Joseph W Perry

List of Publications by Year
in descending order

229 papers	21,046 citations	20797 60 h-index	11601 135 g-index
230 all docs	230 docs citations	230 times ranked	13692 citing authors

#	Article	IF	Citations
1	NIR-to-NIR two-photon bio-imaging using very bright tailored amino-heptamethines dyes. Dyes and Pigments, 2022, 203, 110369.	2.0	6
2	Polymorphism of Merocyanine Dyes Homologues with 1,3-Diethyl-2-thiobarbituric Acid Acceptor and p-Dimethylaminobenzene Donor and Different Polymethine Chains Connecting Them. Crystal Growth and Design, 2020, 20, 167-177.	1.4	5
3	Enhanced energy density and extraction efficiency of polar solâ€“gel dielectric films with reduced residual ions. Journal of Materials Chemistry C, 2020, 8, 17395-17402.	2.7	2
4	Impact of Ionâ€Pairing Effects on Linear and Nonlinear Photophysical Properties of Polymethine Dyes**. ChemPhysChem, 2020, 21, 2536-2542.	1.0	14
5	Highly Conjugated, Fused-Ring, Quadrupolar Organic Chromophores with Large Two-Photon Absorption Cross-Sections in the Near-Infrared. Journal of Physical Chemistry A, 2020, 124, 4367-4378.	1.1	20
6	Tyrosine, cysteine, and proton coupled electron transfer in a ribonucleotide reductase-inspired beta hairpin maquette. Chemical Communications, 2019, 55, 9399-9402.	2.2	9
7	Unraveling the Two-Photon and Excited-State Absorptions of Aza-BODIPY Dyes for Optical Power Limiting in the SWIR Band. Journal of Physical Chemistry C, 2019, 123, 23661-23673.	1.5	37
8	Structure and Function of Tryptophanâ€“Tyrosine Dyads in Biomimetic Î² Hairpins. Journal of Physical Chemistry B, 2019, 123, 2780-2791.	1.2	6
9	Synthesis, structure, linear and nonlinear properties of tricyanofuranâ€“terminated merocyanine dyes. Journal of Molecular Structure, 2019, 1189, 146-154.	1.8	12
10	Nonlinear refraction and absorption measurements of thin films by the dual-arm Z-scan method. Applied Optics, 2019, 58, D28.	0.9	7
11	Chromis-1, a Ratiometric Fluorescent Probe Optimized for Two-Photon Microscopy Reveals Dynamic Changes in Labile Zn(II) in Differentiating Oligodendrocytes. ACS Sensors, 2018, 3, 458-467.	4.0	36
12	Individually Dispersed Gold Nanoshell-Bearing Cellulose Nanocrystals with Tailorable Plasmon Resonance. Langmuir, 2018, 34, 4427-4436.	1.6	11
13	Effects of meso-M(PPh₃)₂Cl (M = Pd, Ni) substituents on the linear and third-order nonlinear optical properties of chalcogenopyrylium-terminated heptamethines in solution and solid states. Journal of Materials Chemistry C, 2018, 6, 3613-3620.	2.7	19
14	Nonvolatile Tunable Integrated Mid-Infrared GST-SiC Metasurfaces. , 2018, , .		0
15	Linear and Thirdâ€Order Nonlinear Optical Properties of Chalcogenopyryliumâ€Terminated Heptamethine Dyes with Rigid, Bulky Substituents. Advanced Functional Materials, 2018, 28, 1804073.	7.8	17
16	Nonlinear optical components for all-optical probabilistic graphical model. Nature Communications, 2018, 9, 2128.	5.8	10
17	Adhesion Enhancements and Surface-Enhanced Raman Scattering Activity of Ag and Ag@SiO₂ Nanoparticle Decorated Ragweed Pollen Microparticle Sensor. ACS Applied Materials & Interfaces, 2017, 9, 24804-24811.	4.0	20
18	High-energy-density hybrid solâ€“gel dielectric film capacitors with a polymeric charge blocking layer. Journal of Materials Chemistry A, 2017, 5, 25522-25528.	5.2	7

