

Benoît Champagne

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8942358/benoit-it-champagne-publications-by-year.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

403 papers	12,256 citations	56 h-index	87 g-index
436 ext. papers	13,101 ext. citations	3.9 avg, IF	6.47 L-index

#	Paper	IF	Citations
403	Unraveling the Symmetry Effects on the Second-Order Nonlinear Optical Responses of Molecular Switches: The Case of Ruthenium Complexes.. <i>Inorganic Chemistry</i> , 2022 ,	5.1	1
402	Unveiling the relationship between structural and polarization effects on the first hyperpolarizability of a merocyanine dye.. <i>Journal of Chemical Physics</i> , 2022 , 156, 014305	3.9	2
401	Lewis acid-catalyzed Diels-Alder cycloaddition of 2,5-dimethylfuran and ethylene: a density functional theory investigation. <i>Theoretical Chemistry Accounts</i> , 2022 , 141, 1	1.9	
400	A molecular loaded dice: When the π -conjugation breaks the statistical addressability of an octastate multimodal molecular switch. <i>Dyes and Pigments</i> , 2022 , 110270	4.6	0
399	Taming the Lewis Superacidity of Non-Planar Boranes: C-H Bond Activation and Non-Classical Binding Modes at Boron. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	4
398	Simulation of absorption and scattering spectra of crystalline organic nanoparticles with the discrete dipole approximation: Effects of crystal shape, crystal size, and refractive index of the medium. <i>Journal of Chemical Physics</i> , 2021 , 155, 164703	3.9	
397	Self-aggregation of stilbazolium ion pairs in liquid chloroform. A molecular dynamics study. <i>Journal of Molecular Liquids</i> , 2021 , 344, 117735	6	
396	Second Harmonic Generation Responses of Ion Pairs Forming Dimeric Aggregates. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 3386-3397	3.4	9
395	Combining Benzazolo-Oxazolidine Twins toward Multi-state Nonlinear Optical Switches. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 3918-3931	3.4	4
394	Heavy-Atom-Free Bay-Substituted Perylene Diimide Donor-Acceptor Photosensitizers. <i>ChemPhysChem</i> , 2021 , 22, 1488-1496	3.2	1
393	Difluorodithieno[3,2-a:2',3'-c]phenazine as a strong acceptor for materials displaying thermally activated delayed fluorescence or room temperature phosphorescence. <i>Dyes and Pigments</i> , 2021 , 190, 109301	4.6	2
392	Second-order nonlinear optical properties of B-shaped pyrazine derivatives. <i>Dyes and Pigments</i> , 2021 , 184, 108850	4.6	3
391	Benzo[1,2-b:4,5-b']dithiophene as a weak donor component for push-pull materials displaying thermally activated delayed fluorescence or room temperature phosphorescence. <i>Dyes and Pigments</i> , 2021 , 186, 109022	4.6	7
390	Methylene Bridging Effect on the Structures, Lewis Acidities and Optical Properties of Semi-planar Triarylboranes. <i>Chemistry - A European Journal</i> , 2021 , 27, 1736-1743	4.8	
389	Self-assembling, structure and nonlinear optical properties of fluorescent organic nanoparticles in water. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 23643-23654	3.6	3
388	Polar and Helical Isomorphous Crystals of Proline Derivatives: Influence of a Fluorine Atom on the Electric Susceptibility. <i>Chemistry Africa</i> , 2021 , 4, 553-562	2.2	0
387	Rational Development of a Metal-Free Bifunctional System for the C-H Activation of Methane: A Density Functional Theory Investigation. <i>ChemPhysChem</i> , 2021 , 22, 1958-1966	3.2	2

386	Density Functional Theory Study of Substitution Effects on the Second-Order Nonlinear Optical Properties of Lindquist-Type Organo-Imido Polyoxometalates. <i>Symmetry</i> , 2021 , 13, 1636	2.7	0
385	All-Atom Quantum Mechanical Calculation of the Second-Harmonic Generation of Fluorescent Proteins. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 9684-9690	6.4	2
384	Unravelling the Effects of Cholesterol on the Second-Order Nonlinear Optical Responses of Di-8-ANEPPS Dye Embedded in Phosphatidylcholine Lipid Bilayers. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 10195-10212	3.4	2
383	Density functional theory investigation of the electronic and optical properties of metallo-phthalocyanine derivatives. <i>Optical Materials</i> , 2021 , 120, 111315	3.3	1
382	Concerted versus ionic mechanisms of the π - π extensions in uncatalyzed Mukaiyama reaction between β -unsaturated bis silyl ketene acetal and benzaldehyde: A DFT study. <i>Computational and Theoretical Chemistry</i> , 2021 , 1204, 113395	2	
381	Computational prediction of the supramolecular self-assembling properties of organic molecules: the role of conformational flexibility of amide moieties. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 20453-20465	3.6	0
380	Topological investigation of the reaction mechanism of glycerol carbonate decomposition by bond evolution theory.. <i>RSC Advances</i> , 2021 , 11, 10083-10093	3.7	4
379	Unraveling the Electric Field-Induced Second Harmonic Generation Responses of Stilbazolium Ion Pairs Complexes in Solution Using a Multiscale Simulation Method. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 4817-4826	6.1	6
378	The effect of halogenation on PBDTT-TQxT based non-fullerene polymer solar cells [Chlorination vs fluorination. <i>Dyes and Pigments</i> , 2020 , 181, 108577	4.6	7
377	Dynamic Structural Effects on the Second-Harmonic Generation of Tryptophane-Rich Peptides and Gramicidin A. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 2568-2578	3.4	8
376	Performance of DFT functionals for calculating the second-order nonlinear optical properties of dipolar merocyanines. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 16579-16594	3.6	26
375	Near-Infrared BODIPY-Acridine Dyads Acting as Heavy-Atom-Free Dual-Functioning Photosensitizers. <i>Chemistry - A European Journal</i> , 2020 , 26, 15212-15225	4.8	4
374	Finding the optimal exchange-correlation functional to describe the excited state properties of push-pull organic dyes designed for thermally activated delayed fluorescence. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 16387-16399	3.6	11
373	Second-Order Nonlinear Optical Properties of an Amphiphilic Dye Embedded in a Lipid Bilayer. A Combined Molecular Dynamics-Quantum Chemistry Study. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 2101-2109	3.4	15
372	Controlled Generation of 9-Boratriptycene by Lewis Adduct Dissociation: Accessing a Non-Planar Triarylborane. <i>Angewandte Chemie</i> , 2020 , 132, 12502-12506	3.6	10
371	Controlled Generation of 9-Boratriptycene by Lewis Adduct Dissociation: Accessing a Non-Planar Triarylborane. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12402-12406	16.4	16
370	Merocyanines in a Halogen-Bonded Network Involving Inorganic Building Blocks. <i>Crystal Growth and Design</i> , 2020 , 20, 608-616	3.5	6
369	Salicylideneaniline-Based Covalent Organic Frameworks: A New Family of Multistate Second-Order Nonlinear Optical Switches. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 24451-24459	3.8	6

368	Innentitelbild: Controlled Generation of 9-Boratriptycene by Lewis Adduct Dissociation: Accessing a Non-Planar Triarylborane (Angew. Chem. 30/2020). <i>Angewandte Chemie</i> , 2020 , 132, 12322-12322	3.6	
367	Density Functional Theory Investigation of the Binding of ThioTEPA to Purine Bases: Thermodynamics and Bond Evolution Theory Analysis. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 4068-4080	2.8	6
366	New Insights into Photochromic Properties of N-Salicylideneaniline Derivatives Using a Cocrystal Engineering Approach. <i>Crystal Growth and Design</i> , 2019 , 19, 5544-5556	3.5	4
365	Magnetically-induced current density investigation in carbohelicenes and azahelicenes. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 14678-14691	3.6	6
364	Nonlinear Optical Contrast in Azobenzene-Based Self-Assembled Monolayers. <i>Chemistry of Materials</i> , 2019 , 31, 6759-6769	9.6	17
363	First Principles Investigation of the Polarizability and First Hyperpolarizability of Anhydride Derivatives. <i>Chemistry Africa</i> , 2019 , 2, 443-453	2.2	11
362	All-polymer solar cells based on photostable bis(perylene diimide) acceptor polymers. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 196, 178-184	6.4	7
361	Probing alkylsilane molecular structure on amorphous silica surfaces by sum frequency generation vibrational spectroscopy: First-principles calculations. <i>Journal of Chemical Physics</i> , 2019 , 150, 074703	3.9	2
360	Acido-triggered switching of the second-order nonlinear optical properties of a ferrocenyl-containing indolino-oxazolidine derivative. <i>Dyes and Pigments</i> , 2019 , 160, 641-646	4.6	8
359	Theoretical Assessment of the Second-Order Nonlinear Optical Responses of Lindqvist-Type Organoimido Polyoxometalates. <i>Inorganic Chemistry</i> , 2019 , 58, 11210-11219	5.1	10
358	Coupled cluster investigation of the vibrational and electronic second and third harmonic scattering hyperpolarizabilities of the water molecule. <i>Journal of Chemical Physics</i> , 2019 , 151, 064303	3.9	4
357	Periodic DFT Study of the Effects of Co-Crystallization on a N-Salicylideneaniline Molecular Switch. <i>ChemPhysChem</i> , 2019 , 20, 2434-2442	3.2	1
356	A coloring tool for spiropyran: solid state metal-organic complexation versus salification. <i>CrystEngComm</i> , 2019 , 21, 4925-4933	3.3	3
355	Synthesis and switching properties of new derivatives of azoresveratrol. <i>Dyes and Pigments</i> , 2019 , 171, 107666	4.6	1
354	Are Fully Conjugated Expanded Indenofluorenes Analogues and Diindeno[1,2-b]thiophene Derivatives Diradicals? A Simplified (Spin-Flip) Time-Dependent Density Functional Theory [(SF)-sTD-DFT] Study. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 9828-9839	2.8	5
353	Periodic DFT Study of the Effects of Co-Crystallization on a N-Salicylideneaniline Molecular Switch. <i>ChemPhysChem</i> , 2019 , 20, 2402-2402	3.2	
352	Pushing the Lewis Acidity Boundaries of Boron Compounds With Non-Planar Triarylboranes Derived from Triptycenes. <i>Angewandte Chemie</i> , 2019 , 131, 17045-17049	3.6	15
351	Pushing the Lewis Acidity Boundaries of Boron Compounds With Non-Planar Triarylboranes Derived from Triptycenes. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16889-16893	16.4	33

