

Antonio Rizzo

List of Publications by Year in descending order

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161
papers

4,004
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116194

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50
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168
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168
docs citations

168
times ranked

2241
citing authors

#	ARTICLE	IF	CITATIONS
1	The Cotton-Mouton effect in gases: Experiment and theory. <i>International Reviews in Physical Chemistry</i> , 1997, 16, 81-111.	0.9	115
2	Conformational Effects on the Optical Rotation of Alanine and Proline. <i>Journal of Physical Chemistry A</i> , 2004, 108, 4269-4276.	1.1	103
3	The calculation of photoionisation cross sections of simple polyatomic molecules by L2 methods. <i>Physics Reports</i> , 1991, 205, 283-351.	10.3	95
4	Vibrational Raman and Raman Optical Activity Spectra of d-Lactic Acid, d-Lactate, and d-Glyceraldehyde: Ab Initio Calculations. <i>Journal of Physical Chemistry A</i> , 2002, 106, 11008-11016.	1.1	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. <i>Journal of Chemical Physics</i> , 1995, 102, 8953-8966.	1.2	89
6	On the molecular electric quadrupole moment and the electric-field-gradient-induced birefringence of CO ₂ and CS ₂ . <i>Chemical Physics Letters</i> , 2000, 326, 269-276.	1.2	83
7	Vibronically Resolved Electronic Circular Dichroism Spectra of (R)-(+)-3-Methylcyclopentanone: A Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2008, 112, 12401-12411.	1.1	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 . <i>Journal of Chemical Physics</i> , 1999, 111, 10099-10107.	1.2	75
9	Two-Photon Absorption Circular Dichroism: A New Twist in Nonlinear Spectroscopy. <i>Chemistry - A European Journal</i> , 2010, 16, 3504-3509.	1.7	69
10	Ab initio determinations of magnetic circular dichroism. <i>Chemical Physics Letters</i> , 1999, 300, 61-68.	1.2	66
11	Coupled cluster calculations of the ground state potential and interaction induced electric properties of the mixed dimers of helium, neon and argon. <i>Molecular Physics</i> , 2004, 102, 101-110.	0.8	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. <i>Journal of Chemical Physics</i> , 2002, 117, 2609-2618.	1.2	60
13	Selected topics in ab initio computational chemistry in both very small and very large chemical systems. <i>Chemical Reviews</i> , 1991, 91, 679-699.	23.0	56
14	Ab initio study of magnetochiral birefringence. <i>Journal of Chemical Physics</i> , 2002, 117, 6417-6428.	1.2	51
15	Ab initio study of the one- and two-photon circular dichroism of R-(+)-3-methyl-cyclopentanone. <i>Journal of Chemical Physics</i> , 2008, 128, 164312.	1.2	50
16	Theory for Vibrationally Resolved Two-Photon Circular Dichroism Spectra. Application to (R)-(+)-3-Methylcyclopentanone. <i>Journal of Physical Chemistry A</i> , 2009, 113, 4198-4207.	1.1	49
17	Photoionization and photoabsorption cross section calculations in methane, ammonia, water, and hydrogen fluoride molecules. <i>The Journal of Physical Chemistry</i> , 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. <i>Journal of Chemical Physics</i> , 1999, 111, 10108-10118.	1.2	48

