## Sabre Kais

List of Publications by Year in descending order

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SARDE KAIS

#	Article	IF	CITATIONS
1	Training a Quantum Annealing Based Restricted Boltzmann Machine on Cybersecurity Data. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 417-428.	3.4	18
2	Relaxation of stationary states on a quantum computer yields a unique spectroscopic fingerprint of the computer's noise. Communications Physics, 2022, 5, .	2.0	7
3	Geometrical picture of the electron–electron correlation at the large- <i>D</i> limit. Physical Chemistry Chemical Physics, 2022, 24, 9298-9307.	1.3	1
4	Variational Quantum Circuits to Prepare Low Energy Symmetry States. Symmetry, 2022, 14, 457.	1.1	5
5	The Quantum Condition Space. Advanced Quantum Technologies, 2022, 5, 2100158.	1.8	2
6	Tribute to Dor Ben-Amotz. Journal of Physical Chemistry B, 2022, 126, 2943-2945.	1.2	0
7	Dimensional interpolation for metallic hydrogen. Physical Chemistry Chemical Physics, 2021, 23, 7841-7848.	1.3	7
8	Magnetic flux noise in superconducting qubits and the gap states continuum. Scientific Reports, 2021, 11, 1813.	1.6	2
9	Maximal Entropy Approach for Quantum State Tomography. PRX Quantum, 2021, 2, .	3.5	17
10	Time-Domain Line-Shape Analysis from 2D Spectroscopy to Precisely Determine Hamiltonian Parameters for a Photosynthetic Complex. Journal of Physical Chemistry B, 2021, 125, 2812-2820.	1.2	5
11	Enhancement of Photovoltaic Current through Dark States in Donorâ€Acceptor Pairs of Tungstenâ€Based Transition Metal Diâ€Chalcogenides. Advanced Functional Materials, 2021, 31, 2100387.	7.8	19
12	Quantum computing for atomic and molecular resonances. Journal of Chemical Physics, 2021, 154, 194107.	1.2	8
13	Practical quantum encryption protocol with varying encryption configurations. Physical Review Research, 2021, 3, .	1.3	3
14	Implementation of Quantum Machine Learning for Electronic Structure Calculations of Periodic Systems on Quantum Computing Devices. Journal of Chemical Information and Modeling, 2021, 61, 2667-2674.	2.5	17
15	Training Restricted Boltzmann Machines With a D-Wave Quantum Annealer. Frontiers in Physics, 2021, 9, .	1.0	19
16	Dimensional Interpolation for Random Walk. Journal of Physical Chemistry A, 2021, 125, 7581-7587.	1.1	2
17	Convergence of a Reconstructed Density Matrix to a Pure State Using the Maximal Entropy Approach. Journal of Physical Chemistry A, 2021, 125, 7588-7595.	1.1	10
18	Qubit coupled cluster singles and doubles variational quantum eigensolver ansatz for electronic structure calculations. Quantum Science and Technology, 2021, 6, 015001.	2.6	45

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19	A universal quantum circuit design for periodical functions. New Journal of Physics, 2021, 23, 103022.	1.2	2
20	Statistical Correlation Between Quantum Entanglement and Spin–Orbit Coupling in Crossed Beam Molecular Dynamics. Advanced Quantum Technologies, 2021, 4, 2100098.	1.8	3
21	Statistical approach to quantum phase estimation. New Journal of Physics, 2021, 23, 113027.	1.2	5
22	Prime factorization using quantum variational imaginary time evolution. Scientific Reports, 2021, 11, 20835.	1.6	6
23	Quantum cluster algorithm for data classification. Materials Theory, 2021, 5, .	2.2	5
24	Quantum Machine-Learning for Eigenstate Filtration in Two-Dimensional Materials. Journal of the American Chemical Society, 2021, 143, 18426-18445.	6.6	22
25	Constructive Quantum Interference in Photochemical Reactions. Journal of Chemical Theory and Computation, 2021, 17, 7822-7826.	2.3	2
