

Karol Kowalski

List of Publications by Year in descending order

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133
papers

12,152
citations

66315

42
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30058

103
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134
all docs

134
docs citations

134
times ranked

12489
citing authors

#	ARTICLE	IF	CITATIONS
1	NWChem: A comprehensive and scalable open-source solution for large scale molecular simulations. <i>Computer Physics Communications</i> , 2010, 181, 1477-1489.	3.0	4,740
2	Recent developments in the general atomic and molecular electronic structure system. <i>Journal of Chemical Physics</i> , 2020, 152, 154102.	1.2	734
3	Efficient computer implementation of the renormalized coupled-cluster methods: The R-CCSD[T], R-CCSD(T), CR-CCSD[T], and CR-CCSD(T) approaches. <i>Computer Physics Communications</i> , 2002, 149, 71-96.	3.0	443
4	NWChem: Past, present, and future. <i>Journal of Chemical Physics</i> , 2020, 152, 184102.	1.2	425
5	The method of moments of coupled-cluster equations and the renormalized CCSD[T], CCSD(T), CCSD(TQ), and CCSDT(Q) approaches. <i>Journal of Chemical Physics</i> , 2000, 113, 18-35.	1.2	393
6	New coupled-cluster methods with singles, doubles, and noniterative triples for high accuracy calculations of excited electronic states. <i>Journal of Chemical Physics</i> , 2004, 120, 1715-1738.	1.2	301
7	The active-space equation-of-motion coupled-cluster methods for excited electronic states: Full EOMCCSDt. <i>Journal of Chemical Physics</i> , 2001, 115, 643-651.	1.2	261
8	Recent advances in electronic structure theory: Method of moments of coupled-cluster equations and renormalized coupled-cluster approaches. <i>International Reviews in Physical Chemistry</i> , 2002, 21, 527-655.	0.9	258
9	Exploiting chemistry and molecular systems for quantum information science. <i>Nature Reviews Chemistry</i> , 2020, 4, 490-504.	13.8	247
10	Renormalized CCSD(T) and CCSD(TQ) approaches: Dissociation of the N ₂ triple bond. <i>Journal of Chemical Physics</i> , 2000, 113, 5644-5652.	1.2	207
11	Method of moments of coupled-cluster equations: a new formalism for designing accurate electronic structure methods for ground and excited states. <i>Theoretical Chemistry Accounts</i> , 2004, 112, 349-393.	0.5	184
12	The active-space equation-of-motion coupled-cluster methods for excited electronic states: The EOMCCSDt approach. <i>Journal of Chemical Physics</i> , 2000, 113, 8490-8502.	1.2	137
13	Excited-state potential energy curves of CH ⁺ : a comparison of the EOMCCSDt and full EOMCCSDT results. <i>Chemical Physics Letters</i> , 2001, 347, 237-246.	1.2	120
14	Coupled Cluster Calculations of Ground and Excited States of Nuclei. <i>Physical Review Letters</i> , 2004, 92, 132501.	2.9	119
15	Extension of renormalized coupled-cluster methods including triple excitations to excited electronic states of open-shell molecules. <i>Journal of Chemical Physics</i> , 2005, 122, 214107.	1.2	113
16	New type of noniterative energy corrections for excited electronic states: Extension of the method of moments of coupled-cluster equations to the equation-of-motion coupled-cluster formalism. <i>Journal of Chemical Physics</i> , 2001, 115, 2966-2978.	1.2	107
17	Ab-Initio Coupled-Cluster Study of O ₁₆ . <i>Physical Review Letters</i> , 2005, 94, 212501.	2.9	100
18	Can ordinary single-reference coupled-cluster methods describe the potential energy curve of N ₂ ? The renormalized CCSDT(Q) study. <i>Chemical Physics Letters</i> , 2001, 344, 176-184.	1.2	97