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19	Vibronically-induced change in the chiral response of molecules revealed by electronic circular dichroism spectroscopy. <i>Chemical Physics Letters</i> , 2008, 464, 144-149.	1.2	47
20	Gaussian-type-orbital basis sets for the calculation of continuum properties in molecules: The differential photoionization cross section of molecular nitrogen. <i>Physical Review A</i> , 1998, 57, 1895-1905.	1.0	46
21	Ab initio calculation of the frequency-dependent interaction induced hyperpolarizability of Ar ₂ . <i>Journal of Chemical Physics</i> , 1999, 110, 2872-2882.	1.2	46
22	Computational Study of the One- and Two-Photon Absorption and Circular Dichroism of (<sc>l</sc>)-Tryptophan. <i>Journal of Physical Chemistry B</i> , 2010, 114, 6500-6512.	1.2	45
23	Predicting the Helical Sense of Poly(phenylacetylene)s from their Electron Circular Dichroism Spectra. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3666-3670.	7.2	44
24	A multiconfigurational linear response study of N ₂ . <i>Chemical Physics</i> , 1989, 136, 385-397.	0.9	43
25	Jones birefringence in gases: Ab initio electron correlated results for atoms and linear molecules. <i>Journal of Chemical Physics</i> , 2003, 119, 11064-11079.	1.2	42
26	Strong Two-Photon Circular Dichroism in Helicenes: A Theoretical Investigation. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 457-467.	2.3	42
27	Damped response theory description of two-photon absorption. <i>Journal of Chemical Physics</i> , 2011, 134, 214104.	1.2	42
28	Gaussian type orbital basis sets for the calculation of continuum properties in molecules: The photoionization cross section of H ₂ . <i>Journal of Chemical Physics</i> , 1993, 98, 8742-8748.	1.2	41
29	Ab Initio Study of the Two-Photon Circular Dichroism in Chiral Natural Amino Acids. <i>Journal of Physical Chemistry B</i> , 2007, 111, 446-460.	1.2	41
30	Coupled cluster investigation of the electric-field-gradient-induced birefringence of H ₂ , N ₂ , C ₂ H ₂ , and CH ₄ . <i>Journal of Chemical Physics</i> , 1998, 109, 7176-7184.	1.2	40
31	Electric field effects on the shielding constants of noble gases: A four-component relativistic Hartree-Fock study. <i>Journal of Chemical Physics</i> , 2004, 121, 3051-3057.	1.2	40
32	Response theory calculations of two-photon circular dichroism. <i>Chemical Physics Letters</i> , 2005, 414, 461-467.	1.2	40
33	MCSCF calculations of hypermagnetizabilities and nuclear shielding polarizabilities of CO and CH ₄ . <i>Molecular Physics</i> , 1996, 88, 931-947.	0.8	39
34	The Cotton-Mouton effect of furan and its homologues in the gas phase, for the pure liquids and in solution. <i>Journal of Chemical Physics</i> , 2003, 118, 10712-10724.	1.2	37
35	On the electric field gradient induced birefringence and electric quadrupole moment of CO, N ₂ O, and OCS. <i>Journal of Chemical Physics</i> , 2003, 118, 7329.	1.2	37
36	Ab initio study of the electric-field-gradient-induced birefringence of a polar molecule: CO. <i>Journal of Chemical Physics</i> , 2000, 113, 3077-3087.	1.2	36

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37	Raman optical activity spectra: basis set and electron correlation effects. <i>Molecular Physics</i> , 2003, 101, 2073-2081.	0.8	36
38	Origin invariant approaches to the calculation of two-photon circular dichroism. <i>Journal of Chemical Physics</i> , 2006, 125, 064113.	1.2	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.	1.7	35
40	Vibronic induced one- and two-photon absorption in a charge-transfer stilbene derivate. <i>Journal of Chemical Physics</i> , 2007, 126, 244509.	1.2	34
41	Some recent developments of high-order response theory. <i>International Journal of Quantum Chemistry</i> , 1998, 70, 219-239.	1.0	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.	1.3	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.	1.7	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.	1.1	30
45	Ab initio calculation of the refractivity and hyperpolarizability second virial coefficients of neon gas. <i>Molecular Physics</i> , 2003, 101, 1983-1995.	0.8	30
46	Density-functional and electron correlated study of five linear birefringences ϵ^{Kerr} , Cotton-Mouton, Buckingham, Jones, and magnetoelectric ϵ^{in} in gaseous benzene. <i>Journal of Chemical Physics</i> , 2004, 121, 8814-8830.	1.2	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.	1.2	29
49	MCSCF calculations of Verdet constants. <i>Chemical Physics Letters</i> , 1994, 222, 263-266.	1.2	29
50	Cotton-Mouton effect and shielding polarizabilities of ethylene: An MCSCF study. <i>Chemical Physics</i> , 1997, 216, 53-66.	0.9	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.	1.1	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.	1.2	29
53	Computational Challenges in Simulating and Analyzing Experimental Linear and Nonlinear Circular Dichroism Spectra. R-(+)-1,1'-Bis(2-naphthol) as a Prototype Case. <i>Journal of Physical Chemistry B</i> , 2011, 115, 811-824.	1.2	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.	1.2	28

