

Ryohei Kishi

List of Publications by Year in descending order

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155
papers

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citations

87723

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#	ARTICLE	IF	CITATIONS
1	Second Hyperpolarizability ($\hat{\beta}^3$) of Singlet Diradical System: Dependence of $\hat{\beta}^3$ on the Diradical Character. <i>Journal of Physical Chemistry A</i> , 2005, 109, 885-891.	1.1	296
2	Strong Two-Photon Absorption of Singlet Diradical Hydrocarbons. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3544-3546.	7.2	261
3	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.	2.9	258
4	Synthesis and Characterization of Quarteranethene: Elucidating the Characteristics of the Edge State of Graphene Nanoribbons at the Molecular Level. <i>Journal of the American Chemical Society</i> , 2013, 135, 1430-1437.	6.6	237
5	Indeno[2,1 <i>b</i>]fluorene: A Low-Energy Electron Hydrocarbon with Very Low-Energy Light Absorption. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6076-6079.	7.2	228
6	Singlet Diradical Character from Experiment. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 937-940.	2.1	181
7	Second hyperpolarizabilities of polycyclic aromatic hydrocarbons involving phenalenyl radical units. <i>Chemical Physics Letters</i> , 2006, 418, 142-147.	1.2	139
8	Impact of Diradical Character on Two-Photon Absorption: Bis(acridine) Dimers Synthesized from an Allenic Precursor. <i>Journal of the American Chemical Society</i> , 2013, 135, 232-241.	6.6	135
9	(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.	0.5	125
10	Thiophene and its sulfur inhibit indenoindenodibenzothiophene diradicals from low-energy lying thermal triplets. <i>Nature Chemistry</i> , 2018, 10, 1134-1140.	6.6	119
11	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.	2.1	111
12	A new type of organic-inorganic hybrid NLO-phore with large off-diagonal first hyperpolarizability tensors: a two-dimensional approach. <i>Dalton Transactions</i> , 2013, 42, 15053.	1.6	111
13	Second Hyperpolarizabilities ($\hat{\beta}^3$) of Bisimidazole and Bistriazole Benzenes: Diradical Character, Charged State, and Spin State Dependences. <i>Journal of Physical Chemistry A</i> , 2006, 110, 4238-4243.	1.1	100
14	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.	1.2	96
15	Signature of multiradical character in second hyperpolarizabilities of rectangular graphene nanoflakes. <i>Chemical Physics Letters</i> , 2010, 489, 212-218.	1.2	90
16	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.	1.2	88
17	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, 3633-3641.	1.1	84
18	Role of a singlet diradical character in carbon nanomaterials: a novel hot spot for efficient nonlinear optical materials. <i>Nanoscale</i> , 2016, 8, 17998-18020.	2.8	83

