Hosung Sun

List of Publications by Year
in descending order

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26	405	840119 11	752256 20
papers	citations	h-index	g-index

27	27	27	143
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ab initio third order effective valence shell Hamiltonian calculations for first row diatomic hydrides. Journal of Chemical Physics, 1981, 74, 6842-6848.	1.2	40
2	Dipole moments, transition moments, oscillator strengths, radiative lifetimes, and overtone intensities for CH and CH+ as computed by quasi-degenerate many-body perturbation theory. International Journal of Quantum Chemistry, 1991, 39, 269-286.	1.0	39
3	Ab initio effective valence shell hamiltonian calculation of the valence state potential curves of CH and CH+. Chemical Physics Letters, 1981, 78, 531-537.	1.2	35
4	Molecular properties byabinitioquasidegenerate manyâ€body perturbation theory effective Hamiltonian method: Dipole and transition moments of CH and CH+. Journal of Chemical Physics, 1988, 88, 2659-2665.	1.2	34
5	Application of quasidegenerate manyâ€body perturbation theory to the calculation of molecular excited valence state negative ion Feshbach resonances. Journal of Chemical Physics, 1982, 76, 5051-5059.	1.2	33
6	Application of the effective valence shell Hamiltonian method to accurate estimation of valence and Rydberg states oscillator strengths and excitation energies for Ï€ electron systems. Journal of Chemical Physics, 1997, 106, 9252-9264.	1.2	33
7	Ab initio effective valence Hamiltonian description of electron correlation for the neutral and ion valence states of transition metal atoms. Journal of Chemical Physics, 1980, 73, 1472-1474.	1.2	30
8	Ab Initio Calculation of Oneâ€Center Integrals of Semiempirical Theories of Valence. Israel Journal of Chemistry, 1980, 19, 99-108.	1.0	22
9	Ab initio determination of bond length dependence of the correlated valence shell Hamiltonian of CH: Comparison with semiempirical theories. Journal of Chemical Physics, 1984, 80, 779-788.	1.2	21
10	Quantum interference and asymptotic interactions in the photodissociation of SH: Total cross section and branching ratios. Journal of Chemical Physics, 2001, 114, 5537-5544.	1.2	16
11	The ab initio effective dipole operator of CH: Comparisons with semiempirical methods. Journal of Chemical Physics, 1992, 96, 5245-5252.	1.2	14
12	Vibrational Predissociation Rates and Final State Distributions for Heâ‹ICl and Heâ‹I2Using a Computationally Simple Method. Journal of Physical Chemistry A, 1998, 102, 9345-9352.	1.1	11
13	Vector properties of S(3P) and S(1D) in the photodissociation of SH: Quantum interference and overlapping resonance. Journal of Chemical Physics, 2002, 116, 10656-10663.	1.2	11
14	Transition dipole moments, transition probabilities, and radiative lifetimes for NH by ab initio effective valence shell Hamiltonian. Chemical Physics Letters, 1994, 228, 443-450.	1.2	10
15	Valence electronic states of SiH2+ by ab initio effective valence shell Hamiltonian. Journal of Chemical Physics, 1993, 99, 1844-1850.	1.2	9
16	Valence electronic states of NH2+ and PH2+ dications. International Journal of Quantum Chemistry, 1993, 48, 355-365.	1.0	7
17	The effective valence shell Hamiltonian for spin-orbit coupling. Journal of Chemical Physics, 2003, 118, 8281-8289.	1.2	6
18	Vibrational structure and predissociation rates of the He-O2vander Waals complex. Molecular Physics, 2001, 99, 1867-1873.	0.8	5

#	Article	IF	Citations
19	The vibrational structure and predissociation of the B state of HeBr2 using a simple theoretical method. Chemical Physics Letters, 2001, 336, 311-320.	1.2	5
20	The vibrational structure and predissociation lifetimes of I2(B)â€“Ne: VSCFâ€“DWBâ€“IOS approximation. Chemical Physics Letters, 2003, 377, 406-412.	1.2	5
21	The Effective Valence Shell Hamiltonian Calculations of Spinâ^'Orbit Splittings in Small Diatomic Hydrides. Journal of Physical Chemistry B, 2008, 112, 16135-16139.	1.2	5
22	Ab initio study on NH+: Transition dipole moments, transition probabilities, and radiative lifetimes. International Journal of Quantum Chemistry, 1996, 57, 79-87.	1.0	4
23	Spinâ€“orbit splittings in the valence states of XH (X=K, Ca, Ga, Ge, As, Se, and Br) by the effective Hamiltonian approach. Chemical Physics Letters, 2010, 493, 371-375.	1.2	4
24	Vibrational predissociation rates of I2(B)â€“Ne in excited van der Waals modes. Chemical Physics, 2004, 304, 281-288.	0.9	1
25	Exactly Solvable Potentials Derived from SWKB Quantization. Bulletin of the Korean Chemical Society, 2014, 35, 805-810.	1.0	1
26	General Orthogonality for Orthogonal Polynomials. Bulletin of the Korean Chemical Society, 2013, 34, 197-200.	1.0	0