

Debabrata Goswami

List of Publications by Year in descending order

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Version: 2024-02-01

215
papers

2,901
citations

236612

25
h-index

205818

48
g-index

223
all docs

223
docs citations

223
times ranked

2494
citing authors

#	ARTICLE	IF	CITATIONS
1	Poly-lysinated nanoscale carbon probe for low power two-photon bioimaging. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 270, 120778.	2.0	2
2	Sensing non-ideal microheterogeneity in binary mixtures of dimethyl sulfoxide and water. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 054001.	1.0	1
3	Achieving molecular distinction in alcohols with femtosecond thermal lens spectroscopy. <i>Chemical Physics</i> , 2022, 561, 111596.	0.9	3
4	Comparative study of the real-time optical trapping in the Rayleigh regime for continuous and femtosecond pulsed lasers. <i>Optics and Laser Technology</i> , 2021, 136, 106770.	2.2	7
5	Understanding femtosecond optical tweezers: the critical role of nonlinear interactions. <i>Journal of Physics: Conference Series</i> , 2021, 1919, 012013.	0.3	2
6	Unraveling molecular interactions in binary liquid mixtures with time-resolved thermal-lens-spectroscopy. <i>Journal of Molecular Liquids</i> , 2021, 336, 116322.	2.3	9
7	On the spatiotemporal control with a single beam femtosecond optical tweezer. , 2021, , .		0
8	Semi-Supervised Approaches to Ultrafast Pulse Shaping. <i>Springer Proceedings in Physics</i> , 2021, , 747-749.	0.1	0
9	Using Femtosecond Coherent Oscillations to Unravel Dynamics of Complex Systems. <i>Springer Proceedings in Physics</i> , 2021, , 59-61.	0.1	0
10	Experimental Comparison of Conventional and Femtosecond Optical Tweezers. , 2021, , .		1
11	Detecting in-situ phase separation with Femtosecond thermal lens spectroscopy to map COVID-19 transmission. , 2021, , .		1
12	Understanding the Photothermal Response of CBNP Nanofluids Using Thermal Lens Spectroscopic Techniques. , 2021, , .		1
13	Unraveling the molecular dependence of femtosecond laser-induced thermal lens spectroscopy in fluids. <i>Analyst, The</i> , 2020, 145, 929-938.	1.7	18
14	Two-Photon-Induced Fluorescence Study of Rhodamine-6G Dye in Different Sets of Binary Solvents. <i>Journal of Fluorescence</i> , 2020, 30, 1043-1048.	1.3	3
15	Organic-inorganic hybrid halide perovskites impregnated with Group 1 and 15 elements for solar cell application. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 144, 109518.	1.9	10
16	Nicolaas Bloembergen (1920â€“2017). <i>Resonance</i> , 2020, 25, 1653-1657.	0.2	0
17	Sensing the insensible using optical schemes: converting the maze problem into a quantum search problem. , 2020, , .		0
18	Elucidating optical field directed hierarchical self-assembly of homogenous versus heterogeneous nanoclusters with femtosecond optical tweezers. <i>PLoS ONE</i> , 2019, 14, e0223688.	1.1	6

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19	Thermal Lens Study of NIR Femtosecond Laser-Induced Convection in Alcohols. ACS Omega, 2019, 4, 1889-1896.	1.6	22
20	Excited state absorption and relaxation dynamics in a series of heptamethine dyes under femtosecond and nanosecond excitations. Physica Scripta, 2019, 94, 095501.	1.2	5
21	Polarization induced control of optical trap potentials in binary liquids. Scientific Reports, 2019, 9, 700.	1.6	5
22	Study of Starch Using Bright Field and Polarized Light Microscopy. , 2019, , .		0
23	Qubit Network Barriers to Deep Learning. , 2019, , .		0
24	Sensitive Detection of Phase Separation with Femtosecond Thermal Lens Spectroscopy. , 2019, , .		1
25	Thermal Inflection Study of Methanol-Hexane Mixtures using Time-Resolved Thermal Lens Technique. , 2019, , .		0
26	Sensing the Molecular Properties in Methanol and its Binary Mixtures using Time-Resolved Thermal Lens Spectrometer. , 2019, , .		1
27	Space Filling Curves: Heuristics For Semi Classical Lasing Computations. , 2019, , .		2
28	Manifesting the Effects of Thermal Nonlinearity in Optical Trapping for Rayleigh Regime. , 2019, , .		1
29	Rapid programmable pulse shaping of femtosecond pulses at the MHz repetition rate. OSA Continuum, 2019, 2, 1386.	1.8	11
30	Femtosecond Laser Induced Spatiotemporal Control for Remote Sensing and Computation at Nanoscale. , 2019, , .		0
31	Molecular Size and Mass Sensitive Femtosecond Thermal Spectrometer. , 2019, , .		1
32	Visualizing colloidal aggregation with femtosecond optical tweezers. , 2019, , .		0
33	Title is missing!. , 2019, 14, e0223688.		0
34	Title is missing!. , 2019, 14, e0223688.		0
35	Title is missing!. , 2019, 14, e0223688.		0
36	Title is missing!. , 2019, 14, e0223688.		0

