

# James P Vary

## List of Publications by Year in descending order

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265  
papers

7,466  
citations

53660

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69108

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267  
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267  
docs citations

267  
times ranked

1675  
citing authors

#	ARTICLE	IF	CITATIONS
1	Light-front holography with chiral symmetry breaking. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 825, 136860.	1.5	15
2	Critical coupling for two-dimensional $\hat{T}^4$ theory in discretized light-cone quantization. Physical Review D, 2022, 105, .	1.6	2
3	Light mesons with one dynamical gluon on the light front. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 825, 136890.	1.5	25
4	Basis light-front quantization approach to photon. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 827, 137005.	1.5	10
5	Two-photon transitions of charmonia on the light front. Physical Review D, 2022, 105, .	1.6	7
6	$\hat{I}_{\pm}$ -Clustering in atomic nuclei from first principles with statistical learning and the Hoyle state character. Nature Communications, 2022, 13, 2234.	5.8	22
7	Natural orbitals for the <i>ab initio</i> no-core configuration interaction approach. Physical Review C, 2022, 105, .	1.1	9
8	All-charm tetraquark in front form dynamics. Physical Review D, 2022, 105, .	1.6	14
9	Angular momentum and generalized parton distributions for the proton with basis light-front quantization. Physical Review D, 2022, 105, .	1.6	14
10	Longitudinal dynamics for mesons on the light cone. Physical Review D, 2022, 105, .	1.6	6
11	Transverse structure of electron in momentum space in basis light-front quantization. Physical Review D, 2021, 103, .	1.6	9
12	Light-Front Field Theory on Current Quantum Computers. Entropy, 2021, 23, 597.	1.1	26
13	Light nuclei with semilocal momentum-space regularized chiral interactions up to third order. Physical Review C, 2021, 103, .	1.1	52
14	Simulating hadronic physics on noisy intermediate-scale quantum devices using basis light-front quantization. Physical Review A, 2021, 103, .	1.0	24
15	Daejeon16 interaction with contact-term corrections for heavy nuclear systems. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 085105.	1.4	2
16	Semileptonic decay of $B_c$ to $\hat{T}^2$ and $\hat{T}^2$ . Physical Review D, 2021, 104, .	1.6	2
17	Quantum simulation of nuclear inelastic scattering. Physical Review A, 2021, 104, .	1.0	18
18	Pion to photon transition form factors with basis light-front quantization. Physical Review D, 2021, 104, .	1.6	10

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19	Nucleon structure from basis light-front quantization. Physical Review D, 2021, 104, .	1.6	31
20	Ground-state properties of light $^4\text{He}$ self-conjugate nuclei in <i>ab initio</i> no-core Monte Carlo shell model calculations with nonlocal interactions. Physical Review C, 2021, 104, .	1.1	9
21	Generalized parton distributions and spin structures of light mesons from a light-front Hamiltonian approach. Physical Review D, 2021, 104, .	1.6	11
22	Ultrarelativistic quark-nucleus scattering in a light-front Hamiltonian approach. Physical Review D, 2020, 101, .	1.6	11
23	Parton distribution functions of heavy mesons on the light front. Physical Review D, 2020, 102, .	1.6	24
24	Heavy-light mesons on the light front. European Physical Journal C, 2020, 80, 1.	1.4	27
25	Proton structure from a light-front Hamiltonian. Physical Review D, 2020, 102, .	1.6	32
26	Improved description of light nuclei through chiral effective field theory at leading order. Physical Review C, 2020, 102, .	1.1	8
27	Light mesons within the basis light-front quantization framework. Physical Review C, 2020, 102, .	1.1	19
28	Benchmark neutrinoless double- $\beta$ decay matrix elements in a light nucleus. Physical Review C, 2020, 102, .	1.1	12
29	Pion and kaon parton distribution functions from basis light front quantization and QCD evolution. Physical Review D, 2020, 101, .	1.6	57
30	Basis light-front quantization for a chiral nucleon-pion Lagrangian. Physical Review C, 2020, 101, .	1.1	6
31	Probing <i>ab initio</i> emergence of nuclear rotation. European Physical Journal A, 2020, 56, 1.	1.0	15
32	White paper: from bound states to the continuum. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 123001.	1.4	38
33	Positronium on the light front. , 2020, , .		2
34	Recent progress in basis light-front quantization. , 2020, , .		2
35	Valence structures of light and strange mesons from the basis light-front quantization framework. , 2020, , .		1
36	Positronium: an illustration of nonperturbative renormalization in a basis light-front approach. , 2020, , .		5

