Paul Andrew Johnson

List of Publications by Year
in descending order

27	5,272	471061 17	525886 27
papers	citations	h-index	g-index

27	27	27	4049
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bivariational principle for an antisymmetrized product of nonorthogonal geminals appropriate for strong electron correlation. Computational and Theoretical Chemistry, 2022, 1212, 113718.	1.1	3
2	Near-exact treatment of seniority-zero ground and excited states with a Richardsonâ€“Gaudin mean-field. Journal of Chemical Physics, 2022, 156, .	1.2	15
3	Density matrices of seniority-zero geminal wavefunctions. Journal of Chemical Physics, 2022, 156, .	1.2	7
4	Richardson-Gaudin geminal wavefunctions in a Slater determinant basis. Journal of Mathematical Chemistry, 2021, 59, 289-301.	0.7	10
5	Transition density matrices of Richardsonâ€“Gaudin states. Journal of Chemical Physics, 2021, 154, 124125.	1.2	7
6	Theoretical Insights into Optoelectronic Properties of Non-Fullerene Acceptors for the Design of Organic Photovoltaics. ACS Applied Energy Materials, 2021, 4, 11090-11100.	2.5	6
7	Richardsonâ€“Gaudin mean-field for strong correlation in quantum chemistry. Journal of Chemical Physics, 2020, 153, 104110.	1.2	27
8	Reduced density matrices of Richardsonâ€“Gaudin states in the Gaudin algebra basis. Journal of Chemical Physics, 2020, 153, 164117.	1.2	16
9	Bethe ansatz of electrons as a meanâ€field wavefunction for chemical systems. International Journal of Quantum Chemistry, 2020, 120, e26255.	1.0	7
10	Fluorine effect in nucleophilic fluorination at C4 of 1,6-anhydro-2,3-dideoxy-2,3-difluoro-Î²-D-hexopyranose. Beilstein Journal of Organic Chemistry, 2020, 16, 2880-2887.	1.3	8
11	Pyrene Diimide Based Ï€-Conjugated Copolymer and Single-Walled Carbon Nanotube Composites for Lithium-Ion Batteries. Chemistry of Materials, 2019, 31, 8764-8773.	3.2	22
12	Fused Benzothiadiazole: A Building Block for nâ€Type Organic Acceptor to Achieve Highâ€Performance Organic Solar Cells. Advanced Materials, 2019, 31, e1807577.	11.1	297
13	Single-Junction Organic Solar Cell with over 15% Efficiency Using Fused-Ring Acceptor with Electron-Deficient Core. Joule, 2019, 3, 1140-1151.	11.7	4,052
14	A Chiron approach towards the stereoselective synthesis of polyfluorinated carbohydrates. Nature Communications, 2018, 9, 4721.	5.8	36
15	Mechanistic Origin of Î²-Defect Formation in Thiophene-Based Polymers Prepared by Direct (Hetero)arylation. Macromolecules, 2018, 51, 8100-8113.	2.2	29
16	Pyromellitic Diimide-Based Copolymers and Their Application as Stable Cathode Active Materials in Lithium and Sodium-Ion Batteries. Chemistry of Materials, 2018, 30, 6821-6830.	3.2	29
17	Strategies for extending geminal-based wavefunctions: Open shells and beyond. Computational and Theoretical Chemistry, 2017, 1116, 207-219.	1.1	19
18	Projected seniority-two orbital optimization of the antisymmetric product of one-reference orbital geminal. Journal of Chemical Physics, 2014, 140, 214114.	1.2	68

#	Article	IF	Citations
19	How to Compute the Fukui Matrix and Function for Systems with (Quasi-)Degenerate States. Journal of Chemical Theory and Computation, 2014, 10, 202-210.	2.3	53
20	The influence of orbital rotation on the energy of closed-shell wavefunctions. Molecular Physics, 2014, 112, 853-862.	0.8	84
21	Simple and inexpensive perturbative correction schemes for antisymmetric products of nonorthogonal geminals. Physical Chemistry Chemical Physics, 2014, 16, 5061.	1.3	46
22	Assessing the Accuracy of New Geminal-Based Approaches. Journal of Physical Chemistry A, 2014, 118, 9058-9068.	1.1	77
23	Atomic Charges and the Electrostatic Potential Are Ill-Defined in Degenerate Ground States. Journal of Chemical Theory and Computation, 2013, 9, 4779-4788.	2.3	48
24	A size-consistent approach to strongly correlated systems using a generalized antisymmetrized product of nonorthogonal geminals. Computational and Theoretical Chemistry, 2013, 1003, 101-113.	1.1	81
25	A New Mean-Field Method Suitable for Strongly Correlated Electrons: Computationally Facile Antisymmetric Products of Nonorthogonal Geminals. Journal of Chemical Theory and Computation, 2013, 9, 1394-1401.	2.3	166
26	Accurate Oâ˜H Bond Dissociation Energy Differences of Hydroxylamines Determined by EPR Spectroscopy: Computational Insight into Stereoelectronic Effects on BDEs and EPR Spectral Parameters. Journal of Organic Chemistry, 2011, 76, 631-636.	1.7	18
27	Gas-Phase Thermolysis of a Guanidinate Precursor of Copper Studied by Matrix Isolation, Time-of-Flight Mass Spectrometry, and Computational Chemistry. Inorganic Chemistry, 2010, 49, 2844-2850.	1.9	41