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	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
2	Lightâ€Addressable Nanocomposite Hydrogels Allow Plasmonic Actuation and In Situ Temperature Monitoring in 3D Cell Matrices. Advanced Functional Materials, 2022, 32, 2108234.	14.9	12
3	The wavelength-dependent non-linear absorption and refraction of Au₂₅ and Au₃₈ monolayer-protected clusters. Nanoscale, 2022, 14, 3618-3624.	5.6	3
4	Labelâ€Free Imaging of Membrane Potentials by Intramembrane Field Modulation, Assessed by Second Harmonic Generation Microscopy. Small, 2022, 18, e2200205.	10.0	4
5	Highly efficient unbridged D-A+(D) chromophores based on the quinolizinium cation for nonlinear optical (NLO) applications. Dyes and Pigments, 2022, 205, 110323.	3.7	2
6	Bis(4-dialkylaminophenyl)heteroarylamino donor chromophores exhibiting exceptional hyperpolarizabilities. Journal of Materials Chemistry C, 2021, 9, 2721-2728.	5.5	28
7	Solvent Role in the Self-Assembly of Poly(3-alkylthiophene): A Harmonic Light Scattering Study. Macromolecules, 2021, 54, 2477-2484.	4.8	9
8	Second-order NLO response in chiral ferroelectric liquid crystals: Molecular and bulk consideration. Journal of Molecular Liquids, 2021, 326, 115328.	4.9	6
9	Enhanced electric field sensitivity of quantum dot/rod two-photon fluorescence and its relevance for cell transmembrane voltage imaging. Nanophotonics, 2021, 10, 2407-2420.	6.0	6
10	Excited-State Dynamics and Nonlinear Optical Properties of Hyperpolarizable Chromophores Based on Conjugated Bis(terpyridyl)Ru(II) and Palladium and Platinum Porphyrinic Components: Impact of Heavy Metals upon Supermolecular Electro-Optic Properties. Inorganic Chemistry, 2021, 60, 15404-15412.	4.0	2
11	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
12	Dual photonic bandgap hollow sphere colloidal photonic crystals for real-time fluorescence enhancement in living cells. Biosensors and Bioelectronics, 2021, 194, 113577.	10.1	3
13	Scattering Model for Composite Stereolithography to Enable Resinâ€“Filler Selection and Cure Depth Control. ACS Applied Polymer Materials, 2021, 3, 6705-6712.	4.4	16
14	Unraveling the Supramolecular Organization Mechanism of Chiral Star-Shaped Poly(3-alkylthiophene). Macromolecules, 2020, 53, 9513-9520.	4.8	5
15	Advent of Plasmonic Behavior: Dynamically Tracking the Formation of Gold Nanoparticles through Nonlinear Spectroscopy. Chemistry of Materials, 2020, 32, 7327-7337.	6.7	5
16	Organometallic complexes for nonlinear optics. 66. Synthesis and quadratic nonlinear optical studies of trans-[Ru{C C{2,5-C4H2S-(E)-CH CH}n-2,5-C4H2S(NO2)}Cl(dppe)2] (nÂ= 0â€“2). Journal of Organometallic Chemistry, 2020, 919, 121306.	1.8	1
17	Quantum Dot-Functionalized Extracellular Matrices for In Situ Monitoring of Cardiomyocyte Activity. ACS Applied Nano Materials, 2020, 3, 6118-6126.	5.0	6
18	Fluorescence-free First Hyperpolarizability Values of Fluorescent Proteins and Channel Rhodopsins. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 400, 112658.	3.9	4

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19	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
20	Advances in high-performance hybrid electro-optics. , 2020, , .		3
21	Molecular understanding of label-free second harmonic imaging of microtubules. Nature Communications, 2019, 10, 3530.	12.8	36
22	Enhancement of Nonlinear Optical Scattering by Gold Nanoparticles through Aggregationâ€Induced Plasmon Coupling in the Nearâ€Infrared. ChemPhysChem, 2019, 20, 1765-1774.	2.1	5
