David P Shelton

List of Publications by Year in Descending Order

44 papers	1,920 citations	17 h-index	43 g-index
49 ext. papers	2,015 ext. citations	4.7 avg, IF	5.06 L-index

#	Paper	IF	Citations
44	Long-range correlation of intra-molecular and inter-molecular vibration in liquid CCl. *Journal of Chemical Physics*, **2021**, 154, 034502	3.9	1
43	Vibration overtone hyperpolarizability measured for H. *Journal of Chemical Physics*, **2020**, 152, 154301	3.9	
42	Hyperpolarizability dispersion measured for CS2 vapor. *Journal of the Optical Society of America B: Optical Physics*, **2020**, 37, 1769	1.7	1
41	Optical and electronic solutions for power stabilization of CO lasers. *Review of Scientific Instruments*, **2020**, 91, 103003	1.7	2
40	What is measured by hyper-Rayleigh scattering from a liquid?. *Journal of Chemical Physics*, **2018**, 148, 134504	3.9	5
39	Simple imaging for the diamond anvil cell: Applications to hard-to-reach places. *Review of Scientific Instruments*, **2018**, 89, 103902	1.7	3
38	Response to "Comment on 'Water-water correlations in electrolyte solutions probed by hyper-Rayleigh scattering'" [J. Chem. Phys. 149, 167101 (2018)]. *Journal of Chemical Physics*, **2018**, 149, 167102	3.9	2
37	Third harmonic scattering in liquids. *Journal of Chemical Physics*, **2018**, 149, 224504	3.9	5
36	Structural correlation in water probed by hyper-Rayleigh scattering. *Journal of Chemical Physics*, **2017**, 147, 154501	3.9	9
35	Water-water correlations in electrolyte solutions probed by hyper-Rayleigh scattering. *Journal of Chemical Physics*, **2017**, 147, 214505	3.9	11
34	Polarization and angle dependence for hyper-Rayleigh scattering from local and nonlocal modes of isotropic fluids: erratum. *Journal of the Optical Society of America B: Optical Physics*, **2017**, 34, 1550	1.7	4
33	Orientation correlation and local field in liquid nitrobenzene. *Journal of Chemical Physics*, **2016**, 144, 234506	3.9	9
32	Hyperpolarizability dispersion measured for (CH3)2O. *Journal of Chemical Physics*, **2015**, 143, 224307	3.9	1
31	Long-range orientation correlation in dipolar liquids probed by hyper-Rayleigh scattering. *Journal of Chemical Physics*, **2015**, 143, 134503	3.9	15
30	Long-range orientation correlation in water. *Journal of Chemical Physics*, **2014**, 141, 224506	3.9	38
29	Cross-conjugation as a Motif for Organic Non-Linear Optical Molecules. *Materials Research Society Symposia Proceedings*, **2014**, 1698, 14		
28	Hyper-Rayleigh scattering from correlated molecules. *Journal of Chemical Physics*, **2013**, 138, 154502	3.9	15

27	Orientation correlation of p-nitroaniline molecules in acetone solution observed by hyper-Rayleigh scattering. *Journal of Chemical Physics*, **2013**, 138, 054502	3.9	8
26	Long-range orientation correlation in liquids. *Journal of Chemical Physics*, **2012**, 136, 044503	3.9	22
25	Gas phase hyper-Rayleigh scattering measurements. *Journal of Chemical Physics*, **2012**, 137, 044312	3.9	13
24	Refractive index measured by laser beam displacement at 1064 nm for solvents and deuterated solvents. *Applied Optics*, **2011**, 50, 4091-8	0.2	15
23	Accurate hyper-Rayleigh scattering polarization measurements. *Review of Scientific Instruments*, **2011**, 82, 113103	1.7	18
22	Note: Fast, small, accurate 90 rotator for a polarizer. *Review of Scientific Instruments*, **2011**, 82, 036103	1.7	8
21	Nonlocal hyper-Rayleigh scattering from liquid nitrobenzene. *Journal of Chemical Physics*, **2010**, 132, 154506	3.9	19
20	Long range dipole-dipole correlations in nitrobenzene-benzene solutions. *Journal of Chemical Physics*, **2010**, 133, 234507	3.9	9
19	Syntheses, Crystal Structures and Photophysical Measurements of Phosphite-Substituted Schiff Base and Azobenzene Ligands. *European Journal of Inorganic Chemistry*, **2010**, 2010, 5263-5271	2.3	6
18	Electric field of Ions in solution probed by hyper-Rayleigh scattering. *Journal of Chemical Physics*, **2009**, 130, 114501	3.9	27
17	Polar domain fluctuations in doped liquid nitrobenzene. *Journal of Chemical Physics*, **2008**, 129, 134501	3.9	8
16	Doped liquid nitrobenzene is ferroelectric. *Journal of Chemical Physics*, **2007**, 127, 204503	3.9	4
15	Ferroelectric domains in nitrobenzene-nitromethane solutions measured by hyper-Rayleigh scattering. *Journal of Chemical Physics*, **2006**, 124, 124509	3.9	8
14	Hyper-Rayleigh scattering spectrum of liquid nitromethane. *Journal of Chemical Physics*, **2005**, 123, 111103	3.9	8
13	Slow polarization relaxation in water observed by hyper-Rayleigh scattering. *Physical Review B*, **2005**, 72,	3.3	18
12	Are dipolar liquids ferroelectric?. *Journal of Chemical Physics*, **2005**, 123, 084502	3.9	23
11	Collective molecular rotation in D2O. *Journal of Chemical Physics*, **2002**, 117, 9374-9382	3.9	18
10	Hyper-Rayleigh scattering from CH4, CD4, CF4, and CCl4. *Journal of Chemical Physics*, **2001**, 114, 9938-9946	3.9	40

9	Collective molecular rotation in water and other simple liquids. *Chemical Physics Letters*, **2000**, 325, 513-516	2.5	22
8	Librons observed in liquid acetonitrile by hyper-rayleigh scattering. *Physical Review Letters*, **2000**, 84, 1224-7	7.4	17
7	Polarization and angle dependence for hyper-Rayleigh scattering from local and nonlocal modes of isotropic fluids. *Journal of the Optical Society of America B: Optical Physics*, **2000**, 17, 2032	1.7	24
6	Two-photon fluorescence cross-section measurements calibrated with hyper-Rayleigh scattering. *Journal of the Optical Society of America B: Optical Physics*, **1999**, 16, 998	1.7	34
5	Spectral features of hyper-Rayleigh scattering in chloroform-d. *Optics Communications*, **1998**, 157, 177-181	2	16
4	A comparison of molecular hyperpolarizabilities from gas and liquid phase measurements. *Journal of Chemical Physics*, **1998**, 108, 849-856	3.9	217
3	Polarized hyper-Rayleigh light scattering measurements of nonlinear optical chromophores. *Journal of Chemical Physics*, **1996**, 105, 3918-3929	3.9	136
2	Measurements and calculations of the hyperpolarizabilities of atoms and small molecules in the gas phase. *Chemical Reviews*, **1994**, 94, 3-29	68.1	472
1	Problems in the comparison of theoretical and experimental hyperpolarizabilities. *Journal of Chemical Physics*, **1992**, 97, 7590-7599	3.9	574