

Stancu Floarea

List of Publications by Year in descending order

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111
papers

1,967
citations

346980

22
h-index

312153

41
g-index

114
all docs

114
docs citations

114
times ranked

861
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Relations between strong decay widths of the Pc pentaquarks in the SU(4) flavor-spin model. Physical Review D, 2021, 104, . | 1.6 | 6 |
| 2 | Exploring the spectrum of the hidden charm strange pentaquark in the SU(4) version of the flavor-spin model. Physical Review D, 2020, 101, . | 1.6 | 8 |
| 3 | Spectrum of the χ_{c1} hidden charm pentaquark with an SU(4) flavor-spin hyperfine interaction. European Physical Journal C, 2019, 79, 1. | 1.4 | 17 |
| 4 | Skyrme density functional description of the double magic ^{78}Ni nucleus. Physical Review C, 2018, 97, . | 1.1 | 12 |
| 5 | Stability of pentaquarks with a two- plus three-body chromoelectric interaction. Physical Review D, 2017, 96, . | 1.6 | 1 |
| 6 | $\chi_{c1}(5568)$ as a χ_{c1} tetraquark in a simple quark model. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 105001. | 1.4 | 25 |
| 7 | Updated $1/N_c$ expansion analysis of $[56, 2^+]$ and $[70, \frac{1}{2}^+]$ baryon multiplets. Physical Review D, 2016, 93, . | 1.6 | 4 |
| 8 | SU(3) flavor symmetry breaking in large N_c excited hyperons. Physical Review D, 2016, 94, . | 1.6 | 0 |
| 9 | SU(3) Clebsch-Gordan coefficients at large N_c . Nuclear Physics A, 2016, 945, 144-152. | 0.6 | 1 |
| 10 | Baryon resonances in large N_c QCD. Reviews of Modern Physics, 2015, 87, 211-245. | 16.4 | 14 |
| 11 | $[70, \frac{1}{2}^+]$ baryons in large N_c QCD revisited: The effect on Regge trajectories. Physical Review D, 2013, 87, . | 1.6 | 4 |
| 12 | Excited baryons in the $1/N_c$ expansion. , 2012, , . | | 0 |
| 13 | Negative parity baryons in the $1/N_c$ expansion. The three towers of states revisited. Physical Review D, 2012, 86, . | | |
| 14 | Highly excited negative parity baryons in the $1/N_c$ expansion. Physical Review D, 2012, 85, . | 1.6 | 8 |
| 15 | SU(6) baryon multiplet in the $1/N_c$ expansion. Physical Review D, 2011, 84, . | 1.6 | |
| 16 | New look at the $[70, 1^+]$ nonstrange and strange baryons in the $1/N_c$ expansion. , 2011, , . | | 0 |
| 17 | Negative parity baryons in the $1/N_c$ expansion. The quark excitation versus the meson-nucleon resonance picture. Physical Review D, 2011, 84, . | | |
| 18 | Can $\chi_{c1}(4140)$ be a $c\bar{c}s\bar{s}$ tetraquark?. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 075017. | 1.4 | 68 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Group theoretical study of nonstrange and strange mixed symmetric baryon states $[N_c \hat{1}, 1]$ in the $1/N_c$ expansion. Physical Review D, 2010, 81, . | 1.6 | 1 |
| 20 | Matrix elements of generators for baryons with arbitrary quarks in mixed symmetric states. Nuclear Physics A, 2009, 826, 161-177. | 0.6 | 10 |
| 21 | Large N_c QCD versus the quark model. Few-Body Systems, 2008, 44, 103-106. | 0.7 | 0 |
| 22 | A new look at the baryon multiplet in the expansion. Nuclear Physics A, 2008, 811, 291-305. | 0.6 | 16 |
| 23 | Wave function of 70 baryons in the $1/N_c$ expansion. Physical Review D, 2007, 76, . | 1.6 | 12 |
| 24 | The Charge Conjugation Quantum Number in Multiquark Systems. AIP Conference Proceedings, 2008, , . | 0.3 | 6 |
| 25 | Group Theoretical Analysis of the Wave Function of the $[70, 1]$ Nonstrange Baryons in the $1/N_c$ Expansion. AIP Conference Proceedings, 2008, , . | 0.3 | 1 |
| 26 | Evolution of nuclear shells with the Skyrme density dependent interaction. Physical Review C, 2007, 75, . | 1.1 | 109 |
| 27 | Mass formula for strange baryons in large N_c QCD versus quark model. Physical Review D, 2007, 76, . | 1.6 | 12 |
| 28 | The $[70, 1]$ baryon multiplet in the $1/N_c$ expansion revisited. AIP Conference Proceedings, 2007, , . | 0.3 | 0 |
| 29 | Excited $[70,]$ baryon resonances in large QCD. Nuclear Physics, Section B, Proceedings Supplements, 2007, 174, 155-158. | 0.5 | 0 |
| 30 | Matrix elements of $SU(6)$ generators for baryons at arbitrary N_c . Physical Review D, 2006, 73, . | 1.6 | 18 |
| 31 | Masses of $[70, \hat{+}]$ baryons in the $1/N_c$ expansion. Physical Review D, 2006, 74, . | 1.6 | 40 |
| 32 | EXCITED BARYONS IN THE $1/N_c$ EXPANSION. , 2006, , . | | 0 |
| 33 | Excited baryons in large QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 631, 7-15. | 1.5 | 29 |
| 34 | Highly Excited Baryons in Large- N_c QCD. AIP Conference Proceedings, 2005, , . | 0.3 | 0 |
| 35 | Dynamics of pentaquarks in constituent quark models: recent developments. AIP Conference Proceedings, 2005, , . | 0.3 | 5 |
| 36 | STRUCTURE OF LIGHT AND HEAVY PENTAQUARKS. International Journal of Modern Physics A, 2005, 20, 1797-1802. | 0.5 | 2 |

