

Marcos Dantus

List of Publications by Year in descending order

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233
papers

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citations

41344

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all docs

238
docs citations

238
times ranked

4630
citing authors

#	ARTICLE	IF	CITATIONS
1	Human Serum Albumin Dimerization Enhances the S ₂ Emission of Bound Cyanine IR806. Journal of Physical Chemistry Letters, 2022, 13, 1825-1832.	4.6	2
2	Ultrafast disruptive probing: Simultaneously keeping track of tens of reaction pathways. Review of Scientific Instruments, 2022, 93, 033003.	1.3	10
3	Pulse shaping in strong-field ionization: Theory and experiments. Physical Review A, 2022, 105, .	2.5	4
4	Chemical complexity of the retina addressed by novel phasor analysis of unstained multimodal microscopy. Chemical Physics, 2021, 543, 111091.	1.9	4
5	Milliradian precision ultrafast pulse control for spectral phase metrology. Optics Express, 2021, 29, 14314.	3.4	2
6	Femtosecond dynamics and coherence of ionic retro-Diels-Alder reactions. Journal of Chemical Physics, 2021, 155, 044303.	3.0	6
7	Controlling Quantum Interference between Virtual and Dipole Two-Photon Optical Excitation Pathways Using Phase-Shaped Laser Pulses. Journal of Physical Chemistry A, 2021, 125, 7534-7544.	2.5	8
8	A comparison of strategies for state-selective coherent Raman excitation. Journal of Raman Spectroscopy, 2021, 52, 2029-2037.	2.5	2
9	Quantitative Unmixing of Endogenous Chromophores in the Retina via Super-Phasors. , 2021, , .		0
10	Excited-State Dynamics of a Substituted Fluorene Derivative. The Central Role of Hydrogen Bonding Interactions with the Solvent. Journal of Physical Chemistry B, 2021, 125, 12242-12253.	2.6	2
11	Linear and Nonlinear Optical Processes Controlling S ₂ and S ₁ Dual Fluorescence in Cyanine Dyes. Journal of Physical Chemistry A, 2021, 125, 9770-9784.	2.5	4
12	Intramolecular Relaxation Dynamics Mediated by Solvent-Solute Interactions of Substituted Fluorene Derivatives. Solute Structural Dependence. Journal of Physical Chemistry B, 2021, 125, 12486-12499.	2.6	0
13	Steric effects in light-induced solvent proton abstraction. Physical Chemistry Chemical Physics, 2020, 22, 19613-19622.	2.8	4
14	Control of electron recollision and molecular nonsequential double ionization. Communications Physics, 2020, 3, .	5.3	9
15	Isoenergetic two-photon excitation enhances solvent-to-solute excited-state proton transfer. Journal of Chemical Physics, 2020, 153, 224301.	3.0	4
16	Proton Abstraction Mediates Interactions between the Super Photobase FRO-SB and Surrounding Alcohol Solvent. Journal of Physical Chemistry B, 2019, 123, 8448-8456.	2.6	9
17	Quantum coherent control of H ₃ ⁺ formation in strong fields. Journal of Chemical Physics, 2019, 150, 044303.	3.0	9
18	Mimicking Microbial Rhodopsin Isomerization in a Single Crystal. Journal of the American Chemical Society, 2019, 141, 1735-1741.	13.7	10