23	DANPY (dimethylaminonaphthylpyridinium): an economical and biocompatible fluorophore. Organic and Biomolecular Chemistry, 2019, 17, 3765-3780.	2.8	2
24	Harmonic light scattering study reveals structured clusters upon the supramolecular aggregation of regioregular poly(3-alkylthiophene). Communications Chemistry, 2019, 2, .	4.5	17
25	Molecular Origins of the Nonlinear Optical Responses of a Series of Î±-(X-2-Pyridylamino)-o-cresol Chromophores from Concerted X-ray Diffraction, Hyper-Rayleigh Scattering, and Ab Initio Calculations. Journal of Physical Chemistry C, 2019, 123, 665-676.	3.1	7
26	Next-generation materials for hybrid electro-optic systems (Conference Presentation). , 2019, , .		4
27	Hollow spheres: crucial building blocks for novel nanostructures and nanophotonics. Nanophotonics, 2018, 7, 693-713.	6.0	24
28	ONIOM Investigation of the Second-Order Nonlinear Optical Responses of Fluorescent Proteins. Journal of Physical Chemistry B, 2018, 122, 4993-5005.	2.6	18
29	Linear Optical, Quadratic and Cubic Nonlinear Optical, Electrochemical, and Theoretical Studies of â€œRigidâ€Rodâ€•Bisâ€Alkynyl Ruthenium Complexes. ChemPlusChem, 2018, 83, 630-642.	2.8	11
30	Role of Donor and Acceptor Substituents on the Nonlinear Optical Properties of Gold Nanoclusters. Journal of Physical Chemistry C, 2018, 122, 4019-4028.	3.1	15
31	Octupolar organometallic Pt(II) NCN-pincer complexes; Synthesis, electronic, photophysical, and NLO properties. Journal of Organometallic Chemistry, 2018, 867, 246-252.	1.8	4
32	Instantaneous, Simple, and Reversible Revealing of Invisible Patterns Encrypted in Robust Hollow Sphere Colloidal Photonic Crystals. Advanced Materials, 2018, 30, e1707246.	21.0	159
33	Strong Lightâ€“Matter Coupling as a New Tool for Molecular and Material Engineering: Quantum Approach. Advanced Quantum Technologies, 2018, 1, 1800001.	3.9	41
34	Quadratic and Cubic Optical Nonlinearities of Yâ€Shaped and Distortedâ€Hâ€Shaped Arylalkynylruthenium Complexes. Chemistry - A European Journal, 2018, 24, 16332-16341.	3.3	10
35	Fine-tuning polyoxometalate non-linear optical chromophores: a molecular electronic â€œGoldilocksâ€• effect. Dalton Transactions, 2018, 47, 10415-10419.	3.3	18
36	Unexpected High Secondâ€Order Nonlinear Optical Activity of Metal Complexes with Threeâ€Branched Hexadentate 2,2â€²â€Bipyridine Ligands. Chemistry - A European Journal, 2018, 24, 14901-14905.	3.3	1

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37	Ultrafast revealing of invisible patterns encrypted in colloidal photonic crystals. , 2018, , .		0
38	Development of molecular probes for cellular imaging combining second harmonic generation and two-photon fluorescence. , 2018, , .		0
39	Third-Harmonic Scattering for Fast and Sensitive Screening of the Second Hyperpolarizability in Solution. Analytical Chemistry, 2017, 89, 2964-2971.	6.5	26
40	Real-Time Fluorescence Detection in Aqueous Systems by Combined and Enhanced Photonic and Surface Effects in Patterned Hollow Sphere Colloidal Photonic Crystals. Langmuir, 2017, 33, 4840-4846.	3.5	23
41	Azonia aromatic heterocycles as a new acceptor unit in D-Ï€-A + vs D-A + nonlinear optical chromophores. Dyes and Pigments, 2017, 144, 17-31.	3.7	11
42	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
43	Fluorescence-Free Spectral Dispersion of the Molecular First Hyperpolarizability of Bacteriorhodopsin. Journal of Physical Chemistry C, 2017, 121, 6909-6915.	3.1	13