26	Machine learning framework for quantum sampling of highly constrained, continuous optimization problems. Applied Physics Reviews, 2021, 8, .	5.5	14
27	A quantum encryption design featuring confusion, diffusion, and mode of operation. Scientific Reports, 2021, 11, 23774.	1.6	6
28	Quantum Phase Estimation with Timeâ€Frequency Qudits in a Single Photon. Advanced Quantum Technologies, 2020, 3, 1900074.	1.8	28
29	Qudits and High-Dimensional Quantum Computing. Frontiers in Physics, 2020, 8, .	1.0	149
30	Hybrid Quantum-Classical Neural Network for Calculating Ground State Energies of Molecules. Entropy, 2020, 22, 828.	1.1	15
31	Unorthodox Dimensional Interpolations for He, Li, Be Atoms and Hydrogen Molecule. Frontiers in Physics, 2020, 8, .	1.0	6
32	Characterization of Quantum States Based on Creation Complexity. Advanced Quantum Technologies, 2020, 3, 2000043.	1.8	3
33	Spin-momentum entanglement in a Bose–Einstein condensate. Physical Chemistry Chemical Physics, 2020, 22, 25669-25674.	1.3	2
34	Gap states and valley-spin filtering in transition metal dichalcogenide monolayers. Physical Review B, 2020, 101, .	1.1	7
35	A quantum algorithm for evolving open quantum dynamics on quantum computing devices. Scientific Reports, 2020, 10, 3301.	1.6	73
36	Introducing Open Boundary Conditions in Modeling Nonperiodic Materials and Interfaces: The Impact of the Periodicity Assumption. , 2020, 2, 247-253.		4

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37	Bifacial Schottkyâ€Junction Plasmonicâ€Based Solar Cell. Energy Technology, 2020, 8, 1901280.	1.8	3
38	Elucidation of near-resonance vibronic coherence lifetimes by nonadiabatic electronic-vibrational state character mixing. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18263-18268.	3.3	34
39	Entanglement classifier in chemical reactions. Science Advances, 2019, 5, eaax5283.	4.7	12
40	Context-aware quantum simulation of a matrix stored in quantum memory. Quantum Information Processing, 2019, 18, 1.	1.0	2
41	Role of Water on the Rotational Dynamics of the Organic Methylammonium Cation: A First Principles Analysis. Scientific Reports, 2019, 9, 668.	1.6	15
42	Quantum computing methods for electronic states of the water molecule. Molecular Physics, 2019, 117, 2069-2082.	0.8	33
43	Enhancing the electronic dimensionality of hybrid organic–inorganic frameworks by hydrogen bonded molecular cations. Materials Horizons, 2019, 6, 1187-1196.	6.4	4
44	Orientational Dynamics of Transition Dipoles and Exciton Relaxation in LH2 from Ultrafast Two-Dimensional Anisotropy. Journal of Physical Chemistry Letters, 2019, 10, 270-277.	2.1	11
45	Tuning the Stereoselectivity and Solvation Selectivity at Interfacial and Bulk Environments by Changing Solvent Polarity: Isomerization of Glyoxal in Different Solvent Environments. Journal of the American Chemical Society, 2018, 140, 5535-5543.	6.6	23
46	Dark states and delocalization: Competing effects of quantum coherence on the efficiency of light harvesting systems. Journal of Chemical Physics, 2018, 148, 064304.	1.2	18
47	Correlated Protein Environments Drive Quantum Coherence Lifetimes in Photosynthetic Pigment-Protein Complexes. CheM, 2018, 4, 138-149.	5.8	45
48	Improved Photoactivity of Pyroxene Silicates by Cation Substitutions. ChemPhysChem, 2018, 19, 943-953.	1.0	2
49	Plasmonically Enhanced Schottky Solar Cell. , 2018, , .		0
50	Direct application of the phase estimation algorithm to find the eigenvalues of the Hamiltonians. Chemical Physics, 2018, 514, 87-94.	0.9	11
51	Electronic Structure Calculations and the Ising Hamiltonian. Journal of Physical Chemistry B, 2018, 122, 3384-3395.	1.2	68
