

David R. Entem

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8318812/publications.pdf>

Version: 2024-02-01

116
papers

5,180
citations

159573

30
h-index

82542

72
g-index

117
all docs

117
docs citations

117
times ranked

4615
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Accurate charge-dependent nucleon-nucleon potential at fourth order of chiral perturbation theory. Physical Review C, 2003, 68, . | 2.9 | 1,282 |
| 2 | Chiral effective field theory and nuclear forces. Physics Reports, 2011, 503, 1-75. | 25.6 | 1,209 |
| 3 | High-quality two-nucleon potentials up to fifth order of the chiral expansion. Physical Review C, 2017, 96, . | 2.9 | 238 |
| 4 | Accurate nucleon-nucleon potential based upon chiral perturbation theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 524, 93-98. | 4.1 | 192 |
| 5 | Chiral $\pi\pi$ exchange at fourth order and peripheral NN scattering. Physical Review C, 2002, 66, . | 2.9 | 151 |
| 6 | Peripheral nucleon-nucleon scattering at fifth order of chiral perturbation theory. Physical Review C, 2015, 91, . | 2.9 | 140 |
| 7 | $J^P C$ charm resonances. Physical Review D, 2008, 78, . | | |
| 8 | Coupled channel approach to the structure of the XYZ meson strong decays. Physical Review D, 2016, 93, . | 4.7 | 102 |
| 9 | Towards a model-independent low momentum nucleon-nucleon interaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 576, 265-272. | 4.1 | 86 |
| 10 | Bottomonium spectrum revisited. Physical Review D, 2016, 93, . | 4.7 | 85 |
| 11 | Renormalization of chiral two-pion exchange NN interactions: Momentum space versus coordinate space. Physical Review C, 2008, 77, . | 2.9 | 79 |
| 12 | CONSTITUENT QUARK MODEL DESCRIPTION OF CHARMONIUM PHENOMENOLOGY. International Journal of Modern Physics E, 2013, 22, 1330026. | 1.0 | 75 |
| 13 | Scaling of the $3P_0$ strength in heavy meson strong decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 715, 322-327. | 4.1 | 71 |
| 14 | Dominant contributions to the nucleon-nucleon interaction at sixth order of chiral perturbation theory. Physical Review C, 2015, 92, . | 2.9 | 69 |
| 15 | Chiral quark model of the NN system within a Lippmann-Schwinger resonating group method. Physical Review C, 2000, 62, . | 2.9 | 62 |
| 16 | Quark model description of the $3P_0$ strength in heavy meson strong decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 715, 322-327. | 4.1 | 54 |
| 17 | Nonperturbative renormalization of the chiral nucleon-nucleon interaction up to next-to-next-to-leading order. Physical Review C, 2013, 88, . | 2.9 | 54 |
| 18 | Molecular structures in the charmonium spectrum: the XYZ puzzle. Journal of Physics G: Nuclear and Particle Physics, 2013, 40, 065107. | 3.6 | 48 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Low-momentum nucleon-nucleon interactions and shell-model calculations. Physical Review C, 2007, 75, . | 2.9 | 43 |
| 20 | Molecular components in P -wave charmed-strange mesons. Physical Review D, 2016, 94, . | 4.7 | 42 |
| 21 | Canonical description of the new LHCb resonances. Physical Review D, 2016, 94, . | 4.7 | 42 |
| 22 | Is chiral symmetry restored in the excited meson spectrum?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 662, 33-36. | 4.1 | 41 |
| 23 | Charmonium resonances in the 3.9 GeV/c ² energy region and the X(3915)/X(3930) puzzle. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 778, 1-5. | 4.1 | 40 |
| 24 | Semileptonic B and B_s decays into orbitally excited charmed mesons. Physical Review D, 2011, 84, . | 4.7 | 35 |