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19	Keto-polymethines: a versatile class of dyes with outstanding spectroscopic properties for in cellulo and in vivo two-photon microscopy imaging. Chemical Science, 2017, 8, 381-394.	3.7	43
20	Nonlinear Optical Properties of Chalcogenopyrylium-Terminated Heptamethine Dyes in Multiple Polymer Hosts. , 2017, , .		0
21	Transient spectroscopic characterization of the ringâ€opening reaction of tetrahydrochromeno[2,3â€dimethyl]indole. Journal of Physical Organic Chemistry, 2016, 29, 221-226.	0.9	0
22	Effects of Counterions with Multiple Charges on the Linear and Nonlinear Optical Properties of Polymethine Salts. Chemistry of Materials, 2016, 28, 3115-3121.	3.2	29
23	Quasi-three-level model applied to measured spectra of nonlinear absorption and refraction in organic molecules. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 780.	0.9	22
24	TWO-PHOTON ABSORPTION: CONCEPTS, MOLECULAR MATERIALS AND APPLICATIONS. Materials and Energy, 2016, , 397-442.	2.5	2
25	Facile Incorporation of Pd(PPh₃)₂Hal Substituents into Polymethines, Merocyanines, and Perylene Diimides as a Means of Suppressing Intermolecular Interactions. Journal of the American Chemical Society, 2016, 138, 10112-10115.	6.6	29
26	Proton-Coupled Electron Transfer and a Tyrosineâ€“Histidine Pair in a Photosystem II-Inspired Î²-Hairpin Maquette: Kinetics on the Picosecond Time Scale. Journal of Physical Chemistry B, 2016, 120, 1259-1272.	1.2	24
27	Calcium Uncaging with Visible Light. Journal of the American Chemical Society, 2016, 138, 3687-3693.	6.6	67
28	Energy Storage: Bilayer Structure with Ultrahigh Energy/Power Density Using Hybrid Solâ€“Gel Dielectric and Chargeâ€Blocking Monolayer (Adv. Energy Mater. 19/2015). Advanced Energy Materials, 2015, 5, .	10.2	1
29	Luminescent Quadrupolar Borazine Oligomers: Synthesis, Photophysics, and Twoâ€Photon Absorption Properties. Chemistry - A European Journal, 2015, 21, 18237-18247.	1.7	45
30	Bilayer Structure with Ultrahigh Energy/Power Density Using Hybrid Solâ€“Gel Dielectric and Chargeâ€Blocking Monolayer. Advanced Energy Materials, 2015, 5, 1500767.	10.2	33
31	Fluorenylethynylpyrene derivatives with strong two-photon absorption: influence of substituents on optical properties. Journal of Materials Chemistry C, 2015, 3, 3730-3744.	2.7	39
32	Novel s-tetrazine-based dyes with enhanced two-photon absorption cross-section. Journal of Materials Chemistry C, 2015, 3, 8351-8357.	2.7	22
33	Proton-Coupled Electron Transfer in Tyrosine and a Î²-Hairpin Maquette: Reaction Dynamics on the Picosecond Time Scale. Journal of Physical Chemistry B, 2015, 119, 2726-2736.	1.2	20
34	Combined experimental and theoretical study of one- and two-photon absorption properties of Dâ€“Ïâ€“Aâ€“Ïâ€“D type bis(carbazolylfluorenylethynyl) arene derivatives: Influence of aromatic acceptor bridge. Dyes and Pigments, 2015, 113, 682-691.	2.0	32
35	Simulation of Light-Matter Interaction and Two-Photon Absorption Induced Charge Deposition by Ultrashort Optical Pulses in Silicon. IEEE Transactions on Nuclear Science, 2014, 61, 3504-3511.	1.2	15
36	Three-dimensional organic microlasers with low lasing thresholds fabricated by multiphoton and UV lithography. Optics Express, 2014, 22, 12316.	1.7	22

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37	Third-order nonlinear optical characterization of organic chromophores using liquid-core optical fibers. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 2455.	0.9	6