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37	Title is missing!. , 2019, 14, e0223688.		0
38	Title is missing!. , 2019, 14, e0223688.		0
39	White Light Induced E/Z-Photoisomerization of Diphenylamine-Tethered Fluorescent Stilbene Derivatives: Synthesis, Photophysical, and Electrochemical Investigation. Journal of Organic Chemistry, 2018, 83, 3669-3678.	1.7	23
40	Observing ground state vibrational coherence and excited state relaxation dynamics of a cyanine dye in pure solvents. Physical Chemistry Chemical Physics, 2018, 20, 13400-13411.	1.3	11
41	Femtosecond Laser-Induced Photothermal Effect for Nanoscale Viscometer and Thermometer. IITK Directions, 2018, , 13-17.	0.2	0
42	Nobel Prize in Physics â€“ 2018. Resonance, 2018, 23, 1333-1341.	0.2	5
43	Solvent Effect on Dual Fluorescence and the Corresponding Excited State Dynamics. Reviews in Fluorescence, 2018, , 145-160.	0.5	1
44	Spectrally resolved photon-echo spectroscopy of CdSe quantum dots at far from resonance excitation condition $S^{\wedge}\{S\}$ Å\$. Journal of Chemical Sciences, 2018, 130, 1.	0.7	0
45	On-the-Fly Calibrated Measure and Remote Control of Temperature and Viscosity at Nanoscale. ACS Omega, 2018, 3, 12304-12311.	1.6	4
46	Two Photon Spectroscopy Can Serve as a Marker of Protein Denaturation Pathway. Journal of Fluorescence, 2018, 28, 855-862.	1.3	2
47	Solvent effect on multiple emission and ultrafast dynamics of higher excited states. Chemical Physics Letters, 2018, 706, 375-379.	1.2	13
48	Deciphering micro-polarity inside the endoplasmic reticulum using a two-photon active solvatofluorochromic probe. Chemical Communications, 2018, 54, 10590-10593.	2.2	23
49	In situ temperature control and measurement with femtosecond optical tweezers: offering biomedical application. Proceedings of SPIE, 2017, , .	0.8	0
50	Structured interferometry features in femtosecond supercontinuum: towards better understanding of supercontinuum for bio applications. , 2017, , .		0
51	Extracting third order optical nonlinearities of Mn(III)-Phthalocyanine chloride using high repetition rate femtosecond pulses. Journal of Applied Physics, 2017, 121, 053103.	1.1	12
52	Concentration Dependent Approach for Accurate Determination of Two-Photon Absorption Cross-Section of Fluorescent dye Molecule. Journal of Fluorescence, 2017, 27, 1399-1403.	1.3	8
53	A Dual-Signaling Ferrocene-Pyrene Dyad: Triple-Mode Recognition of the Cu(II) Ions in Aqueous Medium. Journal of Fluorescence, 2017, 27, 2279-2286.	1.3	8
54	pH Effect on Two-Photon Cross Section of Highly Fluorescent Dyes Using Femtosecond Two-Photon Induced Fluorescence. Journal of Fluorescence, 2017, 27, 339-356.	1.3	3