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19	Long-range corrected density functional theory study on static second hyperpolarizabilities of singlet diradical systems. <i>Journal of Chemical Physics</i> , 2010, 132, 094107.	1.2	82
20	Tuned CAM-B3LYP functional in the time-dependent density functional theory scheme for excitation energies and properties of diarylethene derivatives. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012, 235, 29-34.	2.0	82
21	Synthesis of the Unknown Indeno[1,2- <i>a</i>]fluorene Regioisomer: Crystallographic Characterization of Its Dianion. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15363-15367.	7.2	81
22	Theoretical study on third-order nonlinear optical properties in hexagonal graphene nanoflakes: Edge shape effect. <i>Chemical Physics Letters</i> , 2009, 477, 355-359.	1.2	74
23	Molecule Isomerism Modulates the Diradical Properties of Stable Singlet Diradicaloids. <i>Journal of the American Chemical Society</i> , 2020, 142, 1548-1555.	6.6	65
24	Halide Ion Complexes of Decaborane (B ₁₀ H ₁₄) and Their Derivatives: Noncovalent Charge Transfer Effect on Second-Order Nonlinear Optical Properties. <i>Journal of Physical Chemistry A</i> , 2012, 116, 1417-1424.	1.1	62
25	Second Hyperpolarizability of Zethrenes. <i>Computing Letters</i> , 2007, 3, 333-338.	0.5	60
26	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.	1.2	59
27	Remarkable two-photon absorption in open-shell singlet systems. <i>Journal of Chemical Physics</i> , 2009, 131, 114316.	1.2	54
28	Fluoreno[2,3- <i>b</i>]fluorene vs Indeno[2,1- <i>b</i>]fluorene: Unusual Relationship between the Number of π Electrons and Excitation Energy in <i>m</i> -Quinodimethane-Type Singlet Diradicaloids. <i>Journal of Organic Chemistry</i> , 2017, 82, 1380-1388.	1.7	52
29	Enhancement of Antiaromatic Character via Additional Benzoannulation into Dibenzo[<i>a</i> , <i>f</i>]pentalene: Syntheses and Properties of Benzo[<i>a</i>]naphtho[2,1- <i>f</i>]pentalene and Dinaphtho[2,1- <i>a</i> , <i>f</i>]pentalene. <i>Journal of the American Chemical Society</i> , 2019, 141, 560-571.	6.6	52
30	Bis-periazulene (Cyclohepta[<i>def</i>]fluorene) as a Nonalternant Isomer of Pyrene: Synthesis and Characterization of Its Triaryl Derivatives. <i>Journal of the American Chemical Society</i> , 2022, 144, 3370-3375.	6.6	50
31	Theoretical Study on Second Hyperpolarizabilities of Singlet Diradical Square Planar Nickel Complexes Involving <i>o</i> -Semiquinonato Type Ligands. <i>Journal of Physical Chemistry A</i> , 2008, 112, 8423-8429.	1.1	49
32	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.	1.2	49
33	Photochromic Switching of Diradical Character: Design of Efficient Nonlinear Optical Switches. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2418-2422.	2.1	48
34	Diindenoanthracene Diradicaloids Enable Rational, Incremental Tuning of Their Singlet-Triplet Energy Gaps. <i>CheM</i> , 2020, 6, 1353-1368.	5.8	46
35	First and second hyperpolarizabilities of donor-acceptor disubstituted diphenalenyl radical systems. <i>Chemical Physics Letters</i> , 2007, 443, 95-101.	1.2	43
36	Monoradicals and Diradicals of Dibenzo[fluoreno[3,2- <i>b</i>]fluorene Isomers: Mechanisms of Electronic Delocalization. <i>Journal of the American Chemical Society</i> , 2020, 142, 20444-20455.	6.6	43

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37	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, 1699-1707.	2.3	41
38	Exploring the novel donor-nanotube archetype as an efficient third-order nonlinear optical material: asymmetric open-shell carbon nanotubes. <i>Nanoscale</i> , 2018, 10, 16499-16507.	2.8	37
39	Intermolecular interaction effects on the second hyperpolarizability of open-shell singlet diphenalenyl radical dimer. <i>Chemical Physics Letters</i> , 2008, 454, 97-104.	1.2	36
40	Interplay between the Diradical Character and Third-Order Nonlinear Optical Properties in Fullerene Systems. <i>Chemistry - A European Journal</i> , 2013, 19, 1677-1685.	1.7	36
41	Isolation of Hypervalent Group-16 Radicals and Their Application in Organic-Radical Batteries. <i>Journal of the American Chemical Society</i> , 2016, 138, 479-482.	6.6	35
42	Exciton migration dynamics in a dendritic molecule: Quantum master equation approach using ab initio molecular orbital configuration interaction method. <i>Journal of Chemical Physics</i> , 2004, 120, 2359-2367.	1.2	34
43	Second hyperpolarizabilities ($\hat{\chi}^3$) of open-shell singlet one-dimensional systems: Intersite interaction effects on the average diradical character and size dependences of $\hat{\chi}^3$. <i>Chemical Physics Letters</i> , 2006, 432, 473-479.	1.2	34
44	Second hyperpolarizability of phenalenyl radical system involving acetylene π -conjugated bridge. <i>Chemical Physics Letters</i> , 2006, 420, 432-437.	1.2	33
45	Benzenorcorrole Ni ^{II} Complexes: Enhancement of Paratropic Ring Current and Singlet Diradical Character by Benzofusion. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2209-2213.	7.2	33
46	Computation of the free energy change associated with one-electron reduction of coenzyme immersed in water: A novel approach within the framework of the quantum mechanical/molecular mechanical method combined with the theory of energy representation. <i>Journal of Chemical Physics</i> , 2008, 129, 205103.	1.2	32
47	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.	1.2	32
48	Non-empirical tuning of CAM-B3LYP functional in time-dependent density functional theory for excitation energies of diarylethene derivatives. <i>Chemical Physics Letters</i> , 2013, 585, 201-206.	1.2	31
49	Diradical Character Enhancement by Spacing: N -Heterocyclic Carbene Analogues of Müller's Hydrocarbon. <i>Chemistry - A European Journal</i> , 2018, 24, 16537-16542.	1.7	31
50	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, 8767-8777.	1.1	30
51	Challenging Compounds for Calculating Hyperpolarizabilities: <i>p</i> -Quinodimethane Derivatives. <i>Journal of Physical Chemistry A</i> , 2013, 117, 4709-4715.	1.1	29
52	Synthesis of the Unknown Indeno[1,2- <i>cd</i>]fluorene Regioisomer: Crystallographic Characterization of Its Dianion. <i>Angewandte Chemie</i> , 2017, 129, 15565-15569.	1.6	29
53	Structure-property relation in two-photon absorption for symmetric molecules involving diacetylene π -conjugated bridge. <i>Chemical Physics Letters</i> , 2004, 393, 437-441.	1.2	25
54	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, 9102-9110.	1.1	25