38	Two-Photon Absorption in CdSe Colloidal Quantum Dots Compared to Organic Molecules. ACS Nano, 2014, 8, 12572-12586.	7.3	35
39	Optimization of the electronic third-order nonlinearity of cyanine-like molecules for all optical switching. , 2014, , .		3
40	Design of Organic Chromophores for All-Optical Signal Processing Applications. Chemistry of Materials, 2014, 26, 549-560.	3.2	123
41	Surface-Initiated Polymerization from Barium Titanate Nanoparticles for Hybrid Dielectric Capacitors. ACS Applied Materials & Interfaces, 2014, 6, 3477-3482.	4.0	138
42	Molybdenum(<scp>vi</scp>) tris(dithiolene) complexes as a new class of three-dimensional two-photon absorption chromophores at telecommunications wavelengths. Journal of Materials Chemistry C, 2014, 2, 614-617.	2.7	6
43	Enhancement of breakdown strength and energy density in BaTiO₃/ferroelectric polymer nanocomposites via processing-induced matrix crystallinity and uniformity. RSC Advances, 2014, 4, 19668-19673.	1.7	20
44	Enhanced Permittivity and Energy Density in Neat Poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (fluoride-trifluoroethyler Morphology. ACS Applied Materials & Interfaces, 2014, 6, 9584-9589.	4.0	43
45	Polymethine materials with solid-state third-order optical susceptibilities suitable for all-optical signal-processing applications. Materials Horizons, 2014, 1, 577-581.	6.4	59
46	Nonlinear Optical Pulse Suppression via Ultrafast Photoinduced Electron Transfer in an Aggregated Perylene Diimide/Oligothiophene Molecular Triad. Journal of Physical Chemistry A, 2014, 118, 110-121.	1.1	17
47	Steady-state and time-resolved spectroscopic studies of green-to-red photoconversion of fluorescent protein Dendra2. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 280, 5-13.	2.0	13
48	Synthesis, structure, and one- and two-photon absorption properties of N-substituted 3,5-bisarylidenepropenpiperidin-4-ones. Journal of Molecular Structure, 2013, 1037, 288-293.	1.8	2
49	Synthesis and two-photon absorption property of a series of metalâ€“salen compounds containing a variety of thiophene moieties. Inorganic Chemistry Communication, 2013, 35, 152-155.	1.8	1
50	Indium tin oxide modified by titanium dioxide nanoparticles dispersed in poly(N-vinylpyrrolidone) for use as an electron-collecting layer in organic solar cells with an inverted structure. Journal of Materials Research, 2013, 28, 535-540.	1.2	4
51	Cyanineâ€Like Dyes with Large Bondâ€Length Alternation. Chemistry - A European Journal, 2013, 19, 10370-10377.	1.7	9
52	High-Energy-Density Solâ€“Gel Thin Film Based on Neat 2-Cyanoethyltrimethoxysilane. ACS Applied Materials & Interfaces, 2013, 5, 1544-1547.	4.0	15
53	Nonlinear Characterization of Thin Films by the Dual-Arm Z-scan Method. , 2013, , .		0
54	Dispersion of the Third-Order Nonlinear Optical Response of Organics Using a Few State Model. , 2012, , .		0

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55	Linear and nonlinear optical properties of Ag/Au bilayer thin films. Optics Express, 2012, 20, 8629.	1.7	21
56	All-optical switching based on inverse Raman scattering in liquid-core optical fibers. Optics Letters, 2012, 37, 942.	1.7	20
57	Correlating one-photon, two-photon and excited state spectroscopy of CdSe quantum dots. , 2012, , .		0
58	Impact of Electronic Coupling, Symmetry, and Planarization on One- and Two-Photon Properties of Triarylamines with One, Two, or Three Diarylboryl Acceptors. Journal of Physical Chemistry A, 2012, 116, 3781-3793.	1.1	88
