

Michel RÃ©rat

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	RbCeX ₂ Crystal (X = S, Se, Te): Pressure-Induced Spin-Selective Gapless Transition and Response Properties. <i>Journal of Alloys and Compounds</i> , 2022, 898, 162760.	5.5	3
2	The role of spin density for understanding the superexchange mechanism in transition metal ionic compounds. The case of KMF ₃ (M = Mn, Fe, Co, Ni, Cu) perovskites. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 12950-12960.	2.8	2
3	Raman activity of the longitudinal optical phonons of the LiNbO ₃ crystal: Experimental determination and quantum mechanical simulation. <i>Journal of Raman Spectroscopy</i> , 2022, 53, 1904-1914.	2.5	3
4	Electronic and magnetic properties of yttria-stabilized zirconia (6.7Åmol% in Y ₂ O ₃) doped with Er ³⁺ ions from first-principle computations. <i>Journal of Materials Science</i> , 2021, 56, 8014-8023.	3.7	0
5	First-Principles Calculation of the Optical Rotatory Power of Periodic Systems: Application on $\bar{1}\pm$ -Quartz, Tartaric Acid Crystal, and Chiral (n,m)-Carbon Nanotubes. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 4063-4076.	5.3	13
6	Theoretical insight into electronic and optical behaviour of H-adsorbed Zn-terminated Zn ₃ N ₂ -(100)-non-polar surface. <i>Vacuum</i> , 2021, 192, 110467.	3.5	1
7	Third-order nonlinear optical susceptibilities of H ₂ molecule. http://www.w3.org/1998/Math/MathML xmins:mml="http://www.w3.org/1998/Math/MathML" altimg="si24.svg"><mml:mrow><mml:msup><mml:mrow><mml:mo stretchy="false">(</mml:mo><mml:mi>T</mml:mi></mml:mrow><mml:mfenced open="(">Tj ETQq1 1 0.784314 rBT /Overlock 10 TFS		
8	Ab initio compressibility of metastable low albite: revealing a lambda-type singularity at pressures of the Earth's upper mantle. <i>Physics and Chemistry of Minerals</i> , 2020, 47, 1.	0.8	3
9	From anisotropy of dielectric tensors to birefringence: a quantum mechanics approach. <i>Rendiconti Lincei</i> , 2020, 31, 835-851.	2.2	3
10	From Pyridine Adduct of Borabenzene to (In)finite Graphene Architectures Functionalized with N-atom B-Dative Bonds. Prototype Systems of Strong One- and Two-Photon Quantum Transitions Triggering Large Nonlinear Optical Responses. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21063-21074.	3.1	9
11	The CRYSTAL code, 1976-2020 and beyond, a long story. <i>Journal of Chemical Physics</i> , 2020, 152, 204111.	3.0	133
12	An all-electron study of the low-lying excited states and optical constants of Al ₂ O ₃ in the range 5-80 eV. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 085901.	1.8	8
13	Magnetic semiconductor properties of RbLnSe ₂ (Ln=Ce, Pr, Nd, Gd): A density functional study. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 501, 166448.	2.3	11
14	Computational analysis of strain-induced electronic and optical properties of Zn ₃ As ₂ . <i>Journal of Materials Science</i> , 2020, 55, 5099-5110.	3.7	5
15	Calculation of Anharmonic IR and Raman Intensities for Periodic Systems from DFT Calculations: Implementation and Validation. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 3343-3351.	5.3	7
16	Substitutional carbon defects in silicon: A quantum mechanical characterization through the infrared and Raman spectra. <i>Journal of Computational Chemistry</i> , 2020, 41, 1638-1644.	3.3	8
17	Third-order nonlinear optical susceptibility of crystalline oxide yttria-stabilized zirconia. <i>Photonics Research</i> , 2020, 8, 110.	7.0	19
18	Polyaromatic Systems Combining Increasing Optical Gaps and Amplified Nonlinear Optical Properties. A Comprehensive Theoretical Study on B ₃ N ₃ -Doped Nanographenes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21135-21149.	3.1	11

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19	Structural, electronic and optical properties of ABTe ₂ (A = Li, Na, K, Rb, Cs and B = Sc, Y, La): Insights from first-principles computations. <i>Journal of Solid State Chemistry</i> , 2019, 279, 120954.	2.9	13
