Koen Clays

List of Publications by Year
in descending order

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410 papers	15,419 citations	15504 65 h-index	27406 106 g-index
423 all docs	423 docs citations	423 times ranked	9837 citing authors

#	Article	IF	Citations
1	Hyper-Rayleigh scattering in solution. Physical Review Letters, 1991, 66, 2980-2983.	7.8	949
2	Second-order nonlinear optical materials: recent advances in chromophore design. Journal of Materials Chemistry, 1997, 7, 2175-2189.	6.7	584
3	Hyperâ€Rayleigh scattering in solution. Review of Scientific Instruments, 1992, 63, 3285-3289.	1.3	471
4	Hyper-Rayleigh Scattering in Isotropic Solution. Accounts of Chemical Research, 1998, 31, 675-683.	15.6	225
5	Quadratic Nonlinear Optical Properties ofN-Aryl Stilbazolium Dyes. Advanced Functional Materials, 2002, 12, 110-116.	14.9	218
6	Fabrication of 3D Photonic Crystals of Ellipsoids: Convective Selfâ€Assembly in Magnetic Field. Advanced Materials, 2009, 21, 1936-1940.	21.0	215
7	Investigations of the Hyperpolarizability in Organic Molecules from Dipolar to Octopolar Systems. Journal of the American Chemical Society, 1994, 116, 9320-9323.	13.7	208
8	High-frequency demodulation of multi-photon fluorescence in hyper-Rayleigh scattering. Review of Scientific Instruments, 1998, 69, 2233-2241.	1.3	204
9	Design, Synthesis, Linear, and Nonlinear Optical Properties of Conjugated (Porphinato)zinc(II)-Based Donorâ^'Acceptor Chromophores Featuring Nitrothiophenyl and Nitrooligothiophenyl Electron-Accepting Moieties. Journal of the American Chemical Society, 2005, 127, 9710-9720.	13.7	192
10	Supramolecular Second-Order Nonlinearity of Polymers with Orientationally Correlated Chromophores. Science, 1995, 270, 966-969.	12.6	180
11	Quadratic Optical Nonlinearities of N-Methyl and N-Aryl Pyridinium Salts. Advanced Functional Materials, 2003, 13, 347-357.	14.9	161
12	Instantaneous, Simple, and Reversible Revealing of Invisible Patterns Encrypted in Robust Hollow Sphere Colloidal Photonic Crystals. Advanced Materials, 2018, 30, e1707246.	21.0	159
13	Linear and Nonlinear Optical Properties of Colloidal Photonic Crystals. Chemical Reviews, 2012, 112, 2268-2285.	47.7	158
14	Unusual Frequency Dispersion Effects of the Nonlinear Optical Response in Highly Conjugated (Polypyridyl)metalâ^'(Porphinato)zinc(II) Chromophores. Journal of the American Chemical Society, 2002, 124, 13806-13813.	13.7	155
15	Switching of molecular second-order polarisability in solution. Journal of Materials Chemistry, 2004, 14, 2831.	6.7	153
16	Nonlinear Optical Properties of Proteins Measured by Hyper-Rayleigh Scattering in Solution. Science, 1993, 262, 1419-1422.	12.6	151
17	Ordering and optical properties of monolayers and multilayers of silica spheres deposited by the Langmuirâ€“Blodgett method. Journal of Materials Chemistry, 2002, 12, 3268-3274.	6.7	148
18	The Bacteriorhodopsin Chromophore Retinal and Derivatives: An Experimental and Theoretical Investigation of the Second-Order Optical Properties. Journal of the American Chemical Society, 1995, 117, 3547-3555.	13.7	143

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19	Redox-Switching of Nonlinear Optical Behavior in Langmuirâ"Blodgett Thin Films Containing a Ruthenium(II) Ammine Complex. Journal of the American Chemical Society, 2008, 130, 3286-3287.	13.7	139
