

Antonio Rizzo

List of Publications by Year in descending order

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189892

50
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168
all docs

168
docs citations

168
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	The Cotton-Mouton effect in gases: Experiment and theory. International Reviews in Physical Chemistry, 1997, 16, 81-111.	2.3	115
2	Conformational Effects on the Optical Rotation of Alanine and Proline. Journal of Physical Chemistry A, 2004, 108, 4269-4276.	2.5	103
3	The calculation of photoionisation cross sections of simple polyatomic molecules by L2 methods. Physics Reports, 1991, 205, 283-351.	25.6	95
4	Vibrational Raman and Raman Optical Activity Spectra of d-Lactic Acid, d-Lactate, and d-Glyceraldehyde: Ab Initio Calculations. Journal of Physical Chemistry A, 2002, 106, 11008-11016.	2.5	94
5	Electric field dependence of magnetic properties: Multiconfigurational self-consistent field calculations of hypermagnetizabilities and nuclear shielding polarizabilities of N ₂ , C ₂ H ₂ , HCN, and H ₂ O. Journal of Chemical Physics, 1995, 102, 8953-8966.	3.0	89
6	On the molecular electric quadrupole moment and the electric-field-gradient-induced birefringence of CO ₂ and CS ₂ . Chemical Physics Letters, 2000, 326, 269-276.	2.6	83
7	Vibronically Resolved Electronic Circular Dichroism Spectra of (R)-(+)-3-Methylcyclopentanone: A Theoretical Study. Journal of Physical Chemistry A, 2008, 112, 12401-12411.	2.5	78
8	The effect of intermolecular interactions on the electric properties of helium and argon. I. Ab initio calculation of the interaction induced polarizability and hyperpolarizability in He ₂ and Ar ₂ . Journal of Chemical Physics, 1999, 111, 10099-10107.	3.0	75
9	Two-Photon Absorption Circular Dichroism: A New Twist in Nonlinear Spectroscopy. Chemistry - A European Journal, 2010, 16, 3504-3509.	3.3	69
10	Ab initio determinations of magnetic circular dichroism. Chemical Physics Letters, 1999, 300, 61-68.	2.6	66
11	Coupled cluster calculations of the ground state potential and interaction induced electric properties of the mixed dimers of helium, neon and argon. Molecular Physics, 2004, 102, 101-110.	1.7	65
12	The effect of intermolecular interactions on the electric properties of helium and argon. III. Quantum statistical calculations of the dielectric second virial coefficients. Journal of Chemical Physics, 2002, 117, 2609-2618.	3.0	60
13	Selected topics in ab initio computational chemistry in both very small and very large chemical systems. Chemical Reviews, 1991, 91, 679-699.	47.7	56
14	Ab initio study of magnetochiral birefringence. Journal of Chemical Physics, 2002, 117, 6417-6428.	3.0	51
15	Ab initio study of the one- and two-photon circular dichroism of R-(+)-3-methyl-cyclopentanone. Journal of Chemical Physics, 2008, 128, 164312.	3.0	50
16	Theory for Vibrationally Resolved Two-Photon Circular Dichroism Spectra. Application to (R)-(+)-3-Methylcyclopentanone. Journal of Physical Chemistry A, 2009, 113, 4198-4207.	2.5	49
17	Photoionization and photoabsorption cross section calculations in methane, ammonia, water, and hydrogen fluoride molecules. The Journal of Physical Chemistry, 1988, 92, 979-982.	2.9	48
18	The effect of intermolecular interactions on the electric properties of helium and argon. II. The dielectric, refractivity, Kerr, and hyperpolarizability second virial coefficients. Journal of Chemical Physics, 1999, 111, 10108-10118.	3.0	48

