

Koen Clays

List of Publications by Year in descending order

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410
papers

15,419
citations

15495

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423
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423
times ranked

9837
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#	ARTICLE	IF	CITATIONS
1	Hyper-Rayleigh scattering in solution. <i>Physical Review Letters</i> , 1991, 66, 2980-2983.	2.9	949
2	Second-order nonlinear optical materials: recent advances in chromophore design. <i>Journal of Materials Chemistry</i> , 1997, 7, 2175-2189.	6.7	584
3	Hyper-Rayleigh scattering in solution. <i>Review of Scientific Instruments</i> , 1992, 63, 3285-3289.	0.6	471
4	Hyper-Rayleigh Scattering in Isotropic Solution. <i>Accounts of Chemical Research</i> , 1998, 31, 675-683.	7.6	225
5	Quadratic Nonlinear Optical Properties of N-Aryl Stilbazolium Dyes. <i>Advanced Functional Materials</i> , 2002, 12, 110-116.	7.8	218
6	Fabrication of 3D Photonic Crystals of Ellipsoids: Convective Self-Assembly in Magnetic Field. <i>Advanced Materials</i> , 2009, 21, 1936-1940.	11.1	215
7	Investigations of the Hyperpolarizability in Organic Molecules from Dipolar to Octopolar Systems. <i>Journal of the American Chemical Society</i> , 1994, 116, 9320-9323.	6.6	208
8	High-frequency demodulation of multi-photon fluorescence in hyper-Rayleigh scattering. <i>Review of Scientific Instruments</i> , 1998, 69, 2233-2241.	0.6	204
9	Design, Synthesis, Linear, and Nonlinear Optical Properties of Conjugated (Porphinato)zinc(II)-Based Donor-Acceptor Chromophores Featuring Nitrothiophenyl and Nitrooligothiophenyl Electron-Accepting Moieties. <i>Journal of the American Chemical Society</i> , 2005, 127, 9710-9720.	6.6	192
10	Supramolecular Second-Order Nonlinearity of Polymers with Orientationally Correlated Chromophores. <i>Science</i> , 1995, 270, 966-969.	6.0	180
11	Quadratic Optical Nonlinearities of N-Methyl and N-Aryl Pyridinium Salts. <i>Advanced Functional Materials</i> , 2003, 13, 347-357.	7.8	161
12	Instantaneous, Simple, and Reversible Revealing of Invisible Patterns Encrypted in Robust Hollow Sphere Colloidal Photonic Crystals. <i>Advanced Materials</i> , 2018, 30, e1707246.	11.1	159
13	Linear and Nonlinear Optical Properties of Colloidal Photonic Crystals. <i>Chemical Reviews</i> , 2012, 112, 2268-2285.	23.0	158
14	Unusual Frequency Dispersion Effects of the Nonlinear Optical Response in Highly Conjugated (Polypyridyl)metal(II)-(Porphinato)zinc(II) Chromophores. <i>Journal of the American Chemical Society</i> , 2002, 124, 13806-13813.	6.6	155
15	Switching of molecular second-order polarisability in solution. <i>Journal of Materials Chemistry</i> , 2004, 14, 2831.	6.7	153
16	Nonlinear Optical Properties of Proteins Measured by Hyper-Rayleigh Scattering in Solution. <i>Science</i> , 1993, 262, 1419-1422.	6.0	151
17	Ordering and optical properties of monolayers and multilayers of silica spheres deposited by the Langmuir-Blodgett method. <i>Journal of Materials Chemistry</i> , 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. <i>Journal of the American Chemical Society</i> , 1995, 117, 3547-3555.	6.6	143