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19	Substituent effects on H ₃ ⁺ formation via H ₂ roaming mechanisms from organic molecules under strong-field photodissociation. <i>Journal of Chemical Physics</i> , 2018, 149, 244310.	3.0	27
20	H ₂ roaming chemistry and the formation of H ₃ ⁺ from organic molecules in strong laser fields. <i>Nature Communications</i> , 2018, 9, 5186.	12.8	73
21	Ultrafast Dynamics of a "Super"Photobase. <i>Angewandte Chemie</i> , 2018, 130, 14958-14962.	2.0	7
22	Titelbild: Ultrafast Dynamics of a "Super"Photobase (<i>Angew. Chem.</i> 45/2018). <i>Angewandte Chemie</i> , 2018, 130, 14869-14869.	2.0	0
23	Ultrafast Dynamics of a "Super"Photobase. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14742-14746.	13.8	36
24	Femtosecond real-time probing of reactions MMXVII: The predissociation of sodium iodide in the A ⁰⁺ state. <i>Chemical Physics Letters</i> , 2017, 683, 121-127.	2.6	6
25	Epi-direction detected multimodal imaging of an unstained mouse retina with a Yb-fiber laser. , 2017, 10069, .		0
26	Time-resolved signatures across the intramolecular response in substituted cyanine dyes. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 14085-14095.	2.8	5
27	Binary-phase compression of stretched pulses. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 105506.	2.2	1
28	Mechanisms and time-resolved dynamics for trihydrogen cation (H ₃ ⁺) formation from organic molecules in strong laser fields. <i>Scientific Reports</i> , 2017, 7, 4703.	3.3	62
29	Multimodal nonlinear optical imaging of unstained retinas in the epi-direction with a sub-40 fs Yb-fiber laser. <i>Biomedical Optics Express</i> , 2017, 8, 5228.	2.9	12
30	Eye-safe near-infrared trace explosives detection and imaging. <i>Optics Express</i> , 2017, 25, 5832.	3.4	11
31	Multimodal Biomedical Imaging with Programmable Pulses from a Yb-Fiber Laser. , 2017, , .		0
32	Characterization and adaptive compression of a multi-soliton laser source. <i>Optics Express</i> , 2017, 25, 320.	3.4	1
33	Multiphoton excited hemoglobin fluorescence and third harmonic generation for non-invasive microscopy of stored blood. <i>Biomedical Optics Express</i> , 2016, 7, 3449.	2.9	30
34	Intravital Imaging Study on Photodamage Produced by Femtosecond Near-Infrared Laser Pulses <i>In Vivo</i> . <i>Photochemistry and Photobiology</i> , 2016, 92, 308-313.	2.5	12
35	Stain-free histopathology by programmable supercontinuum pulses. <i>Nature Photonics</i> , 2016, 10, 534-540.	31.4	177
36	Fluid flow vorticity measurement using laser beams with orbital angular momentum. <i>Optics Express</i> , 2016, 24, 11762.	3.4	40

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37	Molecular level crossing and the geometric phase effect from the optical Hanle perspective. <i>Physical Review A</i> , 2016, 93, .	2.5	2
38	Order of Magnitude Dissociative Ionization Enhancement Observed for Pulses with High Order Dispersion. <i>Journal of Physical Chemistry A</i> , 2016, 120, 8529-8536.	2.5	6
39	Stimulated Emission Enhancement Using Shaped Pulses. <i>Journal of Physical Chemistry A</i> , 2016, 120, 2002-2008.	2.5	10
40	Single Broadband Phase-Shaped Pulse Stimulated Raman Spectroscopy for Standoff Trace Explosive Detection. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 117-125.	4.6	17
41	Mitigating self-action processes with chirp or binary phase shaping. <i>Optics Letters</i> , 2016, 41, 131.	3.3	4
42	Controlling S_{22} Population in Cyanine Dyes Using Shaped Femtosecond Pulses. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1876-1885.	2.5	11
43	Phase-only synthesis of ultrafast stretched square pulses. <i>Optics Express</i> , 2015, 23, 27105.	3.4	8
44	Sub-40 fs, 1060 nm Yb fiber laser enhances penetration depth in nonlinear optical microscopy of human skin. <i>Journal of Biomedical Optics</i> , 2015, 20, 120501.	2.6	21
45	Investigating the role of human serum albumin protein pocket on the excited state dynamics of indocyanine green using shaped femtosecond laser pulses. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 5872-5877.	2.8	27
46	Femtosecond Nanoplasmonic Dephasing of Individual Silver Nanoparticles and Small Clusters. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1638-1644.	4.6	24
47	Laser-induced Breakdown Spectroscopy and ablation threshold analysis using a megahertz Yb fiber laser oscillator. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 107, 146-151.	2.9	17
48	Quantifying noise in ultrafast laser sources and its effect on nonlinear applications. <i>Optics Express</i> , 2015, 23, 12037.	3.4	14
49	Spectral amplitude and phase noise characterization of titanium-sapphire lasers. <i>Optics Express</i> , 2015, 23, 23597.	3.4	10
50	Vortices in the wake of a femtosecond laser filament. <i>Optics Express</i> , 2014, 22, 26098.	3.4	17
51	Polyatomic Molecules under Intense Femtosecond Laser Irradiation. <i>Journal of Physical Chemistry A</i> , 2014, 118, 11433-11450.	2.5	30
52	Simultaneous selective two-photon microscopy using MHz rate pulse shaping and quadrature detection of the time-multiplexed signal. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
53	Real-time single-shot measurement and correction of pulse phase and amplitude for ultrafast lasers. <i>Optical Engineering</i> , 2014, 53, 051511.	1.0	5
54	Solvent Environment Revealed by Positively Chirped Pulses. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 924-928.	4.6	12