44	Ferrocenyl helquats: unusual chiral organometallic nonlinear optical chromophores. Dalton Transactions, 2017, 46, 1052-1064.	3.3	19
45	Second-order nonlinear polarizability of ferroceneâ€“BODIPY donorâ€“acceptor adducts. Quantifying charge redistribution in the excited state. Dalton Transactions, 2017, 46, 1124-1133.	3.3	10
46	Pushâ€“pull pyropheophorbides for nonlinear optical imaging. Organic and Biomolecular Chemistry, 2017, 15, 947-956.	2.8	28
47	Multifunctional geometrical isomers of ferrocene-benzo[1,2-b:4,5-bâ€²]difuran-2,6-(3H,7H)-dione adducts: second-order nonlinear optical behaviour and charge transport in thin film OFET devices. Journal of Materials Chemistry C, 2017, 5, 697-708.	5.5	17
48	Chiral Side Groups Trigger Second Harmonic Generation Activity in 3D Octupolar Bipyrimidineâ€Based Organic Liquid Crystals. Angewandte Chemie, 2017, 129, 9674-9678.	2.0	1
49	Chiral Side Groups Trigger Second Harmonic Generation Activity in 3D Octupolar Bipyrimidineâ€Based Organic Liquid Crystals. Angewandte Chemie - International Edition, 2017, 56, 9546-9550.	13.8	18
50	Organoimido-Polyoxometalate Nonlinear Optical Chromophores: A Structural, Spectroscopic, and Computational Study. Inorganic Chemistry, 2017, 56, 10181-10194.	4.0	31
51	Tunable Chiral Second-Order Nonlinear Optical Chromophores Based on Helquat Dications. Journal of Physical Chemistry A, 2017, 121, 5842-5855.	2.5	11
52	Colloidal photonic crystals: from lasing to microfluidics. , 2017, , .		0
53	Nonlinear optics near the fundamental limit: introduction. Journal of the Optical Society of America B: Optical Physics, 2016, 33, NOF1.	2.1	2
54	Relating the Structure of Geminal Amido Esters to their Molecular Hyperpolarizability. Journal of Physical Chemistry C, 2016, 120, 29439-29448.	3.1	6

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55	Large Hyperpolarizabilities at Telecommunication-Relevant Wavelengths in Donorâ€“Acceptorâ€“Donor Nonlinear Optical Chromophores. ACS Central Science, 2016, 2, 954-966.	11.3	48
56	Spectroscopic studies of the mechanism of reversible photodegradation of 1-substituted aminoanthraquinone-doped polymers. Journal of Chemical Physics, 2016, 144, 114902.	3.0	15
57	Direct Fabrication of Monodisperse Silica Nanorings from Hollow Spheres â€“ A Template for Coreâ€“Shell Nanorings. ACS Applied Materials & Interfaces, 2016, 8, 10451-10458.	8.0	16
58	Symmetry breaking in ligand-protected gold clusters probed by nonlinear optics. Nanoscale, 2016, 8, 12123-12127.	5.6	31
59	Thermally stable ferrocene-Î±-cyanostilbenes as efficient materials for second order nonlinear optical polarizability. RSC Advances, 2016, 6, 50688-50696.	3.6	18
60	Direct fabrication of complex 3D hierarchical nanostructures by reactive ion etching of hollow sphere colloidal crystals. Nanoscale, 2016, 8, 15845-15849.	5.6	11
61	Synthetic, Optical and Theoretical Study of Alternating Ethylenedioxythiopheneâ€“Pyridine Oligomers: Evolution from Planar Conjugated to Helicoidal Structure towards a Chiral Configuration. ChemPhysChem, 2016, 17, 4090-4101.	2.1	6
62	Investigation of the second hyperpolarizability of Ru-alkynyl complexes by *z*-scan and nonlinear scattering. Proceedings of SPIE, 2016, , .	0.8	2
63	Synthesis, characterization and second-order nonlinear optical behaviour of ferroceneâ€“diketopyrrolopyrrole dyads: the effect of alkene vs. alkyne linkers. Journal of Materials Chemistry C, 2016, 4, 9717-9726.	5.5	13
