List of Publications by Year in descending order

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IOHN F DORSON

#	Article	IF	CITATIONS
1	Towards efficient description of type-C London dispersion forces between low-dimensional metallic nanostructures. Electronic Structure, 2021, 3, 044001.	2.8	5
2	Does the exchange–correlation kernel fxc have a very long-ranged dependence on the groundstate electron density?. Theoretical Chemistry Accounts, 2018, 137, 1.	1.4	1
3	Faraday cage screening reveals intrinsic aspects of the van der Waals attraction. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E10295-E10302.	7.1	12
4	Casimir–Polder Size Consistency: A Constraint Violated by Some Dispersion Theories. Journal of Chemical Theory and Computation, 2017, 13, 5829-5833.	5.3	8
5	Spooky correlations and unusual van der Waals forces between gapless and near-gapless molecules. Journal of Chemical Physics, 2016, 145, 204107.	3.0	5
6	2D Structures Beyond Graphene. Semiconductors and Semimetals, 2016, 95, 1-33.	0.7	8
7	Layer response theory: Energetics of layered materials from semianalytic high-level theory. Physical Review B, 2016, 93, .	3.2	11
8	Density functional theory analysis of structural and electronic properties of orthorhombic perovskite CH ₃ NH ₃ PbI ₃ . Physical Chemistry Chemical Physics, 2014, 16, 1424-1429.	2.8	306
9	Beyond pairwise additivity in London dispersion interactions. International Journal of Quantum Chemistry, 2014, 114, 1157-1161.	2.0	103
10	How Many-Body Effects Modify the van der Waals Interaction between Graphene Sheets. Physical Review X, 2014, 4, .	8.9	35
11	Shear induced formation of carbon and boron nitride nano-scrolls. Nanoscale, 2013, 5, 498-502.	5.6	68
12	The flexible nature of exchange, correlation, and Hartree physics: Resolving "delocalization―errors in a "correlation free―density functional. Journal of Chemical Physics, 2013, 138, 014103.	3.0	37
13	Electron affinities and ionisation potentials for atoms via "benchmark―tdDFT calculations with and without exchange kernels. Journal of Chemical Physics, 2013, 138, 014109.	3.0	12
14	Assessment of range-separated time-dependent density-functional theory for calculating <i>C</i> 6 dispersion coefficients. Journal of Chemical Physics, 2013, 138, 194106.	3.0	20
15	Dispersion corrections in graphenic systems: a simple and effective model of binding. Journal of Physics Condensed Matter, 2013, 25, 445010.	1.8	31
16	Effects of a finite Dirac cone on the dispersion properties of graphite. Physical Review B, 2013, 87, .	3.2	15
17	Binding and interlayer force in the near-contact region of two graphite slabs: Experiment and theory. Journal of Chemical Physics, 2013, 139, 224704.	3.0	21
18	Correlation energies beyond the random-phase approximation: Inhomogeneous Singwi-Tosi-Land-Sjolander functional applied to spherical atoms and ions. Physical Review A, 2012, 85, .	2.5	20

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19	Vortex fluidic exfoliation of graphite and boron nitride. Chemical Communications, 2012, 48, 3703.	4.1	245
20	Calculation of dispersion energies. Journal of Physics Condensed Matter, 2012, 24, 073201.	1.8	187
21	Dispersion (van der Waals) Forces and TDDFT. Lecture Notes in Physics, 2012, , 417-441.	0.7	10
22	Quantum continuum mechanics made simple. Journal of Chemical Physics, 2012, 136, 204115.	3.0	4
23	Dispersion and induction interactions of graphene with nanostructures. Surface Science, 2011, 605, 1621-1632.	1.9	16
24	Dispersion interaction in hydrogen-chain models. Journal of Chemical Physics, 2011, 134, 114106.	3.0	26
25	Efficient, long-range correlation from occupied wave functions only. Physical Review B, 2011, 84, .	3.2	8
26	Cohesive Properties and Asymptotics of the Dispersion Interaction in Graphite by the Random Phase Approximation. Physical Review Letters, 2010, 105, 196401.	7.8	330
27	van der Waals dispersion power laws for cleavage, exfoliation, and stretching in multiscale, layered systems. Physical Review B, 2009, 79, .	3.2	25
28	Dispersion interaction between crossed conducting wires. Physical Review A, 2009, 80, .	2.5	15
29	Inhomogeneous STLS theory and TDCDFT. Physical Chemistry Chemical Physics, 2009, 11, 4528.	2.8	10
30	Validity Comparison Between Asymptotic Dispersion Energy Formalisms for Nanomaterials. Journal of Computational and Theoretical Nanoscience, 2009, 6, 960-971.	0.4	9
31	Theoretical and semiempirical correction to the long-range dispersion power law of stretched graphite. Physical Review B, 2008, 77, .	3.2	33
32	Enhanced dispersion interaction between quasi-one-dimensional conducting collinear structures. Physical Review B, 2008, 77, .	3.2	17
33	Unusual features of the dispersion force in layered and striated nanostructures. Surface Science, 2007, 601, 5667-5672.	1.9	5
34	Asymptotics of the Dispersion Interaction: Analytic Benchmarks for van der Waals Energy Functionals. Physical Review Letters, 2006, 96, 073201.	7.8	314
35	Theory of the Long-Ranged Interaction between a Graphene Plane and Various Substrates. , 2006, , .		0
36	Theory of Cohesive Forces in Layered and Striated Nanostructures: Some Surprises. , 2006, , .		0