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19	Vibronically-induced change in the chiral response of molecules revealed by electronic circular dichroism spectroscopy. Chemical Physics Letters, 2008, 464, 144-149.	2.6	47
20	Gaussian-type-orbital basis sets for the calculation of continuum properties in molecules: The differential photoionization cross section of molecular nitrogen. Physical Review A, 1998, 57, 1895-1905.	2.5	46
21	Ab initio calculation of the frequency-dependent interaction induced hyperpolarizability of Ar ₂ . Journal of Chemical Physics, 1999, 110, 2872-2882.	3.0	46
22	Computational Study of the One- and Two-Photon Absorption and Circular Dichroism of (<sc>l</sc>)-Tryptophan. Journal of Physical Chemistry B, 2010, 114, 6500-6512.	2.6	45
23	Predicting the Helical Sense of Poly(phenylacetylene)s from their Electron Circular Dichroism Spectra. Angewandte Chemie - International Edition, 2018, 57, 3666-3670.	13.8	44
24	A multiconfigurational linear response study of N ₂ . Chemical Physics, 1989, 136, 385-397.	1.9	43
25	Jones birefringence in gases: Ab initio electron correlated results for atoms and linear molecules. Journal of Chemical Physics, 2003, 119, 11064-11079.	3.0	42
26	Strong Two-Photon Circular Dichroism in Helicenes: A Theoretical Investigation. Journal of Chemical Theory and Computation, 2008, 4, 457-467.	5.3	42
27	Damped response theory description of two-photon absorption. Journal of Chemical Physics, 2011, 134, 214104.	3.0	42
28	Gaussian type orbital basis sets for the calculation of continuum properties in molecules: The photoionization cross section of H ₂ . Journal of Chemical Physics, 1993, 98, 8742-8748.	3.0	41
29	Ab Initio Study of the Two-Photon Circular Dichroism in Chiral Natural Amino Acids. Journal of Physical Chemistry B, 2007, 111, 446-460.	2.6	41
30	Coupled cluster investigation of the electric-field-gradient-induced birefringence of H ₂ , N ₂ , C ₂ H ₂ , and CH ₄ . Journal of Chemical Physics, 1998, 109, 7176-7184.	3.0	40
31	Electric field effects on the shielding constants of noble gases: A four-component relativistic Hartree-Fock study. Journal of Chemical Physics, 2004, 121, 3051-3057.	3.0	40
32	Response theory calculations of two-photon circular dichroism. Chemical Physics Letters, 2005, 414, 461-467.	2.6	40
33	MCSCF calculations of hypermagnetizabilities and nuclear shielding polarizabilities of CO and CH ₄ . Molecular Physics, 1996, 88, 931-947.	1.7	39
34	The Cotton-Mouton effect of furan and its homologues in the gas phase, for the pure liquids and in solution. Journal of Chemical Physics, 2003, 118, 10712-10724.	3.0	37
35	On the electric field gradient induced birefringence and electric quadrupole moment of CO, N ₂ O, and OCS. Journal of Chemical Physics, 2003, 118, 7329.	3.0	37
36	Ab initio study of the electric-field-gradient-induced birefringence of a polar molecule: CO. Journal of Chemical Physics, 2000, 113, 3077-3087.	3.0	36