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55	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, 5501-5509.	1.1	25
56	A Tetrasilicon Analogue of Bicyclo[1.1.0]butane (3)ene Containing a Si=Si Double Bond with an Inverted Geometry. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4371-4375.	7.2	25
57	Theoretical Study on the Electronic Structure and Third-Order Nonlinear Optical Properties of Open-Shell Quinoidal Oligothiophenes. <i>Journal of Physical Chemistry C</i> , 2013, 117, 21498-21508.	1.5	24
58	Diradical Character Tuning for the Third-Order Nonlinear Optical Properties of Quinoidal Oligothiophenes by Introducing Thiophene-sulfone-dioxide Rings. <i>Chemistry - A European Journal</i> , 2016, 22, 1493-1500.	1.7	23
59	Polarizability and second hyperpolarizability of open-shell π -conjugated compounds from spin projection method calculations. <i>Chemical Physics Letters</i> , 2005, 407, 372-378.	1.2	21
60	Investigation of the dominant hydration structures among the ionic species in aqueous solution: Novel quantum mechanics/molecular mechanics simulations combined with the theory of energy representation. <i>Journal of Chemical Physics</i> , 2008, 128, 064507.	1.2	21
61	Theoretical Study on Diradical Characters and Nonlinear Optical Properties of 1,3-Diradical Compounds. <i>Journal of Physical Chemistry A</i> , 2014, 118, 10837-10848.	1.1	21
62	Quantum Master Equation Approach to Singlet Fission Dynamics in Pentacene Linear Aggregate Models: Size Dependences of Excitonic Coupling Effects. <i>Journal of Computational Chemistry</i> , 2019, 40, 89-104.	1.5	21
63	Late-Stage Modification of Electronic Properties of Antiaromatic and Diradicaloid Indeno[1,2-b]fluorene Analogues via Sulfur Oxidation. <i>Journal of Organic Chemistry</i> , 2020, 85, 10846-10857.	1.7	21
64	A Tale of Two Isomers: Enhanced Antiaromaticity/Diradical Character versus Deleterious Ring-Opening of Benzofuran-fused Indacenes and Dicyclopenta[naphthalenes]. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22385-22392.	7.2	21
65	Hyperpolarizability density analysis of the enhancement of second hyperpolarizability of π -conjugated oligomers by intermolecular interaction. <i>International Journal of Quantum Chemistry</i> , 2005, 102, 702-710.	1.0	20
66	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.	1.2	20
67	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.	1.2	20
68	Diradical character and nonlinear optical properties of buckyferrocenes: focusing on the use of suitably modified fullerene fragments. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 5805-5816.	1.3	20
69	Long Carbon-Carbon Bonding beyond 2 Å... in Tris(9-fluorenylidene)methane. <i>Journal of the American Chemical Society</i> , 2021, 143, 14360-14366.	6.6	19
70	A Phosphorus Analogue of Quinodimethane with a Planar P ₄ Ring: A Metal-Free Diphosphorus Source. <i>Chemistry - A European Journal</i> , 2019, 25, 3244-3247.	1.7	18
71	Novel quantum mechanical/molecular mechanical method combined with the theory of energy representation: Free energy calculation for the Beckmann rearrangement promoted by proton transfers in the supercritical water. <i>Journal of Chemical Physics</i> , 2007, 126, 084508.	1.2	16
72	Quantum Master Equation Method Based on the Broken-Symmetry Time-Dependent Density Functional Theory: Application to Dynamic Polarizability of Open-Shell Molecular Systems. <i>Journal of Physical Chemistry A</i> , 2011, 115, 3565-3575.	1.1	16