20	Anharmonic Vibrational States of Solids from DFT Calculations. Part I: Description of the Potential Energy Surface. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 3755-3765.	5.3	36
21	Anharmonic Vibrational States of Solids from DFT Calculations. Part II: Implementation of the VSCF and VCI Methods. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 3766-3777.	5.3	37
22	Calculation of the Infrared Intensity of Crystalline Systems. A Comparison of Three Strategies Based on Berry Phase, Wannier Function, and Coupled-Perturbed Kohn-Sham Methods. <i>Journal of Physical Chemistry C</i> , 2019, 123, 8336-8346.	3.1	24
23	Determination of the Macroscopic Electric Susceptibilities $\hat{\chi}^{\pm}$ (n) from the Microscopic (hyper)polarizabilities $\hat{\chi}^{\pm}$, $\hat{\chi}^2$ and $\hat{\chi}^3$. , 2019, , 771-774.		0
24	Quantum-mechanical condensed matter simulations with CRYSTAL. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2018, 8, e1360.	14.6	1,277
25	Ab initio calculation of nonlinear optical properties for chiral carbon nanotubes. Second harmonic generation and dc-Pockels effect. <i>Theoretical Chemistry Accounts</i> , 2018, 137, 1.	1.4	4
26	Hydrogen atoms in the diamond vacancy defect. A quantum mechanical vibrational analysis. <i>Carbon</i> , 2018, 129, 349-356.	10.3	18
27	Characterization of the B-Center Defect in Diamond through the Vibrational Spectrum: A Quantum-Mechanical Approach. <i>Journal of Physical Chemistry A</i> , 2018, 122, 594-600.	2.5	23
28	The Infrared spectrum of very large (periodic) systems: global versus fragment strategies—the case of three defects in diamond. <i>Theoretical Chemistry Accounts</i> , 2018, 137, 1.	1.4	10
29	Scalars, vectors and tensors evolving from slabs to bulk. <i>Theoretical Chemistry Accounts</i> , 2018, 137, 1.	1.4	0
30	Structure prediction of nanoclusters from global optimization techniques: Computational strategies and connection to experiments. <i>Computational and Theoretical Chemistry</i> , 2017, 1107, 1.	2.5	0
31	Exploring the Linear Optical Properties of Borazine (B ₃ N ₃) Doped Graphenes. OD Flakes vs 2D Sheets. <i>Journal of Physical Chemistry C</i> , 2017, 121, 709-722.	3.1	24
32	BiVO ₃ : A Bi-based material with promising uv-visible light absorption properties. <i>Physical Review B</i> , 2017, 96, .	3.2	11
33	Establishing the pivotal role of local aromaticity in the electronic properties of boron-nitride graphene lateral hybrids. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 25315-25328.	2.8	19
34	Longitudinal and transverse hyperpolarizabilities of carbon nanotubes: a computational investigation through the coupled-perturbed Hartree-Fock/Kohn-Sham scheme. <i>Theoretical Chemistry Accounts</i> , 2016, 135, 1.	1.4	6
35	Third-Order Electric Field Response of Infinite Linear Chains Composed of Phenalenyl Radicals. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6756-6761.	3.1	15
36	Piezoelectricity of Functionalized Graphene: A Quantum-Mechanical Rationalization. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7795-7803.	3.1	26

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55	Beryllium Oxide Nanotubes and their Connection to the Flat Monolayer. Journal of Physical Chemistry C, 2013, 117, 12864-12872.	3.1	60
56	Comment on "Ab initio analytical infrared intensities for periodic systems through a coupled perturbed Hartree-Fock/Kohn-Sham method" [J. Chem. Phys. 137, 204113 (2012)]. Journal of Chemical Physics, 2013, 139, 167101.	3.0	28
57	Ab initio analytical Raman intensities for periodic systems through a coupled perturbed Hartree-Fock/Kohn-Sham method in an atomic orbital basis. II. Validation and comparison with experiments. Journal of Chemical Physics, 2013, 139, 164102.	3.0	145