64	First-order hyperpolarizabilities of chiral, polymer-wrapped single-walled carbon nanotubes. Chemical Communications, 2016, 52, 12206-12209.	4.1	6
65	Synthesis, structure and NLO properties of a 1,3,5-substituted tricationic cobaltocenium benzene complex. Journal of Organometallic Chemistry, 2016, 820, 125-129.	1.8	4
66	Fabrication of optomicrofluidics for real-time bioassays based on hollow sphere colloidal photonic crystals with wettability patterns. Journal of Materials Chemistry C, 2016, 4, 7853-7858.	5.5	27
67	Rhenium(I) Tricarbonyl Complexes with Peripheral N-Coordination Sites: A Foundation for Heterotrimetallic Nonlinear Optical Chromophores. Organometallics, 2016, 35, 3014-3024.	2.3	19
68	Defect Mode Passband Lasing in Self-Assembled Photonic Crystal. ACS Photonics, 2016, 3, 2330-2337.	6.6	29
69	Bioinspired Robust Sealed Colloidal Photonic Crystals of Hollow Microspheres for Excellent Repellency against Liquid Infiltration and Ultrastable Photonic Band Gap. Advanced Materials Interfaces, 2016, 3, 1600579.	3.7	19
70	Non-linear optical, electrochemical and spectroelectrochemical properties of amphiphilic inner salt porphyrinic systems. Journal of Porphyrins and Phthalocyanines, 2016, 20, 1002-1015.	0.8	2
71	Phosphorescence emission from BAlq by forced intersystem crossing in a colloidal photonic crystal. Molecular Physics, 2016, 114, 2248-2252.	1.7	3
72	Donorâ€“acceptor organo-imido polyoxometalates: high transparency, high activity redox-active NLO chromophores. Dalton Transactions, 2016, 45, 2818-2822.	3.3	33

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73	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
74	Extended Threefoldâ€Symmetric Secondâ€Harmonicâ€Generation Chromophores Based on 1,3,5â€Trisubstituted Benzene Complexes. European Journal of Inorganic Chemistry, 2015, 2015, .	2.0	2
75	Prediction of first hyperpolarizability of fluorescent proteins. AIP Conference Proceedings, 2015, , .	0.4	3
76	Experimental second-order nonlinear optics in molecular switching. , 2015, , .		0
77	Photoluminescence as a Probe of the Electrical Charge Dependence of Gold Nanoparticles. Journal of Nanoscience and Nanotechnology, 2015, 15, 9766-9771.	0.9	0
78	Concerted Mitigation of OÂ·Â·Â·H and C(Ï€)Â·Â·Â·H Interactions Prospects Sixfold Gain in Optical Nonlinearity of Ionic Stilbazolium Derivatives. ACS Applied Materials & Interfaces, 2015, 7, 4693-4698.	8.0	21
79	Mesogenic, Luminescence, and Nonlinear Optical Properties of New Bipyrimidine-Based Multifunctional Octupoles. Journal of Physical Chemistry C, 2015, 119, 3697-3710.	3.1	21
80	Thiophene-based dyes for probing membranes. Organic and Biomolecular Chemistry, 2015, 13, 3792-3802.	2.8	41
81	Nonlinear Optical Chromophores with Two Ferrocenyl, Octamethylferrocenyl, or 4-(Diphenylamino)phenyl Groups Attached to Rhenium(I) or Zinc(II) Centers. Organometallics, 2015, 34, 1701-1715.	2.3	26
82	Stille Cross-Coupling Reaction with Cationic [(Î·⁵-Cp)(Î·⁶-C₆H_{6â€“x}I_x)Ru]⁺ Complexes as Key for Ethynyl-Bridged Homo- and Heteronuclear Sandwich Compounds. Organometallics, 2015, 34, 1692-1700.	2.3	12
83	Introducing high-quality planar defects into colloidal crystals via self-assembly at the air/water interface. , 2015, , .		0
84	Synthesis, linear and nonlinear optical properties of thermally stable ferrocene-diketopyrrolopyrrole dyads. RSC Advances, 2015, 5, 84643-84656.	3.6	32
