Soo-Ying Lee

List of Publications by Year
in descending order

42	2,137	361413	265206
papers	citations	20 h-index	42 g-index

43	43	43	1164
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Time-dependent theory of Raman scattering. Journal of Chemical Physics, 1979, 71, 4777.	3.0	677
2	First-Principles Theory for the H + H2O, D2O Reactions. Science, 2000, 290, 961-963.	12.6	203
3	Theory of femtosecond stimulated Raman spectroscopy. Journal of Chemical Physics, 2004, 121, 3632-3642.	3.0	140
4	A seven-dimensional quantum study of the H+CH4 reaction. Journal of Chemical Physics, 2002, 117, 9539-9542.	3.0	121
5	Ab initio potential-energy surfaces for the reactions OH+H2â†"H2O+H. Journal of Chemical Physics, 2001, 115, 174-178.	3.0	109
6	Fully converged integral cross sections of diatom-diatom reactions and the accuracy of the centrifugal sudden approximation in the H2+OH reaction. Journal of Chemical Physics, 1999, 110, 4435-4444.	3.0	82
7	Quantum rate constants for the H2+OH reaction with the centrifugal sudden approximation. Journal of Chemical Physics, 1998, 109, 79-86.	3.0	72
8	Quantum dynamics on new potential energy surfaces for the H2+OHâ†'H2O+H reaction. Journal of Chemical Physics, 2001, 114, 4759-4762.	3.0	64
9	Quantum theory of (femtosecond) time-resolved stimulated Raman scattering. Journal of Chemical Physics, 2008, 128, 144114.	3.0	63
10	Dependence of line shapes in femtosecond broadband stimulated Raman spectroscopy on pump-probe time delay. Journal of Chemical Physics, 2005, 122, 024505.	3.0	47
11	Accuracy of the centrifugal sudden approximation in the H+H2O reaction and accurate integral cross sections for the H+H2Oâ†'H2+OH abstraction reaction. Journal of Chemical Physics, 2002, 117, 10067-10072.	3.0	44
12	Quantum dynamics of the D2+OH reaction. Journal of Chemical Physics, 2002, 116, 2388-2394.	3.0	37
13	Branching ratio in the HD+OH reaction: A full-dimensional quantum dynamics study on a new ab initio potential energy surface. Journal of Chemical Physics, 2001, 114, 8733-8736.	3.0	36
14	Characterization of swiftlet edible bird nest, a mucin glycoprotein, and its adulterants by Raman microspectroscopy. Journal of Food Science and Technology, 2016, 53, 3602-3608.	2.8	36
15	Effects of reagent rotation on the dynamics of the H2+OH reaction: A full dimension quantum study. Journal of Chemical Physics, 1998, 109, 2708-2716.	3.0	31
16	Effects of reagent rotation and the accuracy of the centrifugal sudden approximation in the H2+CN reaction. Journal of Chemical Physics, 2000, 112, 203-211.	3.0	27
17	Analysis of femtosecond stimulated Raman spectroscopy of excited-state evolution in bacteriorhodopsin. Journal of Chemical Physics, 2010, 132, 084510.	3.0	27
18	Transition state wave packet study of hydrogen diffusion on Cu(100) surface. Journal of Chemical Physics, 1999, 111, 5741-5753.	3.0	26