52	Double-excitation manifold's effect on exciton transfer dynamics and the efficiency of coherent light harvesting. Physical Chemistry Chemical Physics, 2018, 20, 30032-30040.	1.3	13
53	Quantum Annealing for Prime Factorization. Scientific Reports, 2018, 8, 17667.	1.6	98
54	Quantum machine learning for electronic structure calculations. Nature Communications, 2018, 9, 4195.	5.8	99

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55	Probing entropic uncertainty relations under a two-atom system coupled with structured bosonic reservoirs. Quantum Information Processing, 2018, 17, 1.	1.0	28
56	A generalized circuit for the Hamiltonian dynamics through the truncated series. Quantum Information Processing, 2018, 17, 1.	1.0	2
57	Pendular alignment and strong chemical binding are induced in helium dimer molecules by intense laser fields. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9058-E9066.	3.3	7
58	Canonical Schottky barrier heights of transition metal dichalcogenide monolayers in contact with a metal. Physical Review B, 2018, 97, .	1.1	12
59	Effects of Hawking Radiation on the Entropic Uncertainty in a Schwarzschild Spaceâ€Time. Annalen Der Physik, 2018, 530, 1800080.	0.9	48
60	Connecting bright and dark states through accidental degeneracy caused by lack of symmetry. Journal of Chemical Physics, 2018, 148, 204307.	1.2	6
61	Solar Cell Materials by Design: Hybrid Pyroxene Cornerâ€5haring VO <sub>4</sub> Tetrahedral Chains. ChemSusChem, 2017, 10, 1931-1942.	3.6	10
62	Mechanism of Me–Re Bond Addition to Platinum(II) and Dioxygen Activation by the Resulting Pt–Re Bimetallic Center. Inorganic Chemistry, 2017, 56, 2145-2152.	1.9	10
63	Experimental evaluation of the generalized vibrational theory of G protein-coupled receptor activation. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5595-5600.	3.3	16
64	Entropic uncertainty relations for Markovian and non-Markovian processes under a structured bosonic reservoir. Scientific Reports, 2017, 7, 1066.	1.6	67
65	Ring flipping in heterobimetallic Re-Ir complexes and its effect on structural isomerism: Dynamic NMR and DFT study. Journal of Organometallic Chemistry, 2017, 843, 62-65.	0.8	1
66	Pursuit of the Kramers-Henneberger atom. Chemical Physics Letters, 2017, 683, 240-246.	1.2	21
67	Kinetic energy density for orbitalâ€free density functional calculations by axiomatic approach. International Journal of Quantum Chemistry, 2017, 117, e25373.	1.0	9
68	An ancilla-based quantum simulation framework for non-unitary matrices. Quantum Information Processing, 2017, 16, 1.	1.0	9
69	Cation Effect on Hot Carrier Cooling in Halide Perovskite Materials. Journal of Physical Chemistry Letters, 2017, 8, 4439-4445.	2.1	97
70	Interfaces Select Specific Stereochemical Conformations: The Isomerization of Glyoxal at the Liquid Water Interface. Journal of the American Chemical Society, 2017, 139, 27-30.	6.6	38
71	Reduced work function of graphene by metal adatoms. Applied Surface Science, 2017, 394, 98-107.	3.1	36
72	Hydrogen bonding and orientation effects on the accommodation of methylamine at the air-water interface. Journal of Chemical Physics, 2016, 144, 214701.	1.2	34

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73	Analytic <i>ab initio</i> -based molecular interaction potential for the BrOâ‹H2O complex. Journal of Chemical Physics, 2016, 144, 204121.	1.2	4
74	Dark states enhance the photocell power via phononic dissipation. Physical Chemistry Chemical Physics, 2016, 18, 31845-31849.	1.3	13
