Jens J Oddershede

List of Publications by Year
in descending order

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67	3,581	172457	133252
papers	citations	29 h-index	59 g-index

68	68	68	1174
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Calculation of mean excitation energies of 3d-elements and their cations. Molecular Physics, 2021, 119, e1823508.	1.7	4
2	On the relationship between bond correction factors and elemental mean excitation energies. Nuclear Instruments & Methods in Physics Research B, 2020, 474, 6-9.	1.4	0
3	Bond correction factors and their applications to the calculation of molecular mean excitation energies. Nuclear Instruments & Methods in Physics Research B, 2020, 468, 28-36.	1.4	2
4	Bound and continuum state contributions to dipole oscillator strength sum rules: Total and orbital mean excitation energies for cations of C, F, Si, and Cl. Advances in Quantum Chemistry, 2019, 80, 127-146.	0.8	3
5	Calculation of mean excitation energies. Advances in Quantum Chemistry, 2019, 80, 225-245.	0.8	10
6	Test of the validity of Braggâ€™s rule for mean excitation energies of small molecules and ions. Nuclear Instruments & Methods in Physics Research B, 2019, 444, 112-116.	1.4	6
7	Mean excitation energies of singly charged atomic anions with Z â‰¤ 18. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 095004.	1.5	5
8	Z-dependence of mean excitation energies for second and third row atoms and their ions. Journal of Chemical Physics, 2018, 148, 174307.	3.0	13
9	Mean excitation energies for molecular ions. Nuclear Instruments & Methods in Physics Research B, 2017, 394, 73-80.	1.4	12
10	Continuum Contributions to Dipole Oscillator-Strength Sum Rules for Hydrogen in Finite Basis Sets. Advances in Quantum Chemistry, 2017, 75, 229-241.	0.8	8
11	The Mean Excitation Energy of Atomic Ions. Advances in Quantum Chemistry, 2015, , 29-40.	0.8	14
12	Coupled cluster calculations of mean excitation energies of the noble gas atoms He, Ne and Ar and of the H2molecule. Molecular Physics, 2014, 112, 751-761.	1.7	12
13	On the Determination of the Mean Excitation Energy of Water. Advances in Quantum Chemistry, 2013, 65, 63-77.	0.8	14
14	Mean Excitation Energies and Energy Deposition Characteristics of Bio-organic Molecules. Journal of Physical Chemistry B, 2010, 114, 633-637.	2.6	16
15	Mean Excitation Energies and Their Directional Characteristics for Energy Deposition by Swift Ions on the DNA and RNA Nucleobases. Journal of Physical Chemistry C, 2010, 114, 20335-20341.	3.1	14
16	Stopping power of molecules for fast ions. Molecular Physics, 2010, 108, 2891-2897.	1.7	8
17	The Effect of Solvation on the Mean Excitation Energy of Glycine. Journal of Physical Chemistry Letters, 2010, 1, 242-245.	4.6	20
18	An analytical representation of shell corrections for stopping power. International Journal of Quantum Chemistry, 2009, 109, 2933-2936.	2.0	4

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19	Amino Acid Mean Excitation Energies and Directional Dependencies from Core and Bond Calculations. , 2008, , .		5
20	From Stopping Power to Radiation Dose Equivalent: Views of the Interaction of Swift Ions with Matter. , 2008, , .		0
21	Propagator Methods. Advances in Chemical Physics, 2007, , 201-239.	0.3	141
22	Directional Dependence of the Mean Excitation Energy and Spectral Moments of the Dipole Oscillator Strength Distribution of Glycine and Its Zwitterion. Journal of Physical Chemistry A, 2006, 110, 8811-8817.	2.5	26
23	Molecular Stopping Powers from the Target Oscillator Strength Distribution. Advances in Quantum Chemistry, 2004, 46, 121-151.	0.8	7
24	Why does the maximum in the stopping cross section for protons occur at approximately 100 keV most of the time?. AIP Conference Proceedings, 2003, , .	0.4	5
25	Propagator Calculations of Electronic Spectra of Photochromic Spirooxazines. Molecular Crystals and Liquid Crystals, 2000, 345, 89-94.	0.3	1
26	Relativistic four-component calculations of indirect nuclear spinâ€“spin couplings in MH4 (M=C,â€ŠSi,â€ŠGe,â€ŠSn,â€ŠPb) and Pb(CH3)3H. Journal of Chemical Physics, 2000, 112, 3493-3498.	3.0	96
27	Full four-component relativistic calculations of NMR shielding and indirect spin-spin coupling tensors in hydrogen halides. Journal of Computational Chemistry, 1999, 20, 1262-1273.	3.3	179
28	Correlated calculations of indirect nuclear spin-spin coupling constants using second-order polarization propagator approximations: SOPPA and SOPPA(CCSD). Theoretical Chemistry Accounts, 1998, 100, 275-284.	1.4	287
29	Molecular relativistic calculations of the electric field gradients at the nuclei in the hydrogen halides. Journal of Chemical Physics, 1998, 109, 9677-9684.	3.0	77
30	Bethe theory of stopping incorporating electronic excitations of partially stripped projectiles. Physical Review A, 1997, 55, 2864-2872.	2.5	44
31	Spin-orbit corrections to the indirect nuclear spin-spin coupling constants in XH4 (X = C, Si, Ge, and) Tj ETQq1 1 0.784314 rgBT /Over	0.8	12
32	Response function analysis of magnetic optical rotation. International Journal of Quantum Chemistry, 1997, 64, 599-605.	2.0	18
33	A new implementation of the secondâ€order polarization propagator approximation (SOPPA): The excitation spectra of benzene and naphthalene. Journal of Chemical Physics, 1996, 105, 5886-5900.	3.0	174
34	19F nuclear magnetic shielding tensor of CH3F. Molecular Physics, 1995, 86, 235-249.	1.7	13
35	Relativistic corrections to molecular dynamic dipole polarizabilities. Journal of Chemical Physics, 1995, 103, 2983-2990.	3.0	13
36	Correlated dipole oscillator sum rules. Journal of Chemical Physics, 1994, 100, 8969-8975.	3.0	30