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19	Redox-Switching of Nonlinear Optical Behavior in Langmuir-Blodgett Thin Films Containing a Ruthenium(II) Ammine Complex. <i>Journal of the American Chemical Society</i> , 2008, 130, 3286-3287.	6.6	139
20	Amphiphilic Porphyrins for Second Harmonic Generation Imaging. <i>Journal of the American Chemical Society</i> , 2009, 131, 2758-2759.	6.6	134
21	Highly Unusual Effects of π -Conjugation Extension on the Molecular Linear and Quadratic Nonlinear Optical Properties of Ruthenium(II) Ammine Complexes. <i>Journal of the American Chemical Society</i> , 2003, 125, 862-863.	6.6	133
22	A Molecular Multiproperty Switching Array Based on the Redox Behavior of a Ferrocenyl Polychlorotriphenylmethyl Radical. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 5266-5268.	7.2	133
23	Syntheses and Properties of Two-Dimensional Charged Nonlinear Optical Chromophores Incorporating Redox-Switchable cis-Tetraammineruthenium(II) Centers. <i>Journal of the American Chemical Society</i> , 2005, 127, 4845-4859.	6.6	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. <i>Journal of the American Chemical Society</i> , 2006, 128, 6194-6205.	6.6	131
25	Design Strategies versus Limiting Theory for Engineering Large Second-Order Nonlinear Optical Polarizabilities in Charged Organic Molecules. <i>Chemistry of Materials</i> , 2003, 15, 642-648.	3.2	128
26	Three-Dimensional Nonlinear Optical Chromophores Based on Metal-to-Ligand Charge-Transfer from Ruthenium(II) or Iron(II) Centers. <i>Journal of the American Chemical Society</i> , 2005, 127, 13399-13410.	6.6	128
27	Novel Chiral Bis-dipolar 6,6'-Disubstituted Binaphthol Derivatives for Second-Order Nonlinear Optics: Synthesis and Linear and Nonlinear Optical Properties. <i>Journal of the American Chemical Society</i> , 1996, 118, 6841-6852.	6.6	118
28	Hyper-Rayleigh scattering investigation of nitrobenzyl pyridine model compounds for optical modulation of the hyperpolarizability. <i>Chemical Physics Letters</i> , 1996, 258, 485-489.	1.2	116
29	Electrochemical, Spectroelectrochemical, and Molecular Quadratic and Cubic Nonlinear Optical Properties of Alkynylruthenium Dendrimers. <i>Journal of the American Chemical Society</i> , 2006, 128, 10819-10832.	6.6	115
30	Dyes for biological second harmonic generation imaging. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 13484.	1.3	113
31	Molecular Engineering of Benzothiazolium Salts with Large Quadratic Hyperpolarizabilities: Can Auxiliary Electron-Withdrawing Groups Enhance Nonlinear Optical Responses?. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22289-22302.	1.5	111
32	Solvent Effects on the Second-Order Nonlinear Optical Response of π -Conjugated Molecules: A Combined Evaluation through Self-Consistent Reaction Field Calculations and Hyper-Rayleigh Scattering Measurements. <i>Journal of the American Chemical Society</i> , 1995, 117, 10127-10128.	6.6	110
33	In situ reversible electrochemical switching of the molecular first hyperpolarizability. <i>Chemical Physics Letters</i> , 2003, 368, 408-411.	1.2	110
34	Reversible switching of the first hyperpolarizability of an NLO-active donor-acceptor molecule based on redox interconversion of the octamethylferrocene donor unit. <i>Chemical Communications</i> , 2001, , 49-50.	2.2	109
35	Syntheses and Quadratic Nonlinear Optical Properties of Salts Containing Benzothiazolium Electron-Acceptor Groups. <i>Chemistry of Materials</i> , 2006, 18, 5907-5918.	3.2	108
36	Insertion of a Two-Dimensional Cavity into a Self-Assembled Colloidal Crystal. <i>Langmuir</i> , 2003, 19, 4465-4468.	1.6	106