75	Prospects for quantum computing with an array of ultracold polar paramagnetic molecules. Journal of Chemical Physics, 2016, 144, 094301.	1.2	62
76	Efficient Remote Preparation of Four-Qubit Cluster-Type Entangled States with Multi-Party Over Partially Entangled Channels. International Journal of Theoretical Physics, 2016, 55, 3454-3466.	0.5	17
77	Hydrogen Bonding and Stability of Hybrid Organic–Inorganic Perovskites. ChemSusChem, 2016, 9, 2648-2655.	3.6	109
78	Quantum Computation using Arrays of <i>N</i> Polar Molecules in Pendular States. ChemPhysChem, 2016, 17, 3714-3722.	1.0	22
79	Hydrogen bonding: a mechanism for tuning electronic and optical properties of hybrid organic–inorganic frameworks. Npj Computational Materials, 2016, 2, .	3.5	32
80	Enhancing Intrinsic Stability of Hybrid Perovskite Solar Cell by Strong, yet Balanced, Electronic Coupling. Scientific Reports, 2016, 6, 30305.	1.6	42
81	Solving Set Cover with Pairs Problem using Quantum Annealing. Scientific Reports, 2016, 6, 33957.	1.6	10
82	Singularity of the time-energy uncertainty in adiabatic perturbation and cycloids on a Bloch sphere. Scientific Reports, 2016, 6, 20824.	1.6	6
83	On the divergence of gradient expansions for kinetic energy functionals in the potential functional theory. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 285202.	0.7	5
84	Enhancing the carrier thermalization time in organometallic perovskites by halide mixing. Physical Chemistry Chemical Physics, 2016, 18, 5219-5231.	1.3	61
85	Mechanism of Isomerization and Methyl Migration in Heterobimetallic Rhenium–Iridium Complexes: Experimental and DFT Study. Organometallics, 2016, 35, 605-611.	1.1	5
86	The quantum chemical search for novel materials and the issue of data processing: The InfoMol project. Journal of Computational Science, 2016, 15, 65-73.	1.5	5
87	The radical pair mechanism and the avian chemical compass: Quantum coherence and entanglement. International Journal of Quantum Chemistry, 2015, 115, 1327-1341.	1.0	29
88	An efficient descriptor model for designing materials for solar cells. Npj Computational Materials, 2015, 1, .	3.5	39
89	Correction to kinetic energy density functional using exactly solvable model. Physica Scripta, 2015, 90, 125401.	1.2	3
90	Neuroreceptor Activation by Vibration-Assisted Tunneling. Scientific Reports, 2015, 5, 9990.	1.6	16

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91	Theoretical limits of photovoltaics efficiency and possible improvements by intuitive approaches learned from photosynthesis and quantum coherence. Renewable and Sustainable Energy Reviews, 2015, 43, 1073-1089.	8.2	153
92	Hamiltonian gadgets with reduced resource requirements. Physical Review A, 2015, 91, .	1.0	19
93	Delocalized quantum states enhance photocell efficiency. Physical Chemistry Chemical Physics, 2015, 17, 5743-5750.	1.3	49
94	Domain Walls Conductivity in Hybrid Organometallic Perovskites and Their Essential Role in CH3NH3PbI3 Solar Cell High Performance. Scientific Reports, 2015, 5, 11467.	1.6	41
95	Generalized Remote Preparation of Arbitrary m-qubit Entangled States via Genuine Entanglements. Entropy, 2015, 17, 1755-1774.	1.1	23
96	Revealing the role of organic cations in hybrid halide perovskite CH3NH3PbI3. Nature Communications, 2015, 6, 7026.	5.8	564
97	Reducing the number of ancilla qubits and the gate count required for creating large controlled operations. Quantum Information Processing, 2015, 14, 891-899.	1.0	2
98	Simulated two-dimensional electronic spectroscopy of the eight-bacteriochlorophyll FMO complex. Journal of Chemical Physics, 2014, 141, 234105.	1.2	11
