

# Agnes Szabados

## List of Publications by Year in descending order

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78  
papers

1,315  
citations

394421

19  
h-index

395702

33  
g-index

82  
all docs

82  
docs citations

82  
times ranked

766  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability analysis of the Lippmann-Schwinger equation. <i>Molecular Physics</i> , 2023, 121, .	1.7	1
2	The $\gamma$ function in quantum theory II. Mathematical challenges and paradoxa. <i>Journal of Mathematical Chemistry</i> , 2022, 60, 267-282.	1.5	0
3	Editorial: In memoriam István Mayer. <i>International Journal of Quantum Chemistry</i> , 2022, 122, .	2.0	0
4	A note on perturbation-adapted perturbation theory. <i>Journal of Chemical Physics</i> , 2022, 156, 116102.	3.0	0
5	Many-Body Perturbation Theory with Localized Orbitals: Accounting for Localization Diagrams as Integral Dressing. <i>Journal of Chemical Theory and Computation</i> , 2022, , .	5.3	0
6	Comment on "Improved many-body expansions from eigenvector continuation": <i>Physical Review C</i> , 2021, 103, .	2.9	0
7	Symmetry-Adapted Perturbation with Half-Projection for Spin Unrestricted Geminals. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 4122-4143.	5.3	4
8	Improving half-projected spin-contaminated wave functions by multi-configuration perturbation theory. <i>Journal of Chemical Physics</i> , 2021, 154, 234110.	3.0	5
9	Dressing of Vertices by Cumulants in Multi-Reference Coupled Cluster. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 6947-6964.	5.3	1
10	On the variational principle for the non-linear Schrödinger equation. <i>Journal of Mathematical Chemistry</i> , 2020, 58, 340-351.	1.5	0
11	Calculation of dispersion interactions with the geminal-based ring Coupled Cluster Doubles method. <i>Theoretical Chemistry Accounts</i> , 2020, 139, 1.	1.4	2
12	Ring coupled cluster doubles at the multireference level. <i>Journal of Chemical Physics</i> , 2020, 152, 204114.	3.0	6
13	Half-Projection of the Strongly Orthogonal Unrestricted Geminals™ Product Wave Function. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 892-903.	5.3	14
14	Bilinear Constraints upon the Correlation Contribution to the Electron-Electron Repulsion Energy as a Functional of the One-Electron Reduced Density Matrix. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 4862-4872.	5.3	19
15	Application of the Cauchy integral formula as a tool of analytic continuation for the resummation of divergent perturbation series. <i>Journal of Chemical Physics</i> , 2019, 150, 031101.	3.0	8
16	Geminal perturbation theory based on the unrestricted Hartree-Fock wavefunction. <i>Journal of Chemical Physics</i> , 2019, 150, 034103.	3.0	10
17	Multiple bond breaking with APSG-based correlation methods: comparison of two approaches. <i>Theoretical Chemistry Accounts</i> , 2018, 137, 1.	1.4	12
18	The inverse boundary value problem: application in many-body perturbation theory. <i>Theoretical Chemistry Accounts</i> , 2018, 137, 1.	1.4	6

