R D Amado

List of Publications by Year
in descending order

106 papers	3,370 citations	159585 30 h-index	155660 55 g-index
107 all docs	107 docs citations	107 times ranked	409 citing authors

#	Article	IF	Citations
1	Skyrmion–anti-Skyrmion annihilation withϊ‰mesons. Physical Review D, 2001, 63, .	4.7	7
2	Two Skyrmion dynamics with ϊ‰ mesons. Physical Review D, 2000, 61, .	4.7	4
3	Nucleon-antinucleon interaction from the Skyrme model. II. Beyond the product ansatz. Physical Review C, 1998, 57, 1983-1990.	2.9	5
4	On the relationship of the scaled phase space and Skyrme-coherent state treatments of proton antiproton annihilation at rest. Zeitschrift FÃ¼r Physik A, 1996, 354, 209-213.	0.9	1
5	Domains of disoriented chiral condensates. Physical Review D, 1996, 54, 7075-7076.	4.7	11
6	Nucleon-antinucleon interaction from the Skyrme model. Physical Review C, 1996, 54, 1566-1573.	2.9	9
7	Quantum phenomenology for the disoriented chiral condensate. Physical Review D, 1995, 51, 190-200.	4.7	30
8	Isospin recoupling and Bose-Einstein pion correlations inNÂ¯Nannihilations. Physical Review C, 1995, 51, 1587-1590.	2.9	4
9	Pion correlation from Skyrmion–anti-Skyrmion annihilation. Physical Review C, 1995, 52, 2369-2376.	2.9	1
10	NNÂ¯annihilation in largeNCQCD with ϊ•and ϊ‰ mesons. Physical Review C, 1995, 52, 2158-2171.	2.9	10
11	Coherent state formulation of pion radiation from nucleon-antinucleon annihilation. Physical Review C, 1994, 50, 640-651.	2.9	14
12	Classical and quantum coherent state description ofNNÂ¯annihilation at rest in the Skyrme model with ϊ‰ mesons. Physical Review C, 1994, 50, 1787-1795.	2.9	8
13	Coherent pion radiation from nucleon-antinucleon annihilation. Physical Review Letters, 1994, 72, 970-972.	7.8	17
14	Mean Field Approach to the Algebraic Treatment of Molecules. , 1994, , 523-533.		0
15	Mean-field approach to the algebraic treatment of molecules: Bent molecules. Physical Review A, 1993, 47, 2064-2074.	2.5	11
16	Inertial parameters of the Skyrmion-Skyrmion system with the product ansatz. Physical Review C, 1993, 48, 2498-2509.	2.9	2
17	Skyrmions and the nuclear force. Physical Review C, 1993, 47, 498-511.	2.9	17
18	Vibrational excitation of molecules in electron scattering. Physical Review A, 1992, 46, 1388-1393.	2.5	5

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19	Skyrmions and the nuclear force. Physical Review Letters, 1992, 68, 3849-3852.	7.8	21
20	Mean-field approach to the algebraic treatment of molecules: Linear molecules. Physical Review A, 1992, 46, 4037-4047.	2.5	12
21	Supersymmetric quantum mechanics, phase equivalence, and low energy scattering anomalies. Physical Review C, 1991, 43, 2077-2081.	2.9	6
22	Supersymmetric quantum mechanics, the Pauli principle, and nucleon-alpha scattering. Physical Review C, 1990, 41, 1289-1291.	2.9	12
23	Hybrid approach to electron scattering from polar molecules. Physical Review A, 1990, 42, 6414-6422.	2.5	8
24	1Nccorrections toÏ€-nucleon scattering relations in chiral soliton models. Physical Review D, 1989, 40, 3622-3626.	4.7	1
25	Algebraic-eikonal approach to electron-molecule scattering. III. Triatomic molecules. Physical Review A, 1988, 37, 1425-1437.	2.5	15
26	Formal Scattering Theory Approach toS-Matrix Relations in Supersymmetric Quantum Mechanics. Physical Review Letters, 1988, 61, 2901-2904.	7.8	35
27	Phase-equivalent supersymmetric quantum-mechanical partners of the Coulomb potential. Physical Review A, 1988, 37, 2277-2279.	2.5	30
28	Coupled-channel supersymmetric quantum mechanics. Physical Review A, 1988, 38, 3797-3800.	2.5	37
29	Algebraic approach to the two-Skyrmion system. Physical Review C, 1987, 36, 1727-1736.	2.9	10
30	Medium energy proton scattering fromGd154and the interacting boson model of nuclei. Physical Review C, 1987, 36, 2436-2441.	2.9	8
31	Algebraic description of the skyrmion and its quantization for finiteN. Physical Review Letters, 1987, 58, 654-657.	7.8	20
32	Algebraic-eikonal approach to electron-molecule scattering: Diatomic molecules. Physical Review A, 1986, 33, 871-881.	2.5	38
33	Algebraic-eikonal approach to electron-molecule scattering. II. Rotational and vibrational excitation of LiF and KI. Physical Review A, 1986, 34, 71-79.	2.5	31
34	Medium energy probes and the interacting boson model of nuclei. Physical Review C, 1986, 33, 247-259.	2.9	26
35	Resolution of the magnetic moment problem in relativistic theories. Physical Review C, 1986, 34, 746-749.	2.9	56
36	High energy approximations for nuclear knockout form factors at small momentum transfer. Physical Review C, 1985, 31, 162-171.	2.9	5