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55	Measurement of pure optical nonlinearity in carbon disulfide with a high-repetition-rate femtosecond laser. <i>Applied Optics</i> , 2017, 56, 644.	2.1	13
56	Two-Dimensional Imaging of a Second-Order Nonlinear Optical Process. <i>Current Science</i> , 2017, 112, 830.	0.4	1
57	Microrheology Study of Aqueous Suspensions of Laponite using Femtosecond Optical Tweezers. , 2017, , .		1
58	Two-photon Absorption Cross Sections in a Dual-signaling Ferrocene-pyrene Conjugate. , 2016, , .		0
59	Reverse Saturable Absorption followed by Anomalous Saturable Absorption in Rhodamine-700. , 2016, , .		0
60	Structure and dynamics of optically directed self-assembly of nanoparticles. <i>Scientific Reports</i> , 2016, 6, 23318.	1.6	11
61	On the interferometric coherent structures in femtosecond supercontinuum generation. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1.	1.1	3
62	Two-Photon Fluorescence Tracking of Colloidal Clusters. <i>Journal of Fluorescence</i> , 2016, 26, 1271-1277.	1.3	2
63	Sensitive <i>in situ</i> nanothermometer using femtosecond optical tweezers. <i>Journal of Nanophotonics</i> , 2016, 10, 026013.	0.4	2
64	Temperature control and measurement with tunable femtosecond optical tweezers. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
65	Third-order nonlinear optical response and ultrafast dynamics of tetraoxa[22]porphyrin(2.1.2.1)s. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9445-9453.	2.7	22
66	Precise control and measurement of solid-liquid interfacial temperature and viscosity using dual-beam femtosecond optical tweezers in the condensed phase. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 25823-25830.	1.3	9
67	Assembly of bipolar microtubule structures by passive cross-linkers and molecular motors. <i>Physical Review E</i> , 2016, 93, 062415.	0.8	9
68	Controlling and tracking of colloidal nanostructures through two-photon fluorescence. <i>Methods and Applications in Fluorescence</i> , 2016, 4, 044004.	1.1	11
69	Spatiotemporal control of degenerate multiphoton fluorescence microscopy with delay-tunable femtosecond pulse pairs. <i>Chemical Physics Letters</i> , 2016, 657, 72-77.	1.2	3
70	Investigating Two-Photon-Induced Fluorescence in Rhodamine-6G in Presence of Cetyl-Trimethyl-Ammonium-Bromide. <i>Journal of Fluorescence</i> , 2016, 26, 1573-1577.	1.3	6
71	Probing Intermolecular Interactions in Binary Liquid Mixtures Using Femtosecond Laser-Induced Self-Defocusing. <i>Applied Spectroscopy</i> , 2016, 70, 1655-1661.	1.2	5
72	Nonlinear absorption in tetrathia[22]porphyrin(2.1.2.1)s: visualizing strong reverse saturable absorption at non-resonant excitation. <i>RSC Advances</i> , 2016, 6, 22659-22663.	1.7	12

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73	Precise Control and Measurement of Temperature with Femtosecond Optical Tweezers. Biophysical Journal, 2016, 110, 500a.	0.2	0
74	Sensitive dual beam thermal lens detection of convection in methanol. , 2016, , .		1
75	Characterization of optically field directed self-assembly of colloidal clusters using femtosecond optical tweezers. , 2016, , .		0
76	Elucidating Two Photon FRET and its application through femtosecond optical tweezers. , 2016, , .		0
77	Femtosecond optical tweezers as sensitive nano-thermometer. , 2016, , .		0
78	Direct Observation of Diatoms Pair Formation in Aqueous Solution Under Laser Scanning Fluorescence Microscopy. , 2016, , .		0
79	Quantum Distributed Computing with Shaped Laser Pulses. , 2016, , .		2
80	Generation of Stable Overlaps between Antiparallel Filaments. Physical Review Letters, 2015, 115, 118103.	2.9	19
81	Exploring the critical role of detection aperture in thermal lens measurements. , 2015, , .		0
82	Demonstrating a nano viscometer using femtosecond laser induced photo-thermal effect. , 2015, , .		1
83	Direct Observation of Coherent Oscillations in Solution due to Microheterogeneous Environment. Scientific Reports, 2015, 4, 6097.	1.6	7
84	Sensing near the liquid:liquid interface remotely via ultrafast pump probe study. , 2015, , .		0
85	Spatiotemporal control of energy transfer in optically trapped systems. , 2015, , .		1
86	Dynamics of chemical bond: general discussion. Faraday Discussions, 2015, 177, 121-154.	1.6	8
87	Effect of zinc substitution on molecular dynamics of protoporphyrin-IX. Indian Journal of Physics, 2015, 89, 1183-1192.	0.9	0
88	Local and Global Dynamics: general discussion. Faraday Discussions, 2015, 177, 381-403.	1.6	0
89	Elucidating microscopic structure and dynamics in optically tweezed environments. Chemical Physics Letters, 2015, 621, 203-208.	1.2	7
90	Measurement constraints in laser based thermal lens experiments. Proceedings of SPIE, 2015, , .	0.8	0

