

Agnes Nagy

List of Publications by Year in descending order

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161
papers

3,416
citations

126907

33
h-index

182427

51
g-index

161
all docs

161
docs citations

161
times ranked

918
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase-space Rényi entropy, complexity and thermodynamic picture of density functional theory. Journal of Mathematical Chemistry, 2023, 61, 296-304.	1.5	2
2	Fisher information and density functional theory. International Journal of Quantum Chemistry, 2022, 122, e26679.	2.0	7
3	Subspace theory with spherically symmetric densities. Journal of Chemical Physics, 2021, 154, 074103.	3.0	4
4	Density Functional Theory of Highly Excited States of Coulomb Systems. Computation, 2021, 9, 73.	2.0	2
5	Density Functional Theory of Coulombic Excited States Based on Nodal Variational Principle. Computation, 2021, 9, 93.	2.0	2
6	Spherical potential functional theory. Journal of Chemical Physics, 2021, 155, 144108.	3.0	5
7	Spherical Density Functional Theory and Atoms in Molecules. Journal of Physical Chemistry A, 2020, 124, 148-151.	2.5	5
8	Information theoretical and thermodynamic view of the excited-state density functional theory of Coulomb systems. Journal of Chemical Physics, 2020, 153, 154103.	3.0	5
9	Relative information in excited-state orbital-free density functional theory. International Journal of Quantum Chemistry, 2020, 120, e26405.	2.0	14
10	A thermal orbital-free density functional approach. Journal of Chemical Physics, 2019, 151, 014103.	3.0	5
11	Coordinate Scaling in Time-Independent Excited-State Density Functional Theory for Coulomb Systems. Computation, 2019, 7, 59.	2.0	2
12	Density Functional Theory description of the order-disorder transformation in Fe-Ni. Scientific Reports, 2019, 9, 8172.	3.3	22
13	Phase-space Fisher information of 2D gapped Dirac materials. Journal of Mathematical Chemistry, 2019, 57, 1169-1180.	1.5	3
14	Density functional theory description of random Cu-Au alloys. Physical Review B, 2019, 99, .	3.2	5
15	Orbital-Free Density Functional Theory: Pauli Potential and Density Scaling. , 2018, , 253-260.		1
16	Thermodynamical transcription of density functional theory with minimum Fisher information. Chemical Physics Letters, 2018, 695, 149-152.	2.6	11
17	Rényi-Fisher entropy product as a marker of topological phase transitions. Physica A: Statistical Mechanics and Its Applications, 2018, 498, 66-73.	2.6	15
18	Kullback-Leibler and relative Fisher information as descriptors of locality. International Journal of Quantum Chemistry, 2018, 118, e25557.	2.0	6

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19	Density functional theory from spherically symmetric densities. <i>Journal of Chemical Physics</i> , 2018, 149, 204112.	3.0	13
20	Time-independent density functional theory for degenerate excited states of Coulomb systems. <i>Theoretical Chemistry Accounts</i> , 2018, 137, 1.	1.4	22
21	Time-dependent pair density from the principle of minimum Fisher information. <i>Journal of Molecular Modeling</i> , 2018, 24, 234.	1.8	2
22	Fidelity as a marker of topological phase transitions in 2D Dirac materials. <i>International Journal of Quantum Chemistry</i> , 2018, 118, e25674.	2.0	6
23	Time-dependent pair density functional theory. <i>European Physical Journal B</i> , 2018, 91, 1.	1.5	4
24	Phase Space View of Ensembles of Excited States. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2018, 34, 492-496.	4.9	3
25	Thermodynamical transcription of the density functional theory with constant temperature. <i>International Journal of Quantum Chemistry</i> , 2017, 117, e25396.	2.0	12
26	Link between generalized nonidempotency and complexity measures. <i>Journal of Molecular Modeling</i> , 2017, 23, 159.	1.8	4
27	Fisher information and topological pressure. <i>Journal of Mathematical Physics</i> , 2017, 58, 052702.	1.1	0
28	Conceptual Problem with Calculating Electron Densities in Finite Basis Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 3961-3963.	5.3	21
29	Fisher information and Rényi entropies in dynamical systems. <i>Chaos</i> , 2017, 27, 073104.	2.5	7
30	Special Issue “50th Anniversary of the Kohn-Sham Theory” <i>Advances in Density Functional Theory & Computation</i> , 2016, 4, 45.	2.0	1
31	Euler equation for descriptors of the spherically symmetric coulomb systems. <i>International Journal of Quantum Chemistry</i> , 2016, 116, 862-866.	2.0	2
32	Fisher information and Rényi dimensions: A thermodynamical formalism. <i>Chaos</i> , 2016, 26, 083102.	2.5	9
33	Exchange-Correlation Catastrophe in Cu-Au: A Challenge for Semilocal Density Functional Approximations. <i>Physical Review Letters</i> , 2016, 117, 066401.	7.8	12
34	Alternative to the Kohn-Sham equations: The Pauli potential differential equation. <i>Physical Review A</i> , 2015, 92, .	2.5	11
35	Communication: Kohn-Sham theory for excited states of Coulomb systems. <i>Journal of Chemical Physics</i> , 2015, 143, 191101.	3.0	33
36	Detecting regular and chaotic behaviour in the parameter space by generalised statistical complexity measures. <i>Chaos, Solitons and Fractals</i> , 2015, 78, 26-32.	5.1	3