99	Efficient method for localised functions using domain transformation and Fourier sine series. Molecular Physics, 2014, 112, 762-769.	0.8	3
100	An agent-based model approach to multi-phase life-cycle for contact inhibited, anchorage dependent cells. Interdisciplinary Sciences, Computational Life Sciences, 2014, 6, 312-322.	2.2	0
101	Infrared-dressed entanglement of cold open-shell polar molecules for universal matchgate quantum computing. New Journal of Physics, 2014, 16, 075001.	1.2	44
102	Quantum random state generation with predefined entanglement constraint. International Journal of Quantum Information, 2014, 12, 1450030.	0.6	2
103	Transitionless driving on adiabatic search algorithm. Journal of Chemical Physics, 2014, 141, 224108.	1.2	8
104	Experimental realization of quantum algorithm for solving linear systems of equations. Physical Review A, 2014, 89, .	1.0	82
105	Time-dependent density functional theory of coupled electronic lattice motion in quasi-two-dimensional crystals. Physical Review B, 2014, 89, .	1.1	13
106	Quadratic constrained mixed discrete optimization with an adiabatic quantum optimizer. Physical Review A, 2014, 90, .	1.0	1
107	Multiple network alignment on quantum computers. Quantum Information Processing, 2014, 13, 2653-2666.	1.0	4
108	Spectral Method for Solving the Nonlinear Thomas-Fermi Equation Based on Exponential Functions. Journal of Applied Mathematics, 2014, 2014, 1-8.	0.4	8

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109	A universal quantum circuit scheme for finding complex eigenvalues. Quantum Information Processing, 2014, 13, 333-353.	1.0	18
110	Using Quantum Games To Teach Quantum Mechanics, Part 2. Journal of Chemical Education, 2014, 91, 423-427.	1.1	6
111	Using Quantum Games To Teach Quantum Mechanics, Part 1. Journal of Chemical Education, 2014, 91, 417-422.	1.1	5
112	Sensitivity and entanglement in the avian chemical compass. Physical Review E, 2014, 90, 042707.	0.8	26
113	Influence of the intensity gradient upon HHG from free electrons scattered by an intense laser beam. Applied Physics B: Lasers and Optics, 2014, 117, 95-101.	1.1	0
114	A Density-Matrix Renormalization Group Study of a One-Dimensional Incommensurate Quantum Frenkel–Kontorova Model. Journal of the Physical Society of Japan, 2014, 83, 094605.	0.7	2
115	Quantum Phase Transition in One-Dimensional Commensurate Frenkel–Kontorova Model. Journal of the Physical Society of Japan, 2014, 83, 124603.	0.7	2
116	Manipulation of molecules with electromagnetic fields. Molecular Physics, 2013, 111, 1648-1682.	0.8	235
117	The interference effect of laser-assisted bremsstrahlung emission in Coulomb fields of two nuclei. Journal of Applied Physics, 2013, 114, 124904.	1.1	14
118	Quantum confinement and negative heat capacity. Europhysics Letters, 2013, 104, 16004.	0.7	9
119	Implementation of quantum logic gates using polar molecules in pendular states. Journal of Chemical Physics, 2013, 138, 024104.	1.2	60
120	Quantum algorithm and circuit design solving the Poisson equation. New Journal of Physics, 2013, 15, 013021.	1.2	102
121	Avalanches in the raise and peel model in the presence of a wall. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 265001.	0.7	0
122	Quantum criticality analysis by finite-size scaling and exponential basis sets. Physical Review E, 2013, 87, 043308.	0.8	9
123	Degree Distribution in Quantum Walks on Complex Networks. Physical Review X, 2013, 3, .	2.8	40
124	Quantum coherence and entanglement in the avian compass. Physical Review E, 2013, 87, 062704.	0.8	52