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37	Three-dimensional imaging of proton in basis light-front quantization. , 2020, , .		0
38	Light meson parton distribution functions from basis light-front quantization and QCD evolution. , 2020, , .		2
39	Frame dependence of transition form factors in light-front dynamics. Physical Review D, 2019, 100, .	1.6	6
40	Description of Continuum Spectrum States of Light Nuclei in the Shell Model. Physics of Particles and Nuclei, 2019, 50, 537-543.	0.2	6
41	Heavy quarkonia production at energies available at the CERN Large Hadron Collider and future electron-ion colliding facilities using basis light-front quantization wave functions. Physical Review C, 2019, 100, .	1.1	11
42	Basis light front quantization for the charged light mesons with color singlet Nambu–Jona-Lasinio interactions. Physical Review C, 2019, 99, .	1.1	42
43	Deep learning: Extrapolation tool for <i>ab initio</i> nuclear theory. Physical Review C, 2019, 99, .	1.1	36
44	Parton Distribution Functions from a Light Front Hamiltonian and QCD Evolution for Light Mesons. Physical Review Letters, 2019, 122, 172001.	2.9	65
45	Form factors and generalized parton distributions of heavy quarkonia in basis light front quantization. Physical Review C, 2019, 99, .	1.1	18
46	Few- and many-nucleon systems with semilocal coordinate-space regularized chiral two- and three-body forces. Physical Review C, 2019, 99, .	1.1	68
47	Effective interactions in the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle s \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle d \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ shell. Physical Review C, 2019, 100, .		
48	Description of Continuum States within the No-Core Shell Model: Single-State HORSE Method. Physics of Atomic Nuclei, 2019, 82, 537-548.	0.1	4
49	Hadron Spectra, Decays and Scattering Properties Within Basis Light Front Quantization. Few-Body Systems, 2018, 59, 1.	0.7	7
50	Nucleon-deuteron scattering with the JISP16 potential. Physical Review C, 2018, 97, .	1.1	3
51	Frame dependence of form factors in light-front dynamics. Physical Review D, 2018, 97, .	1.6	13
52	Instant-Form and Light-Front Quantization of Field Theories. Few-Body Systems, 2018, 59, 1.	0.7	0
53	Accelerating nuclear configuration interaction calculations through a preconditioned block iterative eigensolver. Computer Physics Communications, 2018, 222, 1-13.	3.0	43
54	Radiative transitions between $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \text{form="prefix"} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle$ and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \hat{a}^\dagger \langle \text{mml:mo} \rangle \langle \text{mml:mo} \rangle \hat{a}^\dagger \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ heavy quarkonia on the light front. Physical Review D, 2018, 98, .	1.6	24