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37	Density scaling and virial theorem. <i>Molecular Physics</i> , 2015, 113, 1839-1842.	1.7	1
38	Relative Rényi entropy and fidelity susceptibility. <i>Europhysics Letters</i> , 2015, 109, 60002.	2.0	30
39	Fisher and Shannon information in orbital-free density functional theory. <i>International Journal of Quantum Chemistry</i> , 2015, 115, 1392-1395.	2.0	45
40	Cusp relation for the Pauli potential. <i>Physical Review A</i> , 2014, 90, .	2.5	12
41	Fisher and Shannon information from one-matrix. Link to the kinetic energy. <i>Chemical Physics Letters</i> , 2014, 597, 139-142.	2.6	13
42	Complexity measure and quantum shape-phase transitions in the two-dimensional limit of the vibron model. <i>Journal of Molecular Modeling</i> , 2014, 20, 2237.	1.8	3
43	Excited-state pair-density-functional theory. <i>Physical Review A</i> , 2014, 90, .	2.5	6
44	Shannon entropy density as a descriptor of Coulomb systems. <i>Chemical Physics Letters</i> , 2013, 556, 355-358.	2.6	44
45	A Density Functional Theory View of Quantum Phase Transitions. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 1068-1072.	5.3	12
46	Rényi entropy of the U(3) vibron model. <i>Journal of Mathematical Chemistry</i> , 2013, 51, 620-636.	1.5	9
47	Density functional fidelity susceptibility and Kullback-Leibler entropy. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 3098-3101.	2.1	9
48	Relationship between the effective potentials determining the density and the pair density. <i>Computational and Theoretical Chemistry</i> , 2013, 1003, 97-100.	2.5	1
49	Local coordinate, wave vector, Fisher and Shannon information in momentum representation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 286-290.	2.1	14
50	Kinetic Energy and Fisher Information. <i>Recent Advances in Computational</i> , 2013, , 387-400.	0.8	1
51	Quantum phase transitions via density-functional theory: Extension to the degenerate case. <i>Physical Review A</i> , 2013, 88, .	2.5	8
52	Theory of Excited States of Finite Systems in Coulomb External Potential. <i>Journal of Physics: Conference Series</i> , 2013, 410, 012155.	0.4	1
53	Pauli potential functional for spherical inhomogeneous electron liquids generated by a bare Coulomb field. <i>Physics and Chemistry of Liquids</i> , 2012, 50, 412-414.	1.2	3
54	Some model inhomogeneous electron liquid in D dimensions: relation between energy and chemical potential and a spatial generalisation of Kato's nuclear cusp theorem. <i>Physics and Chemistry of Liquids</i> , 2012, 50, 266-270.	1.2	3

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55	Signatures of quantum fluctuations in the Dicke model by means of Rényi uncertainty. Physical Review A, 2012, 85, .	2.5	35
56	Time-independent density-functional theory for excited states of Coulomb systems. Physical Review A, 2012, 85, .	2.5	53
57	Generalized complexity measures and chaotic maps. Chaos, 2012, 22, 023118.	2.5	7
58	Inequalities for phase-space Rényi entropies. International Journal of Quantum Chemistry, 2012, 112, 1285-1290.	2.0	10
59	Fisher information, Rényi entropy power and quantum phase transition in the Dicke model. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 3650-3655.	2.6	27
60	Density Scaling for Excited States. Progress in Theoretical Chemistry and Physics, 2012, , 185-197.	0.2	1
61	Rényi Entropy and Complexity. , 2011, , 215-235.		2
62	A generalized relative complexity measure. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P09016.	2.3	22
63	Functional derivative of the kinetic energy functional for spherically symmetric systems. Journal of Chemical Physics, 2011, 135, 044106.	3.0	27
64	Scaling of some chemical properties of tetrahedral and octahedral molecules plus almost spherical C and B cages. Journal of Mathematical Chemistry, 2011, 49, 2268-2274.	1.5	1
65	Rényi entropy and quantum phase transition in the Dicke model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 3066-3069.	2.1	31
66	Density scaling for multiplets. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 035001.	1.5	2
67	Density and pair-density scaling for deriving the Euler equation in density-functional and pair-density-functional theory. Physical Review A, 2011, 84, .	2.5	4
68	Time-dependent density functional theory as a thermodynamics. Computational and Theoretical Chemistry, 2010, 943, 48-52.	1.5	7
69	Relation between Fisher measures of information coming from pair distribution functions. Chemical Physics Letters, 2010, 490, 242-244.	2.6	19
70	The Pauli potential from the differential virial theorem. International Journal of Quantum Chemistry, 2010, 110, 2117-2120.	2.0	34
71	Proposed approximate relation in inhomogeneous electron liquids between exchange-only potential and its Slater counterpart. Physics and Chemistry of Liquids, 2010, 48, 648-651.	1.2	0
72	Ground- and excited-state cusp conditions for the pair density. Physical Review A, 2010, 82, .	2.5	9