| 25 | Chiral NN model and A puzzle. Physical Review C, 2002, 65, . | 2.9 | 34 |
| 26 | Towards a consistent approach to nuclear structure: EFT of two- and many-body forces. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1235-S1244. | 3.6 | 34 |
| 27 | The NN $\bar{\Lambda}$ interaction in a constituent quark model: Baryonium states and protonium level shifts. Physical Review C, 2006, 73, . | 2.9 | 33 |
| 28 | Charmed-strange meson spectrum: Old and new problems. Physical Review D, 2015, 91, . | 4.7 | 33 |
| 29 | The strange partner of the Z structures in a coupled-channels model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 818, 136382. | 4.1 | 33 |
| 30 | The Z_c structures in a coupled-channels model. European Physical Journal C, 2019, 79, 1. | 3.9 | 31 |
| 31 | Renormalization of the leading-order chiral nucleon-nucleon interaction and bulk properties of nuclear matter. Physical Review C, 2010, 81, . | 2.9 | 30 |
| 32 | Infinite-Cutoff Renormalization of the Chiral Nucleon-Nucleon Interaction up to N ³ LO. Few-Body Systems, 2013, 54, 2191-2205. | 1.5 | 30 |
| 33 | LHCb pentaquarks in constituent quark models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 764, 207-211. | 4.1 | 29 |
| 34 | Final state interaction effects in near threshold enhancement of the $p\bar{\Lambda}$ mass spectrum in B and B_s decays. Physical Review D, 2007, 75, . | 4.7 | 27 |
| 35 | Charmonium resonances in D and D_s decays. Physical Review D, 2011, 84, . | 4.7 | 27 |
| 36 | Charmonium resonances in D and D_s reactions around the $\bar{\Lambda}$ mass. Physical Review D, 2011, 84, . | 4.7 | 27 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Nuclear forces from chiral EFT: the unfinished business. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 064041. | 3.6 | 25 |
| 38 | Threshold effects in P -wave bottom-strange mesons. Physical Review D, 2017, 95, . | 4.7 | 25 |
| 39 | Nonlocal calculation for nonstrange dibaryons and tribaryons. Physical Review C, 2002, 65, . | 2.9 | 24 |
| 40 | Microscopic nuclear structure based upon a chiral NN potential. Physical Review C, 2002, 66, . | 2.9 | 24 |
| 41 | Calibrating the naïve Cornell model with NRQCD. European Physical Journal C, 2019, 79, 1. | 3.9 | 22 |
| 42 | Spectroscopy of B_c mesons and the possibility of finding exotic B_c -like structures. European Physical Journal C, 2020, 80, 1. | 3.9 | 21 |
| 43 | Strong charmonium decays in a microscopic model. Nuclear Physics A, 2013, 915, 125-141. | 1.5 | 20 |
| 44 | Puzzles in hadronic transitions of heavy quarkonium with two pion emission. Physical Review D, 2015, 91, . | 4.7 | 20 |
| 45 | Nucleon-Nucleon Scattering Up to N5LO in Chiral Effective Field Theory. Frontiers in Physics, 2020, 8, . | 2.1 | 16 |
| 46 | Nonleptonic $B \rightarrow \pi^+ \pi^0$ decays. Physical Review D, 2017, 95, 074011. | 4.7 | 15 |
| 47 | Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 498-504. | 4.1 | 15 |
| 48 | Renormalization approach to constituent quark models of quarkonium. Physical Review D, 2012, 85, . | 4.7 | 12 |
| 49 | The $D_0(2590)^+$ as the dressed B_c meson. Physical Review D, 2013, 87, . | 4.1 | 12 |
| 50 | Charge dependence and charge asymmetry of nuclear forces in chiral quark cluster models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 463, 153-158. | 4.1 | 11 |
| 51 | B_c decays into radially excited charmed mesons. Physical Review D, 2013, 87, . | 4.7 | 11 |
| 52 | One-loop contributions in the effective field theory for the $N \rightarrow \pi^+ N$ transition. Physical Review C, 2013, 87, . | 2.9 | 11 |