125	Persistence of entanglement in thermal states of spin systems. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 245501.	0.6	12
126	Ground-state stability and criticality of two-electron atoms with screened Coulomb potentials using the B-splines basis set. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 235003.	0.6	28

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127	Quantum circuit design for solving linear systems of equations. Molecular Physics, 2012, 110, 1675-1680.	0.8	38
128	Dimensional scaling treatment with relativistic corrections for stable multiply charged atomic ions in high-frequency super-intense laser fields. Journal of Chemical Physics, 2012, 136, 034114.	1.2	4
129	Universal programmable quantum circuit schemes to emulate an operator. Journal of Chemical Physics, 2012, 137, 234112.	1.2	24
130	Finite-size scaling for quantum criticality using the finite-element method. Physical Review E, 2012, 85, 036706.	0.8	3
131	Population and coherence dynamics in light harvesting complex II (LH2). Journal of Chemical Physics, 2012, 137, 084110.	1.2	20
132	Tuning entanglement and ergodicity in two-dimensional spin systems using impurities and anisotropy. Physical Review A, 2012, 85, .	1.0	14
133	Multipartite quantum entanglement evolution in photosynthetic complexes. Journal of Chemical Physics, 2012, 137, 074112.	1.2	42
134	Scaling Mount Impossible: A Festschrift for Dudley Herschbach. Molecular Physics, 2012, 110, 1537-1537.	0.8	6
135	Group leaders optimization algorithm. Molecular Physics, 2011, 109, 761-772.	0.8	34
136	Entanglement of polar symmetric top molecules as candidate qubits. Journal of Chemical Physics, 2011, 135, 154102.	1.2	55
137	Entanglement dynamics of one-dimensional driven spin systems in time-varying magnetic fields. Physical Review A, 2011, 84, .	1.0	16
138	Finite Size Scaling for Criticality of the SchrĶdinger Equation. , 2011, , 91-110.		0
139	Entanglement of polar molecules in pendular states. Journal of Chemical Physics, 2011, 134, 124107.	1.2	53
140	Modified Scaled Hierarchical Equation of Motion Approach for the Study of Quantum Coherence in Photosynthetic Complexes. Journal of Physical Chemistry B, 2011, 115, 1531-1537.	1.2	120
141	Supersymmetry identifies molecular Stark states whose eigenproperties can be obtained analytically. New Journal of Physics, 2011, 13, 063036.	1.2	14
142	Dynamics of entanglement in a two-dimensional spin system. Physical Review A, 2011, 83, .	1.0	20
143	Supersymmetric factorization yields exact solutions to the molecular Stark-effect problem for stretched states. Physical Review A, 2011, 83, .	1.0	12
144	Decomposition of unitary matrices for finding quantum circuits: Application to molecular Hamiltonians. Journal of Chemical Physics, 2011, 134, 144112.	1.2	45

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145	Communications: Entanglement switch for dipole arrays. Journal of Chemical Physics, 2010, 132, 121104.	1.2	21
146	Exact calculation of entanglement in a <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"&gt;<mml:mrow><mml:mn>19</mml:mn></mml:mrow></mml:math> -site two-dimensional spin system. Physical Review A, 2010, 81, .	1.0	16
147	Study of electronic structure and dynamics of interacting free radicals influenced by water. Journal of Chemical Physics, 2009, 130, 124312.	1.2	19
148	Comparison study of finite element and basis set methods for finite size scaling. Journal of Chemical Physics, 2009, 131, .	1.2	7
149	Temperature Dependent Electron Binding in (H <sub>2</sub> O) <sub>8</sub> . Journal of Physical Chemistry A, 2009, 113, 10886-10890.	1.1	5