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19	Extensive generalization of renormalized coupled-cluster methods. <i>Journal of Chemical Physics</i> , 2005, 122, 074107.	1.2	96
20	Complete set of solutions of multireference coupled-cluster equations: The state-universal formalism. <i>Physical Review A</i> , 2000, 61, .	1.0	87
21	Utilizing high performance computing for chemistry: parallel computational chemistry. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 6896.	1.3	84
22	Excited-State Studies of Polyacenes: A Comparative Picture Using EOMCCSD, CR-EOMCCSD(T), Range-Separated (LR/RT)-TDDFT, TD-PM3, and TD-ZINDO. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 3686-3693.	2.3	84
23	Accurate dipole polarizabilities for water clusters $n=2\text{--}12$ at the coupled-cluster level of theory and benchmarking of various density functionals. <i>Journal of Chemical Physics</i> , 2009, 131, 214103.	1.2	83
24	Extension of the method of moments of coupled-cluster equations to a multireference wave operator formalism. <i>Computational and Theoretical Chemistry</i> , 2001, 547, 191-208.	1.5	82
25	Extension of the method of moments of coupled-cluster equations to excited states: The triples and quadruples corrections to the equation-of-motion coupled-cluster singles and doubles energies. <i>Journal of Chemical Physics</i> , 2002, 116, 7411-7423.	1.2	81
26	In Search of the Relationship between Multiple Solutions Characterizing Coupled-Cluster Theories. <i>Computational Chemistry - Reviews of Current Trends</i> , 2000, , 1-104.	0.4	75
27	Charge-Transfer Versus Charge-Transfer-Like Excitations Revisited. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 3305-3320.	2.3	75
28	GPU-Based Implementations of the Noniterative Regularized-CCSD(T) Corrections: Applications to Strongly Correlated Systems. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 1316-1327.	2.3	72
29	Hybrid approach for free energy calculations with high-level methods: Application to the SN2 reaction of CHCl_3 and OH^{\ominus} in water. <i>Journal of Chemical Physics</i> , 2007, 127, 051102.	1.2	70
30	Modeling Excited States in TiO_2 Nanoparticles: On the Accuracy of a TD-DFT Based Description. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 1189-1199.	2.3	63
31	Comparison of low-order multireference many-body perturbation theories. <i>Journal of Chemical Physics</i> , 2005, 122, 134105.	1.2	62
32	Electronic Structure and Stability of $[\text{B}_{12}\text{X}_{12}]^{2+}$ ($\text{X} = \text{F}, \text{At}$): A Combined Photoelectron Spectroscopic and Theoretical Study. <i>Journal of the American Chemical Society</i> , 2017, 139, 14749-14756.	6.6	60
33	Active-space coupled-cluster study of electronic states of Be_3 . <i>Journal of Chemical Physics</i> , 2005, 123, 074319.	1.2	59
34	Active-space completely-renormalized equation-of-motion coupled-cluster formalism: Excited-state studies of green fluorescent protein, free-base porphyrin, and oligoporphyrin dimer. <i>Journal of Chemical Physics</i> , 2010, 132, 154103.	1.2	59
35	New classes of non-iterative energy corrections to multi-reference coupled-cluster energies. <i>Molecular Physics</i> , 2004, 102, 2425-2449.	0.8	58
36	Downfolding of many-body Hamiltonians using active-space models: Extension of the sub-system embedding sub-algebras approach to unitary coupled cluster formalisms. <i>Journal of Chemical Physics</i> , 2019, 151, 014107.	1.2	57