| 53 | Counting states and the Hadron Resonance Gas: Does $X(3872)$ count?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 678-683. | 4.1 | 11 |
| 54 | Nucleon-nucleon potentials from $\hat{\pi}$ -full chiral effective-field-theory and implications. Physical Review C, 2021, 104, . | 2.9 | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Hadronic molecules in the open charm and open bottom baryon spectrum. <i>Physical Review D</i> , 2014, 90, . | 4.7 | 9 |
| 56 | Coupling Hadron-Hadron Thresholds within a Chiral Quark Model Approach. <i>Symmetry</i> , 2021, 13, 279. | 2.2 | 9 |
| 57 | A chiral quark model and the spin observables in nucleon-nucleon scattering. <i>Nuclear Physics A</i> , 1996, 602, 308-326. | 1.5 | 8 |
| 58 | Two-nucleon system above pion threshold: Quark model study. <i>Physical Review C</i> , 2003, 67, . | 2.9 | 8 |
| 59 | Charmonium narrow resonances in the string breaking region. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2010, 37, 075010. <small><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msup><mml:mrow><mml:mi>D</mml:mi></mml:mrow><mml:mrow><mml:mo>âž</mml:mo></mml:mrow></mml:math></small> | 3.6 | 7 |
| 60 | <small><mml:math variant="normal">î</mml:mi></mml:math></small> molecular interpretation for the <small><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>X</mml:mi></mml:mrow><mml:mrow><mml:mi>c</mml:mi></mml:mrow></mml:math></small> | | |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Non-perturbative methods for NN singular interactions. European Physical Journal: Special Topics, 2021, 230, 1675-1689. | 2.6 | 3 |
| 74 | Does the $\hat{\epsilon}^{-1+\hat{\alpha}}$ counterpart of the X(3872) exist?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 829, 137083. | 4.1 | 3 |
| 75 | Recent advances in the theory of nuclear forces. Journal of Physics: Conference Series, 2005, 20, 77-82. | 0.4 | 2 |
| 76 | Strangeness production in $p\bar{p}$ collision. Hyperfine Interactions, 2012, 213, 71-79. | 0.5 | 2 |
| 77 | Higher order contributions to the weak $\hat{\epsilon}^{-1+\hat{\alpha}}$ counterpart of the X(3872) exist?. Nuclear Physics A, 2022, 1024, 102033. Higher order contributions to the weak $\hat{\epsilon}^{-1+\hat{\alpha}}$ counterpart of the X(3872) exist?. Nuclear Physics A, 2022, 1024, 102033. Higher order contributions to the weak $\hat{\epsilon}^{-1+\hat{\alpha}}$ counterpart of the X(3872) exist?. Nuclear Physics A, 2022, 1024, 102033. | 1.5 | 2 |
| 78 | Puzzles in quarkonium hadronic transitions with two pion emission. AIP Conference Proceedings, 2016, , . | 0.4 | 2 |
| 79 | Next-to-leading order effective field theory $\hat{\epsilon}^{-1+\hat{\alpha}}$ NN potential in coordinate space. Nuclear Physics A, 2016, 954, 213-241. | 1.5 | 2 |
| 80 | $\hat{\epsilon}^{-1+\hat{\alpha}}$ NN EFT potentials and hypertriton non-mesonic weak decay. Journal of Physics: Conference Series, 2018, 1024, 012033. | 0.4 | 2 |
| 81 | Renormalization of $\hat{\epsilon}^{-1+\hat{\alpha}}$ Chiral EFT: My Personal Mixed Feelings. Few-Body Systems, 2021, 62, 1. | 1.5 | 2 |
| 82 | The nuclear force problem: Are we seeing the end of the tunnel?. Nuclear Physics A, 2004, 737, 223-227. | 1.5 | 1 |
| 83 | CHARMONIUM RESONANCES IN e^+e^- ANNIHILATION CROSS SECTIONS AROUND THE $\tilde{\Upsilon}(4415)$ REGION. International Journal of Modern Physics A, 2011, 26, 573-575. | 1.5 | 1 |
| 84 | HEAVY FLAVOUR HADRONIC MOLECULES. International Journal of Modern Physics A, 2011, 26, 613-615. | 1.5 | 1 |