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37	Semiclassical methods and the summation of the scattering partial wave series. Physical Review C, 1985, 32, 329-332.	2.9	4
38	Relativistic treatment of the spin difference functions in inelastic proton nucleus scattering. Physical Review C, 1985, 32, 949-960.	2.9	16
39	Analytic Insights into Intermediate-Energy Hadron-Nucleus Scattering. Advances in the Physics of Particles and Nuclei, 1985, , 1-42.	0.1	9
40	Importance of channel coupling for very large angle proton-nucleus scattering and the failure of the optical model. Physical Review C, 1984, 29, 932-935.	2.9	9
41	Analytic expressions for the Dirac treatment of nucleon-nucleus scattering. Physical Review C, 1984, 29, 936-943.	2.9	6
42	Intermediate-energy-proton scattering, the Dirac equation, and nuclear structure. Physical Review C, 1983, 28, 2180-2182.	2.9	13
43	Dirac-eikonal scattering amplitude. Physical Review C, 1983, 28, 1663-1667.	2.9	31
44	Dirac theory of nucleon-nucleus collective excitation. Physical Review C, 1983, 28, 2392-2396.	2.9	8
45	Pâˆ̂'Ain intermediate energy inelastic scattering. Physical Review C, 1982, 26, 270-273.	2.9	8
46	New Measure of Nuclear Transition Strengths. Physical Review Letters, 1982, 48, 124-127.	7.8	4
47	Spin observables and nuclear geometry. Physical Review C, 1982, 26, 1141-1147.	2.9	8
48	Analytic treatment of multistep processes in hadron-nucleus scattering. Physical Review C, 1982, 25, 13-22.	2.9	26
49	Spin dependence in intermediate energyp-nucleus scattering. Physical Review C, 1981, 23, 2114-2123.	2.9	20
50	Two-step processes in intermediate energy hadron-nucleus scattering. Physical Review C, 1981, 23, 2186-2197.	2.9	9
51	Comprehensive relations for hadron-nucleus inelastic excitations in terms of elastic scattering. Physical Review C, 1980, 22, 2094-2107.	2.9	33
52	Explicit formula for hadron-nucleus elastic scattering in the eikonal approximation. Physical Review C, 1980, 21, 647-661.	2.9	62
53	Resonances as components of bound states. Physical Review C, 1979, 19, 1095-1098.	2.9	1
54	Phenomenology of Inclusive Fast-Nucleon Spectra in Weak, Electromagnetic, and Strong Nuclear Processes. Physical Review Letters, 1979, 42, 162-165.	7.8	19

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55	"Optimal" approximation to projectile-bound-nucleon scattering. Physical Review C, 1979, 19, 142-148.	2.9	33
56	Problems in determining nuclear bound state wave functions. Physical Review C, 1979, 19, 1473-1481.	2.9	39
57	Impulse approximation in the peripheral region. Physical Review C, 1978, 18, 918-931.	2.9	13
58	Asymptotic normalization of the deuteronDstate. Physical Review C, 1978, 17, 403-405.	2.9	25
59	Large-momentum behavior of Hartree and Hartree-Fock solutions. Physical Review A, 1977, 16, 1725-1727.	2.5	6
60	Analysis of four-body final states: Nonrelativistic. Physical Review C, 1977, 15, 498-504.	2.9	4
61	Momentum distribution in the nucleus. II. Physical Review C, 1977, 15, 2200-2208.	2.9	17
62	Mechanism for "quasi-two-body scaling". Physical Review C, 1977, 16, 1255-1257.	2.9	11
63	Isobar formalism and one-pion-exchange partial-wave cross sections inÏ€Nâ†'Ï€Ï€N. Physical Review D, 1977, 16, 50-61.	4.7	8
64	Theory of Three-Body Final States. Topics in Current Physics, 1977, , 85-104.	0.5	1
65	Momentum distributions in the nucleus. Physical Review C, 1976, 14, 1264-1270.	2.9	35
66	Relativistic isobar model: Spinless particles. Physical Review D, 1976, 13, 2581-2593.	4.7	25
67	Mechanism for 180Â° Proton Production in Energetic Proton-Nucleus Collisions. Physical Review Letters, 1976, 36, 1435-1437.	7.8	135
68	Numerical investigation of minimal three-body equations. II. Resonant pair interactions. Physical Review C, 1976, 13, 1810-1815.	2.9	6
69	Analysis of three-body final states: Nonrelativistic. Physical Review C, 1975, 11, 719-733.	2.9	25
70	Numerical investigation of minimal three-body equations. Physical Review C, 1975, 12, 1134-1139.	2.9	4
71	Minimal three-body equations with finite-range effects. Physical Review C, 1975, 12, 1354-1357.	2.9	16
72	Singularities in three-body final-state amplitudes. Physical Review D, 1974, 9, 1467-1475.	4.7	15