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|----|---|-----|-----------|
| 37 | [56,4+]baryons in the $1/N_c$ expansion. Physical Review D, 2005, 71, . | 1.6 | 51 |
| 38 | DYNAMICAL STUDY OF THE PENTAQUARK ANTIDECUPLET IN A CONSTITUENT QUARK MODEL. , 2005, , . | | 0 |
| 39 | THE $[56, 4^{+}]$ BARYON MULTIPLY IN THE $1/N_c$ EXPANSION OF QCD. , 2005, , . | | 0 |
| 40 | Dynamical study of the pentaquark antidecuplet. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 595, 269-276. | 1.5 | 22 |
| 41 | Stable uudds, pentaquarks in the constituent quark model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 575, 242-248. | 1.5 | 102 |
| 42 | Three-body confinement force in a realistic constituent quark model. Nuclear Physics A, 2003, 726, 327-338. | 0.6 | 3 |
| 43 | Phase shift effective range expansion from supersymmetric quantum mechanics. Physical Review C, 2003, 67, . | 1.1 | 16 |
| 44 | The Nucleon-Nucleon Problem in Quark Models. Few-Body Systems, 2003, , 83-88. | 0.2 | 2 |
| 45 | Three-body confinement force in hadron spectroscopy. Physical Review D, 2002, 65, . | 1.6 | 17 |
| 46 | Phase equivalent chains of Darboux transformations in scattering theory. Physical Review C, 2002, 66, . | 1.1 | 21 |
| 47 | Nucleon-nucleon interaction in a chiral constituent quark model. Nuclear Physics A, 2002, 699, 316-319. | 0.6 | 3 |
| 48 | The short-range baryon-baryon interaction in a chiral constituent quark model. Nuclear Physics A, 2001, 683, 359-368. | 0.6 | 3 |
| 49 | NN scattering phase shifts in a chiral constituent quark model. Nuclear Physics A, 2001, 688, 915-927. | 0.6 | 3 |
| 50 | On the exact solutions of the Lipkin-Meshkov-Glick model. Journal of Physics A, 2001, 34, 3265-3276. | 1.6 | 10 |
| 51 | Nucleon-nucleon scattering in a chiral constituent quark model. Physical Review C, 2001, 63, . | 1.1 | 20 |
| 52 | Nucleon-nucleon interaction in a chiral constituent quark model. AIP Conference Proceedings, 2000, , . | 0.3 | 0 |
| 53 | Stability of multi-quark systems. AIP Conference Proceedings, 2000, , . | 0.3 | 2 |
| 54 | On a q-analogue of the spin-orbit coupling. Journal of Physics A, 2000, 33, 5693-5706. | 1.6 | 0 |