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37	Soft cohesive forces. International Journal of Quantum Chemistry, 2005, 101, 579-598.	2.0	82
38	Spin-resolved correlation kinetic energy of the spin-polarized electron gas. Physical Review B, 2004, 70, .	3.2	4
39	Testing the local density approximation with energy-versus-separation curves of jellium slab pairs. Physical Review B, 2004, 69, .	3.2	13
40	Collisionless hydrodynamics for one-dimensional motion of inhomogeneous degenerate electron gases: Equivalence of two recent descriptions. Physical Review B, 2002, 66, .	3.2	6
41	Correlation energies of inhomogeneous many-electron systems. Physical Review B, 2002, 66, .	3.2	55
42	Prediction of Dispersion Forces: Is There a Problem?. Australian Journal of Chemistry, 2001, 54, 513.	0.9	148
43	Some Experimental Prospects involving Parabolic Quantum Wells. Australian Journal of Physics, 2000, 53, 119.	0.6	2
44	Energy-optimized local exchange-correlation kernel for the electron gas: Application to van der Waals forces. Physical Review B, 2000, 62, 10038-10045.	3.2	86
45	A Novel Constraint for the Simplified Description of Dispersion Forces. Australian Journal of Physics, 2000, 53, 575.	0.6	6
46	Successful Test of a Seamless van der Waals Density Functional. Physical Review Letters, 1999, 82, 2123-2126.	7.8	188
47	ELECTRON DENSITY FUNCTIONAL THEORY. International Journal of Modern Physics B, 1999, 13, 511-523.	2.0	4
48	Toward the description of van der Waals interactions within density functional theory. Journal of Computational Chemistry, 1999, 20, 12-22.	3.3	106
49	Prospects for a van der Waals density functional. International Journal of Quantum Chemistry, 1998, 69, 615-618.	2.0	18
50	Van der Waals Functionals via Local Approximations for Susceptibilities. , 1998, , 261-284.		3
51	Time-Dependent Density-Functional Theory. , 1998, , 43-53.		3
52	Time-Dependent Density Functional Theory beyond Linear Response: An Exchange-Correlation Potential with Memory. Physical Review Letters, 1997, 79, 1905-1908.	7.8	99
53	Artefacts in non-contact mode force microscopy: the role of adsorbed moisture. Ultramicroscopy, 1996, 63, 115-124.	1.9	13
54	Constraint Satisfaction in Local and Gradient Susceptibility Approximations: Application to a van der Waals Density Functional. Physical Review Letters, 1996, 76, 1780-1783.	7.8	177