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73	Cooperative effects in static polarizabilities and second hyperpolarizabilities of hydrogen-bonded 4-pyridones. <i>Chemical Physics Letters</i> , 2008, 454, 91-96.	1.2	15
74	Computation of the reduction free energy of coenzyme in aqueous solution by the QM/MM-ER method. <i>Chemical Physics Letters</i> , 2008, 456, 176-180.	1.2	15
75	Comparative study of diradical characters and third-order nonlinear optical properties of linear/cyclic acenes versus phenylenes. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 592-598.	1.0	15
76	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.	1.7	14
77	Quantum Master Equation Approach to the Second Hyperpolarizability of Nanostar Dendritic Systems. <i>Journal of Physical Chemistry B</i> , 2005, 109, 7631-7636.	1.2	13
78	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.	1.2	13
79	One- and two-photon absorptions in open-shell singlet systems. <i>AIP Conference Proceedings</i> , 2012, , .	0.3	13
80	Benzenorcorrole Ni ^{II} Complexes: Enhancement of Paratropic Ring Current and Singlet Diradical Character by Benzo-Fusion. <i>Angewandte Chemie</i> , 2018, 130, 2231-2235.	1.6	13
81	Theoretical Study on Exciton Recurrence Motion in Anthracene Dimer Using the Ab Initio MO-Cl Based Quantum Master Equation Approach. <i>Journal of Physical Chemistry A</i> , 2009, 113, 5455-5462.	1.1	12
82	Theoretical Study on Exciton Dynamics in Dendritic Systems: Exciton Recurrence and Migration. <i>Molecules</i> , 2009, 14, 3700-3718.	1.7	11
83	A Puckered Singlet Cyclopentane-1,3-diyl: Detection of the Third Isomer in Homolysis. <i>Chemistry - A European Journal</i> , 2016, 22, 2299-2306.	1.7	11
84	Monte Carlo Wavefunction Approach to Singlet Fission Dynamics of Molecular Aggregates. <i>Molecules</i> , 2019, 24, 541.	1.7	11
85	Core molecule dependence of energy migration in phenylacetylene nanostar dendrimers: Ab initio molecular orbital configuration interaction based quantum master equation study. <i>Journal of Chemical Physics</i> , 2008, 128, 244306.	1.2	10
86	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.	1.2	10
87	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, 8700-8707.	1.9	10
88	Characterization of Benzo[<i>a</i>]naphtho[2,3- <i>f</i>]pentalene: Interrelation between Open-Shell and Antiaromatic Characters Governed by Mode of the Quinoidal Subunit and Molecular Symmetry. <i>Chemistry - an Asian Journal</i> , 2021, 16, 1553-1561.	1.7	10
89	Exciton recurrence motion in aggregate systems in the presence of quantized optical fields. <i>Journal of Chemical Physics</i> , 2006, 125, 234707.	1.2	9
90	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.	1.2	9