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55	Linear response coupled cluster calculation of Raman scattering cross sections. <i>Journal of Chemical Physics</i> , 2002, 116, 1259-1268.	1.2	28
56	Density-functional theory study of electric and magnetic properties of hexafluorobenzene in the vapor phase. <i>Journal of Chemical Physics</i> , 2005, 122, 234314.	1.2	27
57	The electric-field-gradient-induced birefringence of Helium, Neon, Argon, and SF ₆ . <i>Journal of Chemical Physics</i> , 1999, 111, 7828-7836.	1.2	26
58	Effect of the environment on vibrational infrared and circular dichroism spectra of (s)-proline. <i>International Journal of Quantum Chemistry</i> , 2005, 104, 744-757.	1.0	26
59	Birefringences: A Challenge for Both Theory and Experiment. <i>Advances in Quantum Chemistry</i> , 2005, , 143-184.	0.4	26
60	Ab initio linear response calculations of the dipole polarizability of the acetylene molecule. <i>Chemical Physics Letters</i> , 1988, 149, 79-84.	1.2	25
61	Ab initio study of interaction-induced NMR shielding constants in mixed rare gas dimers. <i>Journal of Chemical Physics</i> , 2007, 126, 074303.	1.2	25
62	Critical analysis of the spin-rotation constants of CF ₂ and CCl ₂ : A theoretical investigation. <i>Chemical Physics Letters</i> , 2005, 409, 118-123.	1.2	24
63	Combined density functional/polarizable continuum model study of magnetochiral birefringence: Can theory and experiment be brought to agreement?. <i>Journal of Chemical Physics</i> , 2006, 125, 234105.	1.2	23
64	Accurate Nonlinear Optical Properties for Small Molecules. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2006, , 51-99.	0.6	23
65	Analytical calculations of frequency-dependent hypermagnetizabilities and Cotton-Mouton constants using London atomic orbitals. <i>Journal of Chemical Physics</i> , 2008, 129, 164110.	1.2	23
66	Two-Photon Polarization Dependent Spectroscopy in Chirality: A Novel Experimental-Theoretical Approach to Study Optically Active Systems. <i>Molecules</i> , 2011, 16, 3315-3337.	1.7	23
67	Coupled cluster calculations of Verdet constants. <i>Chemical Physics Letters</i> , 1997, 281, 445-451.	1.2	22
68	Differences in Two-Photon and One-Photon Absorption Profiles Induced by Vibronic Coupling: The Case of Dioxaborine Heterocyclic Dye. <i>ChemPhysChem</i> , 2011, 12, 3392-3403.	1.0	22
69	The Effect of the π -Electron Delocalization Curvature on the Two-Photon Circular Dichroism of Molecules with Axial Chirality. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1808-1813.	2.1	22
70	Gaussian-type orbitals basis sets for the calculation of continuum properties in molecules: The differential photoionization cross section of Li ₂ and LiH. <i>Journal of Chemical Physics</i> , 1995, 102, 7131-7141.	1.2	21
71	MCSCF calculation of response properties of Argon. <i>Theoretica Chimica Acta</i> , 1995, 90, 291-306.	0.9	21
72	MCSCF polarizability and hyperpolarizabilities of HCl and HBr. <i>Chemical Physics Letters</i> , 1998, 288, 677-688.	1.2	21

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73	The Cotton-Mouton effect of liquid water. Part I: The dielectric continuum model. <i>Journal of Chemical Physics</i> , 1997, 107, 894-901.	1.2	20
74	The Cotton-Mouton effect of liquid water. Part II: The semi-continuum model. <i>Journal of Chemical Physics</i> , 1998, 108, 599-603.	1.2	20
75	<i>Ab initio</i> study of excited state electronic circular dichroism. Two prototype cases: Methyl oxirane and R-(+)-1,1 ² -bi(2-naphthol). <i>Journal of Chemical Physics</i> , 2011, 134, 244109.	1.2	20
76	Cavity field effects within a polarizable continuum model of solvation: Application to the calculation of electronic circular dichroism spectra of R-(+)-methylcyclopentanone. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 826-838.	1.0	20
77	Nuclear spin circular dichroism. <i>Journal of Chemical Physics</i> , 2014, 140, 134103.	1.2	20
78	The CO-Ne van der Waals complex: <i>ab initio</i> intermolecular potential energy, interaction induced electric dipole moment and polarizability surfaces, and second virial coefficients. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 9871.	1.3	19
79	Two-photon absorption circular-linear dichroism on axial enantiomers. <i>Chirality</i> , 2010, 22, E202-10.	1.3	19
80	Two-photon transition probability calculations: electronic transitions in the water molecule. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1985, 18, 3319-3337.	1.6	18
81	Dynamic dipole polarizabilities of He, Ne and Ar by multiconfigurational linear response. <i>Chemical Physics Letters</i> , 1990, 166, 565-571.	1.2	18
82	The hypermagnetizability of molecular oxygen. <i>Journal of Chemical Physics</i> , 1997, 106, 8552-8563.	1.2	18
83	Shielding polarizabilities calculated at the coupled-cluster singles and doubles level augmented by a perturbative treatment of triple excitations. <i>Journal of Chemical Physics</i> , 2002, 116, 869-877.	1.2	18
84	The nuclear-spin-rotation constants of HCY, HSiY, and SiY ₂ (Y=F, Cl): An <i>ab initio</i> study. <i>Journal of Chemical Physics</i> , 2006, 124, 064302.	1.2	18
85	The magnetic hyperpolarizability anisotropy of the neon atom. <i>Chemical Physics Letters</i> , 1992, 191, 599-602.	1.2	17
86	Multiconfiguration self-consistent field quadratic response calculations of the two-photon transition probability rate constants for argon. <i>Journal of Chemical Physics</i> , 1994, 101, 4931-4935.	1.2	17
87	Coupled-cluster calculation of dispersion contributions to interaction energies and polarizabilities. <i>Theoretical Chemistry Accounts</i> , 2001, 106, 251-258.	0.5	17
88	Relativistic effects on the electric polarizabilities and their geometric derivatives for hydrogen halides and dihalogens - a Dirac-Hartree-Fock study. <i>Chemical Physics Letters</i> , 2003, 370, 578-588.	1.2	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. <i>Inorganic Chemistry</i> , 2000, 39, 517-524.	1.9	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. <i>Chemical Physics Letters</i> , 2001, 346, 251-258.	1.2	16