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73	Pauli potential in terms of kinetic energy density and electron density in the leading Coulombic term of the nonrelativistic $1/Z$ expansion of spherical atomic ions. <i>Physical Review A</i> , 2010, 81, .	2.5	4
74	Exact integral relation between the triplet correlation function in the ground state of the completely polarised homogeneous electron fluid and the pair function: comparison with the classical liquid argon result. <i>Physics and Chemistry of Liquids</i> , 2009, 47, 5-8.	1.2	3
75	LMC complexity for the ground states of different quantum systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 2552-2555.	2.1	28
76	Relative Rényi entropy for atoms. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 2490-2494.	2.0	30
77	Maximum Rényi entropy principle and the generalized Thomas-Fermi model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 844-846.	2.1	32
78	Exact differential and integral constraints for the Pauli potential in the pair density functional theory. <i>Chemical Physics Letters</i> , 2009, 469, 353-356.	2.6	5
79	Binding Entropy and Its Application to Solids. <i>Journal of Physical Chemistry A</i> , 2009, 113, 9022-9029.	2.5	14
80	A generalized statistical complexity measure: Applications to quantum systems. <i>Journal of Mathematical Physics</i> , 2009, 50, .	1.1	51
81	Time-Independent Theories for a Single Excited State. , 2009, , .		1
82	Formally exact integral equation theory of the exchange-only potential in density functional theory: Refined closure approximation. <i>World Scientific Series in 20th Century Physics</i> , 2009, , 720-724.	0.0	0
83	Fisher-Rényi entropy product and information plane. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 6823-6825.	2.1	47
84	Local wave-vector, Shannon and Fisher information. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 1654-1656.	2.1	59
85	The Fisher-Shannon information plane for atoms. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 2428-2430.	2.1	49
86	Rényi information of atoms. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 4918-4922.	2.1	46
87	Alternative descriptors of Coulomb systems and their relationship to the kinetic energy. <i>Chemical Physics Letters</i> , 2008, 460, 343-346.	2.6	22
88	Electron-electron cusp condition and asymptotic behavior for the Pauli potential in pair density functional theory. <i>Journal of Chemical Physics</i> , 2008, 128, 114115.	3.0	14
89	Modeling the Pauli potential in the pair density functional theory. <i>Journal of Chemical Physics</i> , 2008, 129, 204108.	3.0	4
90	Differential virial theorem in density-functional theory in terms of the Pauli potential for spherically symmetric electron densities: Illustrative example for the family of Be-like atomic ions. <i>Physical Review A</i> , 2008, 78, .	2.5	8