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37	Raman optical activity spectra: basis set and electron correlation effects. <i>Molecular Physics</i> , 2003, 101, 2073-2081.	1.7	36
38	Origin invariant approaches to the calculation of two-photon circular dichroism. <i>Journal of Chemical Physics</i> , 2006, 125, 064113.	3.0	35
39	Vibronic Coupling Dominates the Electronic Circular Dichroism of the Benzene Chromophore ¹ L _b band. <i>Journal of Organic Chemistry</i> , 2013, 78, 7398-7405.	3.2	35
40	Vibronic induced one- and two-photon absorption in a charge-transfer stilbene derivate. <i>Journal of Chemical Physics</i> , 2007, 126, 244509.	3.0	34
41	Some recent developments of high-order response theory. <i>International Journal of Quantum Chemistry</i> , 1998, 70, 219-239.	2.0	33
42	Solvent effects on the conformational distribution and optical rotation of β -methyl paraconic acids and esters. <i>Chirality</i> , 2006, 18, 357-369.	2.6	32
43	Two-photon absorption and two-photon circular dichroism of hexahelicene derivatives: a study of the effect of the nature of intramolecular charge transfer. <i>RSC Advances</i> , 2015, 5, 17429-17437.	3.6	32
44	Theoretical Study of the 15- and 17-Electron Structures of Cyclopentadienylchromium(III) and Cyclopentadienylmolybdenum(III) Complexes. Dichloride and Dimethyl Compounds. <i>Journal of Physical Chemistry A</i> , 1997, 101, 9801-9812.	2.5	30
45	Ab initio calculation of the refractivity and hyperpolarizability second virial coefficients of neon gas. <i>Molecular Physics</i> , 2003, 101, 1983-1995.	1.7	30
46	Density-functional and electron correlated study of five linear birefringencesâ€”Kerr, Cottonâ€”Mouton, Buckingham, Jones, and magnetoelectricâ€”in gaseous benzene. <i>Journal of Chemical Physics</i> , 2004, 121, 8814-8830.	3.0	30
47	Two-photon ionisation cross section calculations of noble gases: results for Ne and Ar. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1983, 16, 2737-2751.	1.6	29
48	Correlation energies in the isoelectronic series of He, Li, Be and Ne. <i>Chemical Physics Letters</i> , 1991, 177, 477-482.	2.6	29
49	MCSCF calculations of Verdet constants. <i>Chemical Physics Letters</i> , 1994, 222, 263-266.	2.6	29
50	Cotton-Mouton effect and shielding polarizabilities of ethylene: An MCSCF study. <i>Chemical Physics</i> , 1997, 216, 53-66.	1.9	29
51	A Study of the Nitrogen NMR Spectra of Azoles and their Solvent Dependence. <i>Journal of Physical Chemistry A</i> , 2000, 104, 1466-1473.	2.5	29
52	Quantum Mechanical Polarizable Continuum Model Approach to the Kerr Effect of Pure Liquids. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18706-18714.	2.6	29
53	Computational Challenges in Simulating and Analyzing Experimental Linear and Nonlinear Circular Dichroism Spectra. R-(+)-1,1â€²-Bis(2-naphthol) as a Prototype Case. <i>Journal of Physical Chemistry B</i> , 2011, 115, 811-824.	2.6	29
54	The multiconfigurational spin tensor electron propagator method (MCSTEP): Electron affinities of Li, Na, and K. <i>Journal of Chemical Physics</i> , 1989, 91, 5451-5454.	3.0	28

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55	Linear response coupled cluster calculation of Raman scattering cross sections. Journal of Chemical Physics, 2002, 116, 1259-1268.	3.0	28
56	Density-functional theory study of electric and magnetic properties of hexafluorobenzene in the vapor phase. Journal of Chemical Physics, 2005, 122, 2343-14.	3.0	27
57	The electric-field-gradient-induced birefringence of Helium, Neon, Argon, and SF ₆ . Journal of Chemical Physics, 1999, 111, 7828-7836.	3.0	26
58	Effect of the environment on vibrational infrared and circular dichroism spectra of (s)-proline. International Journal of Quantum Chemistry, 2005, 104, 744-757.	2.0	26
59	Birefringences: A Challenge for Both Theory and Experiment. Advances in Quantum Chemistry, 2005, , 143-184.	0.8	26
60	AB initio linear response calculations of the dipole polarizability of the acetylene molecule. Chemical Physics Letters, 1988, 149, 79-84.	2.6	25
61	Ab initio study of interaction-induced NMR shielding constants in mixed rare gas dimers. Journal of Chemical Physics, 2007, 126, 074303.	3.0	25
62	Critical analysis of the spin-rotation constants of CF ₂ and CCl ₂ : A theoretical investigation. Chemical Physics Letters, 2005, 409, 118-123.	2.6	24
63	Combined density functional/polarizable continuum model study of magnetochiral birefringence: Can theory and experiment be brought to agreement?. Journal of Chemical Physics, 2006, 125, 234105.	3.0	23
64	Accurate Nonlinear Optical Properties for Small Molecules. Challenges and Advances in Computational Chemistry and Physics, 2006, , 51-99.	0.6	23
65	Analytical calculations of frequency-dependent hypermagnetizabilities and Cottonâ€Mouton constants using London atomic orbitals. Journal of Chemical Physics, 2008, 129, 164110.	3.0	23
66	Two-Photon Polarization Dependent Spectroscopy in Chirality: A Novel Experimental-Theoretical Approach to Study Optically Active Systems. Molecules, 2011, 16, 3315-3337.	3.8	23
67	Coupled cluster calculations of Verdet constants. Chemical Physics Letters, 1997, 281, 445-451.	2.6	22
68	Differences in Twoâ€Photon and Oneâ€Photon Absorption Profiles Induced by Vibronic Coupling: The Case of Dioxaborine Heterocyclic Dye. ChemPhysChem, 2011, 12, 3392-3403.	2.1	22
69	The Effect of the π -Electron Delocalization Curvature on the Two-Photon Circular Dichroism of Molecules with Axial Chirality. Journal of Physical Chemistry Letters, 2012, 3, 1808-1813.	4.6	22
70	Gaussianâ€type orbitals basis sets for the calculation of continuum properties in molecules: The differential photoionization cross section of Li ₂ and LiH. Journal of Chemical Physics, 1995, 102, 7131-7141.	3.0	21
71	MCSCF calculation of response properties of Argon. Theoretica Chimica Acta, 1995, 90, 291-306.	0.8	21
72	MCSCF polarizability and hyperpolarizabilities of HCl and HBr. Chemical Physics Letters, 1998, 288, 677-688.	2.6	21