59	Effect of alicyclic ring size on the photophysical and photochemical properties of bis(arylidene)cycloalkanone compounds. Physical Chemistry Chemical Physics, 2012, 14, 11743.	1.3	42
60	Practical Model for First Hyperpolarizability Dispersion Accounting for Both Homogeneous and Inhomogeneous Broadening Effects. Journal of Physical Chemistry Letters, 2012, 3, 2248-2252.	2.1	15
61	Excited state absorption: a key phenomenon for the improvement of biphotonic based optical limiting at telecommunication wavelengths. Physical Chemistry Chemical Physics, 2012, 14, 15299.	1.3	81
62	Effects of Dendronization on the Linear and Third-Order Nonlinear Optical Properties of Bis(thiopyrylium) Polymethine Dyes in Solution and the Solid State. Chemistry of Materials, 2012, 24, 1606-1618.	3.2	38
63	Photoinduced Electron Transfer and Nonlinear Absorption in Poly(carbazole-alt-2,7-fluorene)s Bearing Perylene Diimides as Pendant Acceptors. Journal of Physical Chemistry A, 2012, 116, 4305-4317.	1.1	19
64	Four wave mixing in silicon hybrid and silicon heterogeneous micro photonic structures. Proceedings of SPIE, 2012, , .	0.8	4
65	Biologically Enabled Syntheses of Freestanding Metallic Structures Possessing Subwavelength Pore Arrays for Extraordinary (Surface Plasmonâ€Mediated) Infrared Transmission. Advanced Functional Materials, 2012, 22, 2550-2559.	7.8	38
66	Gold Nanostructures: Biologically-Enabled Syntheses of Freestanding Metallic Structures Possessing Subwavelength Pore Arrays for Extraordinary (Surface Plasmon-Mediated) Infrared Transmission (Adv. Funct. Mater. 12/2012). Advanced Functional Materials, 2012, 22, 2655-2655.	7.8	0
67	Highâ€Opticalâ€Quality Blends of Anionic Polymethine Salts and Polycarbonate with Enhanced Thirdâ€Order Nonâ€linearities for Siliconâ€Organic Hybrid Devices. Advanced Materials, 2012, 24, OP326-30.	11.1	28
68	Materials for Loss-Based Switching in Silicon-Organic Hybrid Devices. , 2012, , .		1
69	Synthesis and linear and nonlinear optical properties of metal-terminated bis(dioxaborine) polymethines. Chemical Communications, 2011, 47, 782-784.	2.2	24
70	Photo-induced charge transfer and nonlinear absorption in dyads composed of a two-photon-absorbing donor and a perylene diimide acceptor. Journal of Materials Chemistry, 2011, 21, 16119.	6.7	41
71	Optically Enhanced, Near-IR, Silver Cluster Emission Altered by Single Base Changes in the DNA Template. Journal of Physical Chemistry B, 2011, 115, 7996-8003.	1.2	94
72	Synthesis and linear and nonlinear absorption properties of dendronised ruthenium(ii) phthalocyanine and naphthalocyanine. Chemical Communications, 2011, 47, 4547.	2.2	29

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73	Demonstration of Zeno switching through inverse Raman scattering in an optical fiber. Optics Express, 2011, 19, 12532.	1.7	8
74	Rapid, broadband two-photon-excited fluorescence spectroscopy and its application to red-emitting secondary reference compounds. Optical Materials Express, 2011, 1, 551.	1.6	49
75	All-optical switching via inverse Raman scattering in an optical fiber. , 2011, , .		0
76	The Ultrafast Nonlinear Optical Properties of Induced Transmission Filters. , 2011, , .		1
77	Hitless Low-Power All-Optical Absorption Based Switching with Organics on Silicon. , 2011, , .		0