58	Calculation of longitudinal polarizability and second hyperpolarizability of polyacetylene with the coupled perturbed Hartree-Fock/Kohn-Sham scheme: Where it is shown how finite oligomer chains tend to the infinite periodic polymer. Journal of Chemical Physics, 2012, 136, 114101.	3.0	21
59	Ab initio analytical infrared intensities for periodic systems through a coupled perturbed Hartree-Fock/Kohn-Sham method. Journal of Chemical Physics, 2012, 137, 204113.	3.0	133
60	Static and dynamic coupled perturbed Hartree-Fock vibrational (hyper)polarizabilities of polyacetylene calculated by the finite field nuclear relaxation method. Journal of Chemical Physics, 2012, 137, 014103.	3.0	6
61	Polarizability and charge density distribution in crystalline urea. AIP Conference Proceedings, 2012, , .	0.4	1
62	Response properties of AgCl and AgBr under an external static electric field: A density functional study. Solid State Sciences, 2012, 14, 1412-1418.	3.2	6
63	Vibrational contribution to static and dynamic (Hyper)polarizabilities of zigzag BN nanotubes calculated by the finite field nuclear relaxation method. International Journal of Quantum Chemistry, 2012, 112, 2160-2170.	2.0	16
64	Electronic structure, dielectric properties and infrared vibrational spectrum of fayalite: An ab initio simulation with an all-electron Gaussian basis set and the B3LYP functional. International Journal of Quantum Chemistry, 2012, 112, 2098-2108.	2.0	20
65	Ab initio electron energy loss spectra and depolarization effects: Application to carbon nanotubes. International Journal of Quantum Chemistry, 2012, 112, 2171-2184.	2.0	1
66	Periodic ab initio estimates of the dispersive interaction between molecular nitrogen and a monolayer of hexagonal BN. Physical Chemistry Chemical Physics, 2011, 13, 4434.	2.8	22
67	First-principles optical response of semiconductors and oxide materials. Physical Review B, 2011, 83, .	3.2	51
68	Properties of Carbon Nanotubes: An ab Initio Study Using Large Gaussian Basis Sets and Various DFT Functionals. Journal of Physical Chemistry C, 2011, 115, 8876-8885.	3.1	42
69	Polarizability and hyperpolarizability of BN zigzag nanotubes calculated by the coupled perturbed Kohn-Sham scheme. Physical Review B, 2011, 83, .	3.2	23
70	Electronic and Optical Modeling of Solar Cell Compounds CuGaSe2 and CuInSe2. Journal of Electronic Materials, 2011, 40, 2197-2208.	2.2	31
71	Polarizabilities of carbon nanotubes: Importance of the crystalline orbitals relaxation in presence of an electric field. International Journal of Quantum Chemistry, 2011, 111, 797-806.	2.0	2
72	Structural, electronic, elastic, and piezoelectric properties of \pm -quartz and \pm -quartz		

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73	Brillouin Spectroscopy, Calculated Elastic and Bond Properties of GaAsO ₄ . Inorganic Chemistry, 2010, 49, 9470-9478.	4.0	13
74	Effect of crystal packing on the static polarizability and first-hyperpolarizability of crystalline urea: an ab initio computational study. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, s70-s70.	0.3	0
75	The calculation of the static first and second susceptibilities of crystalline urea: A comparison of Hartree-Fock and density functional theory results obtained with the periodic coupled perturbed Hartree-Fock/Kohn-Sham scheme. Journal of Chemical Physics, 2009, 131, 214704.	3.0	43
76	Response of low quartz $\langle \text{SiO}_2 \rangle$ to the presence of an external static electric field: A density functional theory study. Physical Review B, 2009, 80, .	3.2	18
77	Calculation of the static electronic second hyperpolarizability or $\chi^{(3)}$ tensor of three-dimensional periodic compounds with a local basis set. Journal of Chemical Physics, 2009, 131, 184105.	3.0	18