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73	The Cotton-Mouton effect of liquid water. Part I: The dielectric continuum model. Journal of Chemical Physics, 1997, 107, 894-901.	3.0	20
74	The Cotton-Mouton effect of liquid water. Part II: The semi-continuum model. Journal of Chemical Physics, 1998, 108, 599-603.	3.0	20
75	Ab initio study of excited state electronic circular dichroism. Two prototype cases: Methyl oxirane and R-(+)-1,1-bis(2-naphthol). Journal of Chemical Physics, 2011, 134, 244109.	3.0	20
76	Cavity field effects within a polarizable continuum model of solvation: Application to the calculation of electronic circular dichroism spectra of R-(+)-methylcyclopentanone. International Journal of Quantum Chemistry, 2011, 111, 826-838.	2.0	20
77	Nuclear spin circular dichroism. Journal of Chemical Physics, 2014, 140, 134103.	3.0	20
78	The CO-Ne van der Waals complex: ab initio intermolecular potential energy, interaction induced electric dipole moment and polarizability surfaces, and second virial coefficients. Physical Chemistry Chemical Physics, 2009, 11, 9871.	2.8	19
79	Two-photon absorption circular-linear dichroism on axial enantiomers. Chirality, 2010, 22, E202-10.	2.6	19
80	Two-photon transition probability calculations: electronic transitions in the water molecule. Journal of Physics B: Atomic and Molecular Physics, 1985, 18, 3319-3337.	1.6	18
81	Dynamic dipole polarizabilities of He, Ne and Ar by multiconfigurational linear response. Chemical Physics Letters, 1990, 166, 565-571.	2.6	18
82	The hypermagnetizability of molecular oxygen. Journal of Chemical Physics, 1997, 106, 8552-8563.	3.0	18
83	Shielding polarizabilities calculated at the coupled-cluster singles and doubles level augmented by a perturbative treatment of triple excitations. Journal of Chemical Physics, 2002, 116, 869-877.	3.0	18
84	The nuclear-spin-rotation constants of HCY, HSiY, and SiY ₂ (Y=F, Cl): An ab initio study. Journal of Chemical Physics, 2006, 124, 064302.	3.0	18
85	The magnetic hyperpolarizability anisotropy of the neon atom. Chemical Physics Letters, 1992, 191, 599-602.	2.6	17
86	Multiconfiguration self-consistent field quadratic response calculations of the two-photon transition probability rate constants for argon. Journal of Chemical Physics, 1994, 101, 4931-4935.	3.0	17
87	Coupled-cluster calculation of dispersion contributions to interaction energies and polarizabilities. Theoretical Chemistry Accounts, 2001, 106, 251-258.	1.4	17
88	Relativistic effects on the electric polarizabilities and their geometric derivatives for hydrogen halides and dihalogens - a Dirac-Hartree-Fock study. Chemical Physics Letters, 2003, 370, 578-588.	2.6	17
89	A Density Functional Study of Open-Shell Cyclopentadienyl-Molybdenum(II) Complexes. A Comparison of Stabilizing Factors: Spin-Pairing, Mo-X Bonding, and Release of Steric Pressure. Inorganic Chemistry, 2000, 39, 517-524.	4.0	16
90	The Cotton-Mouton effect of gaseous N ₂ , CO, CO ₂ , N ₂ O, OCS and CS ₂ : a density functional approach to high-order mixed electric and magnetic properties. Chemical Physics Letters, 2001, 346, 251-258.	2.6	16