#	Article	IF	Citations
19	Femtosecond stimulated Raman scattering for polyatomics with harmonic potentials: Application to rhodamine 6G. Journal of Chemical Physics, 2009, 131, 054311.	3.0	25
20	Threeâ€state model for femtosecond broadband stimulated Raman scattering. Journal of Raman Spectroscopy, 2008, 39, 1568-1577.	2.5	24
21	Wave packet theory of dynamic stimulated Raman spectra in femtosecond pump-probe spectroscopy. Journal of Chemical Physics, 2007, 126, 174104.	3.0	21
22	Thermal analysis methods for the rapid identification and authentication of swiftlet (Aerodramus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	6.2	20
23	Full-Dimensional Quantum Dynamical Studies of the Cl + HOD â†' HCl/DCl + OD/OH Reaction: Bond Selectivity and Isotopic Branching Ratio. Journal of Physical Chemistry A, 2015, 119, 12224-12230.	2.5	18
24	Ab Initio Calculations on Normal Mode Vibrations and the Raman and IR Spectra of the [B3O6]3- Metaborate Ring. Journal of Physical Chemistry A, 1997, 101, 937-940.	2.5	17
25	Quantum theory of time-resolved femtosecond stimulated Raman spectroscopy: Direct versus cascade processes and application to CDCl3. Journal of Chemical Physics, 2011, 134, 024307.	3.0	17
26	Simple aspects of femtosecond stimulated Raman spectroscopy. Science China Chemistry, 2011, 54, 1989-2008.	8.2	16
27	Probing non-adiabatic conical intersections using absorption, spontaneous Raman, and femtosecond stimulated Raman spectroscopy. Journal of Chemical Physics, 2013, 139, 234101.	3.0	15
28	Time-dependent wave packet averaged vibrational frequencies from femtosecond stimulated Raman spectra. Journal of Chemical Physics, 2016, 144, 054104.	3.0	15
29	Inverse Raman bands in ultrafast Raman loss spectroscopy. Journal of Chemical Physics, 2011, 135, 164502.	3.0	14
30	Theoretical investigation of the direct observation of anharmonic coupling in CDCl3 in the time domain with femtosecond stimulated Raman scattering. Journal of Chemical Physics, 2009, 130, 044312.	3.0	13
31	Femtosecond stimulated Raman spectroscopy modeled with a delta probe pulse: application to rhodamine 6G. Journal of Raman Spectroscopy, 2011, 42, 563-575.	2.5	13
32	Nitration of Tyrosine in the Mucin Glycoprotein of Edible Birdâ€™s Nest Changes Its Color from White to Red. Journal of Agricultural and Food Chemistry, 2018, 66, 5654-5662.	5.2	12
33	Calculation of state-to-state cross sections for triatomic reaction by the multi-configuration time-dependent Hartree method. Journal of Chemical Physics, 2014, 140, 164108.	3.0	11
34	Analysis of time resolved femtosecond and femtosecond/picosecond coherent anti-Stokes Raman spectroscopy: Application to toluene and Rhodamine 6G. Journal of Chemical Physics, 2012, 136, 064504.	3.0	10
35	Calcite Deposits Differentiate Cave from Houseâ€Farmed Edible Bird's Nest as shown by SEMâ€EDX, ATRâ€FTIR and Raman Microspectroscopy. Chemistry - an Asian Journal, 2020, 15, 2487-2492.	3.3	7
36	Phase Recovery from the Raman Excitation Profile, Time Domain Information and Transform Theory. Journal of Raman Spectroscopy, 1997, 28, 411-425.	2.5	4

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37	FIRST PRINCIPLES QUANTUM DYNAMICAL STUDY OF FOUR-ATOM REACTIONS. Advanced Series in Physical Chemistry, 2004, , 409-464.	1.5	4
38	Effect of the damping constant on Raman excitation profiles. Journal of Raman Spectroscopy, 1985, 16, 386-397.	2.5	3
39	Dynamical theory of spectroscopy with pulse excitation. Science Bulletin, 1999, 44, 139-142.	1.7	3
40	Dynamical theory of spectroscopy with femtosecond pulse excitation. Science in China Series A: Mathematics, 1997, 40, 1331-1339.	0.5	2
41	Complex Raman amplitude recovery and dynamics from the Raman excitation profile: application to iodobenzene and azulene. Journal of Raman Spectroscopy, 2001, 32, 447-459.	2.5	1
42	What are the intensities and line-shapes of the twenty four polarization terms in coherent anti-Stokes Raman spectroscopy?. AIP Advances, 2015, 5, 127213.	1.3	0