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37	Syntheses and Spectroscopic and Quadratic Nonlinear Optical Properties of Extended Dipolar Complexes with Ruthenium(II) Ammine Electron Donor and N-Methylpyridinium Acceptor Groups. <i>Journal of the American Chemical Society</i> , 2004, 126, 3880-3891.	6.6	99
38	Ultrahigh Electro-Optic Coefficients, High Index of Refraction, and Long-Term Stability from Diels-Alder Cross-Linkable Binary Molecular Glasses. <i>Chemistry of Materials</i> , 2020, 32, 1408-1421.	3.2	98
39	Interactions of twisted light with chiral molecules: An experimental investigation. <i>Physical Review A</i> , 2005, 71, .	1.0	97
40	Diquat Derivatives: Highly Active, Two-Dimensional Nonlinear Optical Chromophores with Potential Redox Switchability. <i>Journal of the American Chemical Society</i> , 2010, 132, 10498-10512.	6.6	94
41	High-frequency demodulation of multiphoton fluorescence in long-wavelength hyper-Rayleigh scattering. <i>Optics Letters</i> , 1999, 24, 403.	1.7	93
42	Determination of the hyperpolarizability of an octopolar molecular ion by hyper-Rayleigh scattering. <i>Optics Letters</i> , 1993, 18, 525.	1.7	90
43	Why hyperpolarizabilities fall short of the fundamental quantum limits. <i>Journal of Chemical Physics</i> , 2004, 121, 7932.	1.2	88
44	Donating Strength of Azulene in Various Azulen-1-yl-Substituted Cationic Dyes: Application in Nonlinear Optics. <i>Chemistry of Materials</i> , 2004, 16, 3543-3551.	3.2	88
45	Green-to-Red Photoconvertible Dronpa Mutant for Multimodal Super-resolution Fluorescence Microscopy. <i>ACS Nano</i> , 2014, 8, 1664-1673.	7.3	87
46	Large Second-Order Nonlinear Optical Properties of Novel Organometallic (f-Aryl-enynyl)ruthenium Complexes. <i>Organometallics</i> , 1996, 15, 5266-5268.	1.1	82
47	Evolution of Linear Absorption and Nonlinear Optical Properties in V-Shaped Ruthenium(II)-Based Chromophores. <i>Journal of the American Chemical Society</i> , 2010, 132, 1706-1723.	6.6	82
48	Interchromophoric Interactions in Chiral X-type π -Conjugated Oligomers: A Linear and Nonlinear Optical Study. <i>Journal of the American Chemical Society</i> , 2011, 133, 1317-1327.	6.6	82
49	Expression-Enhanced Fluorescent Proteins Based on Enhanced Green Fluorescent Protein for Super-resolution Microscopy. <i>ACS Nano</i> , 2015, 9, 9528-9541.	7.3	82
50	A convenient procedure for the synthesis of tetrathia-[7]-helicene and the selective β -functionalisation of terminal thiophene ring. <i>Tetrahedron</i> , 2003, 59, 6481-6488.	1.0	81
51	Hyper-Rayleigh scattering in solution with tunable femtosecond continuous-wave laser source. <i>Review of Scientific Instruments</i> , 1994, 65, 2190-2194.	0.6	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. <i>Journal of the American Chemical Society</i> , 2009, 131, 10293-10307.	6.6	80
53	Synthesis and linear/nonlinear optical properties of a new class of π -RHS™ NLO chromophore. <i>Journal of Materials Chemistry</i> , 2004, 14, 1321-1330.	6.7	78
54	Two-dimensional ordering of Stober silica particles at the air/water interface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003, 227, 77-83.	2.3	77