85	Expression-Enhanced Fluorescent Proteins Based on Enhanced Green Fluorescent Protein for Super-resolution Microscopy. ACS Nano, 2015, 9, 9528-9541.	14.6	82
86	Selective protein purification by PEGâ€“IDA-functionalized iron oxide nanoparticles. RSC Advances, 2015, 5, 66549-66553.	3.6	9
87	Control of Photon Emission by Photonic Bandgap Engineering in Colloidal Crystals. , 2015, , 477-493.		0
88	Determinants of Second Harmonic Generation in live neurons. , 2015, , .		0
89	Fabrication of polymer inverse opals with linear and nonlinear optical functionalities using a sandwiching approach. , 2014, , .		1
90	Novel charged NLO chromophores based on quinolizinium acceptor units. Dyes and Pigments, 2014, 101, 116-121.	3.7	27

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91	Green-to-Red Photoconvertible Dronpa Mutant for Multimodal Super-resolution Fluorescence Microscopy. ACS Nano, 2014, 8, 1664-1673.	14.6	87
92	Catechols as ligands for CdSeâ€“ZnS quantum dots. RSC Advances, 2014, 4, 10208.	3.6	11
93	Highly cohesive dual nanoassemblies for complementary multiscale bioimaging. Journal of Materials Chemistry B, 2014, 2, 7747-7755.	5.8	13
94	Red Emitting Neutral Fluorescent Glycoconjugates for Membrane Optical Imaging. Bioconjugate Chemistry, 2014, 25, 773-787.	3.6	22
95	Synthesis, Structures, and Optical Properties of Ruthenium(II) Complexes of the Tris(1-pyrazolyl)methane Ligand. Inorganic Chemistry, 2014, 53, 3798-3811.	4.0	12
96	Sandwich Approach toward Inverse Opals with Linear and Nonlinear Optical Functionalities. ACS Applied Materials & Interfaces, 2014, 6, 3870-3878.	8.0	7
97	Record-high hyperpolarizabilities in conjugated polymers. Journal of Materials Chemistry C, 2014, 2, 4533-4538.	5.5	18
98	A facile way to introduce planar defects into colloidal photonic crystals for pronounced passbands. Journal of Materials Chemistry C, 2014, 2, 8829-8836.	5.5	17
99	Giant Faraday Rotation in Mesogenic Organic Molecules. Chemistry of Materials, 2013, 25, 1139-1143.	6.7	44
100	Wonders of colloidal assembly. Soft Matter, 2013, 9, 9072.	2.7	37
101	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
102	Synthesis of charged bis-heteroaryl donorâ€“acceptor (Dâ€“A+) NLO-phores coupling (Ⅰ€-deficientâ€“Ⅰ€-excessive) heteroaromatic rings. Organic and Biomolecular Chemistry, 2013, 11, 7145.	2.8	9
103	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
104	Organometallic complexes for nonlinear optics. 52. Syntheses, structural, spectroscopic, quadratic nonlinear optical, and theoretical studies of Ru(C2C6H4R-4)(Ⅱ²2-dppf)(Ⅰ·5-C5H5) (RÂ=ÂH, NO2). Journal of Organometallic Chemistry, 2013, 730, 108-115.	1.8	7
105	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
106	â€œPush-no-pullâ€•porphyrins for second harmonic generation imaging. Chemical Science, 2013, 4, 2024.	7.4	28
107	Heptametallic, Octupolar Nonlinear Optical Chromophores with Six Ferrocenyl Substituents. Chemistry - A European Journal, 2013, 19, 6613-6629.	3.3	31
108	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

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109	Linear and Nonlinear Optical Properties of Ramified Hexaazatriphenylenes: Charge Transfer Contributions to the Octupolar Response. Journal of Physical Chemistry C, 2013, 117, 626-632.	3.1	18
110	Tuning the properties of colloidal magneto-photonic crystals by controlled infiltration with superparamagnetic magnetite nanoparticles. , 2012, , .		3
111	An all-optical protocol to determine the molecular origin of radiation damage/enhancement in electro-optic polymeric materials. , 2012, , .		1