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91	Time and Space resolved Methods: general discussion. Faraday Discussions, 2015, 177, 263-292.	1.6	1
92	Controlling local temperature in water using femtosecond optical tweezer. Biomedical Optics Express, 2015, 6, 3190.	1.5	14
93	Controlling the effect on solvent by resonant excitation in femtosecond optical tweezer. , 2015, , .		0
94	Exploring the physics of efficient optical trapping of dielectric nanoparticles with ultrafast pulsed excitation. Applied Optics, 2015, 54, 7002.	2.1	28
95	Calibration of femtosecond optical tweezer as a sensitive thermometer. Proceedings of SPIE, 2015, , .	0.8	2
96	Future challenges: general discussion. Faraday Discussions, 2015, 177, 517-545.	1.6	3
97	Resolution enhancement through microscopic spatiotemporal control. Faraday Discussions, 2015, 177, 203-212.	1.6	2
98	Importance of Hydrogen Bonding in Thermal Lens Study of Highly Absorbing Liquids. , 2015, , .		0
99	Importance of Molecular Structure on the Thermophoresis of Binary Mixtures. Journal of Physical Chemistry B, 2014, 118, 141210091038002.	1.2	9
100	Graphene oxide from silk cocoon: a novel magnetic fluorophore for multi-photon imaging. 3 Biotech, 2014, 4, 67-75.	1.1	31
101	Effect of molecular structural isomers in thermal lens spectroscopy. Chemical Physics Letters, 2014, 601, 163-167.	1.2	17
102	Unusual behavior of thermal lens in alcohols. Physical Chemistry Chemical Physics, 2014, 16, 12291-12298.	1.3	16
103	Importance of molecular heat convection in time resolved thermal lens study of highly absorbing samples. Chemical Physics, 2014, 441, 5-10.	0.9	28
104	Effect of isotope substitution in binary liquids with Thermal-Lens spectroscopy. Chemical Physics Letters, 2014, 598, 35-38.	1.2	8
105	Quantum Distributed Computing Applied to Grover's Search Algorithm. Lecture Notes in Computer Science, 2014, , 192-199.	1.0	1
106	Highly Nonlinear Femtosecond Processes in Liquid Phase: Water Cluster Raman Spectra and Microheterogeneity Induced Coherent Oscillations. , 2014, , .		0
107	Polarization induced control of multiple fluorescence from a molecule. Chemical Physics Letters, 2013, 579, 45-50.	1.2	17
108	Controlling the femtosecond laser-driven transformation of dicyclopentadiene into cyclopentadiene. Chemical Physics Letters, 2013, 558, 1-7.	1.2	5