20	Amphiphilic Porphyrins for Second Harmonic Generation Imaging. Journal of the American Chemical Society, 2009, 131, 2758-2759.	13.7	134
21	Highly Unusual Effects of Ï€-Conjugation Extension on the Molecular Linear and Quadratic Nonlinear Optical Properties of Ruthenium(II) Ammine Complexes. Journal of the American Chemical Society, 2003, 125, 862-863.	13.7	133
22	A Molecular Multiproperty Switching Array Based on the Redox Behavior of a Ferrocenyl Polychlorotriphenylmethyl Radical. Angewandte Chemie - International Edition, 2004, 43, 5266-5268.	13.8	133
23	Syntheses and Properties of Two-Dimensional Charged Nonlinear Optical Chromophores Incorporating Redox-Switchablecis-Tetraammineruthenium(II) Centers. Journal of the American Chemical Society, 2005, 127, 4845-4859.	13.7	131
24	X-Shaped Electro-optic Chromophore with Remarkably Blue-Shifted Optical Absorption. Synthesis, Characterization, Linear/Nonlinear Optical Properties, Self-Assembly, and Thin Film Microstructural Characteristics. Journal of the American Chemical Society, 2006, 128, 6194-6205.	13.7	131
25	Design Strategies versus Limiting Theory for Engineering Large Second-Order Nonlinear Optical Polarizabilities in Charged Organic Molecules. Chemistry of Materials, 2003, 15, 642-648.	6.7	128
26	Three-Dimensional Nonlinear Optical Chromophores Based on Metal-to-Ligand Charge-Transfer from Ruthenium(II) or Iron(II) Centers. Journal of the American Chemical Society, 2005, 127, 13399-13410.	13.7	128
27	Novel Chiral Bis-dipolar 6,6â€˜-Disubstituted Binaphthol Derivatives for Second-Order Nonlinear Optics:Â Synthesis and Linear and Nonlinear Optical Properties. Journal of the American Chemical Society, 1996, 118, 6841-6852.	13.7	118
28	Hyper-Rayleigh scattering investigation of nitrobenzyl pyridine model compounds for optical modulation of the hyperpolarisability. Chemical Physics Letters, 1996, 258, 485-489.	2.6	116
29	Electrochemical, Spectroelectrochemical, and Molecular Quadratic and Cubic Nonlinear Optical Properties of Alkynylruthenium Dendrimers1. Journal of the American Chemical Society, 2006, 128, 10819-10832.	13.7	115
30	Dyes for biological second harmonic generation imaging. Physical Chemistry Chemical Physics, 2010, 12, 13484.	2.8	113
31	Molecular Engineering of Benzothiazolium Salts with Large Quadratic Hyperpolarizabilities: Can Auxiliary Electron-Withdrawing Groups Enhance Nonlinear Optical Responses?. Journal of Physical Chemistry C, 2010, 114, 22289-22302.	3.1	111
32	Solvent Effects on the Second-Order Nonlinear Optical Response of .pi.-Conjugated Molecules: A Combined Evaluation through Self-Consistent Reaction Field Calculations and Hyper-Rayleigh Scattering Measurements. Journal of the American Chemical Society, 1995, 117, 10127-10128.	13.7	110
33	In situ reversible electrochemical switching of the molecular first hyperpolarizability. Chemical Physics Letters, 2003, 368, 408-411.	2.6	110
34	Reversible switching of the first hyperpolarisability of an NLO-active donorâ€"acceptor molecule based on redox interconversion of the octamethylferrocene donor unit. Chemical Communications, 2001, , 49-50.	4.1	109
35	Syntheses and Quadratic Nonlinear Optical Properties of Salts Containing Benzothiazolium Electron-Acceptor Groups. Chemistry of Materials, 2006, 18, 5907-5918.	6.7	108
36	Insertion of a Two-Dimensional Cavity into a Self-Assembled Colloidal Crystal. Langmuir, 2003, 19, 4465-4468.	3.5	106

