

# David P Shelton

## List of Publications by Year in descending order

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46  
papers

2,140  
citations

430754

18  
h-index

233338

45  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1444  
citing authors

#	ARTICLE	IF	CITATIONS
1	Problems in the comparison of theoretical and experimental hyperpolarizabilities. Journal of Chemical Physics, 1992, 97, 7590-7599.	1.2	619
2	Measurements and calculations of the hyperpolarizabilities of atoms and small molecules in the gas phase. Chemical Reviews, 1994, 94, 3-29.	23.0	524
3	A comparison of molecular hyperpolarizabilities from gas and liquid phase measurements. Journal of Chemical Physics, 1998, 108, 849-856.	1.2	240
4	Polarized hyper-Rayleigh light scattering measurements of nonlinear optical chromophores. Journal of Chemical Physics, 1996, 105, 3918-3929.	1.2	157
5	Long-range orientation correlation in water. Journal of Chemical Physics, 2014, 141, 224506.	1.2	44
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.	0.9	43
7	Hyper-Rayleigh scattering from CH <sub>4</sub> , CD <sub>4</sub> , CF <sub>4</sub> , and CCl <sub>4</sub> . Journal of Chemical Physics, 2001, 114, 9938-9946.	1.2	42
8	Electric field of ions in solution probed by hyper-Rayleigh scattering. Journal of Chemical Physics, 2009, 130, 114501.	1.2	29
9	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.	0.9	26
10	Collective molecular rotation in water and other simple liquids. Chemical Physics Letters, 2000, 325, 513-516.	1.2	25
11	Are dipolar liquids ferroelectric?. Journal of Chemical Physics, 2005, 123, 084502.	1.2	23
12	Long-range orientation correlation in liquids. Journal of Chemical Physics, 2012, 136, 044503.	1.2	23
13	Refractive index measured by laser beam displacement at $\lambda = 1064$ nm for solvents and deuterated solvents. Applied Optics, 2011, 50, 4091.	2.1	22
14	Long-range orientation correlation in dipolar liquids probed by hyper-Rayleigh scattering. Journal of Chemical Physics, 2015, 143, 134503.	1.2	22
15	Nonlocal hyper-Rayleigh scattering from liquid nitrobenzene. Journal of Chemical Physics, 2010, 132, 154506.	1.2	21
16	Accurate hyper-Rayleigh scattering polarization measurements. Review of Scientific Instruments, 2011, 82, 113103.	0.6	21
17	Slow polarization relaxation in water observed by hyper-Rayleigh scattering. Physical Review B, 2005, 72, .	1.1	20
18	Collective molecular rotation in D <sub>2</sub> O. Journal of Chemical Physics, 2002, 117, 9374-9382.	1.2	19

#	ARTICLE	IF	CITATIONS
19	Librons Observed in Liquid Acetonitrile by Hyper-Rayleigh Scattering. <i>Physical Review Letters</i> , 2000, 84, 1224-1227.	2.9	18
20	Spectral features of hyper-Rayleigh scattering in chloroform-d. <i>Optics Communications</i> , 1998, 157, 177-181.	1.0	17
21	Hyper-Rayleigh scattering from correlated molecules. <i>Journal of Chemical Physics</i> , 2013, 138, 154502.	1.2	15
22	Water-water correlations in electrolyte solutions probed by hyper-Rayleigh scattering. <i>Journal of Chemical Physics</i> , 2017, 147, 214505.	1.2	15
23	Gas phase hyper-Rayleigh scattering measurements. <i>Journal of Chemical Physics</i> , 2012, 137, 044312.	1.2	14
24	Structural correlation in water probed by hyper-Rayleigh scattering. <i>Journal of Chemical Physics</i> , 2017, 147, 154501.	1.2	13
25	Note: Fast, small, accurate 90° rotator for a polarizer. <i>Review of Scientific Instruments</i> , 2011, 82, 036103.	0.6	10
26	Ferroelectric domains in nitrobenzene-nitromethane solutions measured by hyper-Rayleigh scattering. <i>Journal of Chemical Physics</i> , 2006, 124, 124509.	1.2	9
27	Long range dipole-dipole correlations in nitrobenzene-benzene solutions. <i>Journal of Chemical Physics</i> , 2010, 133, 234507.	1.2	9
28	Orientation correlation and local field in liquid nitrobenzene. <i>Journal of Chemical Physics</i> , 2016, 144, 234506.	1.2	9
29	Hyper-Rayleigh scattering spectrum of liquid nitromethane. <i>Journal of Chemical Physics</i> , 2005, 123, 111103.	1.2	8
30	Polar domain fluctuations in doped liquid nitrobenzene. <i>Journal of Chemical Physics</i> , 2008, 129, 134501.	1.2	8
31	Orientation correlation of p-nitroaniline molecules in acetone solution observed by hyper-Rayleigh scattering. <i>Journal of Chemical Physics</i> , 2013, 138, 054502.	1.2	8
32	Syntheses, Crystal Structures and Photophysical Measurements of Phosphite-Substituted Schiff Base and Azobenzene Ligands. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 5263-5271.	1.0	7
33	What is measured by hyper-Rayleigh scattering from a liquid?. <i>Journal of Chemical Physics</i> , 2018, 148, 134504.	1.2	7
34	Simple imaging for the diamond anvil cell: Applications to hard-to-reach places. <i>Review of Scientific Instruments</i> , 2018, 89, 103902.	0.6	7
35	Polarization and angle dependence for hyper-Rayleigh scattering from local and nonlocal modes of isotropic fluids: erratum. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 1550.	0.9	6
36	Third harmonic scattering in liquids. <i>Journal of Chemical Physics</i> , 2018, 149, 224504.	1.2	5

#	ARTICLE	IF	CITATIONS
37	Doped liquid nitrobenzene is ferroelectric. <i>Journal of Chemical Physics</i> , 2007, 127, 204503.	1.2	4
38	Optical and electronic solutions for power stabilization of CO2 lasers. <i>Review of Scientific Instruments</i> , 2020, 91, 103003.	0.6	4
39	Long-range correlation of intra-molecular and inter-molecular vibration in liquid CCl4. <i>Journal of Chemical Physics</i> , 2021, 154, 034502.	1.2	4
40	Hyperpolarizability dispersion measured for (CH3)2O. <i>Journal of Chemical Physics</i> , 2015, 143, 224307.	1.2	3
41	Response to "Comment on "Water-water correlations in electrolyte solutions probed by hyper-Rayleigh scattering". <i>J. Chem. Phys.</i> 149, 167101 (2018)]. <i>Journal of Chemical Physics</i> , 2018, 149, 167102.	1.2	2
42	Hyperpolarizability dispersion measured for CS <sub>2</sub> vapor. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020, 37, 1769.	0.9	2
43	Cross-conjugation as a Motif for Organic Non-Linear Optical Molecules. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1698, 14.	0.1	0
44	Vibration overtone hyperpolarizability measured for H2. <i>Journal of Chemical Physics</i> , 2020, 152, 154301.	1.2	0
45	Hyper-Rayleigh Scattering as a Probe of Molecular Orientation Correlation in Isotropic Liquids. , 2015, , .		0
46	10.1063/1.5048316.1., 2018, , .		0