350	Fingerprint of Aromaticity and Molecular Topology on the Photophysical Properties of Octaphyrins. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 7318-7335	3.8	21
349	ONIOM Investigation of the Second-Order Nonlinear Optical Responses of Fluorescent Proteins. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 4993-5005	3.4	12
348	The Impact of Acceptor-Acceptor Homocoupling on the Optoelectronic Properties and Photovoltaic Performance of PDTSQx Low Bandgap Polymers. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800086	4.8	6
347	Acidochromic spiropyran/merocyanine stabilisation in the solid state. <i>CrystEngComm</i> , 2018 , 20, 3318-3327	3.3	11
346	DFT Investigation of the Diastereoselectivity of the MX and MX Lewis-Acid-Catalyzed Mukaiyama Aldol Reaction between C,O,O-Tris(trimethylsilyl)ketene Acetal and Aldehydes. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 1938-1947	2.8	3
345	Assessing the Structure of Octastate Molecular Switches Using 1H NMR Density Functional Theory Calculations. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 1800-1808	3.8	2
344	Theoretical Study on Third-Order Nonlinear Optical Property of One-Dimensional Cyclic Thiazyl Radical Aggregates: Intermolecular Distance, Open-Shell Nature, and Spin State Dependences. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 6779-6785	3.8	10
343	Tetraphenylborate Anion Induces Photochromism in N-Salicylideneamino-1-alkylpyridinium Derivatives Through Formation of Tetra-Aryl Boxes. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 10999-11007	3.8	11
342	Coupled cluster evaluation of the second and third harmonic scattering responses of small molecules. <i>Theoretical Chemistry Accounts</i> , 2018 , 137, 1	1.9	6
341	Nonlinear optical responses of self-assembled monolayers functionalized with indolino-oxazolidine photoswitches. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 21590-21597	3.6	10
340	Effects of Empirical Dispersion Energy on the Geometrical Parameters and Relative Energy of a Salicylideneaniline Molecular Switch in the Solid State. <i>Crystals</i> , 2018 , 8, 125	2.3	4
339	Intramolecular [3 + 2] Cycloaddition Reactions of Unsaturated Nitrile Oxides. A Study from the Perspective of Bond Evolution Theory (BET). <i>Journal of Physical Chemistry A</i> , 2018 , 122, 7472-7481	2.8	12
338	Evaluation of Aromaticity for Open-Shell Singlet Dicyclopenta-Fused Acenes and Polyacenes Based on a Magnetically Induced Current. <i>Chemistry - A European Journal</i> , 2018 , 24, 13457-13466	4.8	10
337	Investigation of the Electronic Excited-State Equilibrium Geometries of Three Molecules Undergoing ESIPT: A RI-CC2 and TDDFT Study. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 972-984	2.8	12
336	Quantum Chemical Methods for Predicting and Interpreting Second-Order Nonlinear Optical Properties: From Small to Extended π -Conjugated Molecules 2018 , 117-138		13
335	Second-order nonlinear optical properties of Stenhouse photoswitches: insights from density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 27658-27667	3.6	24
334	Dynamical Behavior and Second Harmonic Generation Responses in Acido-Triggered Molecular Switches. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 26160-26168	3.8	15
333	Aromaticity as a Guiding Concept for Spectroscopic Features and Nonlinear Optical Properties of Porphyrinoids. <i>Molecules</i> , 2018 , 23,	4.8	24

332	Predicting Keto-Enol Equilibrium from Combining UV/Visible Absorption Spectroscopy with Quantum Chemical Calculations of Vibronic Structures for Many Excited States. A Case Study on Salicylideneanilines. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 5370-5374	2.8	15
331	Theoretical investigation of curved π -conjugated fullerene flakes: open-shell character, aromaticity, and third-order nonlinear optical property. <i>Journal of Physical Organic Chemistry</i> , 2017 , 30, e3581	2.1	4
330	Assessing Density Functional Theory Approaches for Predicting the Structure and Relative Energy of Salicylideneaniline Molecular Switches in the Solid State. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 6898-6908	3.8	15
329	Simulation of the UV/Visible Absorption Spectra of Fluorescent Protein Chromophore Models. <i>ChemPhotoChem</i> , 2017 , 1, 281-296	3.3	13
328	A theoretical study on quasi-one-dimensional open-shell singlet ladder oligomers: multi-radical nature, aromaticity and second hyperpolarizability. <i>Organic Chemistry Frontiers</i> , 2017 , 4, 779-789	5.2	16
327	Assigning the stereochemistry of syn and anti β -trimethylsiloxy- β -trimethylsilyl alkanolic acid silyl esters using GIAO ^1H NMR chemical shift calculations. <i>Journal of Molecular Structure</i> , 2017 , 1141, 436-440	2.4	2
326	Faraday Effect in Stacks of Aromatic Molecules. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 15348-15352	3.8	13
325	Diradical and Ionic Characters of Open-Shell Singlet Molecular Systems. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 861-873	2.8	14
324	Second-Order Nonlinear Optical Properties of Multiaddressable Indolinooxazolidine Derivatives: Joint Computational and Hyper-Rayleigh Scattering Investigations. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 1851-1860	3.8	39
323	How Dimerization Through a Spiro Junction Modifies the Nonlinear Optical Properties of a PushPull Organic Dye: Insights from Theory and Hyper-Rayleigh Scattering. <i>ChemPhotoChem</i> , 2017 , 1, 93-101	3.3	2
322	Electronic Band Structure of Helical Polyisocyanides. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 7993-8002	2.8	1
321	Emergence of Nonlinear Optical Activity by Incorporation of a Linker Carrying the -Nitroaniline Motif in MIL-53 Frameworks. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 25509-25519	3.8	12
320	Coupled-cluster sum-frequency generation nonlinear susceptibilities of methyl (CH) and methylene (CH) groups. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 29822-29832	3.6	3
319	Tuning Nonlinear Optical Properties by Altering the Diradical and Charge-Transfer Characteristics of Chichibabin's Hydrocarbon Derivatives. <i>ChemPhysChem</i> , 2017 , 18, 142-148	3.2	10
318	A Structural Analysis of Spiropyran and Spirooxazine Compounds and Their Polymorphs. <i>Crystals</i> , 2017 , 7, 84	2.3	11
317	Nonlinear optical properties in open-shell molecular systems. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2016 , 6, 198-210	7.9	47
316	Theoretical study on the spin state and open-shell character dependences of the second hyperpolarizability in hydrogen chain models. <i>Physical Review A</i> , 2016 , 94,	2.6	5
315	Unraveling the Concerted Reaction Mechanism of the Nuncatalyzed Mukaiyama Reaction between C,O,O-Tris(trimethylsilyl)ketene Acetal and Aldehydes Using Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 5649-57	2.8	3

314	Polymorphic and Isomorphic Cocrystals of a N-Salicylidene-3-aminopyridine with Dicarboxylic Acids: Tuning of Solid-State Photo- and Thermochromism. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 10001-10008	3.8	42
313	Second-order nonlinear optical responses of heptahelicene and heptathiahelicene derivatives. <i>Chemical Physics Letters</i> , 2016 , 644, 195-200	2.5	9
312	Oxazines: A New Class of Second-Order Nonlinear Optical Switches. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5052-62	16.4	76
311	Second-Order Nonlinear Optical Susceptibilities of Metal-Organic Frameworks Using a Combined Local Field Theory/Charge Embedding Electrostatic Scheme. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 6741-6749	3.8	15
310	QTAIM-Based Scheme for Describing the Linear and Nonlinear Optical Susceptibilities of Molecular Crystals Composed of Molecules with Complex Shapes. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 4481-4494	3.8	25
309	Fourier Space Uncoupled Hartree-Fock Polarizabilities of One-Dimensionally Periodic Systems. Polyethylene and Polysilane Revisited. <i>Zeitschrift Fur Physikalische Chemie</i> , 2016 , 230, 589-632	3.1	1
308	Challenging compounds for calculating molecular second hyperpolarizabilities: the triplet state of the trimethylenemethane diradical and two derivatives. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 6420-9	3.6	5
307	Coupled cluster evaluation of the frequency dispersion of the first and second hyperpolarizabilities of water, methanol, and dimethyl ether. <i>Journal of Chemical Physics</i> , 2016 , 145, 044311	3.9	7
306	Elucidating Batch-to-Batch Variation Caused by Homocoupled Side Products in Solution-Processable Organic Solar Cells. <i>Chemistry of Materials</i> , 2016 , 28, 9088-9098	9.6	17
305	Third-Order Nonlinear Optical Properties of Asymmetric Non-Alternant Open-Shell Condensed-Ring Hydrocarbons: Effects of Diradical Character, Asymmetry, and Exchange Interaction. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 1193-1207	3.8	31
304	ZIF-8 as Nonlinear Optical Material: Influence of Structure and Synthesis. <i>Chemistry of Materials</i> , 2016 , 28, 3203-3209	9.6	46
303	Synthetic, Optical and Theoretical Study of Alternating Ethylenedioxythiophene-Pyridine Oligomers: Evolution from Planar Conjugated to Helicoidal Structure towards a Chiral Configuration. <i>ChemPhysChem</i> , 2016 , 17, 4090-4101	3.2	5
302	Investigating the first hyperpolarizability of liquid carbon tetrachloride. <i>RSC Advances</i> , 2016 , 6, 99558-99563	3.7	3
301	Origin of the Enhancement of the Second Hyperpolarizabilities of Metal-Carbon Bonds. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 6838-45	2.8	
300	Switching of the Nonlinear Optical Responses of Anil Derivatives: From Dilute Solutions to the Solid State 2016 , 175-202		7
299	Theoretical Design of Open-Shell Singlet Molecular Systems for Nonlinear Optics. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 3236-3256	6.4	116
298	Spectroscopic and second-order nonlinear optical properties of Ruthenium(ii) complexes: a DFT/MRCI and ADC(2) study. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 18908-12	3.6	11
297	Which charge definition for describing the crystal polarizing field and the $\chi(1)$ and $\chi(2)$ of organic crystals?. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 19546-56	3.6	19