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37	Syntheses and Spectroscopic and Quadratic Nonlinear Optical Properties of Extended Dipolar Complexes with Ruthenium(II) Ammine Electron Donor andN-Methylpyridinium Acceptor Groups. Journal of the American Chemical Society, 2004, 126, 3880-3891.	13.7	99
38	Ultrahigh Electro-Optic Coefficients, High Index of Refraction, and Long-Term Stability from Dielsâ€“Alder Cross-Linkable Binary Molecular Glasses. Chemistry of Materials, 2020, 32, 1408-1421.	6.7	98
39	Interactions of twisted light with chiral molecules: An experimental investigation. Physical Review A, 2005, 71, .	2.5	97
40	Diquat Derivatives: Highly Active, Two-Dimensional Nonlinear Optical Chromophores with Potential Redox Switchability. Journal of the American Chemical Society, 2010, 132, 10498-10512.	13.7	94
41	High-frequency demodulation of multiphoton fluorescence in long-wavelength hyper-Rayleigh scattering. Optics Letters, 1999, 24, 403.	3.3	93
42	Determination of the hyperpolarizability of an octopolar molecular ion by hyper-Rayleigh scattering. Optics Letters, 1993, 18, 525.	3.3	90
43	Why hyperpolarizabilities fall short of the fundamental quantum limits. Journal of Chemical Physics, 2004, 121, 7932.	3.0	88
44	Donating Strength of Azulene in Various Azulen-1-yl-Substituted Cationic Dyes:Â Application in Nonlinear Optics. Chemistry of Materials, 2004, 16, 3543-3551.	6.7	88
45	Green-to-Red Photoconvertible Dronpa Mutant for Multimodal Super-resolution Fluorescence Microscopy. ACS Nano, 2014, 8, 1664-1673.	14.6	87
46	Large Second-Order Nonlinear Optical Properties of Novel Organometallic (Ïƒ-Arylâˆ’enynyl)ruthenium Complexes. Organometallics, 1996, 15, 5266-5268.	2.3	82
47	Evolution of Linear Absorption and Nonlinear Optical Properties in V-Shaped Ruthenium(II)-Based Chromophores. Journal of the American Chemical Society, 2010, 132, 1706-1723.	13.7	82
48	Interchromophoric Interactions in Chiral X-type Ï€-Conjugated Oligomers: A Linear and Nonlinear Optical Study. Journal of the American Chemical Society, 2011, 133, 1317-1327.	13.7	82
49	Expression-Enhanced Fluorescent Proteins Based on Enhanced Green Fluorescent Protein for Super-resolution Microscopy. ACS Nano, 2015, 9, 9528-9541.	14.6	82
50	A convenient procedure for the synthesis of tetrathia-[7]-helicene and the selective Î±-functionalisation of terminal thiophene ring. Tetrahedron, 2003, 59, 6481-6488.	1.9	81
51	Hyperâ€Rayleigh scattering in solution with tunable femtosecond continuousâ€wave laser source. Review of Scientific Instruments, 1994, 65, 2190-2194.	1.3	80
52	Length-Dependent Convergence and Saturation Behavior of Electrochemical, Linear Optical, Quadratic Nonlinear Optical, and Cubic Nonlinear Optical Properties of Dipolar Alkynylruthenium Complexes with Oligo(phenyleneethynylene) Bridges. Journal of the American Chemical Society, 2009, 131, 10293-10307.	13.7	80
53	Synthesis and linear/nonlinear optical properties of a new class of â€˜RHSâ€™ NLO chromophore. Journal of Materials Chemistry, 2004, 14, 1321-1330.	6.7	78
54	Two-dimensional ordering of StÃ¶ber silica particles at the air/water interface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 227, 77-83.	4.7	77

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55	The fabrication of photonic band gap materials with a two-dimensional defect. Applied Physics Letters, 2003, 82, 3764-3766.	3.3	76