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73	Minimal Three-Body Scattering Theory. Physical Review Letters, 1974, 33, 333-336.	7.8	30
74	Theory of Photoproduction in the Region of the Second Resonance. Physical Review D, 1973, 7, 1544-1548.	4.7	2
75	Analysis of Three-Hadron Final States. Physical Review Letters, 1973, 31, 1157-1159.	7.8	45
76	There Is No Efimov Effect for Four or More Particles. Physical Review D, 1973, 7, 2517-2519.	4.7	52
77	Parametrization of the Three-BodyDFunction. II. Physical Review C, 1972, 6, 1484-1495.	2.9	11
78	Efimov's Effect: A New Pathology of Three-Particle Systems. II. Physical Review D, 1972, 5, 1992-2002.	4.7	119
79	Analytic Properties of Three-Body Decay Amplitudes. Physical Review D, 1971, 4, 1032-1038.	4.7	10
80	Low-Temperature Behavior of the Quantum Cluster Coefficients. Physical Review Letters, 1971, 27, 485-487.	7.8	23
81	Inelastic Effects andÏ€â˜NResonances. Physical Review Letters, 1971, 27, 1316-1319.	7.8	29
82	Theoretical Evidence forI=0Z*'s. Physical Review Letters, 1971, 26, 407-410.	7.8	18
83	Off-Shell Continuation of the Two-BodyTMatrix with Fixed On-Shell Behavior. Physical Review C, 1970, 2, 2439-2441.	2.9	11
84	Low-Energy Expansion for Elastic Three-Body Scattering. Physical Review Letters, 1970, 25, 194-197.	7.8	22
85	Final-State Interaction Effects in Weak Three-Body Decays. Physical Review, 1969, 185, 1993-2003.	2.7	15
86	Theory of theD13Pion-Nucleon Amplitude. Physical Review, 1969, 187, 2047-2051.	2.7	20
87	The Three-Nucleon Problem. Annual Review of Nuclear Science, 1969, 19, 61-98.	0.1	48
88	Relativistic Three-Body Theory with Applications toÏ€â˜NScattering. Physical Review, 1968, 174, 2022-2032.	2.7	210
89	Final-State Interaction Enhancements in Weak Three-Body Decays. Physical Review Letters, 1968, 21, 1846-1848.	7.8	8
90	Coherence in Three-Body Final States. Physical Review, 1967, 158, 1414-1421.	2.7	57

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91	Theory of the Reactionn+dâ†'n+n+p. Physical Review, 1966, 150, 857-866.	2.7	233
92	Theory of the Triton Wave Function. Physical Review, 1966, 141, 902-913.	2.7	38
93	Theory of the Three-Nucleon System. Reviews of Modern Physics, 1965, 37, 516-518.	45.6	7
94	Calculations of Neutron-Deuteron Scattering. Physical Review, 1965, 140, B1291-B1300.	2.7	248
95	Model Three-Body Problem. Physical Review, 1964, 136, B650-B659.	2.7	116
96	Solution of a Singular Integral Equation from Scattering Theory. Journal of Mathematical Physics, 1964, 5, 1340-1342.	1.1	30
97	Calculation of Nucleon-Deuteron Scattering and the Triton Binding Energy. Physical Review Letters, 1964, 13, 574-576.	7.8	67
98	Weak-interaction corrections to the electromagnetic interactions of leptons. Nuovo Cimento, 1963, 30, 1083-1093.	1.0	11
99	Soluble Problems in the Scattering from Compound Systems. Physical Review, 1963, 132, 485-494.	2.7	252
100	New Methods in Direct Interaction Theory. Physical Review, 1962, 127, 261-275.	2.7	24
101	Vâ˜Î̧Collisions in the Lee Model. Physical Review, 1961, 122, 696-704.	2.7	80
102	Elementary and Composite Particles. Physical Review, 1961, 124, 1258-1268.	2.7	172
103	Analysis of Deuteron Stripping Experiments. Physical Review Letters, 1959, 2, 399-401.	7.8	70
104	Correlations and the Nuclear Magnetic Moment. Physical Review, 1958, 111, 548-558.	2.7	21
105	Weak Collective Effects in the Nuclear Shell Model. Proceedings of the Physical Society Section A, 1957, 70, 532-535.	1.1	11
106	Weak Collective Effects in the Nuclear Shell Model. Physical Review, 1957, 108, 1462-1472.	2.7	29