78	First-principles study of the optical properties of BeO in its ambient and high-pressure phases. Journal of Physics and Chemistry of Solids, 2009, 70, 789-795.	4.0	62
79	Calculation of the dielectric constant ϵ_0 and first nonlinear susceptibility $\chi^{(2)}$ of crystalline potassium dihydrogen phosphate by the coupled perturbed Hartree-Fock and coupled perturbed Kohn-Sham schemes as implemented in the <scp>CRYSTAL</scp> code. Journal of Chemical Physics, 2009, 131, 204509.	3.0	24
80	Polarization of one-dimensional periodic systems in a static electric field: Sawtooth potential treatment revisited. Journal of Chemical Physics, 2009, 131, 044109.	3.0	10
81	The calculation of static polarizabilities of 1-3D periodic compounds. the implementation in the crystal code. Journal of Computational Chemistry, 2008, 29, 1450-1459.	3.3	253
82	Electronic and optical properties under pressure effect of alkali metal oxides. European Physical Journal B, 2008, 64, 35-42.	1.5	33
83	Calculation of first and second static hyperpolarizabilities of one- to three-dimensional periodic compounds. Implementation in the <scp>CRYSTAL</scp> code.. Journal of Chemical Physics, 2008, 129, 244110.	3.0	199
84	Study of intercalated Ti atom in tetrahedral or octahedral sites of titanium disulfide (001) surfaces: Theoretical scanning tunneling microscopy images. Journal of Chemical Physics, 2008, 128, 014708.	3.0	2
85	Coupled perturbed Hartree-Fock for periodic systems: The role of symmetry and related computational aspects. Journal of Chemical Physics, 2008, 128, 014110.	3.0	186
86	Coupled perturbed Kohn-Sham calculation of static polarizabilities of periodic compounds. Journal of Physics: Conference Series, 2008, 117, 012016.	0.4	63
87	Comparison of the polarizability of periodic systems computed by using the length and velocity operators. Journal of Physics: Conference Series, 2008, 117, 012023.	0.4	14
88	First-principles calculations of the elastic, electronic, and optical properties of the filled skutterudites CeFe ₄ P ₁₂ and ThFe ₄ P ₁₂ . Physical Review B, 2007, 75, .	3.2	66
89	Coupled Perturbed Hartree-Fock Calculation of the Static Polarizability for Periodic Systems: Implementation in the CRYSTAL Code. AIP Conference Proceedings, 2007, , .	0.4	13
90	Electronic and structural properties of Ti vacancies on the (001) surface of TiS ₂ : Theoretical scanning tunneling microscopy images. Journal of Chemical Physics, 2007, 126, 074703.	3.0	3

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91	Ti vacancies on the (001) surface of TiS ₂ detected by scanning tunneling microscopy: A combined experimental and theoretical study. <i>Solid State Sciences</i> , 2007, 9, 594-599.	3.2	8
92	First-principles study of the structural, electronic, and optical properties of Ga ₂ O ₃ in its monoclinic and hexagonal phases. <i>Physical Review B</i> , 2006, 74, .	3.2	510
93	Structural, electronic, elastic and high-pressure properties of some alkaline-earth chalcogenides: An ab initio study. <i>Physica B: Condensed Matter</i> , 2006, 371, 12-19.	2.7	69
94	Elastic and optical properties of BeS, BeSe and BeTe under pressure. <i>Solid-State Electronics</i> , 2006, 50, 1382-1388.	1.4	73
95	Ab initio calculations of the dispersion contribution to the physisorption potential: Application to the N ₂ -BN system. <i>Physical Review B</i> , 2006, 73, .	3.2	7
96	Full-potential calculations of structural, elastic and electronic properties of MgAl ₂ O ₄ and ZnAl ₂ O ₄ compounds. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 344, 271-279.	2.1	73
97	First-principles calculations of optical properties of GeC, SnC and GeSn under hydrostatic pressure. <i>Physica B: Condensed Matter</i> , 2005, 355, 392-400.	2.7	35
98	Structural, electronic and optical properties of fluorite-type compounds. <i>European Physical Journal B</i> , 2005, 47, 63-70.	1.5	31