56	Modulated conjugation as a means for attaining a record high intrinsic hyperpolarizability. Optics Letters, 2007, 32, 59.	3.3	75
57	Fourier analysis of the femtosecond hyper-Rayleigh scattering signal from ionic fluorescent hemicyanine dyes. Journal of the Optical Society of America B: Optical Physics, 2000, 17, 256.	2.1	71
58	Reversible switching of molecular second-order nonlinear optical polarizability through proton-transfer. Chemical Physics Letters, 2002, 364, 279-283.	2.6	71
59	Ferrocene chromophores continue to inspire. Fine-tuning and switching of the second-order nonlinear optical response. Coordination Chemistry Reviews, 2017, 343, 185-219.	18.8	71
60	Modulated Conjugation as a Means of Improving the Intrinsic Hyperpolarizability. Journal of the American Chemical Society, 2009, 131, 5084-5093.	13.7	70
61	Optical properties and orientation of arrays of polystyrene spheres deposited using convective self-assembly. Journal of Chemical Physics, 2003, 118, 10752-10757.	3.0	68
62	Tailoring planar defect in three-dimensional colloidal crystals. Chemical Physics Letters, 2006, 422, 251-255.	2.6	68
63	Versatile optical materials: fluorescence, non-linear optical and mesogenic properties of selected 2-pyrazoline derivatives. Journal of Materials Chemistry, 1998, 8, 1725-1730.	6.7	67
64	Synthesis and Second-Order Nonlinear Optical Properties of Donorâ^'Acceptor Ïƒ-Alkynyl and Ïƒ-Enynyl Indenylruthenium(II) Complexes. X-ray Crystal Structures of [Ru{Câ‹®CCHC(C6H4NO2-3)2}(Î·5-C9H7)(PPh3)2] and (ÉE)-[Ru{Câ‹®C(CHCH)2-C6H4NO2-4}(Î·5-C9H7)(PPh3)2]. Organometallics, 1999, 18, 582-597.	2.3	66
65	Second-Harmonic Generation in GFP-like Proteins. Journal of the American Chemical Society, 2008, 130, 15713-15719.	13.7	66
66	Second-Order Nonlinear Optical Properties of the Four Tetranitrotetrapropoxycalix[4]arene Conformers. Journal of the American Chemical Society, 1998, 120, 7875-7883.	13.7	64
67	Hyper-Rayleigh scattering in the Fourier domain for higher precision: Correcting for multiphoton fluorescence with demodulation and phase data. Review of Scientific Instruments, 2001, 72, 3215-3220.	1.3	64
68	Pentacyanoiron(II) as an Electron Donor Group for Nonlinear Optics:Â Medium-Responsive Properties and Comparisons with Related Pentaammineruthenium(II) Complexes. Journal of the American Chemical Society, 2006, 128, 12192-12204.	13.7	64
69	Novel columnar mesogen with octupolar optical nonlinearities: synthesis, mesogenic behavior and multiphoton-fluorescence-free hyperpolarizabilities of subphthalocyanines with long aliphatic chainsâ€. Chemical Communications, 1999, , 1661-1662.	4.1	62
70	Azulenylium and guaiazulenylium cations as novel accepting moieties in extended sesquifulvalene type Dâ€“Ï€â€“A NLO chromophoresâ€Šâ€. Dalton Transactions RSC, 2001, , 29-36.	2.3	62
71	Enhancement of the molecular hyperpolarizability by a supramolecular amyloseâ€“dye inclusion complex, studied by hyper-Rayleigh scattering with fluorescence suppression. Chemical Physics Letters, 1998, 293, 337-342.	2.6	61
72	Combining Very Large Quadratic and Cubic Nonlinear Optical Responses in Extended, Tris-Chelate Metallochromophores with Six Ï€-Conjugated Pyridinium Substituents. Journal of the American Chemical Society, 2010, 132, 3496-3513.	13.7	61