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55	scattering and resonances in $^6\text{Li}$ . Physical Review C, 2018, 98, .	1.1	18
56	Effective operators in two-nucleon systems. Physical Review C, 2018, 98, .	1.1	5
57	$B_6$ mesons and their properties on the light front. Physical Review D, 2018, 98, .	1.2	27
58	Challenges in Developing MPI Fault-Tolerant Fortran Applications. , 2018, , .		2
59	Tetraneutron resonance: Theory. AIP Conference Proceedings, 2018, , .	0.3	7
60	Perspectives on Nuclear Structure and Scattering with the Ab Initio No-Core Shell Model. , 2018, , .		3
61	Coulomb excitation of the deuteron in peripheral collisions with a heavy ion. Physical Review C, 2018, 97, .	1.1	8
62	Few-nucleon and many-nucleon systems with semilocal coordinate-space regularized chiral nucleon-nucleon forces. Physical Review C, 2018, 98, .	1.1	59
63	Title is missing!. , 2018, , .		0
64	Ab initio no-core solutions for $^6\text{Li}$ . Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 075103.	1.4	38
65	Microscopic Shell Model Calculations for sd-Shell Nuclei. , 2017, , .		1
66	Diffractive charmonium spectrum in high energy collisions in the basis light-front quantization approach. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 769, 477-484.	1.5	27
67	Quarkonium as a relativistic bound state on the light front. Physical Review D, 2017, 96, .	1.6	76
68	Trends and Progress in Nuclear and Hadron Physics: A Straight or Winding Road. Few-Body Systems, 2017, 58, 1.	0.7	9
69	Ab initio no-core properties of $^7\text{Li}$ and $^7\text{Be}$ with the JISP16 and chiral NNLO interactions. Physical Review C, 2017, 95, .	1.1	8
70	Description of resonant states in the shell model. Physics of Particles and Nuclei, 2017, 48, 84-89.	0.2	15
71	A High Performance Block Eigensolver for Nuclear Configuration Interaction Calculations. IEEE Transactions on Parallel and Distributed Systems, 2017, 28, 1550-1563.	4.0	11
72	Natural orbital description of the halo nucleus $^6\text{He}$ . Nuclear Science and Techniques/Hewuli, 2017, 28, 1.	1.3	17

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73	Charmonium spectrum and diffractive production in a light-front Hamiltonian approach. Nuclear and Particle Physics Proceedings, 2017, 289-290, 409-413.	0.2	1
74	Particle distribution in intense fields in a light-front Hamiltonian approach. Physical Review D, 2017, 95, .	1.6	9
75	Comparison of two Minkowski-space approaches to heavy quarkonia. European Physical Journal C, 2017, 77, 1.	1.4	15
76	The Performance and Scalability of the SHMEM and Corresponding MPI-3 Routines on a Cray XC30. , 2017, , .		4
77	Title is missing!. , 2017, , .		0
78	Title is missing!. , 2017, , .		0
79	Title is missing!. , 2017, , .		0
80	Shell model states in the continuum. Physical Review C, 2016, 94, .	1.1	33
81	Efficacy of the SU(3) scheme for ab initio large-scale calculations beyond the lightest nuclei. Computer Physics Communications, 2016, 207, 202-210.	3.0	34
82	<i>Ab initio</i> nuclear many-body perturbation calculations in the Hartree-Fock basis. Physical Review C, 2016, 94, .	1.1	28
83	Few-nucleon systems with state-of-the-art chiral nucleon-nucleon forces. Physical Review C, 2016, 93, .	1.1	106
84	Form factors and generalized parton distributions in basis light-front quantization. Physical Review C, 2016, 93, .	1.1	18
85	Prediction for a Four-Neutron Resonance. Physical Review Letters, 2016, 117, 182502.	2.9	62
86	Nonperturbative solution of scalar Yukawa model in two- and three-body Fock space truncations. Physical Review D, 2016, 94, .	1.6	7
87	Basis Light-Front Quantization: Recent Progress and Future Prospects. Few-Body Systems, 2016, 57, 695-702.	0.7	15
88	Light-Front Quantization of the Restricted Gauge Theory of QCD 2. Few-Body Systems, 2016, 57, 669-673.	0.7	0
89	Heavy quarkonium in a holographic basis. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 758, 118-124.	1.5	92
90	Light-Front Quantization of the Vector Schwinger Model with a Photon Mass Term in Faddeevian Regularization. Few-Body Systems, 2016, 57, 573-577.	0.7	0