112	Thermal study of the photonic band gap effect on a resonance energy transfer process. Journal of Photonics for Energy, 2012, 2, 021204.	1.3	1
113	Nonlinear optical properties of conjugated polymers. , 2012, , .		0
114	The role of the polymer host on reversible photodegradation in Disperse Orange 11 dye. Proceedings of SPIE, 2012, , .	0.8	7
115	Donor-(Ï€-bridge)-azinium as D-Ï€-A+ one-dimensional and D-Ï€-A+-Ï€-D multidimensional V-shaped chromophores. Organic and Biomolecular Chemistry, 2012, 10, 1659.	2.8	25
116	Strong Wavelength Dependence of Hyperpolarizability in the Near-Infrared Biological Window for Second-Harmonic Generation by Amphiphilic Porphyrins. Journal of Physical Chemistry C, 2012, 116, 13781-13787.	3.1	20
117	Dispersion Overwhelms Charge Transfer in Determining the Magnitude of the First Hyperpolarizability in Triindole Octupoles. Journal of Physical Chemistry C, 2012, 116, 12312-12321.	3.1	30
118	All Optical Determination of Microscopic and Macroscopic Structure of Chiral, Polar Microcrystals from Achiral, Nonpolar Molecules. Journal of Physical Chemistry C, 2012, 116, 12219-12225.	3.1	18
119	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
120	Enhanced Intramolecular Charge Transfer in New Type Donorâ€“Acceptor Substituted Perylenes. Journal of Physical Chemistry C, 2012, 116, 22711-22719.	3.1	18
121	Nonlinear Optical Thin Film Device from a Chiral Octopolar Phenylacetylene Liquid Crystal. Journal of Organic Chemistry, 2012, 77, 10891-10896.	3.2	16
122	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
123	Synthesis and optical properties of NLO chromophores containing an indoline donor and azo linker. Dyes and Pigments, 2012, 95, 455-464.	3.7	38
124	Novel cationic dye and crosslinkable surfactant for DNA biophotonics. Proceedings of SPIE, 2012, , .	0.8	2
125	Molecular engineering of chromophores for combined second-harmonic and two-photon fluorescence in cellular imaging. Chemical Science, 2012, 3, 984.	7.4	60
126	Linear and Nonlinear Optical Properties of Colloidal Photonic Crystals. Chemical Reviews, 2012, 112, 2268-2285.	47.7	158

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127	Organometallic Complexes for Non-Linear Optics. 51. Second- and Third-Order Non-Linear Optical Properties of Alkynylgold Complexes. Australian Journal of Chemistry, 2012, 65, 834.	0.9	5
128	Probing live samples in second-harmonic generation microscopy using specific markers and fluorescent proteins. Proceedings of SPIE, 2012, , .	0.8	1
129	DNA, sugars, and proteins at work in optics. Proceedings of SPIE, 2012, , .	0.8	0
130	Anisotropic oxygen plasma etching of colloidal particles in electrospun fibers. Chemical Communications, 2011, 47, 2429-2431.	4.1	16
131	Patterning and pixelation of colloidal photonic crystals for addressable integrated photonics. Journal of Materials Chemistry, 2011, 21, 11330.	6.7	31
132	Ferrocenyl Diquat Derivatives: Nonlinear Optical Activity, Multiple Redox States, and Unusual Reactivity. Organometallics, 2011, 30, 5731-5743.	2.3	33
133	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
134	Why do we need three levels to understand the molecular optical response?. , 2011, , .		2
135	Incorporation of Amphiphilic Ruthenium(II) Ammine Complexes into Langmuirâ€“Blodgett Thin Films with Switchable Quadratic Nonlinear Optical Behavior. Inorganic Chemistry, 2011, 50, 12886-12899.	4.0	25