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55	The fabrication of photonic band gap materials with a two-dimensional defect. <i>Applied Physics Letters</i> , 2003, 82, 3764-3766.	1.5	76
56	Modulated conjugation as a means for attaining a record high intrinsic hyperpolarizability. <i>Optics Letters</i> , 2007, 32, 59.	1.7	75
57	Fourier analysis of the femtosecond hyper-Rayleigh scattering signal from ionic fluorescent hemicyanine dyes. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2000, 17, 256.	0.9	71
58	Reversible switching of molecular second-order nonlinear optical polarizability through proton-transfer. <i>Chemical Physics Letters</i> , 2002, 364, 279-283.	1.2	71
59	Ferrocene chromophores continue to inspire. Fine-tuning and switching of the second-order nonlinear optical response. <i>Coordination Chemistry Reviews</i> , 2017, 343, 185-219.	9.5	71
60	Modulated Conjugation as a Means of Improving the Intrinsic Hyperpolarizability. <i>Journal of the American Chemical Society</i> , 2009, 131, 5084-5093.	6.6	70
61	Optical properties and orientation of arrays of polystyrene spheres deposited using convective self-assembly. <i>Journal of Chemical Physics</i> , 2003, 118, 10752-10757.	1.2	68
62	Tailoring planar defect in three-dimensional colloidal crystals. <i>Chemical Physics Letters</i> , 2006, 422, 251-255.	1.2	68
63	Versatile optical materials: fluorescence, non-linear optical and mesogenic properties of selected 2-pyrazoline derivatives. <i>Journal of Materials Chemistry</i> , 1998, 8, 1725-1730.	6.7	67
64	Synthesis and Second-Order Nonlinear Optical Properties of Donor-Acceptor <i>f</i> -Alkynyl and <i>f</i> -Enynyl Indenylruthenium(II) Complexes. X-ray Crystal Structures of [Ru{C(CH ₃)C(CH ₃) ₂ -C ₆ H ₄ NO ₂ -3)}(1-5-C ₉ H ₇)(PPh ₃) ₂] and (EE)-[Ru{C(CH ₃)C(CH ₃) ₂ -C ₆ H ₄ NO ₂ -4)}(1-5-C ₉ H ₇)(PPh ₃) ₂]. <i>Organometallics</i> , 1999, 18, 582-597.	1.1	66
65	Second-Harmonic Generation in GFP-like Proteins. <i>Journal of the American Chemical Society</i> , 2008, 130, 15713-15719.	6.6	66
66	Second-Order Nonlinear Optical Properties of the Four Tetranitrotetrapropoxycalix[4]arene Conformers. <i>Journal of the American Chemical Society</i> , 1998, 120, 7875-7883.	6.6	64
67	Hyper-Rayleigh scattering in the Fourier domain for higher precision: Correcting for multiphoton fluorescence with demodulation and phase data. <i>Review of Scientific Instruments</i> , 2001, 72, 3215-3220.	0.6	64
68	Pentacyanoiron(II) as an Electron Donor Group for Nonlinear Optics: A Medium-Responsive Properties and Comparisons with Related Pentaammineruthenium(II) Complexes. <i>Journal of the American Chemical Society</i> , 2006, 128, 12192-12204.	6.6	64
69	Novel columnar mesogen with octupolar optical nonlinearities: synthesis, mesogenic behavior and multiphoton-fluorescence-free hyperpolarizabilities of subphthalocyanines with long aliphatic chains. <i>Chemical Communications</i> , 1999, , 1661-1662.	2.2	62
70	Azulenylium and guaiazulenylium cations as novel accepting moieties in extended sesquifulvalene type D-π-A NLO chromophores. <i>Dalton Transactions RSC</i> , 2001, , 29-36.	2.3	62
71	Enhancement of the molecular hyperpolarizability by a supramolecular amylose-dye inclusion complex, studied by hyper-Rayleigh scattering with fluorescence suppression. <i>Chemical Physics Letters</i> , 1998, 293, 337-342.	1.2	61
72	Combining Very Large Quadratic and Cubic Nonlinear Optical Responses in Extended, Tris-Chelate Metallochromophores with Six π-Conjugated Pyridinium Substituents. <i>Journal of the American Chemical Society</i> , 2010, 132, 3496-3513.	6.6	61

