribution. Physical Review C, 1997, 56, 486-490.	2.9	0
100	Nucleon-nucleon interaction in a chiral constituent quark model. AIP Conference Proceedings, 2000, , .	0.4	0
101	On a q-analogue of the spin-orbit coupling. Journal of Physics A, 2000, 33, 5693-5706.	1.6	0
102	Highly Excited Baryons in Large-Nc QCD. AIP Conference Proceedings, 2005, , .	0.4	0
103	The $[70, 1\hat{a}^N]$ baryon multiplet in the $1/Nc$ expansion revisited. AIP Conference Proceedings, 2007, , .	0.4	0
104	Excited $[70,]$ baryon resonances in large QCD. Nuclear Physics, Section B, Proceedings Supplements, 2007, 174, 155-158.	0.4	0
105	Large N c QCD versus the quark model. Few-Body Systems, 2008, 44, 103-106.	1.5	0
106	New look at the $[70, 1]^{[sup \hat{a}]}$ nonstrange and strange baryons in the $1\hat{a}^N$ expansion. , 2011, , .		0
107	Excited baryons in the $1/Nc$ expansion. , 2012, , .		0
108	SU(3) flavor symmetry breaking in large Nc excited hyperons. Physical Review D, 2016, 94, .	4.7	0

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109	DYNAMICAL STUDY OF THE PENTAQUARK ANTIDECUPLET IN A CONSTITUENT QUARK MODEL. , 2005, , .		0
110	THE $[56, 4^{+}]$ BARYON MULTIPLY IN THE $1/N_C$ EXPANSION OF QCD. , 2005, , .		0
111	EXCITED BARYONS IN THE $1/N_c$ EXPANSION. , 2006, , .		0