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73	Hyper-Rayleigh scattering studies of an ionic species Solvent effect on hyperpolarizability of 1-anilinonaphthalene-8-sulfonic acid ammonium salt. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 3039-3044.	1.7	60
74	Organometallic Complexes for Nonlinear Optics. 28.1Dimensional Evolution of Quadratic and Cubic Optical Nonlinearities in Stilbenylethynylruthenium Complexes. Organometallics, 2002, 21, 2024-2026.	2.3	60
75	Molecular engineering of chromophores for combined second-harmonic and two-photon fluorescence in cellular imaging. Chemical Science, 2012, 3, 984.	7.4	60
76	Helquat Dyes: Helicene-like Pushâ€“Pull Systems with Large Second-Order Nonlinear Optical Responses. Journal of Organic Chemistry, 2016, 81, 1912-1920.	3.2	60
77	Controlling the Fluorescence Resonant Energy Transfer by Photonic Crystal Band Gap Engineering. Chemistry of Materials, 2007, 19, 5547-5552.	6.7	59
78	Molecular Symmetry and Solutionâ€Phase Structure Interrogated by Hyperâ€Rayleigh Depolarization Measurements: Elaborating Highly Hyperpolarizable D₂â€Symmetric Chromophores. Angewandte Chemie - International Edition, 2008, 47, 2978-2981.	13.8	59
79	Theoretical Design of Substituted Tetrathia-[7]-Helicenes with Large Second-Order Nonlinear Optical Responses. ChemPhysChem, 2004, 5, 1438-1442.	2.1	58
80	Nonlinear Optical Properties of Correlated Chromophores in Organic Mesoscopic Superstructures. Advanced Materials, 1998, 10, 643-655.	21.0	57
81	Experimental study of the second-order non-linear optical properties of tetrathia-[7]-helicene. Chemical Physics Letters, 2003, 372, 438-442.	2.6	57
82	Study on novel second-order NLO azo-based chromophores containing strong electron-withdrawing groups and different conjugated bridges. Journal of Materials Science, 2004, 39, 2335-2340.	3.7	57
83	Substituted 4,4â€²-Stilbenoid NCN-Pincer Platinum(II) Complexes. Luminescence and Tuning of the Electronic and NLO Properties and the Application in an OLED. Organometallics, 2008, 27, 1690-1701.	2.3	56
84	Predicting the Frequency Dispersion of Electronic Hyperpolarizabilities on the Basis of Absorption Data and Thomasâ€“Kuhn Sum Rules. Journal of Physical Chemistry C, 2010, 114, 2349-2359.	3.1	56
85	Engineering Tuneable Light-Harvesting Systems with Oligothiophene Donors and Mono- or Bis-Bodipy Acceptors. Journal of Organic Chemistry, 2008, 73, 1563-1566.	3.2	55
86	Computational de Novo Design and Characterization of a Protein That Selectively Binds a Highly Hyperpolarizable Abiological Chromophore. Journal of the American Chemical Society, 2013, 135, 13914-13926.	13.7	55
87	Symmetrical and Nonsymmetrical Chromophores with TrÃ¶gerâ€™s Base Skeleton: Chiroptical, Linear, and Quadratic Nonlinear Optical Propertiesâ€”A Joint Theoretical and Experimental Study. Chemistry - A European Journal, 2010, 16, 8181-8190.	3.3	54
88	The Roles of Molecular Structure and Effective Optical Symmetry in Evolving Dipolar Chromophoric Building Blocks to Potent Octopolar Nonlinear Optical Chromophores. Journal of the American Chemical Society, 2011, 133, 2884-2896.	13.7	54
89	Improving the Second-Order Nonlinear Optical Response of Fluorescent Proteins: The Symmetry Argument. Journal of the American Chemical Society, 2013, 135, 4061-4069.	13.7	54
90	Hyper-Rayleigh scattering of neutral and charged helicenes. Chemical Physics Letters, 2005, 412, 274-279.	2.6	53

