

David R. Entem

List of Publications by Citations

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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.

99
papers

4,177
citations

26
h-index

64
g-index

117
ext. papers

4,789
ext. citations

3.1
avg, IF

5.99
L-index

#	Paper	IF	Citations
99	Accurate charge-dependent nucleon-nucleon potential at fourth order of chiral perturbation theory. <i>Physical Review C</i> , 2003 , 68,	2.7	1128
98	Chiral effective field theory and nuclear forces. <i>Physics Reports</i> , 2011 , 503, 1-75	27.7	928
97	Accurate nucleon-nucleon potential based upon chiral perturbation theory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2002 , 524, 93-98	4.2	183
96	High-quality two-nucleon potentials up to fifth order of the chiral expansion. <i>Physical Review C</i> , 2017 , 96,	2.7	163
95	Chiral 2π -exchange at fourth order and peripheral NN scattering. <i>Physical Review C</i> , 2002 , 66,	2.7	137
94	Peripheral nucleon-nucleon scattering at fifth order of chiral perturbation theory. <i>Physical Review C</i> , 2015 , 91,	2.7	121
93	JPC=1-- hidden charm resonances. <i>Physical Review D</i> , 2008 , 78,	4.9	93
92	Renormalization of chiral two-pion exchange NN interactions: Momentum space versus coordinate space. <i>Physical Review C</i> , 2008 , 77,	2.7	79
91	Towards a model-independent low momentum nucleon-nucleon interaction. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003 , 576, 265-272	4.2	77
90	Coupled channel approach to the structure of the X(3872). <i>Physical Review D</i> , 2010 , 81,	4.9	70
89	Dominant contributions to the nucleon-nucleon interaction at sixth order of chiral perturbation theory. <i>Physical Review C</i> , 2015 , 92,	2.7	62
88	Scaling of the . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 715, 322-327	4.2	60
87	Chiral quark model of the NN system within a Lippmann-Schwinger resonating group method. <i>Physical Review C</i> , 2000 , 62,	2.7	59
86	Bottomonium spectrum revisited. <i>Physical Review D</i> , 2016 , 93,	4.9	56
85	CONSTITUENT QUARK MODEL DESCRIPTION OF CHARMONIUM PHENOMENOLOGY. <i>International Journal of Modern Physics E</i> , 2013 , 22, 1330026	0.7	56
84	Nonperturbative renormalization of the chiral nucleon-nucleon interaction up to next-to-next-to-leading order. <i>Physical Review C</i> , 2013 , 88,	2.7	48
83	Quark model description of the $\bar{B}(2940)^+$ as a molecular D^*N state and the possible existence of the $\bar{B}(6248)$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 718, 1381-1384	4.2	43

82	Low-momentum nucleon-nucleon interactions and shell-model calculations. <i>Physical Review C</i> , 2007 , 75,	2.7	40
81	Molecular structures in the charmonium spectrum: theXYZpuzzle. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2013 , 40, 065107	2.9	36
80	Towards a consistent approach to nuclear structure: EFT of two- and many-body forces. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2005 , 31, S1235-S1244	2.9	32
79	Chiral NN model and Ay puzzle. <i>Physical Review C</i> , 2002 , 65,	2.7	31
78	Is chiral symmetry restored in the excited meson spectrum?. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008 , 662, 33-36	4.2	30
77	The NN π interaction in a constituent quark model: Baryonium states and protonium level shifts. <i>Physical Review C</i> , 2006 , 73,	2.7	30
76	Semileptonic B and Bs decays into orbitally excited charmed mesons. <i>Physical Review D</i> , 2011 , 84,	4.9	29
75	Canonical description of the new LHCb resonances. <i>Physical Review D</i> , 2016 , 94,	4.9	28
74	Renormalization of the leading-order chiral nucleon-nucleon interaction and bulk properties of nuclear matter. <i>Physical Review C</i> , 2010 , 81,	2.7	27
73	Charmonium resonances in the 3.9 GeV/c ² energy region and the X(3915)/X(3930) puzzle. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 778, 1-5	4.2	26
72	Infinite-Cutoff Renormalization of the Chiral Nucleon-Nucleon Interaction up to N ³ LO. <i>Few-Body Systems</i> , 2013 , 54, 2191-2205	1.6	26
71	Nuclear forces from chiral EFT: the unfinished business. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2010 , 37, 064041	2.9	25
70	Final state interaction effects in near threshold enhancement of the pp π mass spectrum in B and J/ ψ decays. <i>Physical Review D</i> , 2007 , 75,	4.9	25
69	Microscopic nuclear structure based upon a chiral NN potential. <i>Physical Review C</i> , 2002 , 66,	2.7	24
68	LHCb pentaquarks in constituent quark models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 764, 207-211	4.2	23
67	Charmed-strange meson spectrum: Old and new problems. <i>Physical Review D</i> , 2015 , 91,	4.9	23
66	Molecular components in P-wave charmed-strange mesons. <i>Physical Review D</i> , 2016 , 94,	4.9	22
65	Ds ₁ (2536) ⁺ decays and the properties of P-wave charmed strange mesons. <i>Physical Review D</i> , 2009 , 80,	4.9	20