136	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
137	Unexpected second-order nonlinear optical effects in conjugated polymers. Proceedings of SPIE, 2011, , .	0.8	0
138	Modeling the hyperpolarizability dispersion with the Thomas-Kuhn sum rules. Proceedings of SPIE, 2011, , .	0.8	0
139	Simultaneous SHG and 2PEF imaging using a new type of selective markers. , 2011, , .		1
140	Hyper-Rayleigh scattering as a screening tool for the optimization of piezoelectric polymers. , 2011, , .		0
141	Effect of the environment on tris(2-phenylpyridine) iridium molecules embedded in a polyvinyl carbazole matrix. Chemical Physics Letters, 2011, 517, 71-75.	2.6	2
142	Synthesis, linear & non linear optical (NLO) properties of some indoline based chromophores. Dyes and Pigments, 2011, 89, 177-187.	3.7	39
143	Synthesis, linear and quadratic nonlinear optical properties of ionic indoline and N,N-dimethylaniline based chromophores. Optical Materials, 2011, 33, 336-345.	3.6	28
144	Spontaneous chirality in an octupolar discotic crystal. , 2011, , .		1

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145	Experimental verification of a self-consistent theory of the first-, second-, and third-order (non)linear optical response. Physical Review A, 2011, 84, .	2.5	14
146	Optimizing the second-order nonlinear optical response in some indoline-based chromophores at the molecular and macroscopic levels. Proceedings of SPIE, 2011, , .	0.8	1
147	Energy Transfer Enhancement by Localization of Light in a Sandwich-like Photonic Structure. , 2011, , .		0
148	Second-order nonlinear optical properties of zwitterionic chromophores. , 2010, , .		2
149	Conjugated polymers: a hyper-Rayleigh scattering study. Proceedings of SPIE, 2010, , .	0.8	0
150	Fabrication and Multiangular Optical Characterization of Ellipsoidal Photonic Crystal. Journal of Nanoscience and Nanotechnology, 2010, 10, 7571-7573.	0.9	4
151	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
152	Heteroaromatic Cationâ€Based Chromophores: Synthesis and Nonlinear Optical Properties of Alkynylazinium Salts. European Journal of Organic Chemistry, 2010, 2010, 6323-6330.	2.4	11
153	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
154	Synthesis, characterization, linear and non-linear optical (NLO) properties of some Schiffâ€™s bases. Optical Materials, 2010, 32, 669-672.	3.6	21
155	The effect of solvent on the excited vibronic states and first hyperpolarizability of â€œpushâ€“pullâ€• merocyanines. Optical Materials, 2010, 32, 1237-1243.	3.6	20
156	The synthesis of chiral, cationic nonlinear optical dyes based on the 1,1â€²-binaphthalenyl unit. Dyes and Pigments, 2010, 87, 22-29.	3.7	16
157	Analysis of the unusual wavelength dependence of the first hyperpolarizability of porphyrin derivatives. Proceedings of SPIE, 2010, , .	0.8	1
158	Designing organic molecules for terahertz radiation generation in robust crystals. , 2010, , .		0
159	NONLINEAR OPTICAL PROPERTIES OF mSTRAWBERRY AND mCHERRY FOR SECOND HARMONIC IMAGING. Journal of Nonlinear Optical Physics and Materials, 2010, 19, 1-13.	1.8	10
160	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
161	Syntheses and Properties of Two-Dimensional, Dicationic Nonlinear Optical Chromophores Based on Pyrazinyl Cores. Journal of Organic Chemistry, 2010, 75, 8550-8563.	3.2	30
162	Molding resonant energy transfer by colloidal crystal: Dexter transfer and electroluminescence. , 2010, , .		0

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