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91	Hamiltonian, Path Integral and BRST Formulations of the Vector Schwinger Model with a Photon Mass Term with Faddeevian Regularization. International Journal of Theoretical Physics, 2016, 55, 338-360.	0.5	7
92	Ab initio effective interactions for valence nucleons. Physical Review C, 2015, 91, .	1.1	44
93	Statistical error propagation in ab initio no-core full configuration calculations of light nuclei. Physical Review C, 2015, 92, .	1.1	13
94	Basis light-front quantization approach to positronium. Physical Review D, 2015, 91, .	1.6	62
95	Vector Schwinger Model with a Photon Mass Term with Faddeevian Regularization. Few-Body Systems, 2015, 56, 559-563.	0.7	2
96	Performance analysis of distributed symmetric sparse matrix vector multiplication algorithm for multi-core architectures. Concurrency Computation Practice and Experience, 2015, 27, 5019-5036.	1.4	4
97	Hamiltonian, path integral and BRST formulations of large $N$ scalar QCD $_{2}^{2}$ on the light-front and spontaneous symmetry breaking. European Physical Journal C, 2015, 75, 1.	1.4	5
98	Emergence of Simple Patterns in Complex Atomic Nuclei from First Principles. Journal of Physics: Conference Series, 2015, 639, 012008.	0.3	0
99	Non-perturbative Calculation of the Positronium Mass Spectrum in Basis Light-Front Quantization. Few-Body Systems, 2015, 56, 489-494.	0.7	5
100	Emergence of rotational bands in ab initio no-core configuration interaction calculations of the Be isotopes. Physical Review C, 2015, 91, .	1.1	40
101	Nucleon-nucleon scattering with the complex scaling method and realistic interactions. Physical Review C, 2015, 91, .	1.1	8
102	Electron-scattering form factors for $^6\text{Li}$ in the ab initio symmetry-guided framework. Physical Review C, 2015, 91, .	1.1	20
103	Non-perturbative Calculation of the Scalar Yukawa Theory in Four-Body Truncation. Few-Body Systems, 2015, 56, 495-501.	0.7	5
104	Collective rotation from ab initio theory. International Journal of Modern Physics E, 2015, 24, 1541002.	0.4	24
105	Deriving the nuclear shell model from first principles. Journal of Physics: Conference Series, 2015, 580, 012003.	0.3	0
106	Ab initio no core full configuration approach for light nuclei. International Journal of Modern Physics E, 2014, 23, 1461004.	0.4	2
107	Low-energy neutron-deuteron reactions with $N^3\text{LO}$ chiral forces. European Physical Journal A, 2014, 50, 1.	1.0	45
108	Properties with evolved chiral three-nucleon interactions. Physical Review C, 2014, 90, .	1.1	23