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109	Fluorescence advantages with microscopic spatiotemporal control. Proceedings of SPIE, 2013, , .	0.8	0
110	Study of self defocusing in liquids using single beam Z-scan with High repetition rate laser pulses. , 2012, , .		1
111	Exploring control parameters of two photon processes in solutions#. Journal of Chemical Sciences, 2012, 124, 281-289.	0.7	3
112	Chirp and polarization control of femtosecond molecular fragmentation. Indian Journal of Physics, 2012, 86, 181-185.	0.9	3
113	Ultrafast nonlinear optical response of carbon nanotubes functionalized with water soluble porphyrin. Optics Communications, 2012, 285, 1920-1924.	1.0	18
114	Insignificance of Relative Time delay between Photons for a Ultrafast Two-photon Process. , 2012, , .		0
115	Effect of linear chirp on femtosecond two-photon processes in solution. Journal of Spectroscopy and Dynamics, 2012, 2, .	0.0	0
116	Towards controlling molecular motions in fluorescence microscopy and optical trapping: a spatiotemporal approach. International Reviews in Physical Chemistry, 2011, 30, 275-299.	0.9	17
117	Probing Intermolecular Interaction through Thermal-Lens Spectroscopy. Journal of Physical Chemistry B, 2011, 115, 262-268.	1.2	30
118	Efficient ultrafast optical limiting using single walled carbon nanotubes functionalized noncovalently with free base and metalloporphyrins. Journal of Applied Physics, 2011, 109, .	1.1	22
119	An efficient nanocomposite based on carbon nanotubes functionalized with a fluorescent ink for ultrafast optical limiting. Materials Letters, 2011, 65, 915-917.	1.3	8
120	Two-Photon Absorption Technique for Selective Detection of Copper(II) Ions in Aqueous Solution Using a Dansyl-Pyrene Conjugate. Chemistry - an Asian Journal, 2011, 6, 2246-2250.	1.7	16
121	Structure and hydrogen bond vibrations of the jet-cooled 1:1 complex between 7-azaindole and formamide: A laser-induced fluorescence spectroscopy study. Chemical Physics Letters, 2011, 503, 203-209.	1.2	7
122	Thermal-Lens Spectroscopy in Binary Liquids Mixtures: Effect of Isotope Substitution. , 2011, , .		0
123	Fluorophore discrimination by tracing quantum interference in fluorescence microscopy. Physical Review A, 2011, 83, .	1.0	4
124	Selective two-photon fluorescence suppression by ultrafast pulse-pair excitation: control by selective one-color stimulated emission. Journal of Biomedical Optics, 2011, 16, 100505.	1.4	4
125	Towards Using Molecular States as Qubits. , 2011, 1384, 251-253.		0
126	Polarization modulated Ultrafast Pulse-Pair Control in Two-Photon Fluorescence Microscopy. , 2011, , .		0

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127	Microscopic probing of two-photon fluorescence for cancer diagnosis. <i>Current Science</i> , 2011, 100, 294-295.	0.4	1
128	Two-photon fluorescence diagnostics of femtosecond laser tweezers. <i>Current Science</i> , 2011, 101, 935-945.	0.4	4
129	Towards using molecular ions as qubits: Femtosecond control of molecular fragmentation with multiple knobs. <i>Pramana - Journal of Physics</i> , 2010, 75, 1065-1069.	0.9	0
130	Coumarin derived chromophores in the donor-acceptor-donor format that gives fluorescence enhancement and large two-photon activity in presence of specific metal ions. <i>Inorganica Chimica Acta</i> , 2010, 363, 2824-2832.	1.2	35
131	Applying genetic algorithm optimization to a folded geometry acousto-optic modulated spatial pulse shaper. <i>Review of Scientific Instruments</i> , 2010, 81, 013101.	0.6	6
132	Polarization induced control of single and two-photon fluorescence. <i>Journal of Chemical Physics</i> , 2010, 132, 154508.	1.2	24
133	Control of femtosecond laser driven retro-Diels-Alder-like reaction of dicyclopentadiene. <i>Proceedings of SPIE</i> , 2010, 8173, .	0.8	0
134	Spectrally resolved femtosecond photon echo spectroscopy of astaxanthin. <i>Proceedings of SPIE</i> , 2010, 8173, .	0.8	0
135	Selective suppression of two-photon fluorescence in laser scanning microscopy by ultrafast pulse-train excitation. <i>Journal of Biomedical Optics</i> , 2010, 15, 060502.	1.4	7
136	Spatio-temporal control in multiphoton fluorescence laser-scanning microscopy. <i>Proceedings of SPIE</i> , 2010, 7569, .	0.8	6
137	Towards stable trapping of single macromolecules in solution. , 2010, 7762, .		7
138	Thermal-Lens spectroscopy in binary liquids mixtures. , 2010, , .		0
139	Spatio-Temporal Control in Multiphoton Fluorescence Laser-Scanning Microscopy. <i>Biophysical Journal</i> , 2010, 98, 586a.	0.2	0
140	Synthesis, Structure, and Two-Photon Absorption Studies of a Phosphorus-Based Tris Hydrazone Ligand (<i>S</i>)-P[N(Me)N(CH ₂) ₆ H ₃ -OH-N(CH ₂) ₂ CH ₂ CH ₂] ₃ and Its Metal Complexes. <i>Inorganic Chemistry</i> , 2010, 49, 4008-4016.	1.9	34
141	Femtosecond Spatiotemporal Control with Multiple Knobs. , 2010, , .		0
142	Coherent control in multiphoton fluorescence imaging. <i>Proceedings of SPIE</i> , 2009, 7183, .	0.8	1
143	Three-dimensional image formation under single-photon ultra-short pulsed illumination. <i>Proceedings of SPIE</i> , 2009, 7378, .	0.8	0
144	Towards spatio-temporal control in optical trapping. <i>Proceedings of SPIE</i> , 2009, 7400, .	0.8	3