99	Quasienergy Derivative Method for the Optical Susceptibilities of Molecules in the Floquet Theory. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2005, 99, 545.	0.6	0
100	First-principle calculations of structural, electronic and optical properties of BaTiO ₃ and BaZrO ₃ under hydrostatic pressure. <i>Solid State Communications</i> , 2005, 136, 120-125.	1.9	104
101	First-principles study of structural, electronic and optical properties of BaF ₂ in its cubic, orthorhombic and hexagonal phases. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 709-718.	1.8	30
102	Implementation of the finite field perturbation method in the CRYSTAL program for calculating the dielectric constant of periodic systems. <i>Journal of Computational Chemistry</i> , 2003, 24, 1305-1312.	3.3	52
103	First-principle study of structural, electronic and elastic properties of SrS, SrSe and SrTe under pressure. <i>Physica B: Condensed Matter</i> , 2003, 339, 208-215.	2.7	92
104	Intramolecular dependence of the frequency-dependent polarizabilities of K ₂ (a ₃ $\hat{\xi}$ u ⁺) and van der Waals dispersion coefficients for X ₂ +K, X ₂ +K and X ₂ +K ₂ (X=Li,Na,K). <i>Computational and Theoretical Chemistry</i> , 2003, 633, 137-144.	1.5	6
105	Full potential linearized augmented plane wave calculations of structural and electronic properties of GeC, SnC and GeSn. <i>Physica B: Condensed Matter</i> , 2003, 336, 321-328.	2.7	45
106	Floquet gauge-invariant coupled perturbation theory in calculations of the optical susceptibilities of molecules. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2003, 94, 496-501.	0.6	1
107	Intramolecular dependence of the frequency dependent polarizabilities of Li ₂ (a ₃ $\hat{\xi}$ u ⁺) and Na ₂ (a ₃ $\hat{\xi}$ u ⁺) and van der Waals dispersion coefficients for atom-diatom and diatom-diatom alkali dimers. <i>Molecular Physics</i> , 2003, 101, 373-380.	1.7	16
108	Theoretical determination of the ionization cross-section of water. <i>Computational and Theoretical Chemistry</i> , 2002, 577, 17-33.	1.5	4

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109	Ab initio calculation of excited state dipole polarizability - Application to the first $1, 3\hat{1}\Sigma^+g,u$ states of Li. European Physical Journal D, 2001, 17, 329-335.	1.3	17
110	Ab initio calculations of the second dynamic hyperpolarizability of LiH by means of Floquet theory approach. European Physical Journal D, 2001, 15, 199-208.	1.3	11
111	Recovering experimental and theoretical electron densities in corundum using the multipolar model: IUCr Multipole Refinement Project. Acta Crystallographica Section A: Foundations and Advances, 2001, 57, 290-303.	0.3	46
112	Long-range dispersion coefficients for the low-lying electronic states of Mg ₂ from the calculation of the frequency-dependent dipole polarizabilities of Mg in its ground and excited states. Chemical Physics Letters, 2001, 334, 403-410.	2.6	8
113	Excited states dipole polarizabilities of calcium atom and long-range dispersion coefficients for the low-lying electronic states of Ca ₂ and CaMg. Chemical Physics Letters, 2001, 343, 397-403.	2.6	20
114	First-principles calculations of nonlinear optical susceptibility of inorganic materials. Journal of Physics Condensed Matter, 2001, 13, 343-351.	1.8	6
115	Dynamic dipole polarizabilities for the ground $41S$ and the low-lying $41,3P$ and $51,3S$ excited states of Zn. Calculation of long-range coefficients of Zn ₂ . Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 2313-2323.	1.5	16
116	A theoretical study of stability, electronic, and optical properties of GeC and SnC. Journal of Applied Physics, 2000, 88, 6462-6466.	2.5	81
117	Long-range coefficients for the low-lying electronic states of BeLi and Be ₂ . Journal of Chemical Physics, 1999, 110, 2051-2058.	3.0	8
