

David P Shelton

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Problems in the comparison of theoretical and experimental hyperpolarizabilities. <i>Journal of Chemical Physics</i> , 1992 , 97, 7590-7599	3.9	574
43	Measurements and calculations of the hyperpolarizabilities of atoms and small molecules in the gas phase. <i>Chemical Reviews</i> , 1994 , 94, 3-29	68.1	472
42	A comparison of molecular hyperpolarizabilities from gas and liquid phase measurements. <i>Journal of Chemical Physics</i> , 1998 , 108, 849-856	3.9	217
41	Polarized hyper-Rayleigh light scattering measurements of nonlinear optical chromophores. <i>Journal of Chemical Physics</i> , 1996 , 105, 3918-3929	3.9	136
40	Hyper-Rayleigh scattering from CH ₄ , CD ₄ , CF ₄ , and CCl ₄ . <i>Journal of Chemical Physics</i> , 2001 , 114, 9938-9946	3.9	40
39	Long-range orientation correlation in water. <i>Journal of Chemical Physics</i> , 2014 , 141, 224506	3.9	38
38	Two-photon fluorescence cross-section measurements calibrated with hyper-Rayleigh scattering. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1999 , 16, 998	1.7	34
37	Electric field of ions in solution probed by hyper-Rayleigh scattering. <i>Journal of Chemical Physics</i> , 2009 , 130, 114501	3.9	27
36	Polarization and angle dependence for hyper-Rayleigh scattering from local and nonlocal modes of isotropic fluids. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2000 , 17, 2032	1.7	24
35	Are dipolar liquids ferroelectric?. <i>Journal of Chemical Physics</i> , 2005 , 123, 084502	3.9	23
34	Long-range orientation correlation in liquids. <i>Journal of Chemical Physics</i> , 2012 , 136, 044503	3.9	22
33	Collective molecular rotation in water and other simple liquids. <i>Chemical Physics Letters</i> , 2000 , 325, 513-516	3.9	22
32	Nonlocal hyper-Rayleigh scattering from liquid nitrobenzene. <i>Journal of Chemical Physics</i> , 2010 , 132, 154506	3.9	19
31	Accurate hyper-Rayleigh scattering polarization measurements. <i>Review of Scientific Instruments</i> , 2011 , 82, 113103	1.7	18
30	Slow polarization relaxation in water observed by hyper-Rayleigh scattering. <i>Physical Review B</i> , 2005 , 72,	3.3	18
29	Collective molecular rotation in D ₂ O. <i>Journal of Chemical Physics</i> , 2002 , 117, 9374-9382	3.9	18
28	Librons observed in liquid acetonitrile by hyper-rayleigh scattering. <i>Physical Review Letters</i> , 2000 , 84, 1224-7	7.4	17

27	Spectral features of hyper-Rayleigh scattering in chloroform-d. <i>Optics Communications</i> , 1998 , 157, 177-181		16
26	Long-range orientation correlation in dipolar liquids probed by hyper-Rayleigh scattering. <i>Journal of Chemical Physics</i> , 2015 , 143, 134503	3.9	15
25	Hyper-Rayleigh scattering from correlated molecules. <i>Journal of Chemical Physics</i> , 2013 , 138, 154502	3.9	15
24	Refractive index measured by laser beam displacement at $\lambda=1064$ nm for solvents and deuterated solvents. <i>Applied Optics</i> , 2011 , 50, 4091-8	0.2	15
23	Gas phase hyper-Rayleigh scattering measurements. <i>Journal of Chemical Physics</i> , 2012 , 137, 044312	3.9	13
22	Water-water correlations in electrolyte solutions probed by hyper-Rayleigh scattering. <i>Journal of Chemical Physics</i> , 2017 , 147, 214505	3.9	11
21	Structural correlation in water probed by hyper-Rayleigh scattering. <i>Journal of Chemical Physics</i> , 2017 , 147, 154501	3.9	9
20	Long range dipole-dipole correlations in nitrobenzene-benzene solutions. <i>Journal of Chemical Physics</i> , 2010 , 133, 234507	3.9	9
19	Orientation correlation and local field in liquid nitrobenzene. <i>Journal of Chemical Physics</i> , 2016 , 144, 234506	3.9	9
18	Orientation correlation of p-nitroaniline molecules in acetone solution observed by hyper-Rayleigh scattering. <i>Journal of Chemical Physics</i> , 2013 , 138, 054502	3.9	8
17	Note: Fast, small, accurate 90° rotator for a polarizer. <i>Review of Scientific Instruments</i> , 2011 , 82, 036103	1.7	8
16	Polar domain fluctuations in doped liquid nitrobenzene. <i>Journal of Chemical Physics</i> , 2008 , 129, 134501	3.9	8
15	Ferroelectric domains in nitrobenzene-nitromethane solutions measured by hyper-Rayleigh scattering. <i>Journal of Chemical Physics</i> , 2006 , 124, 124509	3.9	8
14	Hyper-Rayleigh scattering spectrum of liquid nitromethane. <i>Journal of Chemical Physics</i> , 2005 , 123, 111103	3.9	8
13	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	2.3	6
12	What is measured by hyper-Rayleigh scattering from a liquid?. <i>Journal of Chemical Physics</i> , 2018 , 148, 134504	3.9	5
11	Third harmonic scattering in liquids. <i>Journal of Chemical Physics</i> , 2018 , 149, 224504	3.9	5
10	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	1.7	4

9	Doped liquid nitrobenzene is ferroelectric. <i>Journal of Chemical Physics</i> , 2007 , 127, 204503	3.9	4
8	Simple imaging for the diamond anvil cell: Applications to hard-to-reach places. <i>Review of Scientific Instruments</i> , 2018 , 89, 103902	1.7	3
7	Optical and electronic solutions for power stabilization of CO lasers. <i>Review of Scientific Instruments</i> , 2020 , 91, 103003	1.7	2
6	Response to "Comment on "Water-water correlations in electrolyte solutions probed by hyper-Rayleigh scattering" [J. Chem. Phys. 149, 167101 (2018)]. <i>Journal of Chemical Physics</i> , 2018 , 149, 167102	3.9	2
5	Hyperpolarizability dispersion measured for (CH ₃) ₂ O. <i>Journal of Chemical Physics</i> , 2015 , 143, 224307	3.9	1
4	Hyperpolarizability dispersion measured for CS ₂ vapor. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020 , 37, 1769	1.7	1
3	Long-range correlation of intra-molecular and inter-molecular vibration in liquid CCl ₄ . <i>Journal of Chemical Physics</i> , 2021 , 154, 034502	3.9	1
2	Vibration overtone hyperpolarizability measured for H ₂ . <i>Journal of Chemical Physics</i> , 2020 , 152, 154301	3.9	
1	Cross-conjugation as a Motif for Organic Non-Linear Optical Molecules. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1698, 14		