| 85 | The $\hat{\epsilon}^{-1+\hat{\alpha}}$ (2940) ⁺ as a D^*N Molecule in a Constituent Quark Model and a Possible $\hat{\epsilon}^{-1+\hat{\alpha}}$ (6248). Few-Body Systems, 2013, 54, 1101-1104. | 1.5 | 1 |
| 86 | Molecular components in $D^*s_0(2317)$ and $Ds_1(2460)$ mesons. EPJ Web of Conferences, 2016, 130, 02009. | 0.3 | 1 |
| 87 | Hadronic molecules in the heavy baryon spectrum. AIP Conference Proceedings, 2016, , . | 0.4 | 1 |
| 88 | Heavy mesons in the Quark Model. EPJ Web of Conferences, 2019, 199, 01012. | 0.3 | 1 |
| 89 | Unquenching the Quark Model in a Nonperturbative Scheme. Advances in High Energy Physics, 2019, 2019, 1-7. | 1.1 | 1 |
| 90 | CHIRAL SYMMETRY AND THE NUCLEON-NUCLEON INTERACTION: DEVELOPING AN ACCURATE NN POTENTIAL BASED UPON CHIRAL EFFECTIVE FIELD THEORY. , 2002, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | The charged Z_c and Z_b structures in a constituent quark model approach. SciPost Physics Proceedings, 2020, , . | 0.4 | 1 |
| 92 | Chiral quark cluster model description of isospin violation in the nuclear force. Nuclear Physics A, 2000, 663-664, 699c-702c. | 1.5 | 0 |
| 93 | quasibound states: decay and -atomic evidences. Nuclear Physics A, 2007, 790, 340c-343c. | 1.5 | 0 |
| 94 | $D_{s1}(2536)$ + decays and the structure of P -wave charmed strange mesons. Chinese Physics C, 2010, 34, 1408-1410. | 3.7 | 0 |
| 95 | $\bar{b}\bar{c}$ production in pp collisions. Chinese Physics C, 2010, 34, 1462-1464. | 3.7 | 0 |
| 96 | Charmonium states in the string breaking region. , 2010, , . | | 0 |
| 97 | The D_{s1} and its $D^* \rightarrow K$ decays. , 2010, , . | | 0 |
| 98 | Charmonium properties in a renormalization scheme. , 2011, , . | | 0 |
| 99 | Chiral Symmetry and the Nucleon-Nucleon Interaction. , 2011, , 317-343. | | 0 |
| 100 | Semileptonic B decays into orbitally excited charmed mesons. , 2012, , . | | 0 |
| 101 | The nature of the orbitally excited charmed-strange mesons through nonleptonic $B \rightarrow D^{(*)} D_{s1}^{(*)}$ decays. EPJ Web of Conferences, 2012, 37, 05003. | 0.3 | 0 |
| 102 | Molecular aspects of charm physics. , 2013, , . | | 0 |
| 103 | POSSIBLE MOLECULAR STRUCTURES IN THE HEAVY BARYON SPECTRUM. International Journal of Modern Physics Conference Series, 2014, 26, 1460123. | 0.7 | 0 |
| 104 | Non-mesonic weak decay of hypernuclei with effective field theory. Journal of Physics: Conference Series, 2014, 503, 012033. | 0.4 | 0 |
| 105 | Threshold effects in hadron spectrum: a new spectroscopy?. EPJ Web of Conferences, 2018, 182, 02094. | 0.3 | 0 |
| 106 | Z_c States in a Chiral Quark Model. , 2019, , . | | 0 |
| 107 | Strangeness production in $p \text{ ar } \{p\}$ collision. , 2011, , 291-299. | | 0 |
| 108 | The weak $\Delta S = 1$ ΛN interaction with effective field theory. , 2012, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | D^*N and B^*N molecules: the $\Lambda_c(2940)^+$ and the possible existence of the $\Lambda_b(6248)^+$. , 2013, , . | | 0 |
| 110 | The nucleon-nucleon interaction up to sixth order in the chiral expansion. , 2016, , . | | 0 |
| 111 | From J/ψ to LHCb pentaquarks. , 2017, , . | | 0 |
| 112 | Non-Mesonic Weak Decay of the Hypertriton with Effective Field Theory. , 2017, , . | | 0 |
| 113 | Cornell Model calibration with NRQCD at N^3LO . , 2019, , . | | 0 |
| 114 | Coupled-channel effects in heavy hadrons. , 2020, , . | | 0 |
| 115 | Description of the Z_c Exotics States in a Quark Model Coupled Channel Calculation. Springer Proceedings in Physics, 2020, , 697-700. | 0.2 | 0 |
| 116 | X(1859) Baryonium or something else?. , 2007, , 311-314. | | 0 |