#	ARTICLE	IF	CITATIONS
19	Effect of partitioning on the convergence properties of the Rayleigh-Schrödinger perturbation series. <i>Journal of Chemical Physics</i> , 2017, 146, 124121.	3.0	6
20	Ring coupled-cluster doubles correction to geminal wavefunctions. <i>Molecular Physics</i> , 2017, 115, 2731-2742.	1.7	6
21	Resonance Raman Optical Activity of Single Walled Chiral Carbon Nanotubes. <i>Journal of Physical Chemistry A</i> , 2016, 120, 5527-5538.	2.5	9
22	Preface to the special collection of theoretical chemistry accounts in honour of Professor R. Surján. <i>Theoretical Chemistry Accounts</i> , 2016, 135, 1.	1.4	0
23	Energy error bars in direct configuration interaction iteration sequence. <i>Journal of Chemical Physics</i> , 2015, 143, 084112.	3.0	5
24	Spin Symmetry and Size Consistency of Strongly Orthogonal Geminals. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 3096-3103.	5.3	15
25	Role of triplet states in geminal-based perturbation theory. <i>Molecular Physics</i> , 2015, 113, 2960-2963.	1.7	13
26	Novel orthogonalization and biorthogonalization algorithms. <i>Theoretical Chemistry Accounts</i> , 2015, 134, 1.	1.4	7
27	Local spin from strongly orthogonal geminal wavefunctions. <i>Molecular Physics</i> , 2015, 113, 249-259.	1.7	23
28	Vibrational optical activity of chiral carbon nanoclusters treated by a generalized $\tilde{\epsilon}$ -electron method. <i>Journal of Chemical Physics</i> , 2014, 140, 044112.	3.0	5
29	Theoretical vibrational optical activity of chiral carbon nanoparticles: Fullerenes and carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2451-2456.	1.5	6
30	L <sup>2</sup> -norm's bracketing function revisited. <i>Journal of Mathematical Chemistry</i> , 2014, 52, 2210-2221.	1.5	3
31	Perspectives of APSC-based multireference perturbation theories. <i>International Journal of Quantum Chemistry</i> , 2014, 114, 1048-1052.	2.0	39
32	Unitary perturbation theory applied to multiconfigurational reference functions. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 230-238.	2.0	8
33	Linearized Coupled Cluster Corrections to Antisymmetrized Product of Strongly Orthogonal Geminals: Role of Dispersive Interactions. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 2602-2608.	5.3	42
34	Spin-adaptation and redundancy in state-specific multireference perturbation theory. <i>Journal of Chemical Physics</i> , 2013, 138, 124110.	3.0	14
35	Efficient iterative diagonalization of the Bose-Hubbard model for ultracold bosons in a periodic optical trap. <i>Chemical Physics</i> , 2012, 401, 208-216.	1.9	6
36	Mayer's orthogonalization: relation to the Gram-Schmidt and L <sup>2</sup> -norm's symmetrical scheme. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	1.4	12

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37	Strongly orthogonal geminals: size-extensive and variational reference states. <i>Journal of Mathematical Chemistry</i> , 2012, 50, 534-551.	1.5	68
38	Spin Component Scaling in Multiconfiguration Perturbation Theory. <i>Journal of Physical Chemistry A</i> , 2011, 115, 523-534.	2.5	13
39	Sensitivity analysis of state-specific multireference perturbation theory. <i>Journal of Chemical Physics</i> , 2011, 134, 174113.	3.0	23
40	Perturbative Approximations to Avoid Matrix Diagonalization. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2011, , 83-95.	0.6	1
41	Zero-field-splitting in triplet-state nanotubes. <i>Chemical Physics Letters</i> , 2010, 498, 292-295.	2.6	4
42	Generalized Møller-Plesset Partitioning in Multiconfiguration Perturbation Theory. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 2024-2033.	5.3	53
43	On The Coupled-Cluster Equations. Stability Analysis And Nonstandard Correction Schemes. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2010, , 513-534.	0.6	1
44	Comparative study of multireference perturbative theories for ground and excited states. <i>Journal of Chemical Physics</i> , 2009, 131, 204104.	3.0	51
45	Multipartitioning Møller-Plesset perturbation theory: Size-extensivity at third order and symmetry conservation. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 2554-2563.	2.0	5
46	Fermi-Vacuum Invariance in Multiconfiguration Perturbation Theory. <i>Progress in Theoretical Chemistry and Physics</i> , 2009, , 257-268.	0.2	4
47	Frozen localized molecular orbitals in electron correlation calculations – Exploiting the Hartree-Fock density matrix. <i>Chemical Physics Letters</i> , 2008, 450, 400-403.	2.6	6
48	A sparse matrix based full-configuration interaction algorithm. <i>Journal of Chemical Physics</i> , 2008, 128, 144101.	3.0	26
49	Intershell interaction in double walled carbon nanotubes: Charge transfer and orbital mixing. <i>Physical Review B</i> , 2008, 77, .	3.2	61
50	A Note on the Symmetry Properties of Löwdin's Orthogonalization Schemes. <i>Collection of Czechoslovak Chemical Communications</i> , 2008, 73, 937-944.	1.0	2
51	Theoretical interpretation of Grimme's spin-component-scaled second order Møller-Plesset theory. <i>Journal of Chemical Physics</i> , 2006, 125, 214105.	3.0	88
52	Semiconductor-to-metal transition of double walled carbon nanotubes induced by inter-shell interaction. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 3476-3479.	1.5	30
53	Coupled-cluster theory and the method of moments. <i>Computational and Theoretical Chemistry</i> , 2006, 768, 17-23.	1.5	6
54	Intertube interactions in carbon nanotube bundles. <i>Physical Review B</i> , 2006, 73, .	3.2	41