118	Dynamic dipole polarizabilities and C ₆ dispersion coefficients for small clusters of beryllium Be ($n=2,3,4$). Chemical Physics Letters, 1999, 301, 43-52.	2.6	7
119	Compton profiles and polarizability as two similar probes of the electronic structure of 14 electron diatomic molecules: An ab initio study. International Journal of Quantum Chemistry, 1999, 71, 63-74.	2.0	8
120	First-principles study of stability, band structure, and optical properties of the ordered Ge _{0.50} Sn _{0.50} alloy. Applied Physics Letters, 1999, 75, 4127-4129.	3.3	48
121	Ab Initio Self-Consistent Calculations of the Polarizability and Related Functions of Cubic SiC. Journal of Physical Chemistry B, 1999, 103, 5441-5445.	2.6	5
122	Compton profiles and polarizability as two similar probes of the electronic structure of 14 electron diatomic molecules: An ab initio study. International Journal of Quantum Chemistry, 1999, 71, 63-74.	2.0	1
123	Theoretical treatment of the electronic circular dichroism spectrum and the optical rotatory power of H ₂ S ₂ . Chemical Physics, 1998, 226, 297-306.	1.9	29
124	A quantum-mechanical calculation of the dynamic structure factors of magnesium difluoride. International Journal of Quantum Chemistry, 1998, 58, 419-429.	2.0	4
125	Ab Initio Calculation of the Structure Factors and Compton Profiles of Cubic Silicon Carbide. Acta Crystallographica Section A: Foundations and Advances, 1998, 54, 1019-1027.	0.3	8
126	Dynamic dipole polarizabilities for a lithium isoelectronic series in their ground and two first doublet excited states. Journal of Chemical Physics, 1998, 108, 7060-7064.	3.0	11

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127	Ab initio self-consistent calculations of the Compton profiles and polarizabilities of diamond and cubic boron nitride. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 557-575.	1.8	10
128	Dynamic scalar and tensor polarizabilities for the low-lying $2s$ and $2p$ states of Be. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1998, 31, 5077-5084.	1.5	9
129	Ab initio calculations of dipole polarizabilities of Na and K in their $3D$ -state and determination of long-range coefficients for S+D molecular states of Na_2 , K_2 , and NaK. <i>Journal of Chemical Physics</i> , 1998, 109, 7246-7251.	3.0	10
130	Dipole polarizabilities of Na and long-range coefficients for various molecular states of Na_2 . <i>Journal of Chemical Physics</i> , 1997, 106, 3658-3662.	3.0	12
131	Frequency-dependent dipole and quadrupole polarizabilities for the ground state of boron. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1997, 30, 167-176.	1.5	12
132	Topology of potential hypersurfaces of two, three and four dipoles interacting at long distances. <i>Journal of Mathematical Chemistry</i> , 1997, 22, 235-247.	1.5	3
133	Ab initio calculation of dynamic polarizability and dielectric constant of carbon and silicon cubic crystals. <i>Journal of Computational Chemistry</i> , 1997, 18, 1253-1263.	3.3	27
134	Dipole Polarizabilities of Li, C, and O and Long-Range Coefficients for Various Molecular States of Li_2 , CO, and O_2 . <i>Journal of Molecular Spectroscopy</i> , 1997, 182, 260-270.	1.2	28
135	Dynamic polarizability and hyperpolarizability for the 14 electron molecules CO and BF. <i>Chemical Physics Letters</i> , 1997, 280, 203-211.	2.6	18
136	Polarisabilités et hyperpolarisabilités statiques et dynamiques de CO^{2+} dans son état fondamental (X^{2+}) à partir d'un calcul ab-initio IC. <i>Journal De Chimie Physique Et De Physico-Chimie Biologique</i> , 1997, 94, 1553-1567.	0.2	0
137	Long-range coefficients for the low-lying electronic states of LiB. <i>Chemical Physics Letters</i> , 1996, 257, 409-413.	2.6	11
138	Compton profiles of the isoelectronic BeO and BN molecules: an ab initio study. <i>Chemical Physics Letters</i> , 1996, 263, 767-774.	2.6	10