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91	Highly ordered films of neat calix[4]arenes for second order nonlinear optics. Advanced Materials, 1993, 5, 925-930.	21.0	51
92	DonorÃ¢â‚¬â€œacceptor complexes incorporating ferrocenes: spectroelectrochemical characterisation, quadratic hyperpolarisabilities and the effects of oxidising and reducing agents. Dalton Transactions RSC, 2001, , 3025-3038.	2.3	51
93	Thermally stable ferrocenyl â€œpushâ€“pullâ€•chromophores with tailorable and switchable second-order non-linear optical response: synthesis and structureâ€“property relationship. Journal of Materials Chemistry, 2012, 22, 10597.	6.7	51
94	Second-order nonlinear optics in isotropic liquids: Hyper-Rayleigh scattering in solution. Journal of Molecular Liquids, 1995, 67, 133-155.	4.9	50
95	Liquid Crystals fromC3-Symmetric Mesogens for Second-Order Nonlinear Optics. Angewandte Chemie - International Edition, 2006, 45, 4203-4206.	13.8	50
96	Electroâ€Optic Activity in Excess of 1000 pm V^{â^'1} Achieved via Theoryâ€Guided Organic Chromophore Design. Advanced Materials, 2021, 33, e2104174.	21.0	49
97	Influence of Monomer Optical Purity on the Conformation and Properties of Chiral, Donor-Embedded Polybinaphthalenes for Nonlinear Optical Purposes. Chemistry of Materials, 2005, 17, 118-121.	6.7	48
98	Large Hyperpolarizabilities at Telecommunication-Relevant Wavelengths in Donorâ€“Acceptorâ€“Donor Nonlinear Optical Chromophores. ACS Central Science, 2016, 2, 954-966.	11.3	48
99	Tuning Octopolar NLO Chromophores:Â Synthesis and Spectroscopic Characterization of Persubstituted 1,3,5-Tris(ethynylphenyl)benzenes. Journal of Organic Chemistry, 2004, 69, 5077-5081.	3.2	47
100	Two-Dimensional, Pyrazine-Based Nonlinear Optical Chromophores with Ruthenium(II) Ammine Electron Donors. Inorganic Chemistry, 2010, 49, 10718-10726.	4.0	47
101	Organometallic complexes for nonlinear optics. Part 29. Quadratic and cubic hyperpolarizabilities of stilbenylethynylâ€“gold and -ruthenium complexes. Inorganica Chimica Acta, 2003, 350, 62-76.	2.4	46
102	Proton-Triggered Octopolar NLO Chromophores. Journal of Physical Chemistry A, 2006, 110, 6271-6275.	2.5	45
103	Quadratic nonlinear optical properties of correlated chromophores: cyclic 6,6â€²-dinitro-1,1â€²-binaphthyl-2,2â€²-ethers. Chemical Physics Letters, 1997, 270, 241-244.	2.6	44
104	Nonlinear Optical and Related Properties of Iron(II) Pentacyanide Complexes with Quaternary Nitrogen Electron Acceptor Units. Inorganic Chemistry, 2009, 48, 1370-1379.	4.0	44
105	Giant Faraday Rotation in Mesogenic Organic Molecules. Chemistry of Materials, 2013, 25, 1139-1143.	6.7	44
106	Surface morphology changes on silica-coated gold colloids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 322, 225-233.	4.7	43
107	Second-order nonlinear optical properties of fluorescent proteins for second-harmonic imaging. Journal of Materials Chemistry, 2009, 19, 7514.	6.7	42
108	The syntheses, structures and nonlinear optical and related properties of salts with julolidinyl electron donor groups. Dyes and Pigments, 2009, 82, 171-186.	3.7	41

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109	Thiophene-based dyes for probing membranes. Organic and Biomolecular Chemistry, 2015, 13, 3792-3802.	2.8	41
110	Strong Lightâ€“Matter Coupling as a New Tool for Molecular and Material Engineering: Quantum Approach. Advanced Quantum Technologies, 2018, 1, 1800001.	3.9	41