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109	Nonperturbative Quantum Field Evolution. Few-Body Systems, 2014, 55, 555-560.	0.7	0
110	Improving the scalability of a symmetric iterative eigensolver for multi-core platforms. Concurrency Computation Practice and Experience, 2014, 26, 2631-2651.	1.4	62
111	Electron $g-2$ in Light-front Quantization. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 737, 65-69.	1.5	46
112	Halo nuclei ${}^6\text{He}$ and ${}^8\text{He}$ with the Coulomb-Sturmian basis. Physical Review C, 2014, 90, .	1.1	26
113	Light-Front BRST Quantization of the Vector Schwinger Model with a Photon Mass Term. International Journal of Theoretical Physics, 2014, 53, 4230-4243.	0.5	2
114	Quantum Hamiltonian Physics with Supercomputers. Nuclear Physics, Section B, Proceedings Supplements, 2014, 251-252, 155-164.	0.5	3
115	Applications of Basis Light-Front Quantization to QED. Nuclear Physics, Section B, Proceedings Supplements, 2014, 251-252, 10-15.	0.5	8
116	Ab initio no core full configuration approach for light nuclei. , 2014, , .		0
117	Benchmark of the No-Core Monte Carlo Shell Model in Light Nuclei. Few-Body Systems, 2013, 54, 1371-1375.	0.7	2
118	Collective Modes in Light Nuclei from First Principles. Physical Review Letters, 2013, 111, 252501.	2.9	103
119	Ab initio no core shell model. Progress in Particle and Nuclear Physics, 2013, 69, 131-181.	5.6	544
120	Non-perturbative quantum time evolution on the light-front. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 856-860.	1.5	27
121	Structure of ${}^8\text{Li}$ nuclei with two- plus three-nucleon interactions from chiral effective field theory. Physical Review C, 2013, 87, .	1.1	33
122	Leveraging GPUs in Ab Initio Nuclear Physics Calculations. , 2013, , .		2
123	Scattering in time-dependent basis light-front quantization. Physical Review D, 2013, 88, .	1.6	40
124	Structure of ${}^p$ -shell nuclei using three-nucleon interactions evolved with the similarity renormalization group. Physical Review C, 2013, 87, .	1.1	67
125	<i>AB INITIO</i> NUCLEAR STRUCTURE CALCULATIONS OF ${}^p$ -SHELL NUCLEI WITH JISP16. International Journal of Modern Physics E, 2013, 22, 1330016.	0.4	52
126	No Core CI calculations for light nuclei with chiral 2- and 3-body forces. Journal of Physics: Conference Series, 2013, 454, 012063.	0.3	11



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127	Recent development of Monte Carlo shell model and its application to no-core calculations. Journal of Physics: Conference Series, 2013, 454, 012066.	0.3	4
128	Light-Front Hamiltonian, Path Integral and BRST Formulations of the Chern-Simons-Higgs Theory in the Broken Symmetry Phase. Journal of Modern Physics, 2013, 04, 38-48.	0.3	1
129	SYMMETRY-ADAPTED NO-CORE SHELL MODEL FOR LIGHT NUCLEI. , 2013, , .		0
130	Lithium isotopes within the <i>ab initio</i> no-core full configuration approach. Physical Review C, 2012, 86, .	1.1	56
131	Convergence properties of <i>ab initio</i> calculations of light nuclei in a harmonic oscillator basis. Physical Review C, 2012, 86, .	1.1	95
132	Coulomb-Sturmian basis for the nuclear many-body problem. Physical Review C, 2012, 86, .	1.1	50
133	Benchmarks of the full configuration interaction, Monte Carlo shell model, and no-core full configuration methods. Physical Review C, 2012, 86, .	1.1	75
134	The no-core shell model with general radial bases. Journal of Physics: Conference Series, 2012, 403, 012014.	0.3	3
135	Large-scale <i>ab initio</i> configuration interaction calculations for light nuclei. Journal of Physics: Conference Series, 2012, 403, 012019.	0.3	20
136	Efficient Shared-array Accesses in Ab Initio Nuclear Structure Calculations on Multicore Architectures. Procedia Computer Science, 2012, 9, 256-265.	1.2	4
137	An Out-of-Core Eigensolver on SSD-equipped Clusters. , 2012, , .		8
138	An Out-of-Core Dataflow Middleware to Reduce the Cost of Large Scale Iterative Solvers. , 2012, , .		11
139	Web Service and Workflow Abstractions to Large Scale Nuclear Physics Calculations. , 2012, , .		2
140	Oscillator basis, scattering and nuclear structure. Journal of Physics: Conference Series, 2012, 403, 012021.	0.3	3
141	Electron Anomalous Magnetic Moment in Basis Light-Front Quantization Approach. Few-Body Systems, 2012, 52, 339-344.	0.7	5
142	Hamiltonian Light-Front Field Theory: Recent Progress and Tantalizing Prospects. Few-Body Systems, 2012, 52, 331-338.	0.7	5
143	Phase-equivalent transformation which does not affect bound state properties and its manifestation in many-body systems. Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 496-501.	0.1	1
144	On Reducing I/O Overheads in Large-Scale Invariant Subspace Projections. Lecture Notes in Computer Science, 2012, , 305-314.	1.0	1