150	Simulated quantum computation of global minima. Molecular Physics, 2009, 107, 2015-2023.	0.8	4
151	Dimensional scaling for stability of two particles in a dipole field. Chemical Physics Letters, 2008, 461, 127-130.	1.2	9
152	Dimensional scaling treatment of stability of simple diatomic molecules induced by superintense, high-frequency laser fields. Journal of Chemical Physics, 2008, 129, 214110.	1.2	16
153	Entanglement, Berry phases, and level crossings for the atomic Breit-Rabi Hamiltonian. Physical Review A, 2008, 78, .	1.0	25
154	Quantum algorithm for obtaining the energy spectrum of molecular systems. Physical Chemistry Chemical Physics, 2008, 10, 5388.	1.3	95
155	Finite Element Method for Finite-Size Scaling in Quantum Mechanics. Journal of Physical Chemistry A, 2008, 112, 5448-5452.	1.1	5
156	Nuclear-induced time evolution of entanglement of two-electron spins in anisotropically coupled quantum dot. Molecular Physics, 2008, 106, 1777-1786.	0.8	6
157	Critical conditions for stable dipole-bound dianions. Journal of Chemical Physics, 2008, 128, 044307.	1.2	6
158	DYNAMICS OF ENTANGLEMENT FOR TWO-ELECTRON ATOMS. International Journal of Quantum Information, 2008, 06, 303-316.	0.6	6
159	Stability conditions for hydrogen-antihydrogen–like quasimolecules. Physical Review A, 2008, 77, .	1.0	2
160	Finite size scaling with gaussian basis sets. Molecular Physics, 2008, 106, 203-212.	0.8	5
161	Dimensional scaling treatment of stability of atomic anions induced by superintense, high-frequency laser fields. Journal of Chemical Physics, 2007, 127, 094301.	1.2	15
162	Internal entanglement amplification by external interactions. Physical Review A, 2007, 76, .	1.0	5

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163	Frequency-dependent stabilization of <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"&gt;<mml:mrow><mml:mrow><mml:mtext>He</mml:mtext></mml:mrow><mml:mo>â^ a superintense laser field. Physical Review A, 2007, 76, .</mml:mo></mml:mrow></mml:math>	' <b>₄/क़</b> ml:mc	∍ <b>⊾s/</b> mml:m
164	Entanglement, Electron Correlation, and Density Matrices. Advances in Chemical Physics, 2007, , 493-535.	0.3	35
165	Quantum Entanglement and Electron Correlation in Molecular Systems. Israel Journal of Chemistry, 2007, 47, 59-65.	1.0	18
166	Entanglement and electron correlation in quantum chemistry calculations. Journal of Modern Optics, 2006, 53, 2543-2558.	0.6	48
167	Quantum teleportation in one-dimensional quantum dots system. Chemical Physics Letters, 2006, 421, 338-342.	1.2	17
168	Quantum criticality at the infinite complete basis set limit: A thermodynamic analog of the Yang and Lee theorem. Chemical Physics Letters, 2006, 423, 45-49.	1.2	4
169	ENTANGLEMENT AND QUANTUM PHASE TRANSITION IN A ONE-DIMENSIONAL SYSTEM OF QUANTUM DOTS WITH DISORDER. International Journal of Quantum Information, 2006, 04, 827-835.	0.6	6
170	New stable multiply charged negative atomic ions in linearly polarized superintense laser fields. Journal of Chemical Physics, 2006, 124, 201108.	1.2	20
171	Time evolution of a single spin inhomogeneously coupled to an interacting spin environment. Journal of Chemical Physics, 2006, 124, 144513.	1.2	15
172	Entanglement evolution of one-dimensional spin systems in external magnetic fields. Physical Review A, 2006, 73, .	1.0	39
173	Discontinuity of Shannon information entropy for two-electron atoms. Chemical Physics, 2005, 309, 127-131.	0.9	44
174	Entanglement as measure of electron–electron correlation in quantum chemistry calculations. Chemical Physics Letters, 2005, 413, 1-5.	1.2	99