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37	Can ordinary single-reference coupled-cluster methods describe potential energy surfaces with nearly spectroscopic accuracy? The renormalized coupled-cluster study of the vibrational spectrum of HF. <i>Journal of Chemical Physics</i> , 2001, 115, 5796-5804.	1.2	53
38	Automated derivation and parallel computer implementation of renormalized and active-space coupled-cluster methods. <i>International Journal of Quantum Chemistry</i> , 2006, 106, 79-97.	1.0	53
39	Hybrid coupled cluster and molecular dynamics approach: Application to the excitation spectrum of cytosine in the native DNA environment. <i>Journal of Chemical Physics</i> , 2006, 125, 211101.	1.2	51
40	Resource-Efficient Chemistry on Quantum Computers with the Variational Quantum Eigensolver and the Double Unitary Coupled-Cluster Approach. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 6165-6175.	2.3	50
41	Dynamic polarizabilities of polyaromatic hydrocarbons using coupled-cluster linear response theory. <i>Journal of Chemical Physics</i> , 2007, 127, 144105.	1.2	49
42	Large-scale parallel calculations with combined coupled cluster and molecular mechanics formalism: Excitation energies of zinc porphyrin in aqueous solution. <i>Chemical Physics Letters</i> , 2008, 458, 205-209.	1.2	46
43	Exactness of Two-Body Cluster Expansions in Many-Body Quantum Theory. <i>Physical Review Letters</i> , 2003, 90, 113001.	2.9	43
44	Coupled cluster calculations for static and dynamic polarizabilities of C60. <i>Journal of Chemical Physics</i> , 2008, 129, 226101.	1.2	43
45	Communication: Application of state-specific multireference coupled cluster methods to core-level excitations. <i>Journal of Chemical Physics</i> , 2012, 137, 171101.	1.2	42
46	Coupled cluster Green function: Model involving single and double excitations. <i>Journal of Chemical Physics</i> , 2016, 144, 144101.	1.2	42
47	Highly Efficient and Scalable Compound Decomposition of Two-Electron Integral Tensor and Its Application in Coupled Cluster Calculations. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 4179-4192.	2.3	41
48	From NWChem to NWChemEx: Evolving with the Computational Chemistry Landscape. <i>Chemical Reviews</i> , 2021, 121, 4962-4998.	23.0	39
49	Complete set of solutions of the generalized Bloch equation. <i>International Journal of Quantum Chemistry</i> , 2000, 80, 757-781.	1.0	38
50	Noniterative Multireference Coupled Cluster Methods on Heterogeneous CPU-GPU Systems. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 1949-1957.	2.3	37
51	Coupled-cluster representation of Green function employing modified spectral resolutions of similarity transformed Hamiltonians. <i>Journal of Chemical Physics</i> , 2014, 141, 094102.	1.2	35
52	Renormalized coupled-cluster calculations of reactive potential energy surfaces: A comparison of the CCSD(T), renormalized CCSD(T), and full configuration interaction results for the collinear BeFH system. <i>Journal of Chemical Physics</i> , 2002, 117, 3617-3624.	1.2	34
53	Describing Excited State Relaxation and Localization in TiO ₂ Nanoparticles Using TD-DFT. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 5538-5548.	2.3	34
54	Properties of coupled-cluster equations originating in excitation sub-algebras. <i>Journal of Chemical Physics</i> , 2018, 148, .	1.2	34