296	The first hyperpolarizability of nitrobenzene in benzene solutions: investigation of the effects of electron correlation within the sequential QM/MM approach. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 23634-42	3.6	28
295	Fluorination as an effective tool to increase the open-circuit voltage and charge carrier mobility of organic solar cells based on poly(cyclopenta[2,1-b:3,4-b']dithiophene-alt-quinoxaline) copolymers. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2960-2970	13	30
294	Inelastic Electron Tunneling of C60 on Gold Surfaces from First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 803-818	3.8	3
293	Pigment violet 19 - a test case to define a simple method to simulate the vibronic structure of absorption spectra of organic pigments and dyes in solution. <i>Photochemical and Photobiological Sciences</i> , 2015 , 14, 444-56	4.2	10
292	Modeling of structural, energetic, and dynamic properties of few-atom silver clusters embedded in polynucleotide strands by using molecular dynamics. <i>ChemPhysChem</i> , 2015 , 16, 360-9	3.2	2
291	Second-Order Nonlinear Optical Properties of a Dithienylethene-Indolinoxazolidine Hybrid: A Joint Experimental and Theoretical Investigation. <i>Chemistry - A European Journal</i> , 2015 , 21, 18749-57	4.8	25
290	PPV Polymerization through the Gilch Route: Diradical Character of Monomers. <i>Chemistry - A European Journal</i> , 2015 , 21, 19176-85	4.8	8
289	The Fourier Space Restricted Hartree-Fock Method for the Electronic Structure Calculation of One-Dimensionally Periodic Systems. <i>Advances in Quantum Chemistry</i> , 2015 , 71, 153-194	1.4	
288	Explicit versus implicit solvation effects on the first hyperpolarizability of an organic biphotochrome. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 5496-503	2.8	25
287	Frequency dispersion of the first hyperpolarizabilities of reference molecules for nonlinear optics. <i>Journal of Chemical Physics</i> , 2015 , 142, 194102	3.9	19
286	Numerical differentiation method to calculate molecular properties at ground and excited states II Application to Julolidinemalononitrile. <i>Chemical Physics Letters</i> , 2015 , 634, 249-254	2.5	2
285	Diradical character dependence of third-harmonic generation spectra in open-shell singlet systems. <i>Theoretical Chemistry Accounts</i> , 2015 , 134, 1	1.9	9
284	Theoretical Investigation of Vibrational Sum-Frequency Generation Signatures of Functionalized HBi(111). <i>Journal of Physical Chemistry C</i> , 2015 , 119, 3180-3191	3.8	9
283	N-acyl-dithieno[3,2-b:2',3'-d]pyrrole-based low bandgap copolymers affording improved open-circuit voltages and efficiencies in polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 136, 70-77	6.4	12
282	Assessing long-range corrected functionals with physically-adjusted range-separated parameters for calculating the polarizability and the second hyperpolarizability of polydiacetylene and polybutatriene chains. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 7083-8	3.6	57
281	Enhanced open-circuit voltage in polymer solar cells by dithieno[3,2-b:2',3'-d]pyrrole N-acylation. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7535-7545	13	30
280	Evaluation of the molecular static and dynamic first hyperpolarizabilities. <i>International Journal of Quantum Chemistry</i> , 2014 , 114, 900-910	2.1	42
279	Natural orbital functional calculations of molecular polarizabilities and second hyperpolarizabilities. The hydrogen molecule as a test case. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014 , 47, 015101	1.3	8

278	Linear and second-order nonlinear optical properties of ionic organic crystals. <i>Journal of Chemical Physics</i> , 2014 , 141, 104109	3.9	31
277	Resonant Raman spectra of molecules with diradical character: multiconfigurational wavefunction investigation of neutral viologens. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 21721-31	3.6	15
276	Analysis of the Resonant Raman Spectra of Viologens and of Their Radical Cations Using Range-Separated Hybrid Density Functionals. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 12469-12484	3.8	11
275	Second-order Nonlinear Optical Susceptibilities and Refractive Indices of Organic Crystals from a Multiscale Numerical Simulation Approach. <i>Advanced Optical Materials</i> , 2014 , 2, 1000-1006	8.1	31
274	All-Conjugated ABC-block-copolymer Formation with a Varying Sequence via an Unassociated Catalyst. <i>Macromolecules</i> , 2014 , 47, 4668-4675	5.5	33
273	Third-order nonlinear optical properties of one-dimensional open-shell molecular aggregates composed of phenalenyl radicals. <i>Chemistry - A European Journal</i> , 2014 , 20, 11129-36	4.8	42
272	Open-shell character and second hyperpolarizabilities of one-dimensional chromium(II) chains: size dependence and bond-length alternation effect. <i>Inorganic Chemistry</i> , 2014 , 53, 8700-7	5.1	9
271	Origin of the Surface-Induced First Hyperpolarizability in the C60/SiO2 System: SCC-DFTB Insight. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 149-53	6.4	9
270	How the Second-Order Nonlinear Optical Response of the Collagen Triple Helix Appears: A Theoretical Investigation. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 8595-8602	3.8	25
269	Evaluation of the Linear and Second-Order NLO Properties of Molecular Crystals within the Local Field Theory: Electron Correlation Effects, Choice of XC Functional, ZPVA Contributions, and Impact of the Geometry in the Case of 2-Methyl-4-nitroaniline. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 2114-24	6.4	46
268	A multistate pH-triggered nonlinear optical switch. <i>ChemPhysChem</i> , 2014 , 15, 2221-4	3.2	19
267	Effects of the basis set and of the exchange-correlation functional on the Inelastic Electron Tunneling signatures of 1,4-benzenedithiol. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 119, 34-41	4.4	3
266	Axial ligand effects on the diradical characters and second hyperpolarizabilities of open-shell singlet transition-metal dinuclear complexes. <i>Chemical Physics Letters</i> , 2014 , 608, 68-73	2.5	7
265	Nonlinear optical molecular switches for alkali ion identification. <i>Molecules</i> , 2014 , 19, 10574-86	4.8	12
264	Ab initio simulation of the sum-frequency generation response of optically active liquids in the presence of a dc electric field: Determination of the absolute molecular configuration. <i>Science China Chemistry</i> , 2014 , 57, 1405-1408	7.9	
263	Feature issue introduction: chirality in optics. <i>Optical Materials Express</i> , 2014 , 4, 2663	2.6	6
262	QM/MM investigation of the concentration effects on the second-order nonlinear optical responses of solutions. <i>Journal of Chemical Physics</i> , 2014 , 141, 234104	3.9	18
261	Linear and nonlinear optical properties of arylvinylidiazine dyes: A theoretical investigation. <i>Dyes and Pigments</i> , 2014 , 110, 256-260	4.6	34