175	DYNAMICS OF ENTANGLEMENT FOR ONE-DIMENSIONAL SPIN SYSTEMS IN AN EXTERNAL TIME-DEPENDENT MAGNETIC FIELD. International Journal of Quantum Information, 2005, 03, 483-500.	0.6	16
176	Graph Theory for Fused Cubic Clusters of Water Dodecamer. Journal of Physical Chemistry A, 2005, 109, 12036-12045.	1.1	14
177	Finite size scaling for the atomic Shannon-information entropy. Journal of Chemical Physics, 2004, 121, 5611-5617.	1.2	49
178	Scaling of entanglement at a quantum phase transition for a two-dimensional array of quantum dots. Physical Review A, 2004, 70, .	1.0	16
179	Electron localization–delocalization transitions in dissociation of the C4â^ anion: A large-Danalysis. Journal of Chemical Physics, 2004, 120, 2199-2207.	1.2	3
180	Finite-size scaling for critical conditions for stable quadrupole-bound anions. Journal of Chemical Physics, 2004, 120, 8412-8419.	1.2	24

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181	Entanglement of formation for one-dimensional magnetic systems with defects. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 322, 137-145.	0.9	29
182	Combined effects of disorders and electron–electron interactions upon metal–insulator transition in 2D nonbipartite lattice. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 316, 265-270.	0.9	2
183	Finite size scaling for critical conditions for stable dipole-bound anions. Chemical Physics Letters, 2003, 372, 205-209.	1.2	23
184	Metal-insulator transition in the Hubbard model on a triangular lattice with disorders: Renormalization group approach. International Journal of Quantum Chemistry, 2003, 93, 360-374.	1.0	2
185	Finite-Size Scaling for Atomic and Molecular Systems. Advances in Chemical Physics, 2003, , 1-99.	0.3	44
186	On the interactions between atmospheric radicals and cloud droplets: A molecular picture of the interface. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 9686-9690.	3.3	38
187	Tuning the entanglement for a one-dimensional magnetic system with anisotropic coupling and impurities. Physical Review A, 2003, 67, .	1.0	58
188	SCALING OF ENTANGLEMENT IN FINITE ARRAYS OF EXCHANGE-COUPLED QUANTUM DOTS. International Journal of Quantum Information, 2003, 01, 375-386.	0.6	6
189	Lifetimes of metastable spherical carbon cluster dianions. Molecular Physics, 2002, 100, 475-481.	0.8	9
190	Finite-size scaling for Mott metal-insulator transition on a half filled nonpartite lattice. Physical Review B, 2002, 66, .	1.1	8
191	The Repulsive Coulomb Barrier along a Dissociation Path of the Be Dianion. Journal of the American Chemical Society, 2002, 124, 11723-11729.	6.6	17
192	Size Effects in the Electronic Properties of Finite Arrays of Exchange-Coupled Quantum Dots. Journal of Physical Chemistry B, 2002, 106, 12847-12850.	1.2	13
193	Real-space renormalization group study of the Hubbard model on a non-bipartite lattice. International Journal of Molecular Sciences, 2002, 3, 4-16.	1.8	11
194	Potential energy surface for the hydroperoxy and water (HO2·H2O) radical complex. Molecular Physics, 2002, 100, 247-253.	0.8	11
195	On the crossing of electronic energy levels of diatomic molecules at the large-Dlimit. Journal of Chemical Physics, 2001, 114, 9697-9705.	1.2	5
196	Resonance states of atomic anions. International Journal of Quantum Chemistry, 2001, 82, 255-261.	1.0	18
197	Quantum criticality at the large-dimensional limit: Three-body Coulomb systems. International Journal of Quantum Chemistry, 2001, 85, 307-314.	1.0	9
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