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91	Quantal cumulant mechanics and dynamics for multidimensional quantum many-body clusters. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 348-355.	1.0	9
92	Open-shell characters and second hyperpolarizabilities for hexagonal graphene nanoflakes including boron nitride domains. <i>Chemical Physics Letters</i> , 2014, 595-596, 220-225.	1.2	9
93	A novel dynamic exciton expression based on the ab initio MO CI based quantum master equation approach. <i>Chemical Physics Letters</i> , 2008, 460, 370-374.	1.2	8
94	Hydration effects on the reaction with an open-shell transition state: QM/MM-ER study for the dehydration reaction of alcohol in hot water. <i>Journal of Mathematical Chemistry</i> , 2009, 46, 781-794.	0.7	8
95	Theoretical Study on Open-shell Singlet Character and Second Hyperpolarizabilities in Cofacial π -Stacked Dimers Composed of Weak Open-shell Antiaromatic Porphyrins. <i>ChemPhysChem</i> , 2018, 19, 2863-2871.	1.0	8
96	Exciton dynamics in nanostar dendritic systems using a quantum master equation approach: core monomer effects and possibility of energy transport control. <i>Journal of Luminescence</i> , 2005, 111, 359-366.	1.5	7
97	Control of third-order nonlinear optical properties of singlet diradical square planar metal complexes involving o-semiquinonato type ligands. <i>Synthetic Metals</i> , 2009, 159, 2416-2418.	2.1	7
98	Open-shell Characters, Aromaticities and Third-Order Nonlinear Optical Properties of Carbon Nanobelts Composed of Five- and Six-Membered Rings. <i>Asian Journal of Organic Chemistry</i> , 2018, 7, 2320-2329.	1.3	7
99	Ultrafast Exciton Self-Trapping and Delocalization in Cycloparaphenylenes: The Role of Excited-State Symmetry in Electron-Vibrational Coupling. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16989-16996.	7.2	7
100	Dianion and Dication of Tetracyclopentatetraphenylene as Decoupled Annulene within an Annulene Models. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	7
101	Second-order Monte Carlo wave-function approach to the relaxation effects on ringing revivals in a molecular system interacting with a strongly squeezed coherent field. <i>Physical Review A</i> , 2004, 70, .	1.0	6
102	Theoretical Study on Static Second Hyperpolarizabilities for Several π -Conjugated Systems Including Nitrogen Atoms: Effects of Charged Defects and Extension of π -Conjugation. <i>Journal of Physical Chemistry A</i> , 2004, 108, 4151-4155.	1.1	6
103	Monte Carlo wavefunction approach to the exciton dynamics of molecular aggregates with exciton-phonon coupling. <i>Chemical Physics Letters</i> , 2006, 419, 70-74.	1.2	6
104	The Exchange-Energy Density Functional Based on the Modified Becke-Roussel Model. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 647-661.	2.3	6
105	Theoretical study on the gigantic effect of external static electric field application on the nonlinear optical properties of 1,2,3,5-dithiadiazolyl π -radical dimers. <i>Materials Chemistry Frontiers</i> , 2018, 2, 785-790.	3.2	6
106	Theoretical study on aromatic and open-shell characteristics of carbon nanobelts composed of indeno[1,2- <i>b</i>]fluorene units: dependence on the number of units and charge states. <i>RSC Advances</i> , 2020, 10, 25736-25745.	1.7	6
107	Monte Carlo wave-function approach to the quantum-phase dynamics of a dissipative molecular system interacting with a single-mode amplitude-squeezed field. <i>Journal of Chemical Physics</i> , 2003, 119, 12106-12118.	1.2	5
108	Molecular orientation effects on two-photon absorption spectra of dimer systems. <i>Chemical Physics Letters</i> , 2007, 448, 99-105.	1.2	5