260	Implementation in the Pyvib2 program of the localized mode method and application to a helicene. <i>Highlights in Theoretical Chemistry</i> , 2014 , 225-239		
259	Diradicalology in third-order nonlinear optical systems: Second hyperpolarizabilities of acetylene-linked phenalenyl-based superpolyenes. <i>International Journal of Quantum Chemistry</i> , 2013 , 113, 585-591	2.1	3
258	SCC-DFTB calculation of the static first hyperpolarizability: from gas phase molecules to functionalized surfaces. <i>Journal of Chemical Physics</i> , 2013 , 138, 204107	3.9	13
257	In situ nitroxide-mediated polymerization of styrene promoted by the N-tert-butyl- β -isopropyl nitron/bpo pair: ESR investigations. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 1786-1795	2.5	2
256	Design and characterization of molecular nonlinear optical switches. <i>Accounts of Chemical Research</i> , 2013 , 46, 2656-65	24.3	253
255	Diradical character dependences of the first and second hyperpolarizabilities of asymmetric open-shell singlet systems. <i>Journal of Chemical Physics</i> , 2013 , 138, 244306	3.9	43
254	Theoretical study on the diradical characters and third-order nonlinear optical properties of transition-metal heterodinuclear systems. <i>Chemical Physics Letters</i> , 2013 , 579, 73-77	2.5	6
253	Vibrational sum-frequency generation activity of a 2,4-dinitrophenyl phospholipid hybrid bilayer: retrieving orientational parameters from a DFT analysis of experimental data. <i>ChemPhysChem</i> , 2013 , 14, 1227-36	3.2	6
252	Trivalent organophosphorus reagent induced pinacol rearrangement of 4H-cyclopenta[2,1-b:3,4-b']dithiophen-4-one. <i>Tetrahedron Letters</i> , 2013 , 54, 526-529	2	5
251	Theoretical study on the diradical characters and third-order nonlinear optical properties of cyclic thiazyl diradical compounds. <i>Chemical Physics Letters</i> , 2013 , 585, 112-116	2.5	14
250	Equatorial ligand effects on the diradical character dependence of the second hyperpolarizabilities of open-shell singlet transition-metal dinuclear complexes. <i>Chemical Physics Letters</i> , 2013 , 570, 75-79	2.5	10
249	Improving the second-order nonlinear optical response of fluorescent proteins: the symmetry argument. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4061-9	16.4	44
248	Understanding the Second-Order Nonlinear Optical Properties of One-Dimensional Ruthenium(II) Ammine Complexes. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 1833-1848	3.8	25
247	Finding optimal finite field strengths allowing for a maximum of precision in the calculation of polarizabilities and hyperpolarizabilities. <i>Journal of Computational Chemistry</i> , 2013 , 34, 1497-507	3.5	35
246	Theoretical investigation of the first hyperpolarizability redox-switching in a ruthenium complex. <i>Chemical Physics Letters</i> , 2013 , 574, 42-46	2.5	14
245	Challenging compounds for calculating hyperpolarizabilities: p-quinodimethane derivatives. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 4709-15	2.8	28
244	Reaction of 4H-cyclopenta[2,1-b:3,4-b']dithiophenes with NBS route toward 2H-cyclopenta[2,1-b:3,4-b']dithiophene-2,6(4H)-diones. <i>Tetrahedron</i> , 2013 , 69, 2260-2267	2.4	5
243	Theoretical insight into the inelastic electron tunneling spectra of an anil derivative. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 12783-95	2.8	3

242	Investigation of the linear and second-order nonlinear optical properties of molecular crystals within the local field theory. <i>Journal of Chemical Physics</i> , 2013 , 139, 114105	3.9	36
241	Beta sheets with a twist: the conformation of helical polyisocyanopeptides determined by using vibrational circular dichroism. <i>Chemistry - A European Journal</i> , 2013 , 19, 13168-74	4.8	15
240	Tuned long-range corrected density functional theory method for evaluating the second hyperpolarizabilities of open-shell singlet metal-metal bonded systems. <i>Chemical Physics Letters</i> , 2012 , 523, 60-64	2.5	10
239	Enhancement of the second hyperpolarizability by d ⁸ electrons in one-dimensional tetrametallic transition-metal systems. <i>Chemical Physics Letters</i> , 2012 , 527, 11-15	2.5	8
238	Nanostructured Cocrystals of a Borazine with [60]Fullerene. <i>Chemistry Letters</i> , 2012 , 41, 1210-1212	1.7	7
237	The Odd Electron Density Is the Guide toward Achieving Organic Molecules with Gigantic Third-Order Nonlinear Optical Responses. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3338-3342	6.4	19
236	Theoretical Insight into the Second-Order NLO Response of the Bis{4-[2-(4-pyridyl)ethenyl]benzoato}-zinc(II) Metal-Organic Framework. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 21973-21981	3.8	21
235	Enhancement of the third-order nonlinear optical properties in open-shell singlet transition-metal dinuclear systems: effects of the group, of the period, and of the charge of the metal atom. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 5501-9	2.8	24
234	Theoretical Design of the Molecular Structure of Bent-Core Mesogens with Large Second-Order Nonlinear Optical Properties.. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 7552-7560	3.8	16
233	Impact of Antidot Structure on the Multiradical Characters, Aromaticities, and Third-Order Nonlinear Optical Properties of Hexagonal Graphene Nanoflakes. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 17787-17795	3.8	58
232	Towards modelling the vibrational signatures of functionalized surfaces: carboxylic acids on H-Si(111) surfaces. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 124111	1.8	5
231	Reference molecules for nonlinear optics: a joint experimental and theoretical investigation. <i>Journal of Chemical Physics</i> , 2012 , 136, 024506	3.9	120
230	Enhanced Intramolecular Charge Transfer in New Type Donor-Acceptor Substituted Perylenes. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 22711-22719	3.8	18
229	Nonlinear optical molecular switches as selective cation sensors. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8101-3	16.4	213
228	Implementation in the Pyvib2 program of the localized mode method and application to a helicene. <i>Theoretical Chemistry Accounts</i> , 2012 , 131, 1	1.9	19
227	Assessment of DFT Exchange-Correlation Functionals for Evaluating the Multipolar Contributions to the Quadratic Nonlinear Optical Responses of Small Reference Molecules. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 2044-52	6.4	42
226	Full configuration interaction calculations of the second hyperpolarizabilities of the H4 model compound: summation-over-states analysis and interplay with diradical characters. <i>Journal of Chemical Physics</i> , 2012 , 136, 024315	3.9	17
225	Functionalized Dithienylthiazolo[5,4-d]thiazoles For Solution-Processable Organic Field-Effect Transistors. <i>ChemPlusChem</i> , 2012 , 77, 923-930	2.8	10

224	Amylose-Vanillin Complexation Assessed by a Joint Experimental and Theoretical Analysis. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 23315-23322	3.8	19
223	Size dependences of the diradical character and the second hyperpolarizabilities in dicyclopenta-fused acenes: relationships with their aromaticity/antiaromaticity. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 20575-83	3.6	64
222	Origin of the Enhancement of the Second Hyperpolarizabilities in Open-Shell Singlet Transition-Metal Systems with Metal-Metal Multiple Bonds. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 2063-2066	6.4	36
221	Third-order nonlinear optical properties of open-shell supermolecular systems composed of acetylene linked phenalenyl radicals. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 8767-77	2.8	30
220	(Hyper)polarizability density analysis for open-shell molecular systems based on natural orbitals and occupation numbers. <i>Theoretical Chemistry Accounts</i> , 2011 , 130, 711-724	1.9	114
219	Theoretical assessment of new molecules for second-order nonlinear optics. <i>International Journal of Quantum Chemistry</i> , 2011 , 111, 1583-1595	2.1	11
218	Calculating the second-order nonlinear optical susceptibilities of 3-methyl-4-nitropyridine N-oxide, 2-carboxylic acid-4-nitropyridine-1-oxide, 2-methyl-4-nitroaniline, and m-nitroaniline crystals. <i>International Journal of Quantum Chemistry</i> , 2011 , 111, 880-890	2.1	13
217	Open-shell characters and second hyperpolarizabilities of one-dimensional graphene nanoflakes composed of trigonal graphene units. <i>ChemPhysChem</i> , 2011 , 12, 1697-707	3.2	45
216	Effects of the nature and length of the π -conjugated bridge on the second-order nonlinear optical responses of push-pull molecules including 4,5-dicyanoimidazole and their protonated forms. <i>ChemPhysChem</i> , 2011 , 12, 3245-52	3.2	43
215	From molecular to macroscopic engineering: shaping hydrogen-bonded organic nanomaterials. <i>Chemistry - A European Journal</i> , 2011 , 17, 3262-73	4.8	28
214	Giant Enhancement of the Second Hyperpolarizabilities of Open-Shell Singlet Polyaromatic Diphenalenyl Diradicaloids by an External Electric Field and Donor-Acceptor Substitution. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 1094-1098	6.4	104
213	Electron correlation effects on the first hyperpolarizability of push-pull π -conjugated systems. <i>Journal of Chemical Physics</i> , 2011 , 134, 074113	3.9	152
212	Enhancement of second hyperpolarizabilities in open-shell singlet slipped-stack dimers composed of square planar nickel complexes involving o-semiquinonato type ligands. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 1117-24	2.8	19
211	Theoretical investigation of Raman optical activity signatures of Tröger's base. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 13706-13	2.8	5
210	NONLINEAR OPTICAL PROPERTIES OF mSTRAWBERRY AND mCHERRY FOR SECOND HARMONIC IMAGING. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2010 , 19, 1-13	0.8	6
209	Raman Optical Activity Study of the Signatures Associated to (TG)N and (GG)N Conformations of Isotactic Polypropylene Chains using Mode Localization Method 2010 ,		1
208	Long-range corrected density functional theory study on static second hyperpolarizabilities of singlet diradical systems. <i>Journal of Chemical Physics</i> , 2010 , 132, 094107	3.9	74
207	A three-step synthetic approach to asymmetrically functionalized 4H-cyclopenta[2,1-b:3,4-b']dithiophenes. <i>Journal of Organic Chemistry</i> , 2010 , 75, 7202-9	4.2	23