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73	Hyper-Rayleigh scattering studies of an ionic species Solvent effect on hyperpolarizability of 1-anilino-naphthalene-8-sulfonic acid ammonium salt. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 3039-3044.	1.7	60
74	Organometallic Complexes for Nonlinear Optics. 28.1 Dimensional Evolution of Quadratic and Cubic Optical Nonlinearities in Stilbenylethynylruthenium Complexes. <i>Organometallics</i> , 2002, 21, 2024-2026.	1.1	60
75	Molecular engineering of chromophores for combined second-harmonic and two-photon fluorescence in cellular imaging. <i>Chemical Science</i> , 2012, 3, 984.	3.7	60
76	Helquat Dyes: Helicene-like Push-Pull Systems with Large Second-Order Nonlinear Optical Responses. <i>Journal of Organic Chemistry</i> , 2016, 81, 1912-1920.	1.7	60
77	Controlling the Fluorescence Resonant Energy Transfer by Photonic Crystal Band Gap Engineering. <i>Chemistry of Materials</i> , 2007, 19, 5547-5552.	3.2	59
78	Molecular Symmetry and Solution-Phase Structure Interrogated by Hyper-Rayleigh Depolarization Measurements: Elaborating Highly Hyperpolarizable D_2 -Symmetric Chromophores. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2978-2981.	7.2	59
79	Theoretical Design of Substituted Tetrathia-[7]-Helicenes with Large Second-Order Nonlinear Optical Responses. <i>ChemPhysChem</i> , 2004, 5, 1438-1442.	1.0	58
80	Nonlinear Optical Properties of Correlated Chromophores in Organic Mesoscopic Superstructures. <i>Advanced Materials</i> , 1998, 10, 643-655.	11.1	57
81	Experimental study of the second-order non-linear optical properties of tetrathia-[7]-helicene. <i>Chemical Physics Letters</i> , 2003, 372, 438-442.	1.2	57
82	Study on novel second-order NLO azo-based chromophores containing strong electron-withdrawing groups and different conjugated bridges. <i>Journal of Materials Science</i> , 2004, 39, 2335-2340.	1.7	57
83	Substituted 4,4'-Stilbenoid NCN-Pincer Platinum(II) Complexes. Luminescence and Tuning of the Electronic and NLO Properties and the Application in an OLED. <i>Organometallics</i> , 2008, 27, 1690-1701.	1.1	56
84	Predicting the Frequency Dispersion of Electronic Hyperpolarizabilities on the Basis of Absorption Data and Thomas-Kuhn Sum Rules. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2349-2359.	1.5	56
85	Engineering Tuneable Light-Harvesting Systems with Oligothiophene Donors and Mono- or Bis-Bodipy Acceptors. <i>Journal of Organic Chemistry</i> , 2008, 73, 1563-1566.	1.7	55
86	Computational de Novo Design and Characterization of a Protein That Selectively Binds a Highly Hyperpolarizable Abiological Chromophore. <i>Journal of the American Chemical Society</i> , 2013, 135, 13914-13926.	6.6	55
87	Symmetrical and Nonsymmetrical Chromophores with Triphenylamine Base Skeleton: Chiroptical, Linear, and Quadratic Nonlinear Optical Properties - A Joint Theoretical and Experimental Study. <i>Chemistry - A European Journal</i> , 2010, 16, 8181-8190.	1.7	54
88	The Roles of Molecular Structure and Effective Optical Symmetry in Evolving Dipolar Chromophoric Building Blocks to Potent Octopolar Nonlinear Optical Chromophores. <i>Journal of the American Chemical Society</i> , 2011, 133, 2884-2896.	6.6	54
89	Improving the Second-Order Nonlinear Optical Response of Fluorescent Proteins: The Symmetry Argument. <i>Journal of the American Chemical Society</i> , 2013, 135, 4061-4069.	6.6	54
90	Hyper-Rayleigh scattering of neutral and charged helicenes. <i>Chemical Physics Letters</i> , 2005, 412, 274-279.	1.2	53