78	Dioxaborine- and Indole-Terminated Polymethines: Effects of Bridge Substitution on Absorption Spectra and Third-Order Polarizabilities. Journal of Physical Chemistry A, 2011, 115, 2160-2168.	1.1	30
79	Organic Materials for Zeno-Based Optical Switching. , 2011, , .		0
80	Cyanine Dyes with Exceptional Third-Order Nonlinear Optical Figures-of-Merit for All-Optical Switching. , 2010, , .		0
81	The nonlinear optical response of transparent silver/gold multi-metal layers. , 2010, , .		0
82	A comprehensive study of the contributions to the nonlinear optical properties of thin Ag films. , 2010, , .		0
83	Fabrication of Photonic Crystals with Sub-100 nm Features using Multiphoton Lithography with Pre-swollen Resins. , 2010, , .		0
84	Using End Groups to Tune the Linear and Nonlinear Optical Properties of Bis(dioxaborine)â€Terminated Polymethine Dyes. ChemPhysChem, 2010, 11, 130-138.	1.0	29
85	A comprehensive analysis of the contributions to the nonlinear optical properties of thin Ag films. Journal of Applied Physics, 2010, 107, .	1.1	33
86	Photo-Induced Absorption of Donor-Acceptor Conjugated Copolymers for Optical Limiting. , 2010, , .		1
87	Design of Polymethine Dyes with Large Third-Order Optical Nonlinearities and Loss Figures of Merit. Science, 2010, 327, 1485-1488.	6.0	320
88	Two-photon absorption: an overview of measurements and principles. Advances in Optics and Photonics, 2010, 2, 451.	12.1	278
89	Nonlinear optical properties of induced transmission filters. Optics Express, 2010, 18, 19101.	1.7	11
90	Kinetically Controlled Photoinduced Electron Transfer Switching in Cu(I)-Responsive Fluorescent Probes. Journal of the American Chemical Society, 2010, 132, 737-747.	6.6	70

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91	Excited-state dynamics and dyeâ€“dye interactions in dye-coated gold nanoparticles with varying alkyl spacer lengths. Physical Chemistry Chemical Physics, 2010, 12, 6267.	1.3	23
92	Nonlinear Optical Properties of Layered Multi-Metal Nanostructures. , 2010, , .		0
93	Organic Materials for All-Optical Signal Processing and Optical Limiting. , 2010, , .		0
94	Organic materials for all-optical signal processing and optical limiting. SPIE Newsroom, 2010, , .	0.1	0
95	Two Beams Squeeze Feature Sizes in Optical Lithography. Science, 2009, 324, 892-893.	6.0	12
96	Layerâ€Byâ€Layer Dendritic Growth of Hyperbranched Thin Films for Surface Solâ€“Gel Syntheses of Conformal, Functional, Nanocrystalline Oxide Coatings on Complex 3D (Bio)silica Templates. Advanced Functional Materials, 2009, 19, 2768-2776.	7.8	55
97	Metalloporphyrin polymer with temporally agile, broadband nonlinear absorption for optical limiting in the near infrared. Optics Express, 2009, 17, 18478.	1.7	79
98	Conjugated polymer-fullerene blend with strong optical limiting in the near-infrared. Optics Express, 2009, 17, 22062.	1.7	27
99	High Energy Density Nanocomposites Based on Surface-Modified BaTiO₃ and a Ferroelectric Polymer. ACS Nano, 2009, 3, 2581-2592.	7.3	758
100	Electron Transfer-Induced Blinking in Ag Nanodot Fluorescence. Journal of Physical Chemistry C, 2009, 113, 20264-20270.	1.5	140
101	A New Class of Cyanine-like Dyes with Large Bond-Length Alternation. Journal of the American Chemical Society, 2009, 131, 6099-6101.	6.6	33
102	Non-Traditional Cyanines: Candidate Materials for All-Optical Signal Processing Applications. , 2009, , .		0
103	Enhanced Nonlinear Absorption in Low-Finesse Metal-Dielectric Fabry-Perot Resonators. , 2009, , .		1