206	Singlet Diradical Character from Experiment. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 937-940	6.4	154
205	Theoretical Calculations and Experimental Measurements of the Vibrational Response of p-NTP SAMs: An Orientational Analysis. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 4106-4113	3.8	24
204	Investigation of the resonance Raman spectra and excitation profiles of a monometallic ruthenium(II) [Ru(bpy) ₂ (HAT)] ²⁺ complex by time-dependent density functional theory. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 511-20	3.4	28
203	Analysis of vibrational Raman optical activity signatures of the (TG)(N) and (GG)(N) conformations of isotactic polypropylene chains in terms of localized modes. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 7198-212	2.8	20
202	Combined experimental and theoretical study on the Raman and Raman optical activity signatures of pentamethylundecane diastereoisomers. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 11753-60	3.4	11
201	Ring Current Model and Anisotropic Magnetic Response of Cyclopropane. <i>Journal of Chemical Theory and Computation</i> , 2010 , 6, 2002-18	6.4	58
200	On the Aromatic Character of 1,2-Dihydro-1,2-azaborine According to Magnetic Criteria. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1563-1568	6.4	49
199	Nonlinear optical properties of flavylum salts: a quantum chemical study. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 8474-9	2.8	19
198	Giant electric field effect on the second hyperpolarizability of symmetric singlet diradical molecules. <i>Journal of Chemical Physics</i> , 2010 , 133, 154302	3.9	35
197	Theoretical and experimental investigation of the structural and spectroscopic properties of coumarin 343 fluoroionophores. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 14172-87	3.6	23
196	Extended Systems in Electrostatic Fields. <i>Zeitschrift Fur Physikalische Chemie</i> , 2010 , 224, 617-630	3.1	2
195	Synthesis and characterization of teranthene: a singlet biradical polycyclic aromatic hydrocarbon having Kekulé structures. <i>Journal of the American Chemical Society</i> , 2010 , 132, 11021-3	16.4	249
194	Solvent Effects on the Second-Order Nonlinear Optical Responses in the Keto-Enol Equilibrium of a 2-Hydroxy-1-naphthaldehyde Derivative. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 12760-12768	3.8	57
193	A joint theoretical and experimental investigation on the ¹³ C and ¹ H NMR chemical shifts of coumarin derivatives. <i>Theoretical Chemistry Accounts</i> , 2010 , 125, 461-470	1.9	6
192	Electrostatic modeling of the linear optical susceptibilities of 2-methyl-4-nitroaniline, m-nitroaniline, 3-methyl-4-nitropyridine N-oxide and 2-carboxylic acid-4-nitropyridine-1-oxide crystals. <i>Chemical Physics Letters</i> , 2010 , 487, 256-262	2.5	23
191	Signature of multiradical character in second hyperpolarizabilities of rectangular graphene nanoflakes. <i>Chemical Physics Letters</i> , 2010 , 489, 212-218	2.5	88
190	Approximate spin-projected spin-unrestricted density functional theory method: Application to the diradical character dependences of the (hyper)polarizabilities in p-quinodimethane models. <i>Chemical Physics Letters</i> , 2010 , 501, 140-145	2.5	30
189	Orientational analysis of dodecanethiol and p-nitrothiophenol SAMs on metals with polarisation-dependent SFG spectroscopy. <i>ChemPhysChem</i> , 2010 , 11, 607-15	3.2	34

188	Symmetrical and nonsymmetrical chromophores with Tröger's base skeleton: chiroptical, linear, and quadratic nonlinear optical properties—a joint theoretical and experimental study. <i>Chemistry - A European Journal</i> , 2010 , 16, 8181-90	4.8	51
187	ELECTRONIC AND VIBRATIONAL POLARIZABILITIES OF BUCKMINSTERFULLERENE. <i>Bulletin Des Sociétés Chimiques Belges</i> , 2010 , 103, 135-141		1
186	Selective detection of the antigenic polar heads of model lipid membranes supported on metals from their vibrational nonlinear optical response. <i>Chemical Physics Letters</i> , 2010 , 489, 12-15	2.5	8
185	Theoretical investigation on the second hyperpolarizabilities of open-shell singlet systems by spin-unrestricted density functional theory with long-range correction: Range separating parameter dependence. <i>Chemical Physics Letters</i> , 2010 , 493, 195-199	2.5	56
184	Multimode simulation of dimer absorption spectra from first principles calculations: application to the 3,4,9,10-perylenetetracarboxylic diimide dimer. <i>Journal of Chemical Physics</i> , 2009 , 131, 154302	3.9	46
183	Electrostatic interaction schemes for evaluating the polarizability of silicon clusters. <i>Journal of Chemical Physics</i> , 2009 , 130, 134715	3.9	30
182	Two-way molecular switches with large nonlinear optical contrast. <i>Chemistry - A European Journal</i> , 2009 , 15, 2560-71	4.8	121
181	Theoretical simulation of vibrational sum-frequency generation spectra from density functional theory: application to p-nitrothiophenol and 2,4-dinitroaniline. <i>ChemPhysChem</i> , 2009 , 10, 2132-42	3.2	32
180	Vibrational Raman optical activity of pi-conjugated helical systems: hexahelicene and heterohelices. <i>Journal of Computational Chemistry</i> , 2009 , 30, 1261-78	3.5	30
179	Third-order nonlinear optical properties of trigonal, rhombic and bow-tie graphene nanoflakes with strong structural dependence of diradical character. <i>Chemical Physics Letters</i> , 2009 , 480, 278-283	2.5	47
178	Polarizabilities and second hyperpolarizabilities of hydrogen chains using the spin-component-scaled Møller-Plesset second-order method. <i>International Journal of Quantum Chemistry</i> , 2009 , 109, 3103-3111	2.1	21
177	Theoretical investigation on the polarizability and second hyperpolarizability of polysilole. <i>Chemical Physics Letters</i> , 2009 , 471, 111-115	2.5	32
176	Electron donor solvent effects on the (hyper)polarizabilities of a singlet diradical molecule involving a boron atom. <i>Chemical Physics Letters</i> , 2009 , 477, 309-314	2.5	9
175	Theoretical study on third-order nonlinear optical properties in hexagonal graphene nanoflakes: Edge shape effect. <i>Chemical Physics Letters</i> , 2009 , 477, 355-359	2.5	68
174	Effect of the dynamical disorder on the second-order nonlinear optical responses of helicity-encoded polymer strands. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 6552-4	2.8	25
173	Self-Assembled Film Organization in Fast Microcontact Printing Investigated by Sum Frequency Generation Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 9857-9864	3.8	13
172	Conformation-controlled networking of H-bonded assemblies on surfaces. <i>Chemical Communications</i> , 2009 , 3525-7	5.8	17
171	Theoretical investigation of the dynamic first hyperpolarizability of DHAMHF molecular switches. <i>New Journal of Chemistry</i> , 2009 , 33, 1349	3.6	54

170	Second-order nonlinear optical properties of fluorescent proteins for second-harmonic imaging. <i>Journal of Materials Chemistry</i> , 2009 , 19, 7514		35
169	Remarkable two-photon absorption in open-shell singlet systems. <i>Journal of Chemical Physics</i> , 2009 , 131, 114316	3.9	49
168	Nonlinear optical properties of photoswitchable fluorescent proteins 2009 ,		1
167	A joined theoretical-experimental investigation on the ¹ H and ¹³ C NMR signatures of defects in poly(vinyl chloride). <i>Journal of Physical Chemistry B</i> , 2008 , 112, 14804-18	3.4	32
166	Calculation of electric dipole (hyper)polarizabilities by long-range-correction scheme in density functional theory: a systematic assessment for polydiacetylene and polybutatriene oligomers. <i>Journal of Chemical Physics</i> , 2008 , 128, 114108	3.9	107
165	In silico optimization of merocyanine-spiropyran compounds as second-order nonlinear optical molecular switches. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 6223-32	3.6	113
164	Theoretical and Experimental Investigation of Electric Field Induced Second Harmonic Generation in Tetrathia[7]helicenes. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 7900-7907	3.8	96
163	Joint theoretical experimental investigation of the electron spin resonance spectra of nitroxyl radicals: application to intermediates in in situ nitroxide mediated polymerization (in situ NMP) of vinyl monomers. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 10432-42	3.4	9
162	Strong Two-Photon Circular Dichroism in Helicenes: A Theoretical Investigation. <i>Journal of Chemical Theory and Computation</i> , 2008 , 4, 457-67	6.4	38
161	Theoretical investigation on the linear and nonlinear susceptibilities of urea crystal. <i>Journal of Chemical Physics</i> , 2008 , 128, 244713	3.9	21
160	Prediction of Vibronic Coupling and Absorption Spectra of Dimers from Time-Dependent Density Functional Theory: The Case of a Stacked Streptocyanine. <i>Journal of Chemical Theory and Computation</i> , 2008 , 4, 2094-100	6.4	34
159	Theoretical study on second hyperpolarizabilities of singlet diradical square planar nickel complexes involving o-semiquinonato type ligands. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 8423-9	2.8	47
158	Second-harmonic generation in GFP-like proteins. <i>Journal of the American Chemical Society</i> , 2008 , 130, 15713-9	16.4	58
157	Resonance Raman scattering of rhodamine 6G as calculated by time-dependent density functional theory: vibronic and solvent effects. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 3215-23	2.8	74
156	Rototranslational sum rules for electromagnetic hypershielding at the nuclei and related atomic Cartesian derivatives of the optical rotatory power. <i>Journal of Chemical Physics</i> , 2008 , 128, 244107	3.9	2
155	Ab initio investigation on the nonlinear optical properties of silicon clusters Sin (n=38). <i>Journal of Computational Methods in Sciences and Engineering</i> , 2008 , 7, 297-304	0.3	2
154	Resonance Raman spectra and Raman excitation profiles of rhodamine 6G from time-dependent density functional theory. <i>ChemPhysChem</i> , 2008 , 9, 1667-9	3.2	30
153	Theoretical study on the second hyperpolarizability of open-shell singlet one-dimensional systems with a charged defect. <i>Chemical Physics Letters</i> , 2008 , 451, 111-115	2.5	12