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91	The Cotton-Mouton effect of neon and argon: A benchmark study using highly correlated coupled cluster wave functions. <i>Journal of Chemical Physics</i> , 2004, 121, 9461-9473.	1.2	16
92	Predicting the Helical Sense of Poly(phenylacetylene)s from their Electron Circular Dichroism Spectra. <i>Angewandte Chemie</i> , 2018, 130, 3728-3732.	1.6	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. <i>Journal of Chemical Physics</i> , 2001, 114, 8372-8381.	1.2	15
94	Interatomic interactions and the Cotton-Mouton effect for helium. <i>Molecular Physics</i> , 2002, 100, 799-807.	0.8	15
95	A coupled cluster response study of the electric dipole polarizability, first and second hyperpolarizabilities of HCl. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 2884-2890.	1.3	15
96	Solvent Effects on the Three-Photon Absorption of a Symmetric Charge-Transfer Molecule. <i>Journal of Physical Chemistry B</i> , 2008, 112, 4703-4710.	1.2	15
97	A Combined Experimental-Computational Investigation to Uncover the Puzzling (Chiro)optical Response of Pyridocyclophanes: One- and Two-Photon Spectra. <i>Chemistry - A European Journal</i> , 2015, 21, 12136-12147.	1.7	15
98	A computational protocol for the study of circularly polarized phosphorescence and circular dichroism in spin-forbidden absorption. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 19079-19086.	1.3	15
99	Electric field gradient, generalized Sternheimer shieldings and electric field gradient polarizabilities by multiconfigurational SCF response. <i>Journal of Chemical Physics</i> , 1998, 109, 2264-2274.	1.2	14
100	Analytic calculations of nonlinear mixed electric and magnetic frequency-dependent molecular properties using London atomic orbitals: Buckingham birefringence. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 816-825.	1.3	14
101	Theoretical investigation of the broad one-photon absorption line-shape of a flexible symmetric carbazole derivative. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 22889-22905.	1.3	14
102	A study of the effect of circularly polarized light on NMR spectra and related properties of CS ₂ . <i>Molecular Physics</i> , 1999, 96, 855-861.	0.8	14
103	Two-photon transition probability calculations in noble gases. <i>Molecular Physics</i> , 1984, 51, 1095-1108.	0.8	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. <i>Journal of Chemical Physics</i> , 1988, 89, 1533-1539.	1.2	13
105	An ab initio investigation of the Buckingham birefringence of furan, thiophene, and selenophene in cyclohexane solution. <i>Journal of Chemical Physics</i> , 2007, 127, 164321.	1.2	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. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 1198-1207.	1.3	13
108	Communication: Nuclear quadrupole moment-induced Cotton-Mouton effect in noble gas atoms. <i>Journal of Chemical Physics</i> , 2013, 139, 181102.	1.2	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.	1.3	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.	1.2	12
111	Density dependence of electric properties of binary mixtures of inert gases. <i>Molecular Physics</i> , 2006, 104, 305-318.	0.8	12
112	The differential magnetizability and the Cotton-Mouton effect of gases. <i>Molecular Physics</i> , 1999, 96, 973-978.	0.8	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.	1.2	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.	1.2	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.	1.1	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.	0.8	10
117	The differential magnetizability and the Cotton-Mouton effect of gases. <i>Molecular Physics</i> , 1999, 96, 973-978.	0.8	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.	1.2	10
119	Two photon bound-bound electronic transition calculations in molecules. <i>Molecular Physics</i> , 1986, 59, 403-419.	0.8	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.	0.9	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.	0.8	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.	1.2	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.	0.8	9
124	Two-photon ionization cross section calculation for H ₂ O. <i>Journal of Chemical Physics</i> , 1988, 89, 7301-7306.	1.2	8
125	Two-photon ionization calculations. Results for H ₂ O. <i>Chemical Physics Letters</i> , 1989, 155, 210-215.	1.2	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.	1.2	8

