

Update articles
We have updates for your articles.

UPDATE

Review public access
Certain articles should be publicly available.

REVIEW

Add co-authors
We have co-authors suggestions.

ADD



Piotr Piecuch

[FOLLOW](#)

University Distinguished Professor and MSU Research Foundation Professor, [Michigan State University](#)

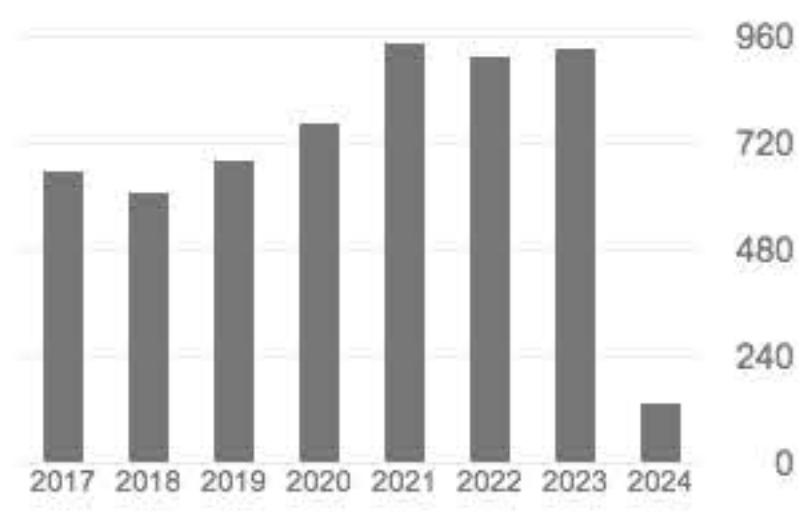
Verified email at chemistry.msu.edu - [Homepage](#)

quantum chemistry many-body theory coupled cluster theory electronic structure nuclear structure

Cited by

[VIEW ALL](#)
[All](#)
[Since 2019](#)

Citations	16714	4379
h-index	72	34
i10-index	185	90



TITLE H :