139	LCAO-LDA calculation of Compton profiles in hexagonal BN; comparison with experiments. <i>Journal of Physics Condensed Matter</i> , 1996, 8, 10425-10434.	1.8	2
140	Theoretical ab initio calculations of the structure factors of fluorite (CaF_2). <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1995, 51, 323-328.	0.3	8
141	Dynamic polarizabilities and van der Waals coefficients for the ground $2S$ and excited $2P$ states of Li. <i>Physical Review A</i> , 1994, 49, 2493-2497.	2.5	24
142	Dynamic scalar and tensor polarizabilities of the $21P$ and $23P$ states of He. <i>Physical Review A</i> , 1994, 49, 829-832.	2.5	22
143	A quantum chemical method for the calculation of dynamic structure factors: Applications to silicon, magnesium oxide and beryllium oxide. <i>Theoretica Chimica Acta</i> , 1994, 89, 213-226.	0.8	10
144	Topological complexity of potential surfaces and application to C_2H_2 molecule. <i>Theoretica Chimica Acta</i> , 1994, 88, 285-298.	0.8	5

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145	Ab initio Hartree-Fock study of lithium and sodium sulfides: electronic and scattering properties. <i>Acta Crystallographica Section B: Structural Science</i> , 1994, 50, 279-290.	1.8	19
146	Ab initio CI determination of electric moments and frequency dependent polarizabilities and hyperpolarizabilities for CO. <i>Journal De Chimie Physique Et De Physico-Chimie Biologique</i> , 1994, 91, 1387-1400.	0.2	5
147	Topologie des plus « simples » surfaces de potentiel pour des micro-agrégats. <i>Journal De Chimie Physique Et De Physico-Chimie Biologique</i> , 1994, 91, 1401-1418.	0.2	0
148	Elastic properties in BeO. An ab initio Hartree-Fock calculation. <i>Chemical Physics Letters</i> , 1993, 211, 249-254.	2.6	20
149	Equivariant Morse theory of the N-body problem: Application to potential surfaces in chemistry. <i>Theoretica Chimica Acta</i> , 1993, 86, 297-313.	0.8	4
150	Evaluating dynamic multipole polarizabilities and van der Waals dispersion coefficients of two-electron systems with a quantum Monte Carlo calculation: A comparison with some ab initio calculations. <i>Physical Review A</i> , 1993, 47, 3704-3717.	2.5	37
151	Dynamic polarizabilities and van der Waals coefficients of the 21S and 23S metastable states of helium. <i>Physical Review A</i> , 1993, 48, 161-165.	2.5	23
152	Choix de la jauge dans le calcul quantique de propriétés électromagnétiques des molécules. <i>Journal De Chimie Physique Et De Physico-Chimie Biologique</i> , 1993, 90, 477-489.	0.2	1
153	Performance of a gauge-invariant method on calculated dynamic polarizabilities. <i>Physical Review A</i> , 1992, 45, 6263-6267.	2.5	36
154	Time-dependent gauge-invariant approach to the calculation of dynamic hyperpolarizabilities: Application to FH and LiH. <i>Physical Review A</i> , 1992, 46, 5471-5477.	2.5	20
155	Calculation of dynamic polarizabilities with a multideterminantal ket including a dipole-moment factor: Extrapolation method and application to Li ₂ , LiH, and CO. <i>Physical Review A</i> , 1991, 43, 5832-5846.	2.5	21
156	Nonlinear optical properties of H ₂ and D ₂ . <i>Journal of Chemical Physics</i> , 1990, 92, 1902-1908.	3.0	31
157	Rovibronic corrections, temperature and electric field dependence of polarizabilities in LiH and CO. <i>Journal De Chimie Physique Et De Physico-Chimie Biologique</i> , 1990, 87, 989-1000.	0.2	3
158	Higher-order polarizabilities for the helium isoelectronic series. <i>Journal of Chemical Physics</i> , 1989, 91, 5489-5491.	3.0	21
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#	ARTICLE	IF	CITATIONS
163	Crystal structure and magnetic and EPR properties of the heterobinuclear complex CuNi(fsa)2en(H2O)2.H2O (H4(fsa)2en = N,N'-bis(2-hydroxy-3-carboxybenzylidene)-1,2-diaminoethane). Inorganic Chemistry, 1982, 21, 3050-3059.	4.0	81