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145	Ultrafast pulse-pair control in multiphoton fluorescence laser-scanning microscopy. <i>Journal of Biomedical Optics</i> , 2009, 14, 064018.	1.4	7
146	Control of laser induced molecular fragmentation of n-propyl benzene using chirped femtosecond laser pulses. <i>Chemical Physics</i> , 2009, 360, 47-52.	0.9	21
147	Exploring the Nature of Photo-Damage in Two-photon Excitation by Fluorescence Intensity Modulation. <i>Journal of Fluorescence</i> , 2009, 19, 381-386.	1.3	20
148	A Systematic Study on Fluorescence Enhancement under Single-photon Pulsed Illumination. <i>Journal of Fluorescence</i> , 2009, 19, 931-937.	1.3	8
149	Adding new dimensions to laser-scanning fluorescence microscopy. <i>Journal of Microscopy</i> , 2009, 233, 320-325.	0.8	5
150	A simple twist for signal enhancement in non-linear optical microscopy. <i>Journal of Microscopy</i> , 2009, 235, 119-123.	0.8	3
151	Acyclic donor-acceptor donor chromophores for large enhancement of two-photon absorption cross-section in the presence of Mg(II), Ca(II) or Zn(II) ions. <i>Journal of Luminescence</i> , 2009, 129, 256-262.	1.5	10
152	Solvent effect on two-photon absorption and fluorescence of rhodamine dyes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009, 206, 188-197.	2.0	84
153	Molecular structure-property correlations from optical nonlinearity and thermal-relaxation dynamics. <i>Chemical Physics Letters</i> , 2009, 469, 104-109.	1.2	33
154	Spectrally resolved photon echo spectroscopy of Zn(II), Co(II) and Ni(II)-octaethyl porphyrins. <i>Chemical Physics Letters</i> , 2009, 476, 31-36.	1.2	4
155	Probing the Ultrafast Solution Dynamics of a Cyanine Dye in an Organic Solvent Interfaced with Water. <i>Journal of Physical Chemistry B</i> , 2009, 113, 16332-16336.	1.2	10
156	Two-photon cross-section measurements using an optical chopper-z-scan and two-photon fluorescence schemes. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 065103.	0.6	37
157	Stable optical trapping of latex nanoparticles with ultrashort pulsed illumination. <i>Applied Optics</i> , 2009, 48, C33.	2.1	54
158	Coded nanoscale self-assembly. <i>Pramana - Journal of Physics</i> , 2008, 71, 1345-1351.	0.9	2
159	Attachment of Different Donor Groups to a Cryptand for Modulation of Two-photon Absorption Cross-section. <i>Chemistry - A European Journal</i> , 2008, 14, 10628-10638.	1.7	16
160	Diaza-18-crown-6 based chromophores for modulation of two-photon absorption cross-section by metal ions. <i>Journal of Organometallic Chemistry</i> , 2008, 693, 1186-1194.	0.8	6
161	Propagation of complex shaped ultrafast pulses in highly optically dense samples. <i>Journal of Chemical Physics</i> , 2008, 128, 154312.	1.2	4
162	Nanocomputing. , 2008, , 215-265.		0