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91	Highly ordered films of neat calix[4]arenes for second order nonlinear optics. <i>Advanced Materials</i> , 1993, 5, 925-930.	11.1	51
92	Donor-acceptor complexes incorporating ferrocenes: spectroelectrochemical characterisation, quadratic hyperpolarisabilities and the effects of oxidising and reducing agents. <i>Dalton Transactions</i> RSC, 2001, , 3025-3038.	2.3	51
93	Thermally stable ferrocenyl "push-pull" chromophores with tailorable and switchable second-order non-linear optical response: synthesis and structure-property relationship. <i>Journal of Materials Chemistry</i> , 2012, 22, 10597.	6.7	51
94	Second-order nonlinear optics in isotropic liquids: Hyper-Rayleigh scattering in solution. <i>Journal of Molecular Liquids</i> , 1995, 67, 133-155.	2.3	50
95	Liquid Crystals from C ₃ -Symmetric Mesogens for Second-Order Nonlinear Optics. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4203-4206.	7.2	50
96	Electro-Optic Activity in Excess of 1000 pm V ⁻¹ Achieved via Theory-Guided Organic Chromophore Design. <i>Advanced Materials</i> , 2021, 33, e2104174.	11.1	49
97	Influence of Monomer Optical Purity on the Conformation and Properties of Chiral, Donor-Embedded Polybinaphthalenes for Nonlinear Optical Purposes. <i>Chemistry of Materials</i> , 2005, 17, 118-121.	3.2	48
98	Large Hyperpolarizabilities at Telecommunication-Relevant Wavelengths in Donor-Acceptor Donor Nonlinear Optical Chromophores. <i>ACS Central Science</i> , 2016, 2, 954-966.	5.3	48
99	Tuning Octopolar NLO Chromophores: Synthesis and Spectroscopic Characterization of Persubstituted 1,3,5-Tris(ethynylphenyl)benzenes. <i>Journal of Organic Chemistry</i> , 2004, 69, 5077-5081.	1.7	47
100	Two-Dimensional, Pyrazine-Based Nonlinear Optical Chromophores with Ruthenium(II) Ammine Electron Donors. <i>Inorganic Chemistry</i> , 2010, 49, 10718-10726.	1.9	47
101	Organometallic complexes for nonlinear optics. Part 29. Quadratic and cubic hyperpolarizabilities of stilbenylethynyl-gold and -ruthenium complexes. <i>Inorganica Chimica Acta</i> , 2003, 350, 62-76.	1.2	46
102	Proton-Triggered Octopolar NLO Chromophores. <i>Journal of Physical Chemistry A</i> , 2006, 110, 6271-6275.	1.1	45
103	Quadratic nonlinear optical properties of correlated chromophores: cyclic 6,6-dinitro-1,1'-binaphthyl-2,2'-ethers. <i>Chemical Physics Letters</i> , 1997, 270, 241-244.	1.2	44
104	Nonlinear Optical and Related Properties of Iron(II) Pentacyanide Complexes with Quaternary Nitrogen Electron Acceptor Units. <i>Inorganic Chemistry</i> , 2009, 48, 1370-1379.	1.9	44
105	Giant Faraday Rotation in Mesogenic Organic Molecules. <i>Chemistry of Materials</i> , 2013, 25, 1139-1143.	3.2	44
106	Surface morphology changes on silica-coated gold colloids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 322, 225-233.	2.3	43
107	Second-order nonlinear optical properties of fluorescent proteins for second-harmonic imaging. <i>Journal of Materials Chemistry</i> , 2009, 19, 7514.	6.7	42
108	The syntheses, structures and nonlinear optical and related properties of salts with julolidinyl electron donor groups. <i>Dyes and Pigments</i> , 2009, 82, 171-186.	2.0	41