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91	Asymptotic form at large r of a third-order linear homogeneous differential equation for the ground-state electron density of the He atom. Physical Review A, 2008, 77, .	2.5	0
92	Density scaling and relaxation of the Pauli principle. Journal of Chemical Physics, 2007, 126, 124111.	3.0	4
93	Alternatives to the electron density for describing Coulomb systems. Journal of Chemical Physics, 2007, 126, 144108.	3.0	31
94	Phase-space Fisher information. Chemical Physics Letters, 2007, 437, 132-137.	2.6	30
95	Fisher information and steric effect. Chemical Physics Letters, 2007, 449, 212-215.	2.6	69
96	Exact energy expression in the strong-interaction limit of the density functional theory. Philosophical Magazine, 2006, 86, 2101-2114.	1.6	2
97	Kinetic and exchange energy related non-locally in Hartree-Fock theory of an inhomogeneous electron liquid. Physics and Chemistry of Liquids, 2006, 44, 493-499.	1.2	1
98	Hierarchy of equations in the generalized density functional theory. International Journal of Quantum Chemistry, 2006, 106, 1043-1051.	2.0	29
99	Fisher information in a two-electron entangled artificial atom. Chemical Physics Letters, 2006, 425, 154-156.	2.6	76
100	Atomic Fisher information versus atomic number. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 360, 291-293.	2.1	43
101	Spherically and system-averaged pair density functional theory. Journal of Chemical Physics, 2006, 125, 184104.	3.0	23
102	Subspace density of the first excited state for two harmonically interacting electrons with isotropic harmonic confinement. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 335, 347-350.	2.1	5
103	A generalized Kohn-Sham scheme. Chemical Physics Letters, 2005, 411, 492-495.	2.6	8
104	Non-relativistic binding energies of heavy neutral atoms: Dependence of correlation energy on atomic number. Chemical Physics Letters, 2005, 416, 104-106.	2.6	4
105	Hardness and excitation energy. Journal of Chemical Sciences, 2005, 117, 437-440.	1.5	20
106	Generalized density functional theory for degenerate states. Journal of Chemical Physics, 2005, 122, 134107.	3.0	28
107	Density scaling and exchange-correlation energy. Journal of Chemical Physics, 2005, 123, 044105.	3.0	15
108	Effective potential in density matrix functional theory. Journal of Chemical Physics, 2004, 121, 6640-6648.	3.0	54

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109	Theories for individual excited states. <i>International Journal of Quantum Chemistry</i> , 2004, 99, 256-264.	2.0	7
110	Exact expressions for energy functional in the time-dependent density functional theory. <i>International Journal of Quantum Chemistry</i> , 2003, 92, 229-233.	2.0	2
111	Study of subspace density functional theory application of LSDA to excited states of atoms. <i>International Journal of Quantum Chemistry</i> , 2003, 92, 234-238.	2.0	6
112	Approximate ansatz for the expansion of the spherically averaged wave function in terms of interelectronic separation r_{12} for the Hookean atom, atomic ions, and the H ₂ molecule. <i>International Journal of Quantum Chemistry</i> , 2003, 95, 21-29.	2.0	6
113	Fisher information in density functional theory. <i>Journal of Chemical Physics</i> , 2003, 119, 9401-9405.	3.0	104
114	An approximation to the ensemble Kohn-Sham exchange potential for excited states of atoms. <i>Journal of Chemical Physics</i> , 2003, 119, 4141-4147.	3.0	12
115	Theories for excited states. <i>Advances in Quantum Chemistry</i> , 2003, 42, 363-381.	0.8	11
116	Ghost- and self-interaction-free ensemble calculations with local exchange-correlation potential for atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 4073-4080.	1.5	13
117	Pair Density Functional Theory. <i>Progress in Theoretical Chemistry and Physics</i> , 2003, , 79-87.	0.2	9
118	Density-matrix functional theory. <i>Physical Review A</i> , 2002, 66, .	2.5	69
119	THEORY FOR A SINGLE EXCITED STATE DIFFERENTIAL VIRIAL THEOREM. <i>Recent Advances in Computational</i> , 2002, , 247-256.	0.8	0
120	DENSITY FUNCTIONAL THEORY AS THERMODYNAMICS. , 2002, , 413-443.		6
121	Ten-Electron Central Field Problem: An Inhomogeneous Electron Liquid. <i>Physics and Chemistry of Liquids</i> , 2002, 40, 47-56.	1.2	4
122	Local kinetic energy and local temperature in the density-functional theory of electronic structure. <i>International Journal of Quantum Chemistry</i> , 2002, 90, 309-326.	2.0	139
123	Local self-interaction-free approximate exchange-correlation potentials in the variational density functional theory for individual excited states. <i>Chemical Physics Letters</i> , 2002, 366, 496-503.	2.6	5
124	Ground- and excited-state cusp conditions for the electron density. <i>Journal of Chemical Physics</i> , 2001, 115, 6300-6308.	3.0	48
125	Variational density-functional theory for degenerate excited states. <i>Physical Review A</i> , 2001, 63, .	2.5	82
126	Effective potential of a single excited state along the adiabatic path. <i>Advances in Quantum Chemistry</i> , 2001, 39, 35-46.	0.8	0