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55	Beyond-pair interactions in the Pd-H2system. Journal of Physics Condensed Matter, 1995, 7, 5815-5833.	1.8	1
56	Friedel Oscillations in Condensed Matter Calculations. , 1995, , 139-162.		1
57	Metallic Surfaces and Density Functional Theory. NATO ASI Series Series B: Physics, 1995, , 393-430.	0.2	3
58	Excitation modes of neutral jellium slabs. Physical Review B, 1994, 49, 14700-14707.	3.2	37
59	Harmonic-Potential Theorem: Implications for Approximate Many-Body Theories. Physical Review Letters, 1994, 73, 2244-2247.	7.8	290
60	Plasmons on Wide Epitaxially-grown Quantum Wells. Australian Journal of Physics, 1993, 46, 391.	0.6	18
61	Alternative expressions for the Fermi hole curvature. Journal of Chemical Physics, 1993, 98, 8870-8872.	3.0	82
62	Spin-density functionals for the electron correlation energy with automatic freedom from orbital self-interaction. Journal of Physics Condensed Matter, 1992, 4, 7877-7890.	1.8	28
63	Surface collective modes of non-neutral jellium. Physical Review B, 1992, 46, 7284-7287.	3.2	31
64	Electron-gas boundary properties in non-neutral jellium (wide-parabolic-quantum-well) systems. Physical Review B, 1992, 46, 10163-10172.	3.2	33
65	Interpretation of the Fermi hole curvature. Journal of Chemical Physics, 1991, 94, 4328-4333.	3.0	165
66	The effect of a frequency-dependent exchange and correlation kernel on the multipole surface plasmon frequency of a bare jellium aluminium surface. Journal of Physics Condensed Matter, 1990, 2, 6461-6464.	1.8	13
67	X-ray Photoelectron Studies of High-temperature Superconductors: Evidence for the Importance of Alkaline Earth Metals. Australian Journal of Physics, 1989, 42, 409.	0.6	1
68	X-ray photoelectron spectra of perovskite-type cobalt oxides La1â^'xSrxCoO3â^'y (x=0.4, 0.6). Physica C: Superconductivity and Its Applications, 1989, 160, 252-258.	1.2	15
69	Xâ€ r ay photoelectron spectra of high <i>T</i> _c bismuth compounds. General trends for layer structures. Physica Status Solidi (B): Basic Research, 1989, 152, 519-532.	1.5	15
70	An additional surface plasmon mode of a bare jellium aluminium surface from self-consistent microscopic calculations. Journal of Physics C: Solid State Physics, 1988, 21, L729-L734.	1.5	40
71	Efficient calculation of bulk jellium electronic susceptibilities for use in the theory of metal surfaces. Journal of Physics C: Solid State Physics, 1988, 21, 107-117.	1.5	1
72	Microscopic electronic susceptibility, χ(ω,q11,z,z'), of the jellium half-space: a successful average-density ansatz for complex frequency. Journal of Physics C: Solid State Physics, 1987, 20, 6127-6136.	1.5	12

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73	Dynamic real-space electronic response of the Lang-Kohn jellium half-space: adsorbate damping including exchange and correlation. Journal of Physics C: Solid State Physics, 1986, 19, 3971-3981.	1.5	17
74	The stereochemistry of Bis(α,α'-diimine)copper(I) complexes: the crystal and molecular structures of Bis(2,9-dimethyl-1,10-phenanthroline)copper(I) bromide hydrate, Bis(4,4',6,6'-tetramethyl-2,2'-bipyridine)copper(I) chloride dihydrate, and Bis(2,9-dimethyl-1,10-phenanthroline)copper(I) nitrate dihydrate (a redetermination). Australian lowershow of the state of the	0.9	102
75	Static electronic susceptibility,χ(qâ^¥,z,z′), of the Lang-Kohn jellium surface. Physical Review B, 1983, 27, 6542-6544.	3.2	25
76	Orbital self-interaction in Hartree-Fock and density functional theories. Journal of Physics C: Solid State Physics, 1982, 15, L1183-L1186.	1.5	9
77	Surface properties of simple metals via inhomogeneous linear electronic response. I. Theory. Journal of Physics C: Solid State Physics, 1982, 15, 7429-7456.	1.5	29
78	Face dependent surface energies of simple metals. Solid State Communications, 1981, 37, 91-96.	1.9	48
79	On the theory of electron and nuclear spin relaxation in paramagnetic transition metal complexes. Molecular Physics, 1980, 40, 1379-1387.	1.7	2
80	Estimating electron spectrial densities for NMR relaxation calculations. Chemical Physics Letters, 1980, 70, 382-386.	2.6	2
81	Theoretical temperature dependence of relaxation rate between widely spaced levels, due to gas or liquid fluctuations. Chemical Physics Letters, 1979, 61, 157-161.	2.6	4
82	Vibronic-coupling and spin relaxation in discrete spin-12 transition-metal complexes. Chemical Physics Letters, 1979, 68, 115-120.	2.6	4
83	Einstein-Kanzaki model of static and dynamic lattice relaxation: Application to vacancies in metallic hydrogen. Physical Review B, 1977, 16, 5326-5340.	3.2	9
84	Exact results for secondâ€neighbor surface magnons in an fcc lattice. Journal of Mathematical Physics, 1977, 18, 116-117.	1.1	0
85	Groundstate defectons in soft-core fermion quantum crystals. Physics Letters, Section A: General, Atomic and Solid State Physics, 1976, 57, 73-74.	2.1	1
86	Theory of surface spin waves in alkali metals. Journal of Low Temperature Physics, 1975, 18, 13-30.	1.4	3
87	Cavity size effects on CESR in simple metals. I. theory. Physics Letters, Section A: General, Atomic and Solid State Physics, 1973, 44, 171-172.	2.1	6
88	Manyâ€Neighbored Ising Chain. Journal of Mathematical Physics, 1969, 10, 40-45.	1.1	41