152	Intermolecular interaction effects on the second hyperpolarizability of open-shell singlet diphenalenyl radical dimer. <i>Chemical Physics Letters</i> , 2008 , 454, 97-104	2.5	34
151	Theoretical study of third-order nonlinear optical properties in square nanographenes with open-shell singlet ground states. <i>Chemical Physics Letters</i> , 2008 , 467, 120-125	2.5	93
150	Naphthidine di(radical cation)s-stabilized palladium nanoparticles for efficient catalytic Suzuki-Miyaura cross-coupling reactions. <i>Tetrahedron</i> , 2008 , 64, 372-381	2.4	57
149	Investigation on the Second-Order Nonlinear Optical Responses in the Keto-Enol Equilibrium of Anil Derivatives. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 5638-5645	3.8	74
148	Theoretical investigation of the EPR hyperfine coupling constants in amino derivatives. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 828-36	3.6	16
147	Circular dichroism of helical structures using semiempirical methods. <i>Journal of Chemical Physics</i> , 2007 , 127, 204101	3.9	30
146	Finite-Field Spin-Flip Configuration Interaction Calculation of the Second Hyperpolarizabilities of Singlet Diradical Systems. <i>Journal of Chemical Theory and Computation</i> , 2007 , 3, 1699-707	6.4	38
145	Assessment of time-dependent density functional schemes for computing the oscillator strengths of benzene, phenol, aniline, and fluorobenzene. <i>Journal of Chemical Physics</i> , 2007 , 127, 084103	3.9	76
144	Theoretical study on the second hyperpolarizabilities of phenalenyl radical systems involving acetylene and vinylene linkers: diradical character and spin multiplicity dependences. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 3633-41	2.8	80
143	Time dependent density functional theory investigation of the resonance Raman properties of the julolidinemalononitrile push-pull chromophore in various solvents. <i>Journal of Chemical Physics</i> , 2007 , 127, 164507	3.9	87
142	Second hyperpolarizabilities of singlet polycyclic diphenalenyl radicals: effects of the nature of the central heterocyclic ring and substitution to diphenalenyl rings. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 9102-10	2.8	24
141	Acido-triggered nonlinear optical switches: benzazolo-oxazolidines. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 9795-802	3.4	83
140	Ab initio investigation on the second-order nonlinear optical responses in keto-enol equilibria of salicylideneanilines. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 9914-23	2.8	44
139	A joined theoretical-experimental investigation on the ¹ H and ¹³ C NMR chemical shifts of chloro-alkenes. <i>Chemical Physics Letters</i> , 2007 , 436, 388-393	2.5	20
138	Theoretical investigation on bridged triarylamine helicenes: UV/visible and circular dichroism spectra. <i>Chemical Physics Letters</i> , 2007 , 439, 213-218	2.5	27
137	Theoretical design of sulfinate-based ferroelectric liquid crystals displaying second-order nonlinear optical properties. <i>Chemical Physics Letters</i> , 2007 , 440, 116-120	2.5	7
136	First and second hyperpolarizabilities of donor-acceptor disubstituted diphenalenyl radical systems. <i>Chemical Physics Letters</i> , 2007 , 443, 95-101	2.5	38
135	Time-dependent density functional theory investigation of the absorption and emission spectra of a cyanine dye. <i>Chemical Physics Letters</i> , 2007 , 446, 165-169	2.5	43

134	An analytical derivative procedure for the calculation of vibrational Raman optical activity spectra. <i>Journal of Chemical Physics</i> , 2007 , 127, 204105	3.9	75
133	Theoretical Evaluation of the Faraday Effect in Organic Compounds. <i>Computing Letters</i> , 2007 , 3, 193-200		3
132	Second Hyperpolarizability of Zethrenes. <i>Computing Letters</i> , 2007 , 3, 333-338		57
131	Relationship between third-order nonlinear optical properties and magnetic interactions in open-shell systems: a new paradigm for nonlinear optics. <i>Physical Review Letters</i> , 2007 , 99, 033001	7.4	246
130	Theoretical investigation of the second-order nonlinear optical properties of helical pyridine-pyrimidine oligomers. <i>Chemistry - A European Journal</i> , 2006 , 12, 8687-95	4.8	33
129	A joint theoretical-experimental investigation of the Faraday effect in benzene, toluene, and p-xylene. <i>ChemPhysChem</i> , 2006 , 7, 1654-6	3.2	17
128	Theoretical determination of the vibrational Raman optical activity signatures of helical polypropylene chains. <i>ChemPhysChem</i> , 2006 , 7, 2366-76	3.2	33
127	Experimental and theoretical investigation of the Raman and hyper-Raman spectra of acetonitrile and its derivatives. <i>Journal of Chemical Physics</i> , 2006 , 124, 244312	3.9	34
126	Origin of the enhancement of the second hyperpolarizability of singlet diradical systems with intermediate diradical character. <i>Journal of Chemical Physics</i> , 2006 , 125, 074113	3.9	84
125	Theoretical investigation on ¹ H and ¹³ C NMR chemical shifts of small alkanes and chloroalkanes. <i>Journal of Chemical Physics</i> , 2006 , 125, 144309	3.9	36
124	Evaluation of alternative sum-over-states expressions for the first hyperpolarizability of push-pull pi-conjugated systems. <i>Journal of Chemical Physics</i> , 2006 , 125, 24101	3.9	69
123	Density functional theory investigation of the polarizability and second hyperpolarizability of polydiacetylene and polybutatriene chains: treatment of exact exchange and role of correlation. <i>Journal of Chemical Physics</i> , 2006 , 125, 194114	3.9	55
122	Investigation of the UV/visible absorption spectra of merocyanine dyes using time-dependent density functional theory. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 13007-13	2.8	62
121	Facile synthesis and characterization of naphthidines as a new class of highly nonplanar electron donors giving robust radical cations. <i>Journal of Organic Chemistry</i> , 2006 , 71, 1351-61	4.2	20
120	Second hyperpolarizabilities (gamma) of bisimidazole and bistriazole benzenes: diradical character, charged state, and spin state dependences. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 4238-43	2.8	85
119	Acidoswitchable NLO-phores: benzimidazolo[2,3-b]oxazolidines. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 10672-82	3.4	52
118	Elongation method and supermolecule approach for the calculation of nonlinear susceptibilities. Application to the 3-Methyl-4-Nitropyridine 1-Oxide and 2-Methyl-4-Nitroaniline crystals. <i>Journal of Computational Methods in Sciences and Engineering</i> , 2006 , 6, 171-188	0.3	5
117	Density functional theory investigation of the alkylating strength of organoaluminum co-catalysts for Ziegler-Natta polymerization. <i>International Journal of Quantum Chemistry</i> , 2006 , 106, 588-598	2.1	9

116	Time-dependent density functional theory simulation of hyper-Raman spectra. <i>International Journal of Quantum Chemistry</i> , 2006 , 106, 599-608	2.1	18
115	Investigation of polyethylene helical conformations: Theoretical study by vibrational Raman optical activity. <i>International Journal of Quantum Chemistry</i> , 2006 , 106, 3097-3107	2.1	16
114	Theoretical investigation of the chain length effects on the NMR chemical shifts of oligomers. <i>International Journal of Quantum Chemistry</i> , 2006 , 106, 3113-3121	2.1	5
113	Second hyperpolarizability of phenalenyl radical system involving acetylene π -conjugated bridge. <i>Chemical Physics Letters</i> , 2006 , 420, 432-437	2.5	31
112	TDDFT investigation of the optical properties of cyanine dyes. <i>Chemical Physics Letters</i> , 2006 , 425, 105-109	2.5	83
111	Theoretical design of molecular photo- and acido-triggered non-linear optical switches. <i>Chemical Physics Letters</i> , 2006 , 427, 153-158	2.5	12
110	Second hyperpolarizabilities of polycyclic diphenalenyl radicals: Effects of para/ortho-quinoid structures and central ring modification. <i>Chemical Physics Letters</i> , 2006 , 429, 174-179	2.5	18
109	Second hyperpolarizabilities (γ) of open-shell singlet one-dimensional systems: Intersite interaction effects on the average diradical character and size dependences of γ . <i>Chemical Physics Letters</i> , 2006 , 432, 473-479	2.5	32
108	Analysis of the VROA signals of helical heptasilanes using an atomistic approach. <i>Vibrational Spectroscopy</i> , 2006 , 42, 309-316	2.1	11
107	Ab Initio Methods for Simulating and Interpreting hyper-Raman Spectra of Molecules 2006 , 317-323		
106	Theoretical Study on the Second Hyperpolarizabilities of Diphenalenyl Radical Systems 2006 , 231-240		
105	Nonlinear Optical Properties of Chiral Liquids. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2006 , 359-381	0.7	1
104	Modeling the electric field third-order nonlinear responses of an infinite aggregate of hexatriene chains using the electrostatic interaction model. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 3284-9	3.6	33
103	TDHF Evaluation of the Dipole-Quadrupole Polarizability and Its Geometrical Derivatives. <i>Journal of Chemical Theory and Computation</i> , 2005 , 1, 444-52	6.4	40
102	Acido- and phototriggered NLO properties enhancement. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 11139-50	3.4	114
101	Second hyperpolarizability (γ) of singlet diradical system: dependence of γ on the diradical character. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 885-91	2.8	269
100	Comment on "physical limits on electronic nonlinear molecular susceptibilities". <i>Physical Review Letters</i> , 2005 , 95, 109401; author reply 109402	7.4	26
99	Vibrational raman optical activity as a mean for revealing the helicity of oligosilanes: a quantum chemical investigation. <i>Journal of Chemical Physics</i> , 2005 , 122, 214304	3.9	21

