

R D Amado

List of Publications by Year in descending order

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106
papers

3,370
citations

159585

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55
g-index

107
all docs

107
docs citations

107
times ranked

409
citing authors

#	ARTICLE	IF	CITATIONS
1	Soluble Problems in the Scattering from Compound Systems. Physical Review, 1963, 132, 485-494.	2.7	252
2	Calculations of Neutron-Deuteron Scattering. Physical Review, 1965, 140, B1291-B1300.	2.7	248
3	Theory of the Reaction $n+d \rightarrow n+n+p$. Physical Review, 1966, 150, 857-866.	2.7	233
4	Relativistic Three-Body Theory with Applications to ^3N Scattering. Physical Review, 1968, 174, 2022-2032.	2.7	210
5	Elementary and Composite Particles. Physical Review, 1961, 124, 1258-1268.	2.7	172
6	Mechanism for $^{18}\text{O}(\alpha, p)$ Proton Production in Energetic Proton-Nucleus Collisions. Physical Review Letters, 1976, 36, 1435-1437.	7.8	135
7	Efimov's Effect: A New Pathology of Three-Particle Systems. II. Physical Review D, 1972, 5, 1992-2002.	4.7	119
8	Model Three-Body Problem. Physical Review, 1964, 136, B650-B659.	2.7	116
9	$\pi^+\pi^0$ Collisions in the Lee Model. Physical Review, 1961, 122, 696-704.	2.7	80
10	Analysis of Deuteron Stripping Experiments. Physical Review Letters, 1959, 2, 399-401.	7.8	70
11	Calculation of Nucleon-Deuteron Scattering and the Triton Binding Energy. Physical Review Letters, 1964, 13, 574-576.	7.8	67
12	Explicit formula for hadron-nucleus elastic scattering in the eikonal approximation. Physical Review C, 1980, 21, 647-661.	2.9	62
13	Coherence in Three-Body Final States. Physical Review, 1967, 158, 1414-1421.	2.7	57
14	Resolution of the magnetic moment problem in relativistic theories. Physical Review C, 1986, 34, 746-749.	2.9	56
15	There Is No Efimov Effect for Four or More Particles. Physical Review D, 1973, 7, 2517-2519.	4.7	52
16	The Three-Nucleon Problem. Annual Review of Nuclear Science, 1969, 19, 61-98.	0.1	48
17	Analysis of Three-Hadron Final States. Physical Review Letters, 1973, 31, 1157-1159.	7.8	45
18	Problems in determining nuclear bound state wave functions. Physical Review C, 1979, 19, 1473-1481.	2.9	39

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19	Theory of the Triton Wave Function. <i>Physical Review</i> , 1966, 141, 902-913.	2.7	38
20	Algebraic-eikonal approach to electron-molecule scattering: Diatomic molecules. <i>Physical Review A</i> , 1986, 33, 871-881.	2.5	38
21	Coupled-channel supersymmetric quantum mechanics. <i>Physical Review A</i> , 1988, 38, 3797-3800.	2.5	37
22	Momentum distributions in the nucleus. <i>Physical Review C</i> , 1976, 14, 1264-1270.	2.9	35
23	Formal Scattering Theory Approach to S-Matrix Relations in Supersymmetric Quantum Mechanics. <i>Physical Review Letters</i> , 1988, 61, 2901-2904.	7.8	35
24	"Optimal" approximation to projectile-bound-nucleon scattering. <i>Physical Review C</i> , 1979, 19, 142-148.	2.9	33
25	Comprehensive relations for hadron-nucleus inelastic excitations in terms of elastic scattering. <i>Physical Review C</i> , 1980, 22, 2094-2107.	2.9	33
26	Dirac-eikonal scattering amplitude. <i>Physical Review C</i> , 1983, 28, 1663-1667.	2.9	31
27	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.	2.5	31
28	Solution of a Singular Integral Equation from Scattering Theory. <i>Journal of Mathematical Physics</i> , 1964, 5, 1340-1342.	1.1	30
29	Minimal Three-Body Scattering Theory. <i>Physical Review Letters</i> , 1974, 33, 333-336.	7.8	30
30	Phase-equivalent supersymmetric quantum-mechanical partners of the Coulomb potential. <i>Physical Review A</i> , 1988, 37, 2277-2279.	2.5	30
31	Quantum phenomenology for the disoriented chiral condensate. <i>Physical Review D</i> , 1995, 51, 190-200.	4.7	30
32	Weak Collective Effects in the Nuclear Shell Model. <i>Physical Review</i> , 1957, 108, 1462-1472.	2.7	29
33	Inelastic Effects and \hat{N} Resonances. <i>Physical Review Letters</i> , 1971, 27, 1316-1319.	7.8	29
34	Analytic treatment of multistep processes in hadron-nucleus scattering. <i>Physical Review C</i> , 1982, 25, 13-22.	2.9	26
35	Medium energy probes and the interacting boson model of nuclei. <i>Physical Review C</i> , 1986, 33, 247-259.	2.9	26
36	Analysis of three-body final states: Nonrelativistic. <i>Physical Review C</i> , 1975, 11, 719-733.	2.9	25