CITED BY

YEAR

- Recent developments in the general atomic and molecular electronic structure system 841 2020 GMJ Barca, C Bertoni, L Carrington, D Datta, N De Silva, JE Deustua, ... The Journal of Chemical Physics 152 (15), 154102
- Efficient computer implementation of the renormalized coupled-cluster methods: the R-CCSD[T], R-CCSD(T), CR-CCSD[T], and CR-CCSD(T) approaches 553 2002 P Piecuch, SA Kucharski, K Kowalski, M Musial Computer Physics Communications 149 (2), 71-96
- The method of moments of coupled-cluster equations and the renormalized CCSD[T], CCSD(T), CCSD(TQ), and CCSDT(Q) approaches 475 2000 K Kowalski, P Piecuch The Journal of Chemical Physics 113 (1), 18-35
- Renormalized coupled-cluster methods exploiting left eigenstates of the similarity-transformed Hamiltonian 465 2005 P Piecuch, M Wloch The Journal of Chemical Physics 123 (22), 224105
- New coupled-cluster methods with singles, doubles, and noniterative triples for high accuracy calculations of excited electronic states 373 2004 K Kowalski, P Piecuch The Journal of Chemical Physics 120 (4), 1715-1738
- A state-selective multireference coupled-cluster theory employing the single-reference formalism 368 1993 P Piecuch, N Oliphant, L Adamowicz The Journal of Chemical Physics 99 (3), 1875-1900
- Recent advances in electronic structure theory: Method of moments of coupled-cluster equations and renormalized coupled-cluster approaches 331 2002 P Piecuch, K Kowalski, ISO Pimienta, MJ McGuire International Reviews in Physical Chemistry 21 (4), 527-655
- The active-space equation-of-motion coupled-cluster methods for excited electronic states: Full EOMCCSDt 321 2001 K Kowalski, P Piecuch The Journal of Chemical Physics 115 (2), 643-651
- Coupled-cluster methods with internal and semi-internal triply and quadruply excited clusters: CCSDt and CCSDtq approaches 279 1999 P Piecuch, SA Kucharski, RJ Bartlett The Journal of Chemical Physics 110 (13), 6103-6122
- Application of Hilbert-space coupled-cluster theory to simple (H₂)₂ model systems: Planar models 271 1993 J Paldus, P Piecuch, L Pylypow, B Jeziorski Physical Review A 47 (4), 2738-2782
- Renormalized CCSD(T) and CCSD(TQ) approaches: Dissociation of the N₂ triple bond 251 2000 K Kowalski, P Piecuch Journal of Chemical Physics 113 (14), 5644-5652
- Local correlation calculations using standard and renormalized coupled-cluster approaches 244 2009 W Li, P Piecuch, JR Gour, S Li The Journal of Chemical Physics 131 (11), 114109
- State-selective multireference coupled-cluster theory employing the single-reference formalism: Implementation and application to the H₈ model system 241 1994 P Piecuch, L Adamowicz The Journal of Chemical Physics 100 (8), 5792-5809
- Method of moments of coupled-cluster equations: a new formalism for designing accurate electronic structure methods for ground and excited states 224 2004 P Piecuch, K Kowalski, ISO Pimienta, PD Fan, M Lodriguito, MJ McGuire, ... Theoretical Chemistry Accounts 112 (5-6), 349-393
- Where does the planar-to-nonplanar turnover occur in small gold clusters? 221 2005 RM Olson, S Varganov, MS Gordon, H Metiu, S Chretien, P Piecuch, ... Journal of the American Chemical Society 127 (3), 1049-1052
- Theoretical models on the Cu₂O₂ torture track: Mechanistic implications for oxytyrosinase and small-molecule analogues (vol 110A, pg 1991, 2006) 219 * 2007 CJ Cramer, M Wloch, P Piecuch, C Puzzarini, L Gagliardi Journal of Physical Chemistry A 111 (22), 4871-4871
- Theoretical models on the Cu₂O₂ torture track: Mechanistic implications for oxytyrosinase and small-molecule analogues 219 2006 CJ Cramer, M Wloch, P Piecuch, C Puzzarini, L Gagliardi Journal of Physical Chemistry A 110 (5), 1991-2004
- Coupled-cluster theory for three-body Hamiltonians 216 * 2007 G Hagen, T Papenbrock, DJ Dean, A Schwenk, A Nogga, M Wloch, ... Physical Review C 76 (3), 034302
- Single-reference, size-extensive, non-iterative coupled-cluster approaches to bond breaking and biradicals 212 2006 P Piecuch, M Wloch, JR Gour, A Kinai Chemical physics letters 418 (4), 467-474
- Extension of the renormalized coupled-cluster methods exploiting left eigenstates of the similarity-transformed Hamiltonian to open-shell systems: A benchmark study 206 2007 M Wloch, JR Gour, P Piecuch The Journal of Physical Chemistry A 111 (44), 11359-11382

Public access [VIEW ALL](#)

5 articles [38 articles](#)

not available [available](#)

Based on funding mandates

Co-authors [EDIT](#)

- Karol Kowalski Pacific Northwest National Labor...
- Josef Paldus Distinguished Professor Emeritu...
- Jun Shen Michigan State University
- Stanislaw Kucharski university of silesia, QTP,Silesian...
- Ludwik Adamowicz Nicolaus Copernicus University
- D. J. Dean Thomas Jefferson National Accel...
- Jesse James Lutz Sandia National Laboratories
- Thomas Papenbrock University of Tennessee
- Ilias Magoulas Emory University
- Ian S.O. Pimienta University of Pikeville
- Morten Hjorth-Jensen Michigan State University
- Monika Musial Institute of Chemistry, University ...
- J. Emiliano Deustua Co-founder at Examol.io
- Armagan Kinai Professor of chemistry, ege univ...
- So Hirata Marvin T. Schmidt Professor, Uni...
- rodney bartlett graduate research professor, uni...
- Christopher J. Cramer UL Research Institutes
- Nicholas Bauman Pacific Northwest National Labor...
- Gaute Hagen Oak Ridge National Laboratory
- Marcos Dantus Michigan State University and C...