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91	The Cotton-Mouton effect of neon and argon: A benchmark study using highly correlated coupled cluster wave functions. Journal of Chemical Physics, 2004, 121, 9461-9473.	3.0	16
92	Predicting the Helical Sense of Poly(phenylacetylene)s from their Electron Circular Dichroism Spectra. Angewandte Chemie, 2018, 130, 3728-3732.	2.0	16
93	The Cotton-Mouton effect of gaseous CO ₂ , N ₂ O, OCS, and CS ₂ . A cubic response multiconfigurational self-consistent field study. Journal of Chemical Physics, 2001, 114, 8372-8381.	3.0	15
94	Interatomic interactions and the Cotton-Mouton effect for helium. Molecular Physics, 2002, 100, 799-807.	1.7	15
95	A coupled cluster response study of the electric dipole polarizability, first and second hyperpolarizabilities of HCl. Physical Chemistry Chemical Physics, 2002, 4, 2884-2890.	2.8	15
96	Solvent Effects on the Three-Photon Absorption of a Symmetric Charge-Transfer Molecule. Journal of Physical Chemistry B, 2008, 112, 4703-4710.	2.6	15
97	A Combined Experimental-Computational Investigation to Uncover the Puzzling (Chiro-)optical Response of Pyridocyclophanes: One- and Two-Photon Spectra. Chemistry - A European Journal, 2015, 21, 12136-12147.	3.3	15
98	A computational protocol for the study of circularly polarized phosphorescence and circular dichroism in spin-forbidden absorption. Physical Chemistry Chemical Physics, 2015, 17, 19079-19086.	2.8	15
99	Electric field gradient, generalized Sternheimer shieldings and electric field gradient polarizabilities by multiconfigurational SCF response. Journal of Chemical Physics, 1998, 109, 2264-2274.	3.0	14
100	Analytic calculations of nonlinear mixed electric and magnetic frequency-dependent molecular properties using London atomic orbitals: Buckingham birefringence. Physical Chemistry Chemical Physics, 2009, 11, 816-825.	2.8	14
101	Theoretical investigation of the broad one-photon absorption line-shape of a flexible symmetric carbazole derivative. Physical Chemistry Chemical Physics, 2016, 18, 22889-22905.	2.8	14
102	A study of the effect of circularly polarized light on NMR spectra and related properties of CS ₂ . Molecular Physics, 1999, 96, 855-861.	1.7	14
103	Two-photon transition probability calculations in noble gases. Molecular Physics, 1984, 51, 1095-1108.	1.7	13
104	Accurate transition moments between the $A^1\Sigma^+_u$, $B^1\Sigma^+_g$, and $B^1\Sigma^+_g$ of N ₂ using multiconfigurational linear response. Journal of Chemical Physics, 1988, 89, 1533-1539.	3.0	13
105	An ab initio investigation of the Buckingham birefringence of furan, thiophene, and selenophene in cyclohexane solution. Journal of Chemical Physics, 2007, 127, 164321.	3.0	13
106	Molecular Electric, Magnetic, and Optical Properties. , 2012, , 361-441.		13
107	Ab initio study of the circular intensity difference in electric-field-induced second harmonic generation of chiral natural amino acids. Physical Chemistry Chemical Physics, 2013, 15, 1198-1207.	2.8	13
108	Communication: Nuclear quadrupole moment-induced Cotton-Mouton effect in noble gas atoms. Journal of Chemical Physics, 2013, 139, 181102.	3.0	13