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| 55 | On the scalar meson exchange in the baryon spectra. Journal of Physics G: Nuclear and Particle Physics, 2000, 26, 397-403. | 1.4 | 7 |
| 56 | Important configurations for NN processes in a Goldstone boson exchange model. Physical Review C, 1999, 59, 1756-1761. | 1.1 | 7 |
| 57 | NN interaction in a Goldstone boson exchange model. Physical Review C, 1999, 60, . | 1.1 | 10 |
| 58 | Isoscalar Factors of the Permutation Group. Few-Body Systems, 1999, 26, 113-133. | 0.7 | 25 |
| 59 | Multiquark States in a Goldstone Boson Exchange Model. Few-Body Systems, 1999, , 33-36. | 0.2 | 3 |
| 60 | Heavy-flavour pentaquarks in a chiral constituent quark model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 425, 171-176. | 1.5 | 48 |
| 61 | Tetraquarks with heavy flavors. Physical Review D, 1998, 57, 6778-6787. | 1.6 | 92 |
| 62 | Heavy hexaquarks in a chiral constituent quark model. Physical Review D, 1998, 57, 4475-4478. | 1.6 | 7 |
| 63 | Positive parity pentaquarks in a Goldstone boson exchange model. Physical Review D, 1998, 58, . | 1.6 | 51 |
| 64 | How the Λ_c^+ particle unravels the quark dynamics. Physical Review D, 1998, 57, 4393-4396. | 1.6 | 16 |
| 65 | Quark substructure approach to ^4He charge distribution. Physical Review C, 1997, 56, 486-490. | 1.1 | 0 |
| 66 | Nucleon-nucleon interaction in a chiral constituent quark model. Physical Review C, 1997, 56, 2779-2788. | 1.1 | 64 |
| 67 | Positive parity nonstrange baryons beyond 2 GeV. Zeitschrift für Physik A, 1997, 359, 321-325. | 0.9 | 11 |
| 68 | Tetraquarks with colour-blind forces in chiral quark models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 393, 119-123. | 1.5 | 84 |
| 69 | Nucleon-nucleon interaction in the chromodielectric soliton model: Dynamics. Physical Review C, 1996, 53, 1368-1373. | 1.1 | 6 |
| 70 | Λ_c^+ decay of baryons in a flux-tube-breaking mechanism. Zeitschrift für Physik A, 1995, 351, 77-82. | 0.9 | 5 |
| 71 | Role of hidden color states in $2q\bar{q}^2\bar{q}$ systems. Physical Review D, 1994, 49, 4665-4674. | 1.6 | 28 |
| 72 | The nucleon-nucleon potential in the chromodielectric soliton model: Statics. Physical Review C, 1994, 50, 614-626. | 1.1 | 16 |

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| 73 | N ⁺ decay of baryons in a flux-tube-breaking mechanism. Physical Review D, 1993, 47, 2140-2142. | 1.6 | 10 |
| 74 | Negative parity non-strange baryons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 269, 243-246. | 1.5 | 16 |
| 75 | Improved description of the Roper resonance in a constituent quark model. Physical Review D, 1990, 41, 916-919. | 1.6 | 23 |
| 76 | N ⁺ decay of baryons in a flux-tube-breaking mechanism. Physical Review D, 1990, 42, 1521-1526. | 1.6 | 16 |
| 77 | Role of the pion size and flux-tube extension in a baryon-decay model. Physical Review D, 1989, 39, 343-346. | 1.6 | 30 |
| 78 | Unitary transformation from color-spin to isospin-spin coupling schemes for six-quark color singlet states. Physical Review C, 1989, 39, 2030-2035. | 1.1 | 3 |
| 79 | Important configurations in six-quark N-N states. II. Current quark model. Physical Review C, 1989, 40, 1901-1904. | 1.1 | 3 |
| 80 | Construction of six-quark states from parity eigenfunctions for N-N processes. Progress in Particle and Nuclear Physics, 1988, 20, 175-179. | 5.6 | 0 |
| 81 | Pion decay of baryons in a flux-tube quark model. Physical Review D, 1988, 38, 233-237. | 1.6 | 33 |
| 82 | Important configurations in six-quark N-N states. Physical Review C, 1988, 38, 1145-1152. | 1.1 | 9 |
| 83 | Classification and construction of six-quark basis states from parity eigenfunctions for N-N processes. Physical Review C, 1987, 36, 726-731. | 1.1 | 14 |
| 84 | Photodecay amplitudes in a flux-tube potential model for baryons. Physical Review D, 1986, 33, 727-735. | 1.6 | 19 |
| 85 | Strong decay of hadrons in a semirelativistic quark model. Physical Review D, 1986, 34, 3405-3413. | 1.6 | 16 |
| 86 | 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. | 1.1 | 14 |
| 87 | Hyperfine splitting in a realistic basis for baryons. Physical Review D, 1985, 31, 128-136. | 1.6 | 26 |
| 88 | Independent particle model for nucleon transfer in heavy ion collisions. Physical Review C, 1984, 29, 1748-1755. | 1.1 | 0 |
| 89 | Density matrix approach to the complex heavy ion optical potential: Exchange part. Physical Review C, 1984, 29, 1756-1760. | 1.1 | 4 |
| 90 | Wigner function and the one-sided flux. Physical Review C, 1984, 29, 868-871. | 1.1 | 0 |