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127	Origin-independent two-photon circular dichroism calculations in coupled cluster theory. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 13683-13692.	1.3	8
128	Coupled cluster investigation of Sternheimer shieldings and electric field gradient polarizabilities. <i>Journal of Chemical Physics</i> , 2000, 113, 1688-1697.	1.2	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 . <i>Computational and Theoretical Chemistry</i> , 2003, 633, 163-176.	1.5	7
130	Density dependence of the electric-field-gradient induced birefringence of the helium, neon and argon gases. <i>Molecular Physics</i> , 2003, 101, 1851-1865.	0.8	7
131	Kerr effect of molecular oxygen at $\lambda = 1064$ nm. <i>European Physical Journal D</i> , 2005, 36, 261-269.	0.6	7
132	Four-component Hartree-Fock calculations of magnetic-field induced circular birefringence-Faraday effect in noble gases and dihalogens. <i>Journal of Chemical Physics</i> , 2005, 122, 074321.	1.2	7
133	Optically induced circular and axial birefringences in achiral fluids: an initial study of the optical Faraday effect. <i>Molecular Physics</i> , 2006, 104, 2173-2192.	0.8	7
134	On the origin of the very strong two-photon activity of squaraine dyes - a standard/damped response theory study. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 8030-8035.	1.3	7
135	Investigation of electric-field-gradient-induced birefringence in H ₂ and D ₂ . <i>Theoretical Chemistry Accounts</i> , 2007, 117, 969-977.	0.5	6
136	Theoretical pressure and dielectric second virial coefficients of CO-Ar. <i>Molecular Physics</i> , 2008, 106, 881-892.	0.8	6
137	Analysis of the Electronic Circular Dichroism Spectrum of (R)-[9](2,5)Pyridinophane. <i>Chirality</i> , 2012, 24, 994-1004.	1.3	6
138	Circular and linear magnetic birefringences in xenon at $\lambda = 1064$ nm. <i>Journal of Chemical Physics</i> , 2015, 142, 124313.	1.2	6
139	MCSCF calculations of hypermagnetizabilities and nuclear shielding polarizabilities of CO and CH ₄ . , 0, .		6
140	Calculation of the differential two-photon ionization cross section of H ₂ S. <i>Journal of Chemical Physics</i> , 1995, 102, 1230-1237.	1.2	5
141	MCSCF calculation of the frequency-dependent hyperpolarizability of the lithium atom. <i>International Journal of Quantum Chemistry</i> , 1996, 60, 487-492.	1.0	5
142	Jones and magnetoelectric birefringence of pure substances - A computational study. <i>Canadian Journal of Chemistry</i> , 2009, 87, 1352-1361.	0.6	5
143	Molecular Electric, Magnetic, and Optical Properties. , 2017, , 497-592.		5
144	Two-photon transition probability calculations: electronic transitions in methane. <i>Chemical Physics</i> , 1986, 109, 227-235.	0.9	4

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145	Ab initio Study of Nitrogen-14 Nuclear Quadrupole Coupling and NMR Signal Linewidths in Some Azoles. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1998, 53, 362-369.	0.7	4
146	Sternheimer shieldings and EFG polarizabilities: a density-functional theory study. <i>Chemical Physics Letters</i> , 2003, 372, 377-385.	1.2	4
147	The magnetizability, rotational g tensor and quadrupole moment of the boron trihalides. <i>Molecular Physics</i> , 2006, 104, 847-856.	0.8	4
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