104	Conformal Coating of Tailored Photonic Crystals Fabricated Using Multiphoton Lithography. , 2009, , .		0
105	Photo-Induced Absorption of Substituted Poly (Phenylene Vinylene)-Fullerene Composites for Optical Limiting. , 2009, , .		0
106	Relationship Between Structure and Solubility of Thiol-Protected Silver Nanoparticles and Assemblies. Topics in Catalysis, 2008, 47, 32-41.	1.3	31
107	Porphyrin Dimer Carbocations with Strong Near Infrared Absorption and Thirdâ€Order Optical Nonlinearity. Angewandte Chemie - International Edition, 2008, 47, 7095-7098.	7.2	71
108	Thick Opticalâ€Quality Films of Substituted Polyacetylenes with Large, Ultrafast Thirdâ€Order Nonlinearities and Application to Image Correlation. Advanced Materials, 2008, 20, 3199-3203.	11.1	18

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109	Update on 3D displays. Nature, 2008, 451, 636-637.	13.7	2
110	Two-Photon Absorbing Materials and Two-Photon-Induced Chemistry. , 2008, , 1-95.		39
111	Electrodeposition of Three-Dimensional Titania Photonic Crystals from Holographically Patterned Microporous Polymer Templates. Chemistry of Materials, 2008, 20, 1816-1823.	3.2	71
112	Tetrastyrylarene Derivatives: Comparison of One- and Two-Photon Spectroscopic Properties with Distyrylarene Analogues. Journal of Physical Chemistry C, 2008, 112, 8061-8071.	1.5	38
113	High performance polymer/BaTiO₃ nanocomposites based on surface-modified metal oxide nanoparticles using functional phosphonic acids for electronic applications. Materials Research Society Symposia Proceedings, 2008, 1113, 1.	0.1	2
114	Two-photon absorption in cross-shaped chromophores with phenylene-vinylene backbones. , 2008, , .		0
115	Large optical nonlinearities of conjugated porphyrin polymers in the near infrared. , 2008, , .		0
116	Third-harmonic generation in organic thin films as an alternative to degenerate four-wave mixing ultrafast optical image processing. , 2008, , .		0
117	Nonlinear optical properties of conjugated polymer charge transfer composites. , 2008, , .		0
118	Fast and efficient analysis and design of three-dimensional photonic crystal structures for functional dispersive devices. , 2008, , .		0
119	Processible Polyacetylene-Based χ⁽³⁾ Materials for Photonic Applications. , 2007, , .		0
120	Advances in Two-Photon 3D Microfabrication. , 2007, , .		0
121	65 nm feature sizes using visible wavelength 3-D multiphoton lithography. Optics Express, 2007, 15, 3426.	1.7	292
122	Materials for Multiphoton 3D Microfabrication. MRS Bulletin, 2007, 32, 561-565.	1.7	35
123	Design of Emission Ratiometric Metal-Ion Sensors with Enhanced Two-Photon Cross Section and Brightness. Journal of the American Chemical Society, 2007, 129, 11888-11889.	6.6	122
124	Phosphonic Acid-Modified Barium Titanate Polymer Nanocomposites with High Permittivity and Dielectric Strength. Advanced Materials, 2007, 19, 1001-1005.	11.1	567
125	Core-shell diamond-like silicon photonic crystals from 3D polymer templates created by holographic lithography. , 2007, , .		3
126	Extended Squaraine Dyes with Large Two-Photon Absorption Cross-Sections. Journal of the American Chemical Society, 2006, 128, 14444-14445.	6.6	205

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127	Bisdioxaborine Polymethines with Large Third-Order Nonlinearities for All-Optical Signal Processing. Journal of the American Chemical Society, 2006, 128, 11362-11363.	6.6	140