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55	Optimizing tensor contraction expressions for hybrid CPU-GPU execution. Cluster Computing, 2013, 16, 131-155.	3.5	32
56	Green's Function Coupled-Cluster Approach: Simulating Photoelectron Spectra for Realistic Molecular Systems. Journal of Chemical Theory and Computation, 2018, 14, 4335-4352.	2.3	32
57	Optimization of the Coupled Cluster Implementation in NWChem on Petascale Parallel Architectures. Journal of Chemical Theory and Computation, 2014, 10, 4307-4316.	2.3	31
58	Method of moments of coupled-cluster equations: The quasivariational and quadratic approximations. Journal of Chemical Physics, 2003, 119, 2951-2962.	1.2	29
59	Implementation of the locally renormalized CCSD(T) approaches for arbitrary reference function. Journal of Chemical Physics, 2005, 123, 014102.	1.2	29
60	Physical and mathematical content of coupled-cluster equations. IV. Impact of approximations to the cluster operator on the structure of solutions. Journal of Chemical Physics, 1999, 111, 2952-2959.	1.2	27
61	Method of Moments of Coupled-Cluster Equations: A New Theoretical Framework for Designing "Black-Box" Approaches for Molecular Potential Energy Surfaces. ACS Symposium Series, 2002, , 31-64.	0.5	26
62	Visible Light Absorption of N-Doped TiO ₂ Rutile Using (LR/RT)-TDDFT and Active Space EOMCCSD Calculations. Journal of Physical Chemistry Letters, 2011, 2, 2696-2701.	2.1	26
63	A universal state-selective approach to multireference coupled-cluster non-iterative corrections. Journal of Chemical Physics, 2011, 134, 194107.	1.2	26
64	Parallel Implementation of Multireference Coupled-Cluster Theories Based on the Reference-Level Parallelism. Journal of Chemical Theory and Computation, 2012, 8, 487-497.	2.3	25
65	Coupled-cluster Green's function: Analysis of properties originating in the exponential parametrization of the ground-state wave function. Physical Review A, 2016, 94, .	1.0	25
66	Quantum simulations of excited states with active-space downfolded Hamiltonians. Journal of Chemical Physics, 2019, 151, 234114.	1.2	25
67	Sub-system quantum dynamics using coupled cluster downfolding techniques. Journal of Chemical Physics, 2020, 152, 244127.	1.2	25
68	Equation of motion coupled-cluster cumulant approach for intrinsic losses in x-ray spectra. Journal of Chemical Physics, 2020, 152, 174113.	1.2	25
69	Physical and mathematical content of coupled-cluster equations: Correspondence between coupled-cluster and configuration-interaction solutions. Journal of Chemical Physics, 1999, 110, 3714-3729.	1.2	24
70	Scalable implementations of accurate excited-state coupled cluster theories. , 2011, , .		24
71	Benchmarking the Fundamental Electronic Properties of small TiO ₂ Nanoclusters by <i>CW</i> and Coupled Cluster Theory Calculations. Journal of Chemical Theory and Computation, 2017, 13, 3814-3828.	2.3	24
72	Physical and mathematical content of coupled-cluster equations. II. On the origin of irregular solutions and their elimination via symmetry adaptation. Journal of Chemical Physics, 1999, 110, 9345-9352.	1.2	22

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73	Role of Many-Body Effects in Describing Low-Lying Excited States of π -Conjugated Chromophores: High-Level Equation-of-Motion Coupled-Cluster Studies of Fused Porphyrin Systems. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 2200-2208.	2.3	22
74	Massively parallel implementation of the multireference Brillouin-Wigner CCSD method. <i>Chemical Physics Letters</i> , 2011, 514, 347-351.	1.2	22
75	Efficient Implementation of Many-Body Quantum Chemical Methods on the Intel Xeon Phi Coprocessor. , 2014, , .		22
76	Universal state-selective corrections to multi-reference coupled-cluster theories with single and double excitations. <i>Journal of Chemical Physics</i> , 2012, 136, 124102.	1.2	21
77	Physical and mathematical content of coupled-cluster equations. III. Model studies of dissociation processes for various reference states. <i>Journal of Chemical Physics</i> , 1999, 111, 2940-2951.	1.2	20
78	Implementation of the multireference Brillouin-Wigner and Mukherjee's coupled cluster methods with non-iterative triple excitations utilizing reference-level parallelism. <i>Journal of Chemical Physics</i> , 2012, 137, 094112.	1.2	19
79	Real-Time Coupled-Cluster Approach for the Cumulant Green's Function. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 6983-6992.	2.3	19
80	Multiple solutions of the single-reference coupled-cluster equations. I. H4 model revisited. <i>International Journal of Quantum Chemistry</i> , 1994, 50, 353-367.	1.0	18
81	Approximate coupled-cluster methods employing split cluster amplitudes: Implementation of an almost-linear coupled-cluster formalism. <i>Journal of Chemical Physics</i> , 1998, 109, 6255-6263.	1.2	18
82	Multiple solutions of the single-reference coupled-cluster equations. II. Alternative reference states. <i>International Journal of Quantum Chemistry</i> , 1995, 53, 501-514.	1.0	17
83	Approximate Green's Function Coupled Cluster Method Employing Effective Dimension Reduction. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 3185-3196.	2.3	17
84	Quantum simulations employing connected moments expansions. <i>Journal of Chemical Physics</i> , 2020, 153, 201102.	1.2	17
85	Dimensionality reduction of the many-body problem using coupled-cluster subsystem flow equations: Classical and quantum computing perspective. <i>Physical Review A</i> , 2021, 104, .	1.0	17
86	Equation of motion coupled cluster methods for electron attachment and ionization potential in fullerenes C ₆₀ and C ₇₀ . <i>Journal of Chemical Physics</i> , 2014, 141, 074304.	1.2	16
87	Properties of advanced coupled-cluster Green's function. <i>Molecular Physics</i> , 2018, 116, 561-569.	0.8	16
88	Toward Quantum Computing for High-Energy Excited States in Molecular Systems: Quantum Phase Estimations of Core-Level States. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 201-210.	2.3	16
89	Towards large-scale calculations with State-Specific Multireference Coupled Cluster methods: Studies on dodecane, naphthynes, and polycarbenes. <i>Chemical Physics Letters</i> , 2012, 542, 128-133.	1.2	13
90	Coupled cluster calculations on TiO ₂ nanoclusters. <i>Journal of Chemical Physics</i> , 2013, 139, 064313.	1.2	13