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55	Size dependence of Feenberg scaling. <i>International Journal of Quantum Chemistry</i> , 2005, 101, 287-290.	2.0	6
56	Multiconfiguration perturbation theory: Size consistency at second order. <i>Journal of Chemical Physics</i> , 2005, 122, 114104.	3.0	54
57	Comparison of low-order multireference many-body perturbation theories. <i>Journal of Chemical Physics</i> , 2005, 122, 134105.	3.0	62
58	Idempotency-Conserving Iteration Scheme for the One-Electron Density Matrix. <i>Physical Review Letters</i> , 2005, 95, 013002.	7.8	14
59	Convergence Enhancement in Perturbation Theory. <i>Collection of Czechoslovak Chemical Communications</i> , 2004, 69, 105-120.	1.0	8
60	Partitioning in multiconfiguration perturbation theory. <i>Annalen Der Physik</i> , 2004, 13, 223-231.	2.4	45
61	Appendix to "Studies in Perturbation Theory": The Problem of Partitioning. , 2004, , 129-185.		13
62	Optimized partitioning in PT: Application for the equation of motion describing ionization processes. <i>International Journal of Quantum Chemistry</i> , 2003, 92, 160-167.	2.0	4
63	Molecular Structure of Carbene Analogues: A Computational Study. <i>Journal of Physical Chemistry A</i> , 2003, 107, 4314-4321.	2.5	35
64	On the perturbation of multiconfiguration wave functions. <i>Journal of Chemical Physics</i> , 2003, 119, 1922-1928.	3.0	82
65	Optimized Quasiparticle Energies in Many-Body Perturbation Theory. <i>Collection of Czechoslovak Chemical Communications</i> , 2003, 68, 331-339.	1.0	7
66	Laplace-transformed denominators in perturbation theory: Linear-scaling second-order treatment of weakly interacting nanostructures. <i>Physical Review A</i> , 2003, 68, .	2.5	13
67	On the Use of Connected Moments Expansion with Coupled Cluster Reference. <i>International Journal of Molecular Sciences</i> , 2002, 3, 508-521.	4.1	9
68	Constant denominator perturbative schemes and the partitioning technique. <i>International Journal of Quantum Chemistry</i> , 2002, 90, 20-26.	2.0	12
69	Nonsymmetrical perturbation theory for improving coupled-cluster wave functions. <i>International Journal of Quantum Chemistry</i> , 2002, 90, 1309-1320.	2.0	14
70	On the "killer condition"™ in the equation-of-motion method: ionization potentials from multi-reference wave functions. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 696-701.	2.8	15
71	Near-degeneracy corrections for second-order perturbation theory: comparison of two approaches. <i>Theoretical Chemistry Accounts</i> , 2001, 105, 408-412.	1.4	5
72	Optimized partitioning in perturbation theory: Comparison to related approaches. <i>Journal of Chemical Physics</i> , 2000, 112, 4438-4446.	3.0	43

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73	Optimized partitioning in Rayleighâ€“SchrÃ¶dinger perturbation theory. Chemical Physics Letters, 1999, 308, 303-309.	2.6	34
74	Title is missing!. Structural Chemistry, 1999, 10, 149-155.	2.0	9
75	Dyson-corrected orbital energies for the perturbative treatment of electron correlation. International Journal of Quantum Chemistry, 1998, 69, 713-719.	2.0	9
76	Nonconventional partitioning of the many-body Hamiltonian for studying correlation effects. International Journal of Quantum Chemistry, 1998, 70, 571-581.	2.0	12
77	Calculation of correlation-corrected band structures of polymers in the case of quasi-degeneracy. Solid State Communications, 1997, 103, 639-644.	1.9	4
78	Damping of perturbation corrections in quasidegenerate situations. Journal of Chemical Physics, 1996, 104, 3320-3324.	3.0	16