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145	Ab initio No Core Shell Model. Nuclear Physics News, 2011, 21, 5-12.	0.1	2
146	Large-scale parallel null space calculation for nuclear configuration interaction. , 2011, , .		4
147	Light nuclei in ab initio approach with realistic inverse scattering NN-interaction. Bulletin of the Russian Academy of Sciences: Physics, 2011, 75, 463-467.	0.1	2
148	Origin of the Anomalous Long Lifetime of $^{14}\text{C}$ . Physical Review Letters, 2011, 106, 202502.	2.9	95
149	Testing the density matrix expansion against ab initio calculations of trapped neutron drops. Physical Review C, 2011, 84, .	1.1	44
150	Dynamic Adaptations in ab-initio Nuclear Physics Calculations on Multicore Computer Architectures. , 2011, , .		7
151	Electron in a Transverse Harmonic Cavity. Physical Review Letters, 2011, 106, 061603.	2.9	44
152	Benchmark calculation of no-core Monte Carlo shell model in light nuclei. , 2011, , .		11
153	Further development of realistic JISP16 NN interaction. Bulletin of the Russian Academy of Sciences: Physics, 2010, 74, 538-541.	0.1	0
154	Ab-initio Hamiltonian approach to light nuclei and to quantum field theory. Pramana - Journal of Physics, 2010, 75, 39-49.	0.9	1
155	Scaling of ab-initio nuclear physics calculations on multicore computer architectures. Procedia Computer Science, 2010, 1, 97-106.	1.2	80
156	Nucleon-nucleon scattering in a harmonic potential. Physical Review C, 2010, 82, .	1.1	40
157	Hamiltonian light-front field theory in a basis function approach. Physical Review C, 2010, 81, .	1.1	131
158	Ab initio nuclear structure simulations: The speculative $F^{14}\text{C}$ nucleus. Physical Review C, 2010, 81, .	1.1	62
159	Inverse scattering $J$ -matrix approach to nucleon-nucleus scattering and the shell model. Physical Review C, 2009, 79, .	1.1	22
160	Ab initio no-core full configuration calculations of light nuclei. Physical Review C, 2009, 79, .	1.1	181
161	Effective operators from exact many-body renormalization. Physical Review C, 2009, 80, .	1.1	31
162	The Ab Initio No-core Shell Model. Few-Body Systems, 2009, 45, 111-114.	0.7	1

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163	Resonant parameters of $^5\text{He}$ and $^5\text{Li}$ states and nucleon- $^4\text{He}$ scattering. Bulletin of the Russian Academy of Sciences: Physics, 2009, 73, 745-749.	0.1	0
164	<i>Ab initio</i> nuclear structure – the large sparse matrix eigenvalue problem. Journal of Physics: Conference Series, 2009, 180, 012083.	0.3	43
165	Dominance of Low Spin and High Deformation in <i>Ab Initio</i> Approaches to the Structure of Light Nuclei. , 2009, , .		2
166	Significance of Symplectic Symmetry in Many-nucleon Dynamics. , 2009, , .		0
167	Spectroscopy of light nuclei with realistic NN interaction JISP. Physics of Atomic Nuclei, 2008, 71, 1232-1238.	0.1	5
168	Charge-dependent NN interaction in the J-matrix inverse scattering approach. Bulletin of the Russian Academy of Sciences: Physics, 2008, 72, 806-810.	0.1	0
169	Accelerating configuration interaction calculations for nuclear structure. , 2008, , .		23
170	SYMPLECTIC NO-CORE SHELL MODEL. International Journal of Modern Physics E, 2008, 17, 133-145.	0.4	1
171	<i>Ab initio</i> symplectic no-core shell model. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 123101.	1.4	64
172	<i>AB INITIO</i> NO CORE METHODS: APPLICATIONS TO LIGHT NUCLEI. International Journal of Modern Physics E, 2008, 17, 109-121.	0.4	1
173	Elements of the <i>ab initio</i> No Core Shell Model. AIP Conference Proceedings, 2008, , .	0.3	0
174	Effective Interactions from No Core Shell Model. , 2008, , .		0
175	Converging sequences in the <i>ab initio</i> no-core shell model. Physical Review C, 2008, 77, .	1.1	43
176	<i>Ab-initio</i> shell model with a core. Physical Review C, 2008, 78, .	1.1	66
177	Integration of <i>Ab Initio</i> Nuclear Physics Calculations with Optimization Techniques. Lecture Notes in Computer Science, 2008, , 833-842.	1.0	9
178	ROLE OF DEFORMED SYMPLECTIC CONFIGURATIONS in <i>AB INITIO</i> NO-CORE SHELL MODEL RESULTS. , 2008, , .		2
179	SYMPLECTIC NO-CORE SHELL MODEL. , 2008, , .		0
180	<i>AB INITIO</i> AND <i>AB INITIO</i> NO CORE SHELL MODEL. , 2008, , .		0