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91	Theoretical studies of the global minima and polarizabilities of small lithium clusters. <i>Chemical Physics Letters</i> , 2016, 644, 235-242.	1.2	13
92	Equation of motion coupled cluster methods for electron attachment and ionization potential in polyacenes. <i>Chemical Physics Letters</i> , 2015, 641, 146-152.	1.2	12
93	Linear response coupled cluster singles and doubles approach with modified spectral resolution of the similarity transformed Hamiltonian. <i>Journal of Chemical Physics</i> , 2007, 127, 164105.	1.2	11
94	Toward Enabling Large-Scale Open-Shell Equation-of-Motion Coupled Cluster Calculations: Triplet States of β -Carotene. <i>Journal of Physical Chemistry A</i> , 2014, 118, 9087-9093.	1.1	11
95	Green's function coupled cluster formulations utilizing extended inner excitations. <i>Journal of Chemical Physics</i> , 2018, 149, 214102.	1.2	11
96	Variational quantum solver employing the PDS energy functional. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 5, 473.	0.0	11
97	Improving the accuracy and efficiency of quantum connected moments expansions *. <i>Quantum Science and Technology</i> , 2021, 6, 034012.	2.6	11
98	Coupled Cluster Downfolding Theory: towards universal many-body algorithms for dimensionality reduction of composite quantum systems in chemistry and materials science. <i>Materials Theory</i> , 2022, 6, .	2.2	11
99	Model study of the impact of orbital choice on the accuracy of coupled-cluster energies. I. Single-reference-state formulation. <i>International Journal of Quantum Chemistry</i> , 1998, 67, 205-219.	1.0	10
100	Toward generalized tensor algebra for ab initio quantum chemistry methods. , 2019, , .		10
101	Quantum Solvers for Plane-Wave Hamiltonians: Abridging Virtual Spaces Through the Optimization of Pairwise Correlations. <i>Frontiers in Chemistry</i> , 2021, 9, 603019.	1.8	10
102	Real-Time Equation-of-Motion CCSD Cumulant Green's Function. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 1799-1807.	2.3	10
103	Coupled Cluster Studies of Ionization Potentials and Electron Affinities of Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry A</i> , 2017, 121, 1328-1335.	1.1	9
104	Coupled Cluster Downfolding Methods: the effect of double commutator terms on the accuracy of ground-state energies. <i>Journal of Chemical Physics</i> , 2022, 156, 094106.	1.2	9
105	Advances in Scalable Computational Chemistry. <i>Annual Reports in Computational Chemistry</i> , 2011, 7, 151-177.	0.9	8
106	Note: Excited state studies of ozone using state-specific multireference coupled cluster methods. <i>Journal of Chemical Physics</i> , 2012, 137, 216101.	1.2	8
107	GFCCLib: Scalable and efficient coupled-cluster Green's function library for accurately tackling many-body electronic structure problems. <i>Computer Physics Communications</i> , 2021, 265, 108000.	3.0	8
108	Equation-of-Motion Coupled-Cluster Cumulant Green's Function for Excited States and X-Ray Spectra. <i>Frontiers in Chemistry</i> , 2021, 9, 734945.	1.8	8