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127	An alternative optimized potential method for ensembles of excited states. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 2363-2370.	1.5	29
128	Exact results on the curvature of the electron density at the cusp in certain highly excited states of atoms. Chemical Physics Letters, 2000, 332, 154-158.	2.6	28
129	Remarks on density functional theory as a thermodynamics. Computational and Theoretical Chemistry, 2000, 501-502, 101-106.	1.5	17
130	Determination of the total electron density from its l-shell contribution. Computational and Theoretical Chemistry, 2000, 501-502, 107-113.	1.5	6
131	A method to get an analytical expression for the non-interacting kinetic energy density functional. Computational and Theoretical Chemistry, 2000, 501-502, 167-171.	1.5	12
132	Total energy versus one-electron energy differences in the excited-state density functional theory. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, L585-L589.	1.5	5
133	Higher-order cusp of the density in certain highly excited states of atoms and molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 1745-1751.	1.5	41
134	Differential equation for ground-state electron density of He-like ions for large atomic number. Chemical Physics Letters, 1999, 305, 429-432.	2.6	18
135	Variational Density-Functional Theory for an Individual Excited State. Physical Review Letters, 1999, 83, 4361-4364.	7.8	180
136	Exchange-Only Theory: Relation Between Exchange Energy, Its Functional Derivative and Eigenvalue Sums in an Inhomogeneous Electron Liquid. Physics and Chemistry of Liquids, 1999, 37, 671-676.	1.2	4
137	Density Functional Theory for A Single Excited State. , 1999, , 451-462.		5
138	Excitation energies in density functional theory: comparison of several methods for the H ₂ O, N ₂ , CO and C ₂ H ₄ molecules. Chemical Physics Letters, 1998, 296, 489-493.	2.6	28
139	Information entropy as a measure of the quality of an approximate electronic wave function. International Journal of Quantum Chemistry, 1998, 58, 323-327.	2.0	36
140	Optimized potential method for ensembles of excited states. International Journal of Quantum Chemistry, 1998, 69, 247-254.	2.0	34
141	Excited states in density functional theory. International Journal of Quantum Chemistry, 1998, 70, 681-691.	2.0	63
142	Density functional. Theory and application to atoms and molecules. Physics Reports, 1998, 298, 1-79.	25.6	151
143	Density functional theory for excited states. Advances in Quantum Chemistry, 1998, , 159-178.	0.8	26
144	Total electron density from thes-electron density. Physical Review A, 1998, 57, 3458-3461.	2.5	8

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145	Kohn-Sham equations for multiplets. <i>Physical Review A</i> , 1998, 57, 1672-1677.	2.5	51
146	Ratio of density gradient to electron density as a local wavenumber to characterize the ground state of spherical atoms. <i>Molecular Physics</i> , 1997, 90, 271-276.	1.7	27
147	Alternative derivation of the Krieger-Li-Iafrate approximation to the optimized-effective-potential method. <i>Physical Review A</i> , 1997, 55, 3465-3468.	2.5	44
148	Local ensemble exchange potential. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1996, 29, 389-394.	1.5	44
149	Coordinate scaling and adiabatic connection formula for ensembles of fractionally occupied excited states. <i>International Journal of Quantum Chemistry</i> , 1995, 56, 225-228.	2.0	41
150	Exact ensemble exchange potentials for multiplets. <i>International Journal of Quantum Chemistry</i> , 1995, 56, 297-301.	2.0	32
151	Exact and approximate exchange potentials in the density functional theory. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1994, 69, 779-785.	0.6	25
152	Excitation energies in the local density functional theory. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1994, 27, 233-240.	1.5	30
153	Relativistic density-functional theory for ensembles of excited states. <i>Physical Review A</i> , 1994, 49, 3074-3076.	2.5	42
154	Integral and regional virial theorems in density functional theory. <i>Journal of Chemical Sciences</i> , 1994, 106, 251-258.	1.5	6
155	Density functional theory as thermodynamics. <i>Journal of Chemical Sciences</i> , 1994, 106, 217-227.	1.5	25
156	Exchange energy in the exact exchange-only density functional theory. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1993, 26, 43-48.	1.5	41
157	Theory of the Inhomogeneous Electron Liquid, Transcending Hartree-Fock. <i>Physics and Chemistry of Liquids</i> , 1992, 24, 183-191.	1.2	2
158	Analysis of the Pauli potential of atoms and ions. <i>Acta Physica Hungarica</i> , 1991, 70, 321-331.	0.1	27
159	Excitation energies calculated with parameter-free exchange potential in the density functional theory. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1991, 24, 4691-4694.	1.5	33
160	Parameter-free exchange potential for excitation in the density-functional theory: Application to excitation energies within the fractional-occupation approach. <i>Physical Review A</i> , 1990, 42, 4388-4390.	2.5	54
161	Exact potential-phase relation for the ground state of the C atom. <i>Physical Review A</i> , 1989, 40, 554-557.	2.5	32