Arik Landau

List of Publications by Year
in descending order

38 papers	4,196 citations	471509 17 h-index	377865 34 g-index
38 all docs	38 docs citations	38 times ranked	4603 citing authors

#	Article	IF	Citations
1	Advances in molecular quantum chemistry contained in the Q-Chem 4 program package. Molecular Physics, 2015, 113, 184-215.	1.7	2,561
2	Software for the frontiers of quantum chemistry: An overview of developments in the Q-Chem 5 package. Journal of Chemical Physics, 2021, 155, 084801.	3.0	518
3	Intermediate Hamiltonian Fock-space coupled-cluster method. Chemical Physics Letters, 1999, 313, 399-403.	2.6	111
4	Intermediate Hamiltonian Fock-space coupled-cluster method: Excitation energies of barium and radium. Journal of Chemical Physics, 2000, 113, 9905-9910.	3.0	111
5	New implementation of highâ€level correlated methods using a general block tensor library for highâ€performance electronic structure calculations. Journal of Computational Chemistry, 2013, 34, 2293-2309.	3.3	105
6	Frozen natural orbitals for ionized states within equation-of-motion coupled-cluster formalism. Journal of Chemical Physics, 2010, 132, 014109.	3.0	103
7	Electronic Structure and Spectroscopy of Nucleic Acid Bases: Ionization Energies, Ionization-Induced Structural Changes, and Photoelectron Spectra. Journal of Physical Chemistry A, 2010, 114, 12305-12317.	2.5	91
8	Electronic structure of eka-lead (element 114) compared with lead. Journal of Chemical Physics, 2001, 114, 2977-2980.	3.0	79
9	Mixed-sector intermediate Hamiltonian Fock-space coupled cluster approach. Journal of Chemical Physics, 2004, 121, 6634-6639.	3.0	58
10	Intermediate Hamiltonian Fock-space coupled cluster method in the one-hole one-particle sector: Excitation energies of xenon and radon. Journal of Chemical Physics, 2001, 115, 6862-6865.	3.0	56
11	Benchmark calculations of electron affinities of the alkali atoms sodium to eka-francium (element) Tj ETQq1 1 0.784314 rgBT /Overlo	3.0	53
12	Intermediate Hamiltonian Fock-space coupled-cluster method. Advances in Quantum Chemistry, 2001, 39, 171-188.	0.8	49
13	Electronic structure of eka-thorium (element 122) compared with thorium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 1693-1700.	1.5	41
14	Atomic and Molecular Complex Resonances from Real Eigenvalues Using Standard (Hermitian) Electronic Structure Calculations. Journal of Physical Chemistry A, 2016, 120, 3098-3108.	2.5	37
15	Cooperative Effects in Molecular Conduction. Journal of Computational and Theoretical Nanoscience, 2008, 5, 535-544.	0.4	36
16	Polyatomic ab Initio Complex Potential Energy Surfaces: Illustration of Ultracold Collisions. Journal of Chemical Theory and Computation, 2017, 13, 1682-1690.	5.3	25
17	Molecular resonances by removing complex absorbing potentials via PadÃ©; Application to COâ¯ and N2â¯. Journal of Chemical Physics, 2016, 145, 164111.	3.0	19
18	The Clusterization Technique: A Systematic Search for the Resonance Energies Obtained via PadÃ©. Journal of Physical Chemistry A, 2019, 123, 5091-5105.	2.5	17

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19	Cooperative Effects in Molecular Conduction II: The Semiconductorâ˜Metal Molecular Junction. Journal of Physical Chemistry A, 2009, 113, 7451-7460.	2.5	16
20	Ab initio complex potential energy curves of the He*(1s2p 1P)â€“Li dimer. Journal of Chemical Physics, 2020, 152, 184303.	3.0	14
21	Quantum Effects in Cold Molecular Collisions from Spatial Polarization of Electronic Wave Function. Journal of Physical Chemistry Letters, 2019, 10, 855-863.	4.6	13
22	Ab Initio Complex Potential Energy Surfaces From Standard Quantum Chemistry Packages. Advances in Quantum Chemistry, 2017, 74, 321-346.	0.8	11
23	Advantages of complex scaling only the most diffuse basis functions in simultaneous description of both resonances and bound states. Molecular Physics, 2015, 113, 3141-3146.	1.7	10
24	Shaping and controlling stabilisation graphs for calculating stable complex resonance energies. Molecular Physics, 2019, 117, 2029-2042.	1.7	9
25	Accurate Relativistic Fock-Space Calculations for Many-Electron Atoms. Theoretical and Computational Chemistry, 2004, 14, 81-119.	0.4	7
26	Quantum Effects Dominating the Interatomic Coulombic Decay of an Extreme System. Journal of Physical Chemistry Letters, 2020, 11, 6600-6605.	4.6	7
27	Ab Initio Complex Transition Dipoles between Autoionizing Resonance States from Real Stabilization Graphs. Journal of Physical Chemistry Letters, 2020, 11, 5601-5609.	4.6	7
28	FOUR-COMPONENT RELATIVISTIC COUPLED CLUSTER â€" METHOD AND APPLICATIONS. Recent Advances in Computational, 2004, , 283-327.	0.8	5
29	Similarity transformed coupled cluster response (ST-CCR) theory - A time-dependent similarity transformed equation-of-motion coupled cluster (STEOM-CC) approach. Journal of Chemical Physics, 2013, 139, 014110.	3.0	5
30	INTERMEDIATE HAMILTONIAN FOCK-SPACE COUPLED CLUSTER METHOD AND APPLICATIONS. International Journal of Modern Physics B, 2003, 17, 5335-5345.	2.0	4
31	Uniform vs Partial Scaling within Resonances via PadÃ© Based on the Similarities to Other Non-Hermitian Methods: Illustration for the Beryllium 1s²2p3s State. Journal of Chemical Theory and Computation, 2021, 17, 3435-3444.	5.3	4
32	INTERMEDIATE HAMILTONIAN FOCK-SPACE COUPLED CLUSTER METHOD AND APPLICATIONS. , 2002, , .		3
33	Enhanced Coupling of Electron and Nuclear Spins by Quantum Tunneling Resonances. Physical Review Letters, 2022, 128, 013401.	7.8	3
34	RELATIVISTIC COUPLED CLUSTER CALCULATIONS FOR HEAVY AND SUPER-HEAVY ELEMENTS. , 2002, , 260-292.		2
35	Potential Functions of Al2 by the Relativistic Fock-Space Coupled Cluster Method. International Journal of Molecular Sciences, 2002, 3, 498-507.	4.1	2
36	Complex energies and transition dipoles for shape-type resonances of uracil anion from stabilization curves via PadÃ©. Journal of Chemical Physics, 2022, 156, .	3.0	2

#	Article	IF	Citations
37	The RVP Methodâ€"From Real Ab-Initio Calculations to Complex Energies and Transition Dipoles. Frontiers in Physics, 0, 10, .	2.1	2
38	Molecular Conduction Junctions: Intermolecular Effects. , 2010, , 159-182.		0