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37	Correlated polarization propagator calculations of static polarizabilities. International Journal of Quantum Chemistry, 1994, 50, 317-332.	2.0	40
38	Correlated and gauge origin independent calculations of magnetic properties. Molecular Physics, 1994, 81, 87-118.	1.7	59
39	Effects of the order of the energy asymptotes on the calculations of nuclear magnetic shieldings and static polarizabilities. Journal of Chemical Physics, 1994, 101, 10775-10782.	3.0	10
40	Angular dependence of geminal spin-spin coupling constants in a prototype CH2 group.J(H,H) versus interbond angle in methane. Magnetic Resonance in Chemistry, 1993, 31, 722-725.	1.9	18
41	Relativistic theory for indirect nuclear spin-spin couplings within the polarization propagator approach. International Journal of Quantum Chemistry, 1993, 47, 425-435.	2.0	101
42	Paramagnetism of closed shell diatomic hydrides with six valence electrons. Journal of Chemical Physics, 1993, 98, 9748-9757.	3.0	50
43	Correlated calculations of the rotationalg-tensor and origin independent magnetizability surface of BH. Molecular Physics, 1992, 76, 445-465.	1.7	44
44	Quadratic response theory of frequencyâ€dependent first hyperpolarizability. Calculations in the dipole length and mixedâ€velocity formalisms. Journal of Chemical Physics, 1991, 94, 7251-7258.	3.0	36
45	Polarization propagator calculation of spectroscopic properties of molecules. International Journal of Quantum Chemistry, 1991, 39, 371-386.	2.0	19
46	Second-order polarization propagator calculations of dynamic dipole polarizabilities and C6 coefficients. International Journal of Quantum Chemistry, 1991, 39, 667-679.	2.0	39
47	Correlated calculations for the nuclear magnetic shieldings of CO and HCN. Molecular Physics, 1991, 72, 559-573.	1.7	52
48	Mean excitation energies and moments of the dipole oscillator strength distribution of closed-shell aluminum ions. Nuclear Instruments & Methods in Physics Research B, 1990, 48, 34-38.	1.4	7
49	Two-photon transition moments as determined from the quadratic response function. International Journal of Quantum Chemistry, 1990, 38, 487-499.	2.0	13
50	Nuclear magnetic shieldings and spin rotation constants of HF and N2. Journal of Chemical Physics, 1990, 92, 6036-6042.	3.0	63
51	Effect of correlation on the mean excitation energy of beryllium. Physical Review A, 1989, 39, 5565-5571.	2.5	28
52	Electronic spectra and response properties of BH and AlH. Journal of Chemical Physics, 1989, 90, 2338-2343.	3.0	42
53	Bragg rule additivity of bond stopping cross sections. Nuclear Instruments & Methods in Physics Research B, 1989, 42, 7-10.	1.4	35
54	On the orbital implementation of the kinetic theory of stopping. International Journal of Quantum Chemistry, 1989, 36, 557-563.	2.0	0

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55	Calculation of spectra and spin-spin coupling constants using a coupled-cluster polarization propagator method. International Journal of Quantum Chemistry, 1987, 32, 475-485.	2.0	50
56	Theoretical stopping cross sections of Cî—¸H, Cî—¸C and C=C bonds for swift protons. Nuclear Instruments & Methods in Physics Research B, 1987, 27, 280-286.	1.4	52
57	A coupled cluster polarization propagator method applied to CH+. Journal of Chemical Physics, 1986, 85, 2112-2118.	3.0	91
58	Calculation of molecular mean excitation energies via the polarization propagator formalism:H2andH2O. Physical Review A, 1986, 34, 1104-1111.	2.5	50
59	Polarization propagator methods in atomic and molecular calculations. Computer Physics Reports, 1984, 2, 33-92.	2.2	387
60	Orbital and whole-atom proton stopping power and shell corrections for atoms with Z â©½ 36. Atomic Data and Nuclear Data Tables, 1984, 31, 275-297.	2.4	104
61	Polymer fractureâ€"A simple model for chain scission. Journal of Polymer Science, Polymer Physics Edition, 1984, 22, 881-897.	1.0	33
62	The use of modified virtual orbitals in perturbative polarization propagator calculations. Journal of Chemical Physics, 1983, 79, 2295-2301.	3.0	10
63	Theoretical interpretation of the resonance Raman spectrum of gaseous chlorine. Journal of Chemical Physics, 1983, 79, 2150-2156.	3.0	18
64	Equivalence between perturbatively calculated transition moments. Journal of Chemical Physics, 1983, 78, 1898-1904.	3.0	26
65	Shell corrections to electronic stopping powers from orbital mean excitation energies. Physical Review A, 1982, 26, 3209-3219.	2.5	68
66	Transition moments and dynamic polarizabilities in a second order polarization propagator approach. Journal of Chemical Physics, 1980, 73, 6238-6246.	3.0	400
67	Polarization Propagator Calculations. Advances in Quantum Chemistry, 1978, 11, 275-352.	0.8	338