64	pp̄p̄ depolarization and spin transfer in a constituent quark model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 696, 352-358	4.2	20
63	Nonlocal calculation for nonstrange dibaryons and tribaryons. <i>Physical Review C</i> , 2002 , 65,	2.7	19
62	Charmonium resonances in e+e- exclusive reactions around the (4415) region. <i>Physical Review D</i> , 2011 , 83,	4.9	17
61	Threshold effects in P-wave bottom-strange mesons. <i>Physical Review D</i> , 2017 , 95,	4.9	15
60	Strong charmonium decays in a microscopic model. <i>Nuclear Physics A</i> , 2013 , 915, 125-141	1.3	15
59	Calibrating the naïve Cornell model with NRQCD. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	14
58	The (Z_c) structures in a coupled-channels model. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	14
57	Puzzles in hadronic transitions of heavy quarkonium with two pion emission. <i>Physical Review D</i> , 2015 , 91,	4.9	14
56	The strange partner of the Z structures in a coupled-channels model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021 , 818, 136382	4.2	13
55	The N / D method with non-perturbative left-hand-cut discontinuity and the S01NN partial wave. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 773, 498-504	4.2	12
54	B decays into radially excited charmed mesons. <i>Physical Review D</i> , 2013 , 87,	4.9	11
53	Renormalization approach to constituent quark models of quarkonium. <i>Physical Review D</i> , 2012 , 85,	4.9	10
52	Charge dependence and charge asymmetry of nuclear forces in chiral quark cluster models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999 , 463, 153-158	4.2	10
51	One-loop contributions in the effective field theory for the N-NN transition. <i>Physical Review C</i> , 2013 , 87,	2.7	9
50	Nonleptonic B-D(*)DsJ(*) decays and the nature of the orbitally excited charmed-strange mesons. <i>Physical Review D</i> , 2012 , 86,	4.9	9
49	Nucleon-Nucleon Scattering Up to N5LO in Chiral Effective Field Theory. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	8
48	Spectroscopy of (mathbf {B_c}) mesons and the possibility of finding exotic (mathbf {B_c})-like structures. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	8
47	Hadronic molecules in the open charm and open bottom baryon spectrum. <i>Physical Review D</i> , 2014 , 90,	4.9	7

46	Two-nucleon system above pion threshold: Quark model study. <i>Physical Review C</i> , 2003 , 67,	2.7	7
45	A chiral quark model and the spin observables in nucleon-nucleon scattering. <i>Nuclear Physics A</i> , 1996 , 602, 308-326	1.3	7
44	Partners of the X(3872) and heavy quark spin symmetry breaking 2016 ,		7
43	Counting states and the Hadron Resonance Gas: Does X(3872) count?. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 781, 678-683	4.2	7
42	Renormalized quarkonium. <i>Physical Review D</i> , 2012 , 86,	4.9	6
41	Renormalization of the off-shell chiral two-pion exchange NN interactions. <i>Physical Review C</i> , 2009 , 80,	2.7	5
40	(1232) isobar excitations and the ground state of nuclei. <i>Physical Review C</i> , 2002 , 65,	2.7	5
39	D π molecular interpretation for the Xc(3250). <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 729, 24-26	4.2	4
38	Molecular charmonium. A new spectroscopy? 2014 ,		4
37	Charmonium narrow resonances in the string breaking region. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2010 , 37, 075010	2.9	4
36	Deuteron NN*(1440) components from a chiral quark model. <i>Physical Review C</i> , 2002 , 66,	2.7	4
35	Recent Progress in the Theory of Nuclear Forces. <i>Few-Body Systems</i> , 2013 , 54, 821-826	1.6	3
34	The X(3872) and other possible XYZ molecular states 2010 ,		3
33	X(1859) Baryonium or something else?. <i>European Physical Journal A</i> , 2007 , 31, 649-652	2.5	3
32	Puzzles in quarkonium hadronic transitions with two pion emission 2016 ,		2
31	The Role of Spin-Flipping Terms in Hadronic Transitions of $(\Upsilon(4S))$. <i>Few-Body Systems</i> , 2016 , 57, 275-287	1.6	2
30	Next-to-leading order effective field theory π - π NN potential in coordinate space. <i>Nuclear Physics A</i> , 2016 , 954, 213-241	1.3	2
29	Higher order contributions to the weak π -NN interaction in effective field theory. <i>Nuclear Physics A</i> , 2013 , 914, 199-203	1.3	2