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109	Thiophene-based dyes for probing membranes. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 3792-3802.	1.5	41
110	Strong Light-Matter Coupling as a New Tool for Molecular and Material Engineering: Quantum Approach. <i>Advanced Quantum Technologies</i> , 2018, 1, 1800001.	1.8	41
111	Î-Type Regioregular Oligothiophenes: Synthesis and Second-Order NLO Properties. <i>Journal of Organic Chemistry</i> , 2007, 72, 5855-5858.	1.7	39
112	Alkynyl Expanded Donor-Acceptor Calixarenes: Geometry and Second-Order Nonlinear Optical Properties. <i>Chemistry - A European Journal</i> , 2007, 13, 7753-7761.	1.7	39
113	Synthesis, linear & non linear optical (NLO) properties of some indoline based chromophores. <i>Dyes and Pigments</i> , 2011, 89, 177-187.	2.0	39
114	Synthesis and optical properties of NLO chromophores containing an indoline donor and azo linker. <i>Dyes and Pigments</i> , 2012, 95, 455-464.	2.0	38
115	Dispersion of the complex electro-optic coefficient and electrochromic effects in poled polymer films. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1992, 9, 2274.	0.9	37
116	Bacteriorhodopsin: a natural, efficient (nonlinear) photonic crystal. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2001, 18, 1474.	0.9	37
117	Enhanced poling efficiency in highly thermal and photostable nonlinear optical chromophores. <i>Journal of Materials Chemistry</i> , 2008, 18, 2141.	6.7	37
118	A new dipole-free sum-over-states expression for the second hyperpolarizability. <i>Journal of Chemical Physics</i> , 2008, 128, 084109.	1.2	37
119	Organometallic Complexes for Nonlinear Optics. 43. Quadratic Optical Nonlinearities of Dipolar Alkynylruthenium Complexes with Phenyleneethynylene/Phenylenevinylene Bridges. <i>Inorganic Chemistry</i> , 2009, 48, 3562-3572.	1.9	37
120	Testing Computational Models of Hyperpolarizability in a Merocyanine Dye Using Spectroscopic and DFT Methods. <i>Journal of Physical Chemistry A</i> , 2012, 116, 5453-5463.	1.1	37
121	Wonders of colloidal assembly. <i>Soft Matter</i> , 2013, 9, 9072.	1.2	37
122	The symmetry of functionalized poly(propylene imine) dendrimers probed with hyper-Rayleigh scattering. <i>Chemical Physics Letters</i> , 1996, 260, 136-141.	1.2	36
123	Electronic Modulation of Hyperpolarizable (Porphinato)zinc(II) Chromophores Featuring Ethynylphenyl-, Ethynylthiophenyl-, Ethynylthiazolyl-, and Ethynylbenzothiazolyl-Based Electron-Donating and -Accepting Moieties. <i>Inorganic Chemistry</i> , 2006, 45, 9703-9712.	1.9	36
124	Nonexponential decay of spontaneous emission from an ensemble of molecules in photonic crystals. <i>Physical Review B</i> , 2007, 76, .	1.1	36
125	Quadratic Nonlinear Optical Response in Partially Charged Donor-Substituted Tetrathiafulvalene: From a Computational Investigation to a Rational Synthetic Feasibility. <i>Chemistry of Materials</i> , 2007, 19, 805-815.	3.2	36
126	Charge-Transfer State and Large First Hyperpolarizability Constant in a Highly Electronically Coupled Zinc and Gold Porphyrin Dyad. <i>Chemistry - A European Journal</i> , 2009, 15, 9058-9067.	1.7	36

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127	Push-pull chromophores comprising benzothiazolium acceptor and thiophene auxiliary donor moieties: Synthesis, structure, linear and quadratic non-linear optical properties. <i>Dyes and Pigments</i> , 2009, 81, 203-210.	2.0	36
128	Preparation and characterization of second order non-linear optical properties of new push-pull platinum complexes. <i>Dalton Transactions</i> , 2009, , 4538.	1.6	36
129	NLO chromophores containing dihydrobenzothiazolylidene and dihydroquinolinylidene donors with an azo linker: Synthesis and optical properties. <i>Dyes and Pigments</i> , 2013, 98, 82-92.	2.0	36
130	Molecular understanding of label-free second harmonic imaging of microtubules. <i>Nature Communications</i> , 2019, 10, 3530.	5.8	36
131	Tetraalkynyl calix[4]arenes with advanced NLO properties. <i>Chemical Communications</i> , 2005, , 2747.	2.2	35
132	Quadratic and Cubic Nonlinear Optical Properties of Salts of Diquat-Based Chromophores with Diphenylamino Substituents. <i>Journal of Physical Chemistry A</i> , 2010, 114, 12028-12041.	1.1	35
133	Ternary Inverse Opal System for Convenient and Reversible Photonic Bandgap Tuning. <i>Langmuir</i> , 2008, 24, 10519-10523.	1.6	34
134	Photonic Crystals of Oblate Spheroids by Blown Film Extrusion of Prefabricated Colloidal Crystals. <i>Langmuir</i> , 2009, 25, 10218-10222.	1.6	34
135	Syntheses and Properties of Salts of Chromophores with Ferrocenyl Electron Donor Groups and Quaternary Nitrogen Acceptors. <i>Organometallics</i> , 2009, 28, 6880-6892.	1.1	34
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