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109	A complex-polarization-propagator protocol for magneto-chiral axial dichroism and birefringence dispersion. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 13267-13279.	2.8	13
110	Characteristics and some peculiarities of multiconfigurational self-consistent field stationary points of the Li ⁺ ground state. <i>Journal of Chemical Physics</i> , 1990, 93, 8011-8020.	3.0	12
111	Density dependence of electric properties of binary mixtures of inert gases. <i>Molecular Physics</i> , 2006, 104, 305-318.	1.7	12
112	The differential magnetizability and the Cotton-Mouton effect of gases. <i>Molecular Physics</i> , 1999, 96, 973-978.	1.7	12
113	Application of the multiconfiguration time-dependent Hartree-Fock method to CH ⁺ : The auxiliary active space. <i>Journal of Chemical Physics</i> , 1988, 89, 3063-3070.	3.0	11
114	MCSCF nuclear magnetic shieldings and spin-rotation constants of ¹⁷ O in ¹⁶ O ¹⁷ O ¹⁶ O and ¹⁷ O ¹⁶ O ¹⁶ O. <i>Chemical Physics Letters</i> , 1998, 287, 677-681.	2.6	11
115	Two-Photon Circular Dichroism of an Axially Dissymmetric Diphosphine Ligand with Strong Intramolecular Charge Transfer. <i>Journal of Physical Chemistry A</i> , 2014, 118, 940-946.	2.5	11
116	A study of the effect of circularly polarized light on NMF spectra and related properties of CS ₂ . <i>Molecular Physics</i> , 1999, 96, 855-861.	1.7	10
117	The differential magnetizability and the Cotton-Mouton effect of gases. <i>Molecular Physics</i> , 1999, 96, 973-978.	1.7	10
118	Nonlinear effects in the interaction of time-dependent fields and chiral systems: A computational investigation. <i>Journal of Chemical Physics</i> , 2006, 125, 054107.	3.0	10
119	Two photon bound-bound electronic transition calculations in molecules. <i>Molecular Physics</i> , 1986, 59, 403-419.	1.7	9
120	Gaussian Type Orbitals basis sets for the calculation of continuum properties in molecules: the differential photoionization cross section of acetylene. <i>Chemical Physics</i> , 2000, 252, 67-81.	1.9	9
121	A full configuration interaction calculation of the density dependence of the ³ He shielding constant. <i>Molecular Physics</i> , 2002, 100, 447-451.	1.7	9
122	A computational study of some electric and magnetic properties of gaseous BF ₃ and BCl ₃ . <i>Journal of Chemical Physics</i> , 2005, 123, 114307.	3.0	9
123	New basis sets for the evaluation of the CO-Ne van der Waals complex interaction induced electric dipole moment and polarizability surfaces. <i>Molecular Physics</i> , 2012, 110, 2503-2512.	1.7	9
124	Two-photon ionization cross section calculation for H ₂ O. <i>Journal of Chemical Physics</i> , 1988, 89, 7301-7306.	3.0	8
125	Two-photon ionization calculations. Results for H ₂ O. <i>Chemical Physics Letters</i> , 1989, 155, 210-215.	2.6	8
126	Angular distribution of photoelectrons from two-photon ionization in molecules: H ₂ O. <i>Journal of Chemical Physics</i> , 1990, 92, 2883-2890.	3.0	8

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127	Origin-independent two-photon circular dichroism calculations in coupled cluster theory. Physical Chemistry Chemical Physics, 2016, 18, 13683-13692.	2.8	8
128	Coupled cluster investigation of Sternheimer shieldings and electric field gradient polarizabilities. Journal of Chemical Physics, 2000, 113, 1688-1697.	3.0	7
129	Relativistic effects on Sternheimer shieldings and the polarizabilities of the electric-field gradient at the nucleus: HX (X=F,Cl,Br,I,At) and Br ₂ . Computational and Theoretical Chemistry, 2003, 633, 163-176.	1.5	7
130	Density dependence of the electric-field-gradient induced birefringence of the helium, neon and argon gases. Molecular Physics, 2003, 101, 1851-1865.	1.7	7
131	Kerr effect of molecular oxygen at $\lambda = 1064$ nm. European Physical Journal D, 2005, 36, 261-269.	1.3	7
132	Four-component Hartree-Fock calculations of magnetic-field induced circular birefringence-Faraday effect in noble gases and dihalogens. Journal of Chemical Physics, 2005, 122, 074321.	3.0	7
133	Optically induced circular and axial birefringences in achiral fluids: an ab initio study of the optical Faraday effect. Molecular Physics, 2006, 104, 2173-2192.	1.7	7
134	On the origin of the very strong two-photon activity of squaraine dyes - a standard/damped response theory study. Physical Chemistry Chemical Physics, 2014, 16, 8030-8035.	2.8	7
135	Investigation of electric-field-gradient-induced birefringence in H ₂ and D ₂ . Theoretical Chemistry Accounts, 2007, 117, 969-977.	1.4	6
136	Theoretical pressure and dielectric second virial coefficients of CO-Ar. Molecular Physics, 2008, 106, 881-892.	1.7	6
137	Analysis of the Electronic Circular Dichroism Spectrum of $(\Delta)^{+}[9](2,5)$ Pyridinophane. Chirality, 2012, 24, 994-1004.	2.6	6
138	Circular and linear magnetic birefringences in xenon at $\lambda = 1064$ nm. Journal of Chemical Physics, 2015, 142, 124313.	3.0	6
139	MCSCF calculations of hypermagnetizabilities and nuclear shielding polarizabilities of CO and CH ₄ . Molecular Physics, 1996, 88, 931-948.	1.7	6
140	Calculation of the differential two-photon ionization cross section of H ₂ S. Journal of Chemical Physics, 1995, 102, 1230-1237.	3.0	5
141	MCSCF calculation of the frequency-dependent hyperpolarizability of the lithium atom. International Journal of Quantum Chemistry, 1996, 60, 487-492.	2.0	5
142	Jones and magnetoelectric birefringence of pure substances - A computational study. Canadian Journal of Chemistry, 2009, 87, 1352-1361.	1.1	5
143	Molecular Electric, Magnetic, and Optical Properties. , 2017, , 497-592.		5
144	Two-photon transition probability calculations: electronic transitions in methane. Chemical Physics, 1986, 109, 227-235.	1.9	4