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37	Relativistic isobar model: Spinless particles. <i>Physical Review D</i> , 1976, 13, 2581-2593.	4.7	25
38	Asymptotic normalization of the deuteron D state. <i>Physical Review C</i> , 1978, 17, 403-405.	2.9	25
39	New Methods in Direct Interaction Theory. <i>Physical Review</i> , 1962, 127, 261-275.	2.7	24
40	Low-Temperature Behavior of the Quantum Cluster Coefficients. <i>Physical Review Letters</i> , 1971, 27, 485-487.	7.8	23
41	Low-Energy Expansion for Elastic Three-Body Scattering. <i>Physical Review Letters</i> , 1970, 25, 194-197.	7.8	22
42	Correlations and the Nuclear Magnetic Moment. <i>Physical Review</i> , 1958, 111, 548-558.	2.7	21
43	Skyrmions and the nuclear force. <i>Physical Review Letters</i> , 1992, 68, 3849-3852.	7.8	21
44	Theory of the D_{13} Pion-Nucleon Amplitude. <i>Physical Review</i> , 1969, 187, 2047-2051.	2.7	20
45	Spin dependence in intermediate energy p -nucleus scattering. <i>Physical Review C</i> , 1981, 23, 2114-2123.	2.9	20
46	Algebraic description of the skyrmion and its quantization for finite N . <i>Physical Review Letters</i> , 1987, 58, 654-657.	7.8	20
47	Phenomenology of Inclusive Fast-Nucleon Spectra in Weak, Electromagnetic, and Strong Nuclear Processes. <i>Physical Review Letters</i> , 1979, 42, 162-165.	7.8	19
48	Theoretical Evidence for ρ - ω 's. <i>Physical Review Letters</i> , 1971, 26, 407-410.	7.8	18
49	Momentum distribution in the nucleus. II. <i>Physical Review C</i> , 1977, 15, 2200-2208.	2.9	17
50	Skyrmions and the nuclear force. <i>Physical Review C</i> , 1993, 47, 498-511.	2.9	17
51	Coherent pion radiation from nucleon-antinucleon annihilation. <i>Physical Review Letters</i> , 1994, 72, 970-972.	7.8	17
52	Minimal three-body equations with finite-range effects. <i>Physical Review C</i> , 1975, 12, 1354-1357.	2.9	16
53	Relativistic treatment of the spin difference functions in inelastic proton nucleus scattering. <i>Physical Review C</i> , 1985, 32, 949-960.	2.9	16
54	Final-State Interaction Effects in Weak Three-Body Decays. <i>Physical Review</i> , 1969, 185, 1993-2003.	2.7	15

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55	Singularities in three-body final-state amplitudes. <i>Physical Review D</i> , 1974, 9, 1467-1475.	4.7	15
56	Algebraic-eikonal approach to electron-molecule scattering. III. Triatomic molecules. <i>Physical Review A</i> , 1988, 37, 1425-1437.	2.5	15
57	Coherent state formulation of pion radiation from nucleon-antinucleon annihilation. <i>Physical Review C</i> , 1994, 50, 640-651.	2.9	14
58	Impulse approximation in the peripheral region. <i>Physical Review C</i> , 1978, 18, 918-931.	2.9	13
59	Intermediate-energy-proton scattering, the Dirac equation, and nuclear structure. <i>Physical Review C</i> , 1983, 28, 2180-2182.	2.9	13
60	Supersymmetric quantum mechanics, the Pauli principle, and nucleon-alpha scattering. <i>Physical Review C</i> , 1990, 41, 1289-1291.	2.9	12
61	Mean-field approach to the algebraic treatment of molecules: Linear molecules. <i>Physical Review A</i> , 1992, 46, 4037-4047.	2.5	12
62	Weak Collective Effects in the Nuclear Shell Model. <i>Proceedings of the Physical Society Section A</i> , 1957, 70, 532-535.	1.1	11
63	Weak-interaction corrections to the electromagnetic interactions of leptons. <i>Nuovo Cimento</i> , 1963, 30, 1083-1093.	1.0	11
64	Off-Shell Continuation of the Two-Body T Matrix with Fixed On-Shell Behavior. <i>Physical Review C</i> , 1970, 2, 2439-2441.	2.9	11
65	Parametrization of the Three-Body D Function. II. <i>Physical Review C</i> , 1972, 6, 1484-1495.	2.9	11
66	Mechanism for "quasi-two-body scaling". <i>Physical Review C</i> , 1977, 16, 1255-1257.	2.9	11
67	Mean-field approach to the algebraic treatment of molecules: Bent molecules. <i>Physical Review A</i> , 1993, 47, 2064-2074.	2.5	11
68	Domains of disoriented chiral condensates. <i>Physical Review D</i> , 1996, 54, 7075-7076.	4.7	11
69	Analytic Properties of Three-Body Decay Amplitudes. <i>Physical Review D</i> , 1971, 4, 1032-1038.	4.7	10
70	Algebraic approach to the two-Skyrmion system. <i>Physical Review C</i> , 1987, 36, 1727-1736.	2.9	10
71	$N\bar{N}$ annihilation in large N_c QCD with $\bar{1}$ - and $\bar{0}$ - mesons. <i>Physical Review C</i> , 1995, 52, 2158-2171.	2.9	10
72	Two-step processes in intermediate energy hadron-nucleus scattering. <i>Physical Review C</i> , 1981, 23, 2186-2197.	2.9	9