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109	New Alternatives for Accurate Electronic Structure Calculations of Potential Energy Surfaces Involving Bond Breaking. ACS Symposium Series, 2007, , 37-73.	0.5	7
110	Effective Utilization of Tensor Symmetry in Operation Optimization of Tensor Contraction Expressions. Procedia Computer Science, 2012, 9, 412-421.	1.2	7
111	Implementation of High-Order Multireference Coupled-Cluster Methods on Intel Many Integrated Core Architecture. Journal of Chemical Theory and Computation, 2016, 12, 1129-1138.	2.3	7
112	Low-rank factorization of electron integral tensors and its application in electronic structure theory. Chemical Physics Letters, 2017, 672, 47-53.	1.2	7
113	A MRCC study of the isomerisation of cyclopropane. Molecular Physics, 2017, 115, 2743-2754.	0.8	7
114	Bridging single and multireference coupled cluster theories with universal state selective formalism. Journal of Chemical Physics, 2013, 138, 204114.	1.2	6
115	Iterative universal state selective correction for the Brillouin-Wigner multireference coupled-cluster theory. Journal of Chemical Physics, 2015, 142, 114106.	1.2	6
116	Perturbative universal state-selective correction for state-specific multi-reference coupled cluster methods. Journal of Chemical Physics, 2016, 145, 164106.	1.2	6
117	Green's function coupled cluster simulation of the near-valence ionizations of DNA-fragments. Journal of Chemical Physics, 2020, 152, 011101.	1.2	6
118	Solving Coupled Cluster Equations by the Newton Krylov Method. Frontiers in Chemistry, 2020, 8, 590184.	1.8	6
119	Coupled cluster Green's function: Past, present, and future. Annual Reports in Computational Chemistry, 2021, , 23-53.	0.9	6
120	Coupled Cluster Green's function formulations based on the effective Hamiltonians. Molecular Physics, 2020, 118, e1725669.	0.8	5
121	Transitioning NWChem to the Next Generation of Manycore Machines. , 2017, , 165-186.		5
122	Correspondence between physical states and solutions to the coupled-cluster equations. , 1999, 75, 483-496.		4
123	Regularized and Renormalized Many-Body Techniques for Describing Correlated Molecular Systems: A Coupled-Cluster Perspective. Annual Reports in Computational Chemistry, 2018, 14, 3-45.	0.9	4
124	Real-time equation-of-motion CC cumulant and CC Green's function simulations of photoemission spectra of water and water dimer. Journal of Chemical Physics, 2022, 157, .	1.2	4
125	Excitation transfer between the rubidium 52D fine-structure levels in collisions with ground-state rubidium atoms: Experiment and theory. Physical Review A, 2000, 62, .	1.0	3
126	Ab initio coupled cluster calculations for nuclei using methods of quantum chemistry. European Physical Journal A, 2005, 25, 485-488.	1.0	3

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127	Scalable Heterogeneous Execution of a Coupled-Cluster Model with Perturbative Triples. , 2020, , .		3
128	Hybrid quantum-classical approach for coupled-cluster Green's function theory. Quantum - the Open Journal for Quantum Science, 0, 6, 675.	0.0	3
129	The role of a dipole-coupled but not dipole-probed state in probe absorption with multilevel coupling. European Physical Journal: Special Topics, 2013, 222, 2197-2206.	1.2	2
130	Accelerating the Global Arrays ComEx Runtime Using Multiple Progress Ranks. , 2019, , .		2
131	Cross Sections for I-Mixing of $K(n^{>2}</sup>F)$ States in Collisions with Ground-State $K(4^{>2}</sup>S)$ Atoms. Acta Physica Polonica A, 2000, 98, 353-361.	0.2	2
132	Complete set of solutions of the generalized Bloch equation. International Journal of Quantum Chemistry, 2000, 80, 757-781.	1.0	1
133	COUPLED CLUSTER APPROACHES TO NUCLEI, GROUND STATES AND EXCITED STATES. , 2005, , .		0