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109	Quantum Master Equation Approach to Exciton Recurrence Motion in Ring-Shaped Aggregate Complexes Induced by Linear- and Circular-Polarized Laser Fields. <i>Journal of Physical Chemistry C</i> , 2009, 113, 3332-3338.	1.5	5
110	The QM/MM studies for the origin of the antioxidative properties of MCl ₄ in aqueous solutions. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 1748-1762.	1.0	5
111	Generation of Aromatic (Dehydro)benzoannulene Dications Stabilized by Platinum Catecholate Complexes. <i>ChemPlusChem</i> , 2017, 82, 1052-1056.	1.3	5
112	Synthesis and properties of hypervalent electron-rich pentacoordinate nitrogen compounds. <i>Chemical Science</i> , 2020, 11, 5082-5088.	3.7	5
113	THEORETICAL STUDY ON THE SECOND HYPERPOLARIZABILITY (β^3) OF A HOMOGENEOUS MOLECULE IN THE BOND DISSOCIATION PROCESS: ENHANCEMENT OF β^3 IN THE INTERMEDIATE CORRELATION REGIME. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2004, 13, 411-416.	1.1	4
114	Theoretical study on two-photon absorption for symmetric molecular systems composed of charged groups linked with a π -conjugated bridge. <i>Synthetic Metals</i> , 2005, 154, 181-184.	2.1	4
115	Exciton Dynamics of Molecular Aggregate Systems Composed of Triangular Lattice Units: Structural Dependence of Exciton Migration and Recurrence. <i>Journal of Physical Chemistry C</i> , 2008, 112, 16675-16681.	1.5	4
116	Development of Calculation and Analysis Methods for the Dynamic First Hyperpolarizability Based on the Ab Initio Molecular Orbital "Quantum Master Equation Method. <i>Journal of Physical Chemistry A</i> , 2012, 116, 4371-4380.	1.1	4
117	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.	1.0	4
118	Theoretical design of solvatochromism switching by photochromic reactions using donor-acceptor disubstituted diarylethene derivatives with oxidized thiophene rings. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 6484-6494.	1.3	4
119	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.	0.9	4
120	Third-Order Nonlinear Optical Properties of One-Dimensional Quinoidal Oligothiophene Derivatives Involving Phenoxy Groups. <i>ChemistryOpen</i> , 2017, 6, 506-513.	0.9	4
121	Tunability of Open-Shell Character, Charge Asymmetry, and Third-Order Nonlinear Optical Properties of Covalently Linked (Hetero)Phenaleny Dimers. <i>Chemistry - A European Journal</i> , 2018, 24, 1913-1921.	1.7	4
122	Ultrafast Exciton Self-Trapping and Delocalization in Cycloparaphenylenes: The Role of Excited-State Symmetry in Electron-Vibrational Coupling. <i>Angewandte Chemie</i> , 2020, 132, 17137-17144.	1.6	4
123	Third-order nonlinear optical properties of open-shell singlet molecular aggregates composed of diphenalenyl diradicals. <i>Synthetic Metals</i> , 2009, 159, 2413-2415.	2.1	3
124	Antidot effects on the open-shell characters and second hyperpolarizabilities of rectangular graphene nanoflakes. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 605-611.	1.0	3
125	Theoretical Study on the Open-Shell Singlet Nature and the Second Hyperpolarizabilities of Corannulene Derivatives with Two Phenoxy Radicals. <i>Journal of Physical Chemistry A</i> , 2017, 121, 4171-4179.	1.1	3
126	Theoretical Study on Third-Order Nonlinear Optical Properties for One-Hole-Doped Diradicaloids. <i>ACS Omega</i> , 2021, 6, 3046-3059.	1.6	3