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| 91 | Proximity limit of the imaginary part of the heavy ion optical potential due to nucleon transfer. <i>Physical Review C</i> , 1984, 30, 1904-1911. | 1.1 | 5 |
| 92 | 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> , 1983, 127, 10-14. | 1.5 | 5 |
| 93 | Unified Skyrme approach to the real and imaginary parts of the heavy-ion optical potential. <i>Nuclear Physics A</i> , 1983, 404, 392-400. | 0.6 | 7 |
| 94 | Complex heavy ion optical potential and the proximity concept. <i>Physical Review C</i> , 1983, 28, 2533-2535. | 1.1 | 2 |
| 95 | Nucleon transfer contribution to the absorptive potential in heavy-ion scattering. <i>Physical Review C</i> , 1982, 25, 2450-2456. | 1.1 | 7 |
| 96 | Density matrix approach to the complex heavy ion optical potential. <i>Physical Review C</i> , 1982, 26, 1025-1034. | 1.1 | 2 |
| 97 | Classical trajectory calculations with time-dependent forces in heavy-ion collisions. <i>Nuclear Physics A</i> , 1981, 366, 520-532. | 0.6 | 5 |
| 98 | Fusion cross section of light ions at sub-Coulomb energies. <i>Physical Review C</i> , 1981, 23, 1503-1510. | 1.1 | 16 |
| 99 | Time-dependent Hartree-Fock and the one-body dissipation for head-on collisions. <i>Physical Review C</i> , 1981, 24, 144-147. | 1.1 | 6 |
| 100 | The nucleus-nucleus optical potential derived from a complex Skyrme-type interaction. <i>Physical Review C</i> , 1981, 24, 2347-2350. | 1.1 | 4 |
| 101 | Static Polarization Effects in the Nucleus-Nucleus Potential. <i>Physical Review Letters</i> , 1979, 43, 1094-1097. | 2.9 | 2 |
| 102 | Microscopic and proximity nucleus-nucleus potentials. <i>Nuclear Physics A</i> , 1978, 299, 321-332. | 0.6 | 71 |
| 103 | The tensor part of Skyrme's interaction. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1977, 68, 108-112. | 1.5 | 123 |
| 104 | The real part of the nucleus-nucleus interaction. <i>Nuclear Physics A</i> , 1976, 270, 236-254. | 0.6 | 107 |
| 105 | Interaction potential between two ^{16}O nuclei derived from the Skyrme interaction. <i>Nuclear Physics A</i> , 1975, 243, 175-188. | 0.6 | 129 |
| 106 | Separable-potential model for the nucleon-nucleus interaction. <i>Nuclear Physics A</i> , 1973, 205, 561-573. | 0.6 | 0 |
| 107 | Separable single-particle Hamiltonian and its local equivalent. <i>Nuclear Physics A</i> , 1972, 179, 714-724. | 0.6 | 6 |
| 108 | Separable single-particle potential in shell-model calculations extended to the continuum. <i>Nuclear Physics A</i> , 1970, 157, 646-660. | 0.6 | 5 |

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|-----|---|-----|-----------|
| 109 | SU3 Wigner coefficients in angular momentum space. Nuclear Physics A, 1970, 142, 481-487. | 0.6 | 4 |
| 110 | Particle-hole description of even-parity T=1 levels of ^{12}B . Il Nuovo Cimento A, 1968, 58, 503-513. | 0.2 | 1 |
| 111 | SU3 Wigner coefficients in angular momentum space. Nuclear Physics B, 1967, 1, 471-482. | 0.9 | 6 |