128	Ultrafast Energy Migration in Chromophore Shellâ^'Metal Nanoparticle Assemblies. Journal of the American Chemical Society, 2006, 128, 10988-10989.	6.6	19
129	Core-shell diamond-like silicon photonic crystals from 3D polymer templates created by holographic lithography. Optics Express, 2006, 14, 6297.	1.7	38
130	Measurement of complex ?(3) using degenerate four-wave mixing with an imaged 2-D phase grating. Optics Express, 2006, 14, 8737.	1.7	16
131	Cell Signaling and Trafficking of Human Melanocortin Receptors in Real Time Using Two-photon Fluorescence and Confocal Laser Microscopy: Differentiation of Agonists and Antagonists. Chemical Biology and Drug Design, 2006, 68, 183-193.	1.5	21
132	One- and two-photon induced phase transition behavior of nematic liquid crystals containing bis-styryl benzene as a photoresponsive chromophore. Thin Solid Films, 2006, 509, 118-122.	0.8	2
133	New derivatives of cyclohexanone and piperidone compounds for bioluminous sensing. , 2006, 6097, 85.		0
134	Toward the realization of practicable materials for χ⁽³⁾ based photonic applications. , 2006, , .		0
135	Strong, Low-Energy Two-Photon Absorption in Extended Amine-Terminated Cyano-Substituted Phenylenevinylene Oligomers. Journal of the American Chemical Society, 2005, 127, 10844-10845.	6.6	124
136	Two-Photon Absorption in Linear Bis-dioxaborine Compoundsâ€"The Impact of Correlation-Induced Oscillator-Strength Redistribution. ChemPhysChem, 2004, 5, 982-988.	1.0	25
137	Metal-Ion Sensing Fluorophores with Large Two-Photon Absorption Cross Sections:Â Aza-Crown Ether Substituted Donorâ^'Acceptorâ^'Donor Distyrylbenzenes. Journal of the American Chemical Society, 2004, 126, 9291-9306.	6.6	206
138	Two-Photon Absorption in Three-Dimensional Chromophores Based on [2.2]-Paracyclophane. Journal of the American Chemical Society, 2004, 126, 11529-11542.	6.6	161
139	Limitations of Essential-State Models for the Description of Two-Photon Absorption Processes:Â The Example of Bis(dioxaborine)-Substituted Chromophoresâ€. Journal of Physical Chemistry B, 2004, 108, 8641-8646.	1.2	31
140	Real Time Differentiation of G-Protein Coupled Receptor (GPCR) Agonist and Antagonist by Two Photon Fluorescence Laser Microscopy. Journal of the American Chemical Society, 2004, 126, 7160-7161.	6.6	30
141	<title>Two-photon microfabrication of switchable diffractive optical devices</title>. , 2004, , .		1
142	Water-soluble 1,4-bis(4-aminostyryl)benzene derivatives for biological two-photon applications. , 2004, 5516, 21.		0
143	High-sensitivity material systems for two-photon three dimensional microfabrication. , 2004, , .		0
144	Chemically Amplified Positive Resists for Two-Photon Three-Dimensional Microfabrication. Advanced Materials, 2003, 15, 517-521.	11.1	76

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145	Design and application of high-sensitivity two-photon initiators for three-dimensional microfabrication. Journal of Photochemistry and Photobiology A: Chemistry, 2003, 158, 163-170.	2.0	108
146	Ultrabright Supramolecular Beacons Based on the Self-Assembly of Two-Photon Chromophores on Metal Nanoparticles. Journal of the American Chemical Society, 2003, 125, 328-329.	6.6	87
147	Bis(dioxaborine) compounds with large two-photon cross sections, and their use in the photodeposition of silver. Chemical Communications, 2003, , 1490-1491.	2.2	90