98	Density-functional theory (hyper)polarizabilities of push-pull pi-conjugated systems: treatment of exact exchange and role of correlation. <i>Journal of Chemical Physics</i> , 2005 , 123, 014319	3.9	113
97	Rototranslational sum rules for static and dynamic polarisabilities. <i>Computer Physics Communications</i> , 2005 , 173, 131-139	4.2	1
96	Density functional theory investigation of the stereochemistry effects on ¹ H and ¹³ C NMR chemical shifts of poly(vinyl chloride) oligomers. <i>Chemical Physics Letters</i> , 2005 , 411, 207-213	2.5	19
95	Large effect of dopant level on second hyperpolarizability of alkali-doped polyacetylene chains. <i>Chemical Physics Letters</i> , 2005 , 412, 217-222	2.5	33
94	Hyper-Rayleigh scattering of neutral and charged helicenes. <i>Chemical Physics Letters</i> , 2005 , 412, 274-279	2.5	48
93	Basis set and electron correlation effects on the polarizability and second hyperpolarizability of model open-shell pi-conjugated systems. <i>Journal of Chemical Physics</i> , 2005 , 122, 114315	3.9	129
92	Simulation of UV/visible absorption spectra of (diimine)nickel(II) catalysts by time-dependent density functional theory. <i>International Journal of Quantum Chemistry</i> , 2005 , 101, 840-848	2.1	9
91	Hyperpolarizability density analysis of the enhancement of second hyperpolarizability of pi-conjugated oligomers by intermolecular interaction. <i>International Journal of Quantum Chemistry</i> , 2005 , 102, 702-710	2.1	18
90	Charge distributions in polyacetylene chains containing a positively charged defect. <i>International Journal of Quantum Chemistry</i> , 2005 , 104, 354-366	2.1	14
89	Introduction: Modeling vibrational spectroscopies. <i>International Journal of Quantum Chemistry</i> , 2005 , 104, 587-588	2.1	3
88	Mixed electric-magnetic second-order nonlinear optical response of helicenes. <i>Journal of Chemical Physics</i> , 2005 , 122, 234713	3.9	46
87	Second-order nonlinear optical coefficient of polyphosphazene-based materials: a theoretical study. <i>Journal of Chemical Physics</i> , 2004 , 120, 9401-9	3.9	34
86	Theoretical investigation of the linear and second-order nonlinear susceptibilities of the 3-methyl-4-nitropyridine-1-oxide (POM) crystal. <i>Journal of Chemical Physics</i> , 2004 , 121, 7390-400	3.9	45
85	Theoretical Study on Open-Shell Nonlinear Optical Systems. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 846, DD1.4.1		0
84	Modelisation of the Electric Field Linear Response of an Infinite Aggregate of All-Trans Hexatriene Chains by Electrostatic Interaction Model. <i>Structural Chemistry</i> , 2004 , 15, 385-390	1.8	8
83	Ab initio investigation of the vibrational hyper-Raman spectra of ethylene, ethane, and dimethyl ether. <i>Theoretical Chemistry Accounts</i> , 2004 , 111, 390-394	1.9	9
82	Theoretical design of substituted tetrathia-[7]-helicenes with large second-order nonlinear optical responses. <i>ChemPhysChem</i> , 2004 , 5, 1438-42	3.2	49
81	Structural properties of doped polyacetylene chains: a comparative theoretical investigation using Hartree-Fock, Møller-Plesset second-order perturbation theory, and density functional theory approaches. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 3167-3174	3.6	29

80	Polarization effects on the hyper-Raman spectra of carbon tetrachloride: a joint experimental-theoretical study. <i>Journal of Chemical Physics</i> , 2004 , 121, 4705-10	3.9	35
79	Theoretical study of the second-order nonlinear optical properties of [N]helicenes and [N]phenylenes. <i>Journal of Chemical Physics</i> , 2004 , 120, 2042-8	3.9	74
78	Multichromophoric Dendrimers as Single-Photon Sources: A Single-Molecule Study. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 16686-16696	3.4	69
77	Spin Multiplicity Effects on the Second Hyperpolarizability of an Open-Shell Neutral π -Conjugated System. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 4105-4111	2.8	76
76	Identification of free radicals trapped in solid methacrylated resins. <i>Journal of Polymer Science Part A</i> , 2003 , 41, 1691-1699	2.5	38
75	Copolymerization Effects upon the Second-Order NLO Responses of Polyacetylene/Polymethineimine. <i>Macromolecules</i> , 2003 , 36, 3980-3985	5.5	16
74	Large Off-Diagonal Contribution to the Second-Order Optical Nonlinearities of π -Shaped Molecules. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 3942-3951	2.8	100
73	Investigation of the configuration of alkyl phenyl ketone phenylhydrazones from ab initio ^1H NMR chemical shifts. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 3839-44	3.9	15
72	Calculations of Nonlinear Optical Properties for the Solid State. <i>Advances in Chemical Physics</i> , 2003 , 41-92		50
71	Electronic and Nonlinear Optical Properties of 2-Methyl-4-Nitroaniline Clusters. <i>Computational Chemistry - Reviews of Current Trends</i> , 2003 , 81-130		1
70	Integral algorithm and density matrix integration scheme for ab initio band structure calculations on polymeric systems. <i>Journal of Computational Chemistry</i> , 2002 , 23, 1430-44	3.5	10
69	Analytical TDHF second derivatives of dynamic electronic polarizability with respect to nuclear coordinates. Application to the dynamic ZPVA correction. <i>Journal of Computational Chemistry</i> , 2002 , 23, 1495-6	3.5	2
68	Coupled-perturbed Hartree-Fock treatment of infinite periodic systems: Application to static polarizabilities and hyperpolarizabilities of polydiacetylene, polybutatriene, and interacting pairs of polyacetylene chains. <i>International Journal of Quantum Chemistry</i> , 2002 , 90, 709-718	2.1	24
67	Investigation of the frequency-dispersion effects on the Raman spectra of small polyenes. <i>International Journal of Quantum Chemistry</i> , 2002 , 89, 341-348	2.1	14
66	Convergence of exchange lattice summations in direct-space polymer calculations. <i>International Journal of Quantum Chemistry</i> , 2002 , 89, 452-463	2.1	9
65	Electronic excitations and first hyperpolarizability of 2-methyl-4-nitroaniline clusters. <i>International Journal of Quantum Chemistry</i> , 2002 , 90, 1378-1387	2.1	18
64	First hyperpolarizability of H(BN)N π oligomers: analysis of geometry, asymmetry and delocalization effects. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 432-440	3.6	30
63	Intramolecular charge transfer and first-order hyperpolarizability of planar and twisted sesquifulvalenes. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 5566-5571	3.6	26

62	Möbius strip versus linear and cyclic polyacenes: a Hückel and semiempirical investigation. <i>Theoretical Chemistry Accounts</i> , 2001 , 105, 431-436	1.9	14
61	Linear, cyclic, and Möbius strip polyacenes: The influence of the topology on the size-dependent HOMO-LUMO energy gap. <i>International Journal of Quantum Chemistry</i> , 2001 , 84, 607-616	2.1	39
60	Long-range effects in optimizing the geometry of stereoregular polymersIV: Explicit determination of the helical angle. <i>International Journal of Quantum Chemistry</i> , 2001 , 85, 539-545	2.1	6
59	Sum-frequency generation first hyperpolarizability from time-dependent Hartree-Fock method. <i>International Journal of Quantum Chemistry</i> , 2001 , 85, 463-468	2.1	10
58	Analytical TDHF second derivatives of dynamic electronic polarizability with respect to nuclear coordinates. Application to the dynamic ZPVA correction. <i>Journal of Computational Chemistry</i> , 2001 , 22, 1920-1932	3.5	28
57	Simple Scheme To Evaluate Crystal Nonlinear Susceptibilities: Semiempirical AM1 Model Investigation of 3-Methyl-4-nitroaniline Crystal. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 1366-1370	2.8	55
56	Theoretical approach to the design of organic molecular and polymeric nonlinear optical materials 2001 , 63-126		56
55	Second-Order ab Initio Møller-Plesset Study of Optimum Chain Length for Total (Electronic Plus Vibrational) $\chi^{(2)}$ of a Prototype Push-Pull Polyene. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 9748-9755	2.8	48
54	Efficient treatment of the effect of vibrations on electrical, magnetic, and spectroscopic properties. <i>Journal of Computational Chemistry</i> , 2000 , 21, 1572-1588	3.5	48
53	Calculation of static zero-point vibrational averaging corrections and other vibrational curvature contributions to polarizabilities and hyperpolarizabilities using field-induced coordinates. <i>International Journal of Quantum Chemistry</i> , 2000 , 80, 471-479	2.1	36
52	Optimizing the geometry of stereoregular polymers. III. Polyyne and the basis set quasi-linear dependence. <i>International Journal of Quantum Chemistry</i> , 2000 , 80, 863-870	2.1	26
51	Hybridization effect upon the vibrational second hyperpolarizability: An ab initio study of acetylene, ethylene, and ethane. <i>International Journal of Quantum Chemistry</i> , 2000 , 80, 871-881	2.1	8
50	Vibrational second hyperpolarizability of symmetrically substituted 'quadrupolar' E-conjugated systems. <i>Journal of Optics</i> , 2000 , 2, 247-254		10
49	Large vibrational nonlinear optical properties of C60: A combined Hartree-Fock/density-functional approach. <i>Physical Review B</i> , 2000 , 61, 13137-13143	3.3	17
48	Three-wave mixing in chiral liquids. <i>Physical Review Letters</i> , 2000 , 85, 4253-6	7.4	94
47	Assessment of Conventional Density Functional Schemes for Computing the Dipole Moment and (Hyper)polarizabilities of Push-Pull E-Conjugated Systems Journal of Physical Chemistry A, 2000 , 104, 4755-4763	2.8	473
46	Electric Field Simulation of Substituents in Donor-Acceptor Polyenes: A Comparison with Ab Initio Predictions for Dipole Moments, Polarizabilities, and Hyperpolarizabilities. <i>Journal of the American Chemical Society</i> , 2000 , 122, 8007-8012	16.4	120
45	Major intermolecular effects on nonlinear electrical response in a hexatriene model of solid state polyacetylene. <i>Chemical Physics Letters</i> , 1999 , 305, 132-138	2.5	51