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145	Ab initio Study of Nitrogen-14 Nuclear Quadrupole Coupling and NMR Signal Linewidths in Some Azoles. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1998, 53, 362-369.	1.5	4
146	Sternheimer shieldings and EFG polarizabilities: a density-functional theory study. Chemical Physics Letters, 2003, 372, 377-385.	2.6	4
147	The magnetizability, rotational g tensor and quadrupole moment of the boron trihalides. Molecular Physics, 2006, 104, 847-856.	1.7	4
148	Relativistic four-component calculations of Buckingham birefringence using London atomic orbitals. Theoretical Chemistry Accounts, 2011, 129, 685-699.	1.4	4
149	Applicability of medium-size basis sets in calculation of electric dipole dynamic polarisabilities and first hyperpolarisabilities of non-interacting molecules. Molecular Physics, 2013, 111, 1462-1469.	1.7	4
150	Properties and Spectroscopies. , 0, , 125-312.		3
151	Ab initio study of the enantio-selective magnetic-field-induced second harmonic generation in chiral molecules. Physical Chemistry Chemical Physics, 2016, 18, 1846-1858.	2.8	3
152	A QM/MM and QM/QM/MM study of Kerr, Cottonâ€Mouton and Jones linear birefringences in liquid acetonitrile. Physical Chemistry Chemical Physics, 2018, 20, 3831-3840.	2.8	3
153	Structure and properties of fractional charge molecular systems: Quark molecular hydrogen ions. Molecular Physics, 1995, 86, 397-414.	1.7	2
154	The molecular electric quadrupole moment and electric-field-gradient induced birefringence (Buckingham effect) of Cl ₂ . Journal of Computational Methods in Sciences and Engineering, 2004, 4, 365-380.	0.2	2
155	David Bishop's approach to vibrational dynamic contributions to molecular properties: Application to Jones and magnetoelectric birefringences in diatomic molecules. International Journal of Quantum Chemistry, 2011, 111, 760-771.	2.0	2
156	Molecular Electric, Magnetic, and Optical Properties. , 2015, , 1-97.		2
157	Ab Initio Study of the Magnetoâ€Optical Rotation of Diastereoisomers. ChemPhysChem, 2008, 9, 462-469.	2.1	1
158	First-order properties and Buckingham birefringence of N ₂ O and OCS â€ A computational (re)investigation. Molecular Physics, 2012, 110, 2543-2555.	1.7	1
159	A density functional theory study of magneto-electric Jones birefringence of noble gases, furan homologues, and mono-substituted benzenes. Journal of Chemical Physics, 2013, 139, 194311.	3.0	1
160	Applicability of medium-size basis sets in calculations of molecular dynamic polarisabilities. Molecular Physics, 2015, 113, 1786-1793.	1.7	1
161	Recent Progress In The Computation Of Non Linear Optica Properties of Chiral Systems. AIP Conference Proceedings, 2007, , .	0.4	0