28	Recent advances in the theory of nuclear forces. <i>Journal of Physics: Conference Series</i> , 2005 , 20, 77-82	0.3	2
27	Coupling Hadron-Hadron Thresholds within a Chiral Quark Model Approach. <i>Symmetry</i> , 2021 , 13, 279	2.7	2
26	Symmetries, Partners and Thresholds: The Case of the X_b . <i>Symmetry</i> , 2021 , 13, 1600	2.7	2
25	Unquenching the Quark Model in a Nonperturbative Scheme. <i>Advances in High Energy Physics</i> , 2019 , 2019, 1-7	1	1
24	Quark Models of the Nucleon-Nucleon Interaction. <i>Frontiers in Physics</i> , 2020 , 7,	3.9	1
23	Strangeness production in $(\bar{p}p)$ collision. <i>Hyperfine Interactions</i> , 2012 , 213, 71-79	0.8	1
22	CHARMONIUM RESONANCES IN e^+e^- ANNIHILATION CROSS SECTIONS AROUND THE $\psi(4415)$ REGION. <i>International Journal of Modern Physics A</i> , 2011 , 26, 573-575	1.2	1
21	HEAVY FLAVOUR HADRONIC MOLECULES. <i>International Journal of Modern Physics A</i> , 2011 , 26, 613-615	1.2	1
20	The nuclear force problem: Are we seeing the end of the tunnel?. <i>Nuclear Physics A</i> , 2004 , 737, 223-227	1.3	1
19	Non-perturbative methods for NN singular interactions. <i>European Physical Journal: Special Topics</i> , 2021 , 230, 1675-1689	2.3	1
18	Molecular components in $D^*s_0(2317)$ and $Ds_1(2460)$ mesons. <i>EPJ Web of Conferences</i> , 2016 , 130, 02009	0.3	0
17	The $\Sigma(2940)^+$ as a D^*N Molecule in a Constituent Quark Model and a Possible $\Omega(6248)$. <i>Few-Body Systems</i> , 2013 , 54, 1101-1104	1.6	0
16	Renormalization of (NN) Chiral EFT: My Personal Mixed Feelings. <i>Few-Body Systems</i> , 2021 , 62, 1	1.6	0
15	1N - n NN EFT potentials and hypertriton non-mesonic weak decay. <i>Journal of Physics: Conference Series</i> , 2018 , 1024, 012033	0.3	0
14	The $D_0(2590)^+$ as the dressed $cs[21S_0]$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022 , 827, 136998	4.2	0
13	Does the $J = 1^+$ counterpart of the $X(3872)$ exist?. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022 , 829, 137083	4.2	0
12	Heavy mesons in the Quark Model. <i>EPJ Web of Conferences</i> , 2019 , 199, 01012	0.3	
11	POSSIBLE MOLECULAR STRUCTURES IN THE HEAVY BARYON SPECTRUM. <i>International Journal of Modern Physics Conference Series</i> , 2014 , 26, 1460123	0.7	

- 10 Non-mesonic weak decay of hypernuclei with effective field theory. *Journal of Physics: Conference Series*, **2014**, 503, 012033 0.3
- 9 $D_s 1$ (2536) + decays and the structure of P -wave charmed strange mesons. *Chinese Physics C*, **2010**, 34, 1408-1410 2.2
- 8 Λ production in pp collisions. *Chinese Physics C*, **2010**, 34, 1462-1464 2.2
- 7 Chiral Symmetry and the Nucleon-Nucleon Interaction **2011**, 317-343
- 6 quasibound states: decay and -atomic evidences. *Nuclear Physics A*, **2007**, 790, 340c-343c 1.3
- 5 Chiral quark cluster model description of isospin violation in the nuclear force. *Nuclear Physics A*, **2000**, 663-664, 699c-702c 1.3
- 4 Description of the (Z_c) Exotics States in a Quark Model Coupled Channel Calculation. *Springer Proceedings in Physics*, **2020**, 697-700 0.2
- 3 X(1859) Baryonium or something else? **2007**, 311-314
- 2 Strangeness production in $p \bar{p}$ collision **2011**, 291-299
- 1 Threshold effects in hadron spectrum: a new spectroscopy?. *EPJ Web of Conferences*, **2018**, 182, 02094 0.3