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73	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
74	Nucleon-antinucleon interaction from the Skyrme model. Physical Review C, 1996, 54, 1566-1573.	2.9	9
75	Analytic Insights into Intermediate-Energy Hadron-Nucleus Scattering. Advances in the Physics of Particles and Nuclei, 1985, , 1-42.	0.1	9
76	Final-State Interaction Enhancements in Weak Three-Body Decays. Physical Review Letters, 1968, 21, 1846-1848.	7.8	8
77	Isobar formalism and one-pion-exchange partial-wave cross sections in $\pi N \rightarrow \pi N$. Physical Review D, 1977, 16, 50-61.	4.7	8
78	πN in intermediate energy inelastic scattering. Physical Review C, 1982, 26, 270-273.	2.9	8
79	Spin observables and nuclear geometry. Physical Review C, 1982, 26, 1141-1147.	2.9	8
80	Dirac theory of nucleon-nucleus collective excitation. Physical Review C, 1983, 28, 2392-2396.	2.9	8
81	Medium energy proton scattering from Gd^{154} and the interacting boson model of nuclei. Physical Review C, 1987, 36, 2436-2441.	2.9	8
82	Hybrid approach to electron scattering from polar molecules. Physical Review A, 1990, 42, 6414-6422.	2.5	8
83	Classical and quantum coherent state description of $NN\bar{N}$ annihilation at rest in the Skyrme model with η mesons. Physical Review C, 1994, 50, 1787-1795.	2.9	8
84	Theory of the Three-Nucleon System. Reviews of Modern Physics, 1965, 37, 516-518.	45.6	7
85	Skyrmion-anti-Skyrmion annihilation with η mesons. Physical Review D, 2001, 63, .	4.7	7
86	Numerical investigation of minimal three-body equations. II. Resonant pair interactions. Physical Review C, 1976, 13, 1810-1815.	2.9	6
87	Large-momentum behavior of Hartree and Hartree-Fock solutions. Physical Review A, 1977, 16, 1725-1727.	2.5	6
88	Analytic expressions for the Dirac treatment of nucleon-nucleus scattering. Physical Review C, 1984, 29, 936-943.	2.9	6
89	Supersymmetric quantum mechanics, phase equivalence, and low energy scattering anomalies. Physical Review C, 1991, 43, 2077-2081.	2.9	6
90	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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91	Vibrational excitation of molecules in electron scattering. <i>Physical Review A</i> , 1992, 46, 1388-1393.	2.5	5
92	Nucleon-antinucleon interaction from the Skyrme model. II. Beyond the product ansatz. <i>Physical Review C</i> , 1998, 57, 1983-1990.	2.9	5
93	Numerical investigation of minimal three-body equations. <i>Physical Review C</i> , 1975, 12, 1134-1139.	2.9	4
94	Analysis of four-body final states: Nonrelativistic. <i>Physical Review C</i> , 1977, 15, 498-504.	2.9	4
95	New Measure of Nuclear Transition Strengths. <i>Physical Review Letters</i> , 1982, 48, 124-127.	7.8	4
96	Semiclassical methods and the summation of the scattering partial wave series. <i>Physical Review C</i> , 1985, 32, 329-332.	2.9	4
97	Isospin recoupling and Bose-Einstein pion correlations in $N\bar{N}$ annihilations. <i>Physical Review C</i> , 1995, 51, 1587-1590.	2.9	4
98	Two Skyrmion dynamics with η' mesons. <i>Physical Review D</i> , 2000, 61, .	4.7	4
99	Theory of Photoproduction in the Region of the Second Resonance. <i>Physical Review D</i> , 1973, 7, 1544-1548.	4.7	2
100	Inertial parameters of the Skyrmion-Skyrmion system with the product ansatz. <i>Physical Review C</i> , 1993, 48, 2498-2509.	2.9	2
101	Resonances as components of bound states. <i>Physical Review C</i> , 1979, 19, 1095-1098.	2.9	1
102	$1N$ corrections to π -nucleon scattering relations in chiral soliton models. <i>Physical Review D</i> , 1989, 40, 3622-3626.	4.7	1
103	Pion correlation from Skyrmion \leftrightarrow anti-Skyrmion annihilation. <i>Physical Review C</i> , 1995, 52, 2369-2376.	2.9	1
104	On the relationship of the scaled phase space and Skyrme-coherent state treatments of proton antiproton annihilation at rest. <i>Zeitschrift für Physik A</i> , 1996, 354, 209-213.	0.9	1
105	Theory of Three-Body Final States. <i>Topics in Current Physics</i> , 1977, , 85-104.	0.5	1
106	Mean Field Approach to the Algebraic Treatment of Molecules. , 1994, , 523-533.		0