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163	ON THE PRACTICALITY OF ADIABATIC QUANTUM COMPUTING WITH OPTICAL SCHEMES. International Journal of Quantum Information, 2007, 05, 179-188.	0.6	2
164	Probing coherence aspects of adiabatic quantum computation and control. Journal of Chemical Physics, 2007, 127, 124305.	1.2	4
165	A Sensitive Technique for Two-Photon Absorption Measurements: Towards Higher Resolution Microscopy. Journal of Physics: Conference Series, 2007, 80, 012034.	0.3	7
166	Nonlinear optical properties of free standing films of PbS quantum dots in the nonresonant femtosecond regime. Proceedings of SPIE, 2007, 6639, 66390M1-66390M7.	0.8	1
167	One-Pot Synthesis of Core-Modified RUBYRIN, OCTAPHYRIN, and DODECAPHYRIN: Characterization and Nonlinear Optical Properties. European Journal of Organic Chemistry, 2007, 2007, 4552-4562.	1.2	22
168	Metal induced enhancement of fluorescence and modulation of two-photon absorption cross-section with a donor-acceptor-acceptor-donor receptor. Journal of Organometallic Chemistry, 2007, 692, 4969-4977.	0.8	11
169	Time Comb Pulses Through Ultrafast Pulse Shaping. , 2007, , .		0
170	22-mer Smaragdyrin Molecular Conjugates with Aromatic Phenylacetylenes and Ferrocenes: Syntheses, Electrochemical, and Photonic Properties. Journal of the American Chemical Society, 2006, 128, 16083-16091.	6.6	83
171	Modified (22-mer) Smaragdyrins with Large Two-Photon Absorption Cross Section: A Structure Function Correlation. Organic Letters, 2006, 8, 629-631.	2.4	43
172	Zinc(II)- and Copper(I)-Mediated Large Two-Photon Absorption Cross Sections in a Bis-cinnamaldiminato Schiff Base. Journal of the American Chemical Society, 2006, 128, 402-403.	6.6	142
173	Aromatic Core Modified Decaphyrins with the Largest Two-Photon Absorption Cross-Sections: Syntheses and Characterization. Organic Letters, 2006, 8, 2325-2328.	2.4	60
174	Adiabatic Quantum Computation: Coherent Control Back Action. AIP Conference Proceedings, 2006, 864, 273-294.	0.3	1
175	Structure property correlations in alcohols through two-photon absorption cross-section measurements. Chemical Physics Letters, 2006, 430, 420-423.	1.2	8
176	High sensitive measurements of absorption coefficient and optical nonlinearities. Optics Communications, 2006, 261, 158-162.	1.0	10
177	Dependence of adiabatic population transfer on pulse profile. Pramana - Journal of Physics, 2006, 66, 999.	0.9	0
178	ULTRAFAST PULSE SHAPING DEVELOPMENTS FOR QUANTUM COMPUTATION. , 2006, , .		0
179	Adiabatic quantum computing with phase modulated laser pulses. Journal of Physics A, 2005, 38, L615-L626.	1.6	9
180	Polarization-induced modulation of a femtosecond nonlinear process. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 341, 523-526.	0.9	5

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181	Quantum computation with ultrafast laser pulse shaping. Resonance, 2005, 10, 8-14.	0.2	0
182	Multiphoton coherent control in complex systems. Journal of Optics B: Quantum and Semiclassical Optics, 2005, 7, S265-S269.	1.4	5
183	Core-Modified Expanded Porphyrins with Large Third-Order Nonlinear Optical Response. Journal of the American Chemical Society, 2005, 127, 11608-11609.	6.6	185
184	Optical computing. Resonance, 2003, 8, 8-21.	0.2	5
185	Control of supercontinuum generation with polarization of incident laser pulses. Applied Physics B: Lasers and Optics, 2003, 77, 325-328.	1.1	36
186	Optical pulse shaping approaches to coherent control. Physics Reports, 2003, 374, 385-481.	10.3	231
187	Effect of green tea polyphenols on angiogenesis induced by an angiogenin-like protein. Biochemical and Biophysical Research Communications, 2003, 308, 64-67.	1.0	36
188	Laser Phase Modulation Approaches towards Ensemble Quantum Computing. Physical Review Letters, 2002, 88, 177901.	2.9	23
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