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181	DEVELOPING NEW MANY-BODY APPROACHES FOR NO-CORE SHELL MODEL CALCULATIONS. , 2008, , .		0
182	Dominant role of symplectic symmetry in <i>ab initio</i> no-core shell model results for light nuclei. Physical Review C, 2007, 76, .	1.1	34
183	Hadron optics in three-dimensional invariant coordinate space from deeply virtual Compton scattering. Physical Review D, 2007, 75, .	1.6	48
184	Evidence for Symplectic Symmetry in <i>Ab Initio</i> No-Core Shell Model Results for Light Nuclei. Physical Review Letters, 2007, 98, 162503.	2.9	86
185	Structure of $A$ with Two- Plus Three-Nucleon Interactions from Chiral Effective Field Theory. Physical Review Letters, 2007, 99, 042501.	2.9	307
186	Effective theory for trapped few-fermion systems. Physical Review A, 2007, 76, .	1.0	71
187	Nonlocal nucleon-nucleon interaction JISP. Bulletin of the Russian Academy of Sciences: Physics, 2007, 71, 754-763.	0.1	1
188	Nonlocal inverse-scattering nucleon-nucleon interaction and spectra of s-and p-shell nuclei. Bulletin of the Russian Academy of Sciences: Physics, 2007, 71, 764-768.	0.1	0
189	NO-CORE SHELL MODEL FOR NUCLEAR STRUCTURE AND REACTIONS. , 2007, , .		0
190	FERMION SYSTEMS WITH FUZZY SYMMETRIES: (LEVERAGING THE KNOWN TO UNDERSTAND THE UNKNOWN). , 2007, , .		0
191	From non-Hermitian effective operators to large-scale no-core shell model calculations for light nuclei. Journal of Physics A, 2006, 39, 9983-9992.	1.6	6
192	Gamow-Teller Strengths in the $A=14$ Multiplet: A Challenge to the Shell Model. Physical Review Letters, 2006, 97, 062502.	2.9	40
193	Spectra and binding energy predictions of chiral interactions for $Li^7$ . Physical Review C, 2006, 73, .	1.1	118
194	Underlying symmetries of realistic interactions and the nuclear many-body problem. Physical Review C, 2006, 73, .	1.1	14
195	Long- and short-range correlations in the <i>ab-initio</i> no-core shell model. Physical Review C, 2006, 73, .	1.1	23
196	<i>Ab initio</i> results for the broken phase of scalar light front field theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 617, 92-98.	1.5	27
197	Effective operators in the NCSM formalism. European Physical Journal A, 2005, 25, 489-490.	1.0	1
198	<i>Ab initio</i> No-Core Shell Model --Recent results and future prospects. European Physical Journal A, 2005, 25, 475-480.	1.0	23

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