111	Î›-Type Regioregular Oligothiophenes:Â Synthesis and Second-Order NLO Properties. Journal of Organic Chemistry, 2007, 72, 5855-5858.	3.2	39
112	Alkynyl Expanded Donorâ€“Acceptor Calixarenes: Geometry and Secondâ€Order Nonlinear Optical Properties. Chemistry - A European Journal, 2007, 13, 7753-7761.	3.3	39
113	Synthesis, linear & non linear optical (NLO) properties of some indoline based chromophores. Dyes and Pigments, 2011, 89, 177-187.	3.7	39
114	Synthesis and optical properties of NLO chromophores containing an indoline donor and azo linker. Dyes and Pigments, 2012, 95, 455-464.	3.7	38
115	Dispersion of the complex electro-optic coefficient and electrochromic effects in poled polymer films. Journal of the Optical Society of America B: Optical Physics, 1992, 9, 2274.	2.1	37
116	Bacteriorhodopsin: a natural, efficient (nonlinear) photonic crystal. Journal of the Optical Society of America B: Optical Physics, 2001, 18, 1474.	2.1	37
117	Enhanced poling efficiency in highly thermal and photostable nonlinear optical chromophores. Journal of Materials Chemistry, 2008, 18, 2141.	6.7	37
118	A new dipole-free sum-over-states expression for the second hyperpolarizability. Journal of Chemical Physics, 2008, 128, 084109.	3.0	37
119	Organometallic Complexes for Nonlinear Optics. 43. Quadratic Optical Nonlinearities of Dipolar Alkynylruthenium Complexes with Phenyleneethynylene/Phenylenevinylene Bridges. Inorganic Chemistry, 2009, 48, 3562-3572.	4.0	37
120	Testing Computational Models of Hyperpolarizability in a Merocyanine Dye Using Spectroscopic and DFT Methods. Journal of Physical Chemistry A, 2012, 116, 5453-5463.	2.5	37
121	Wonders of colloidal assembly. Soft Matter, 2013, 9, 9072.	2.7	37
122	The symmetry of functionalized poly(propylene imine) dendrimers probed with hyper-Rayleigh scattering. Chemical Physics Letters, 1996, 260, 136-141.	2.6	36
123	Electronic Modulation of Hyperpolarizable (Porphinato)zinc(II) Chromophores Featuring Ethynylphenyl-, Ethynylthiophenyl-, Ethynylthiazolyl-, and Ethynylbenzothiazolyl-Based Electron-Donating and -Accepting Moieties. Inorganic Chemistry, 2006, 45, 9703-9712.	4.0	36
124	Nonexponential decay of spontaneous emission from an ensemble of molecules in photonic crystals. Physical Review B, 2007, 76, .	3.2	36
125	Quadratic Nonlinear Optical Response in Partially Charged Donor-Substituted Tetrathiafulvalene:Â From a Computational Investigation to a Rational Synthetic Feasibility. Chemistry of Materials, 2007, 19, 805-815.	6.7	36
126	Chargeâ€Transfer State and Large First Hyperpolarizability Constant in a Highly Electronically Coupled Zinc and Gold Porphyrin Dyad. Chemistry - A European Journal, 2009, 15, 9058-9067.	3.3	36

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127	Pushâ€“pull chromophores comprising benzothiazolium acceptor and thiophene auxiliary donor moieties: Synthesis, structure, linear and quadratic non-linear optical properties. Dyes and Pigments, 2009, 81, 203-210.	3.7	36
128	Preparation and characterization of second order non-linear optical properties of new â€œpushâ€“pullâ€• platinum complexes. Dalton Transactions, 2009, , 4538.	3.3	36
129	NLO chromophores containing dihydrobenzothiazolylidene and dihydroquinolinylidene donors with an azo linker: Synthesis and optical properties. Dyes and Pigments, 2013, 98, 82-92.	3.7	36