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127	Theoretical Study on Open-Shell Nonlinear Optical Systems. Materials Research Society Symposia Proceedings, 2004, 846, DD1.4.1.	0.1	2
128	Static Polarizabilities ($\hat{\alpha}$) and Second Hyperpolarizabilities ($\hat{\beta}$) of One-Dimensional Hydrogen-Bonded Formamides. Computing Letters, 2007, 3, 251-256.	0.5	2
129	Ab initio MO-CI based quantum master equation approach: Exciton dynamics of weakly and strongly coupled J-type aggregates. Synthetic Metals, 2009, 159, 2194-2197.	2.1	2
130	Electron donor solvent effects on the (Hyper) polarizabilities of a solute presenting singlet diradical character. AIP Conference Proceedings, 2012, , .	0.3	2
131	Quantum-phase dynamics of two-component Bose-Einstein condensates: Collapse-revival of macroscopic superposition states. Physica B: Condensed Matter, 2005, 370, 110-120.	1.3	1
132	A proposal of spin-and charge-modulated open-shell nonlinear optical systems. Synthetic Metals, 2005, 154, 309-312.	2.1	1
133	Theoretical Study on the Polarizabilities of Molecules in Solution by the Quantum Mechanical/Molecular Mechanical Approach: Comparison with the Polarizable Continuum Model. Computing Letters, 2007, 3, 441-448.	0.5	1
134	THEORETICAL STUDY ON OPEN-SHELL NONLINEAR OPTICAL MOLECULAR SYSTEMS AND A DEVELOPMENT OF A NOVEL COMPUTATIONAL SCHEME OF EXCITON DYNAMICS. International Journal of Nanoscience, 2009, 08, 123-129.	0.4	1
135	Finite-field method with unbiased polarizable continuum model for evaluation of the second hyperpolarizability of an open-shell singlet molecule in solvents. Journal of Computational Chemistry, 2013, 34, 2345-2352.	1.5	1
136	A Tale of Two Isomers: Enhanced Antiaromaticity/Diradical Character versus Deleterious Ring-Opening of Benzofuran-fused β -indacenes and Dicyclopenta[b , g]naphthalenes. Angewandte Chemie, 2021, 133, 22559-22566.	1.6	1
137	AB INITIO STUDY ON NONLINEAR OPTICAL PROPERTIES FOR SMALL DENDRITIC MOLECULES. Journal of Nonlinear Optical Physics and Materials, 2004, 13, 417-422.	1.1	0
138	Theoretical study on the second hyperpolarizabilities of tetrathiafulvalene (TTF) and tetrathiapentalene (TTP) using highly correlated ab initio MO and the density functional theory methods. Synthetic Metals, 2006, 156, 375-378.	2.1	0
139	Intermolecular interaction effects on second hyperpolarizabilities of clusters including charged species. Journal of Computational Methods in Sciences and Engineering, 2006, 6, 211-222.	0.1	0
140	Second Hyperpolarizabilities ($\hat{\beta}$) of 1,3-Dipole Systems: Diradical Character Dependence of $\hat{\beta}$. AIP Conference Proceedings, 2007, , .	0.3	0
141	Spin State Dependence of Second Hyperpolarizabilities of Zethrenes. AIP Conference Proceedings, 2008, , .	0.3	0
142	Computation of the Reduction Free Energy of Coenzyme in Water: A Novel Approach within the Framework of the QM-MM-ER Method. AIP Conference Proceedings, 2008, , .	0.3	0
143	A Novel Quantum Chemical Approach to the Computation of the Solvation Free Energy of a Biological Molecule with Structural Flexibility. , 2009, , .		0
144	Third-Order Nonlinear Optical Properties of Open-Shell Systems: Diradical Character and Spin State Dependences. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
145	Quantum Master Equation Approach to Exciton Recurrence Motion in a Ring-Shaped Aggregate Complex Induced by Circular-Polarized Laser Field. , 2009, , .		0
146	Exciton Recurrence Motion in Double-Ring Molecular Aggregates Induced by Two-Mode Circular-Polarized Laser Field. Journal of Physical Chemistry C, 2010, 114, 6067-6076.	1.5	0
147	Broken-symmetry MO-CI quantum master equation approach to exciton dynamics in open-shell singlet systems. , 2012, , .		0
148	Long-range-corrected UDFT study on second hyperpolarizabilities of open-shell singlet systems. , 2012, , .		0
149	Theoretical aspects on the evaluation and interpretation of the third-order nonlinear optical properties of diradical compounds. , 2012, , .		0
150	Oscillatory and rotatory exciton recurrence motions in double-ring molecular aggregates controlled by two-mode circular-polarized laser field. , 2012, , .		0
151	Å½ctitelbild: Indeno[2,1-b]fluorene: A 20-Ë-Electron Hydrocarbon with Very Low-Energy Light Absorption (Angew. Chem. 23/2013). Angewandte Chemie, 2013, 125, 6228-6228.	1.6	0
152	Frontispiece: Evaluation of Aromaticity for Open-Shell Singlet Dicyclopenta-Fused Acenes and Polyacenes Based on a Magnetically Induced Current. Chemistry - A European Journal, 2018, 24, .	1.7	0
153	Innentitelbild: Dianion and Dication of Tetracyclopentatetraphenylene as Decoupled Annuleneâ€withinâ€anâ€Annulene Models (Angew. Chem. 6/2022). Angewandte Chemie, 2022, 134, .	1.6	0
154	Dianion and Dication of Tetracyclopentatetraphenylene as Decoupled Annuleneâ€withinâ€anâ€Annulene Models. Angewandte Chemie, 2022, 134, .	1.6	0
155	Medium Diradical Character, Small Hole and Electron Reorganization Energies and Ambipolar Transistors in Difluorenoheteroles. Angewandte Chemie, 0, , .	1.6	0