148	Information storage and retrieval using macromolecules as storage media. , 2003, , .		4
149	One- and two-photon induced growth of ligand-coated nanoparticles for 2D and 3D metal patterning. , 2002, 4809, 62.		1
150	<title>New liquid crystal materials enabling revolutionary display devices</title>. , 2002, , .		0
151	High-sensitivity two-photon photoacid generator for three-dimensional microfabrication. , 2002, 4809, 170.		1
152	One- and Two-Photon Spectroscopy of Donorâ^'Acceptorâ^'Donor Distyrylbenzene Derivatives:â€‰ Effect of Cyano Substitution and Distortion from Planarity. Journal of Physical Chemistry A, 2002, 106, 11470-11480.	1.1	227
153	Five Orders-of-Magnitude Enhancement of Two-Photon Absorption for Dyes on Silver Nanoparticle Fractal Clusters. Journal of Physical Chemistry B, 2002, 106, 6853-6863.	1.2	204
154	An Efficient Two-Photon-Generated Photoacid Applied to Positive-Tone 3D Microfabrication. Science, 2002, 296, 1106-1109.	6.0	709
155	Efficient Photoacids Based upon Triarylamine Dialkylsulfonium Salts. Journal of the American Chemical Society, 2002, 124, 1897-1901.	6.6	64
156	Tuning the two-photon absorption response of quadrupolar organic molecules. Journal of Chemical Physics, 2002, 116, 3646-3658.	1.2	119
157	Photoresponsive Hydrogel Microstructure Fabricated by Two-Photon Initiated Polymerization. Advanced Functional Materials, 2002, 12, 611-614.	7.8	142
158	Title is missing!. Advanced Functional Materials, 2002, 12, 631-641.	7.8	366
159	Optimizing Two-Photon Initiators and Exposure Conditions for Three-Dimensional Lithographic Microfabrication.. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2001, 14, 657-668.	0.1	87
160	<title>Three-dimensional microfabrication using two-photon-activated chemistry</title>. , 2000, 3937, 97.		10
161	Structureâ^'Property Relationships for Two-Photon Absorbing Chromophores:Â Bis-Donor Diphenylpolyene and Bis(styryl)benzene Derivatives. Journal of the American Chemical Society, 2000, 122, 9500-9510.	6.6	842
162	Theoretical Design of Organic Chromophores with Large Two-Photon Absorption Cross-Sections. , 2000, , 53-65.		1

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163	Two-photon polymerization initiators for three-dimensional optical data storage and microfabrication. Nature, 1999, 398, 51-54.	13.7	2,134
164	Studies of the Electronic Structure of Metallocene-Based Second-Order Nonlinear Optical Dyes. Journal of the American Chemical Society, 1999, 121, 3715-3723.	6.6	268
165	Design of Organic Molecules with Large Two-Photon Absorption Cross Sections. , 1998, 281, 1653-1656.		2,047
166	Mechanisms for enhancement of two-photon absorption in donorâ€“acceptor conjugated chromophores. Chemical Physics Letters, 1998, 298, 1-6.	1.2	318
167	Three-dimensional microfabrication using two-photon polymerization. , 1998, , .		0
168	The synthesis of a symmetrically substituted Î±-octa(isopentoxy)anthralocyanine. Chemical Communications, 1997, , 1353-1354.	2.2	24
169	Two-photon absorption and broadband optical limiting with bis-donor stilbenes. Optics Letters, 1997, 22, 1843.	1.7	689
170	Chromophores with Strong Heterocyclic Acceptors: A Poled Polymer with a Large Electro-Optic Coefficient. Science, 1996, 271, 335-337.	6.0	208
171	Organic Optical Limiter with a Strong Nonlinear Absorptive Response. Science, 1996, 273, 1533-1536.	6.0	728
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