130	Molecular understanding of label-free second harmonic imaging of microtubules. Nature Communications, 2019, 10, 3530.	12.8	36
131	Tetraalkynyl calix[4]arenes with advanced NLO properties. Chemical Communications, 2005, , 2747.	4.1	35
132	Quadratic and Cubic Nonlinear Optical Properties of Salts of Diquat-Based Chromophores with Diphenylamino Substituents. Journal of Physical Chemistry A, 2010, 114, 12028-12041.	2.5	35
133	Ternary Inverse Opal System for Convenient and Reversible Photonic Bandgap Tuning. Langmuir, 2008, 24, 10519-10523.	3.5	34
134	Photonic Crystals of Oblate Spheroids by Blown Film Extrusion of Prefabricated Colloidal Crystals. Langmuir, 2009, 25, 10218-10222.	3.5	34
135	Syntheses and Properties of Salts of Chromophores with Ferrocenyl Electron Donor Groups and Quaternary Nitrogen Acceptors. Organometallics, 2009, 28, 6880-6892.	2.3	34
136	Molecular Origins of the High-Performance Nonlinear Optical Susceptibility in a Phenolic Polyene Chromophore: Electron Density Distributions, Hydrogen Bonding, and ab Initio Calculations. Journal of Physical Chemistry C, 2013, 117, 9416-9430.	3.1	34
137	Design and synthesis of chromophores with enhanced electro-optic activities in both bulk and plasmonicâ€“organic hybrid devices. Materials Horizons, 2022, 9, 261-270.	12.2	34
138	Multiphoton fluorescence free hyperpolarizabilities of subphthalocyanines. Chemical Physics Letters, 1999, 308, 173-175.	2.6	33
139	Spectral narrowing of emission in self-assembled colloidal photonic superlattices. Journal of Applied Physics, 2006, 100, 123112.	2.5	33
140	Combined molecular and supramolecular bottom-up nanoengineering for enhanced nonlinear optical response: Experiments, modeling, and approaching the fundamental limit. Journal of Chemical Physics, 2007, 126, 074705.	3.0	33
141	Ferrocenyl Diquat Derivatives: Nonlinear Optical Activity, Multiple Redox States, and Unusual Reactivity. Organometallics, 2011, 30, 5731-5743.	2.3	33
142	Donorâ€“acceptor organo-imido polyoxometalates: high transparency, high activity redox-active NLO chromophores. Dalton Transactions, 2016, 45, 2818-2822.	3.3	33
143	Synthesis and Nonlinear Optical Properties of Tetrahedral Octupolar Phthalocyanine-Based Systems. Journal of Physical Chemistry B, 2010, 114, 6309-6315.	2.6	32
144	Synthesis, linear and nonlinear optical properties of thermally stable ferrocene-diketopyrrolopyrrole dyads. RSC Advances, 2015, 5, 84643-84656.	3.6	32

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145	Instrumental and analysis improvements in multifrequency phase fluorometry. Journal of Physics E: Scientific Instruments, 1989, 22, 297-305.	0.7	31
146	Blue and green ÄŒerenkov-type second-harmonic generation in a polymeric Langmuirâ€“Blodgett waveguide. Journal of the Optical Society of America B: Optical Physics, 1993, 10, 886.	2.1	31
147	Evaluation of |Î²| of stilbazolium p-toluenesulfonates by the hyper Rayleigh scattering method. , 1994, , .		31
148	Patterning and pixelation of colloidal photonic crystals for addressable integrated photonics. Journal of Materials Chemistry, 2011, 21, 11330.	6.7	31
149	Heptametallic, Octupolar Nonlinear Optical Chromophores with Six Ferrocenyl Substituents. Chemistry - A European Journal, 2013, 19, 6613-6629.	3.3	31
150	Symmetry breaking in ligand-protected gold clusters probed by nonlinear optics. Nanoscale, 2016, 8, 12123-12127.	5.6	31
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