44	Bond length alternation effects on the static electronic polarizability and second hyperpolarizability of polyacetylene chains. <i>International Journal of Quantum Chemistry</i> , 1999 , 75, 441-447 ^{2.1}	39
43	Towards the Calculations of Polarizabilities of Stereoregular Polymers ??dedicated to Professor Yngve BERN at the occasion of his 65th birthday. <i>Advances in Quantum Chemistry</i> , 1999 , 95-110	1.4 6
42	Static first hyperpolarizability of small all-trans polymethineimine oligomers. Basis set and electron correlation effects. <i>Computational and Theoretical Chemistry</i> , 1998 , 425, 69-79	20
41	Nonresonant frequency dispersion of the electronic second hyperpolarizability of all-trans polysilane chains: An ab initio TDHF oligomeric approach. <i>International Journal of Quantum Chemistry</i> , 1998 , 70, 751-761	2.1 8
40	Ab initio determination of the vibrational and electronic first hyperpolarizabilities of reference compounds for non-linear optical (NLO) applications 3-Methyl 4-nitropyridine 1-oxide (POM) and N-(4-nitrophenyl)-(L)-prolinol (NPP). <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998 , 94, 1547-1553	25
39	Effect of solid-state interactions on the vibrational hyperpolarizability of all-trans polyacetylene chains from ab initio HartreeFock calculations. <i>Journal of Chemical Physics</i> , 1998 , 109, 6450-6455	3.9 12
38	Ab initio Hartree-Fock Investigation of Conjugated Compounds Presenting Large μ/α Ratio: Merocyanines. <i>Collection of Czechoslovak Chemical Communications</i> , 1998 , 63, 1295-1308	22
37	Ab Initio Coupled HartreeFock Investigation of the Static First Hyperpolarizability of Model all-trans-Polymethineimine Oligomers of Increasing Size. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 3158-3165 ^{2.8}	81
36	Nonlinear optical properties of quasilinear conjugated oligomers, polymers and organic molecules. <i>International Reviews in Physical Chemistry</i> , 1997 , 16, 389-420	7 128
35	Analysis of the vibrational static and dynamic second hyperpolarizabilities of polyacetylene chains. <i>Synthetic Metals</i> , 1997 , 85, 1047-1050	3.6 28
34	Static electronic and vibrational polarizabilities of poly(dimethylsilane) chains. <i>Computational and Theoretical Chemistry</i> , 1997 , 391, 67-73	5
33	Cluster size effects in models of the active site for stereospecific heterogeneous Ziegler-Natta polymerization. <i>Journal of Molecular Catalysis A</i> , 1997 , 119, 235-244	5
32	Electron correlation effects upon the static (hyper)polarizabilities of push-pull conjugated polyenes and polyynes 1997 , 65, 679-688	52
31	Vibrational versus electronic first hyperpolarizabilities of mono- and disubstituted benzenes: An ab initio coupled HartreeFock investigation. <i>International Journal of Quantum Chemistry</i> , 1997 , 65, 689-696 ^{2.1}	18
30	Electron correlation effects upon the static (hyper)polarizabilities of push-pull conjugated polyenes and polyynes 1997 , 65, 679	2
29	Electronic first hyperpolarizability of polymethineimine chains with donor and acceptor groups. <i>Synthetic Metals</i> , 1996 , 80, 205-210	3.6 20
28	Ab initio dynamic polarizabilities of polymers. I. Hydrogen chain models. <i>International Journal of Quantum Chemistry</i> , 1996 , 57, 811-821	2.1 23
27	Curvature versus nuclear relaxation contributions to the static vibrational polarizability of polyacetylene chains. <i>Chemical Physics Letters</i> , 1996 , 248, 301-308	2.5 18

26	Vibrational polarizability and hyperpolarizability of p-nitroaniline. <i>Chemical Physics Letters</i> , 1996 , 261, 57-65	2.5	71
25	Exploratory Pariser-Parr-Pople investigation of the static first hyperpolarizability of polymethineimine chains. <i>Chemical Physics</i> , 1996 , 213, 217-228	2.3	12
24	Role of collective modes in vibrational polarizabilities and hyperpolarizabilities of polyacetylene and other quasilinear polymers. <i>Journal of Chemical Physics</i> , 1996 , 104, 4125-4136	3.9	63
23	Ab initio investigation of the electronic properties of planar and twisted polyparaphenylenes. <i>Physical Review B</i> , 1996 , 54, 2381-2389	3.3	27
22	Density functional study of the static longitudinal polarizability of model polymeric chains. <i>International Journal of Quantum Chemistry</i> , 1995 , 56, 117-130	2.1	12
21	On the convergence of the exchange-like sums in the random phase approximation applied to stereoregular polymers. <i>International Journal of Quantum Chemistry</i> , 1995 , 56, 429-435	2.1	5
20	Molecular orbital expressions for approximate uncoupled Hartree-Fock second hyperpolarizabilities. A Pariser-Parr-Pople assessment for model polyacetylene chains. <i>Chemical Physics</i> , 1995 , 197, 107-127	2.3	10
19	About the relations between polarizability and Hartree-Fock instabilities. Part 1. The hydrogen molecule. <i>Computational and Theoretical Chemistry</i> , 1995 , 332, 93-104		5
18	Electron-correlation effects on the static longitudinal polarizability of polymeric chains. II. Bond-length-alternation effects. <i>Physical Review A</i> , 1995 , 52, 1039-1053	2.6	26
17	Electron-correlation effects on the static longitudinal polarizability of polymeric chains. <i>Physical Review A</i> , 1995 , 52, 178-188	2.6	46
16	Electron propagator theory and application. <i>Theoretica Chimica Acta</i> , 1995 , 90, 397-419		13
15	Static vibrational polarizability of all-trans polyethylene and polysilane. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995 , 91, 1641-1646		18
14	Study of excited states of polyethylene in the Hartree-Fock, Tamm-Dancoff, and random-phase approximations. <i>Journal of Chemical Physics</i> , 1995 , 102, 6831-6836	3.9	15
13	Model calculations of the first hyperpolarisability per unit cell of finite and infinite polymethineimine chains 1995 ,		19
12	Ab initio investigation of the static polarizability of planar and twisted infinite polythiophene chains. <i>International Journal of Quantum Chemistry</i> , 1994 , 52, 451-467	2.1	17
11	Ab initio longitudinal polarizabilities of conjugated stereoregular polymers with a carbon backbone. <i>Chemical Physics Letters</i> , 1994 , 217, 551-558	2.5	23
10	Vibrational polarizability of polyacetylene chains. <i>Journal of Chemical Physics</i> , 1994 , 101, 10796-10807	3.9	51
9	The convergence of the direct lattice sums in the random phase approximation method applied to periodic infinite systems. <i>Chemical Physics Letters</i> , 1993 , 210, 232-242	2.5	8

8	Ab initio determination of polarizabilities per subunit in polymeric systems using the polarization propagator: Application to model hydrogen chains. <i>International Journal of Quantum Chemistry</i> , 1993 , 46, 1-17	2.1	32
7	Ab initio coupled and uncoupled Hartree-Fock calculations of the polarizabilities of finite and infinite polyacetylene chains. <i>International Journal of Quantum Chemistry</i> , 1993 , 48, 667-685	2.1	40
6	Efficient computation of electron-repulsion integrals in ab initio studies of polymeric systems. <i>International Journal of Quantum Chemistry</i> , 1993 , 48, 793-806	2.1	9
5	From uncoupled to coupled Hartree-Fock polarizabilities of infinite polymeric chains. Pariser-Parr-Pople applications to the polyacetylene chains. <i>Journal of Chemical Physics</i> , 1992 , 96, 8330-8337	2.1	49
4	Determination of ab initio polarizabilities of polymers: Application to polyethylene and polysilane. <i>International Journal of Quantum Chemistry</i> , 1992 , 42, 1009-1024	2.1	48
3	Model calculations of polarizabilities of polyene chains: Oligomers and infinite polymers. <i>International Journal of Quantum Chemistry</i> , 1990 , 38, 859-871	2.1	15
2	Polarizabilities and hyperpolarizabilities. <i>Chemical Modelling</i> , 17-62	2	12
1	Tuning Electronic and Morphological Properties for High-Performance Wavelength-Selective Organic Near-Infrared Cavity Photodetectors. <i>Advanced Functional Materials</i> , 2108146	15.6	4