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55	Multi-photon molecular tagging velocimetry with femtosecond excitation (FemtoMTV). Experiments in Fluids, 2014, 55, 1.	2.4	5
56	Laser-induced dispersion control. Optics Letters, 2014, 39, 3208.	3.3	1
57	Ultrafast Ionization and Fragmentation: From Small Molecules to Proteomic Analysis. Springer Series in Chemical Physics, 2014, , 171-203.	0.2	0
58	Simultaneous Selective Two-Photon Microscopy Using MHz Rate Pulse Shaping and Quadrature Detection of the Time-Multiplexed Signal. , 2014, , .		0
59	Standoff explosives trace detection and imaging by selective stimulated Raman scattering. Applied Physics Letters, 2013, 103, .	3.3	34
60	Energy scaling of Yb fiber oscillator producing clusters of femtosecond pulses. Optical Engineering, 2013, 53, 051505.	1.0	27
61	Historical perspective on: Femtosecond transition-state spectroscopy of iodineâ€”From strongly bound to repulsive surface dynamics [Volume 161, Issues 4â€”5, 22 September 1989, Pages 297â€”302]. Chemical Physics Letters, 2013, 589, 41.	2.6	0
62	Reprint of: Femtosecond transition-state spectroscopy of iodine: From strongly bound to repulsive surface dynamics. Chemical Physics Letters, 2013, 589, 42-45.	2.6	5
63	Anomalous laser-induced group velocity dispersion in fused silica. Optics Express, 2013, 21, 17695.	3.4	5
64	45 fs optical pulses from phase corrected broadband cascaded four wave mixing products. Laser Physics Letters, 2013, 10, 125109.	1.4	3
65	Kerr effect induced transient group-velocity dispersion of fused silica measured via real-time MIIPS and spectral interferometry. , 2013, , .		0
66	Shaper-based approach to real-time correction of ultrashort pulse phase drifts and transient pulse dispersion measurements. EPJ Web of Conferences, 2013, 41, 11007.	0.3	0
67	Electronic Coherence Mediated Quantum Control of Chemical Reactions in Polyatomic Molecules. , 2013, , .		0
68	Multimodal microscopy with sub-30 fs Yb fiber laser oscillator. Biomedical Optics Express, 2012, 3, 1750.	2.9	37
69	Pulse generation without gain-bandwidth limitation in a laser with self-similar evolution. Optics Express, 2012, 20, 14213.	3.4	59
70	Pulse duration and energy dependence of photodamage and lethality induced by femtosecond near infrared laser pulses in Drosophila melanogaster. Journal of Photochemistry and Photobiology B: Biology, 2012, 115, 42-50.	3.8	19
71	Optical Response of Fluorescent Molecules Studied by Synthetic Femtosecond Laser Pulses. Journal of Physical Chemistry Letters, 2012, 3, 1329-1335.	4.6	14
72	Mechanism Elucidation for Nonstochastic Femtosecond Laser-Induced Ionization/Dissociation: From Amino Acids to Peptides. Journal of Physical Chemistry A, 2012, 116, 2764-2774.	2.5	18

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73	Solvation Stokes-Shift Dynamics Studied by Chirped Femtosecond Laser Pulses. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2458-2464.	4.6	27
74	Single-Shot Gas-Phase Thermometry by Time-to-Frequency Mapping of Coherence Dephasing. <i>Journal of Physical Chemistry A</i> , 2012, 116, 8138-8141.	2.5	5
75	Photodissociation Dynamics of Acetophenone and Its Derivatives with Intense Nonresonant Femtosecond Pulses. <i>Journal of Physical Chemistry A</i> , 2011, 115, 1305-1312.	2.5	22
76	Highly selective standoff detection and imaging of trace chemicals in a complex background using single-beam coherent anti-Stokes Raman scattering. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	60
77	Group-velocity-dispersion measurements of atmospheric and combustion-related gases using an ultrabroadband-laser source. <i>Optics Express</i> , 2011, 19, 5163.	3.4	19
78	Generation of 42-fs and 10-nJ pulses from a fiber laser with self-similar evolution in the gain segment. <i>Optics Express</i> , 2011, 19, 12074.	3.4	67
79	An Ultrafast Fiber Laser with Self-Similar Evolution in the Gain Segment. <i>Optics and Photonics News</i> , 2011, 22, 47.	0.5	8
80	Measurement of group velocity dispersion of solvents using 2-cycle femtosecond pulses: Experiment and theory. <i>AIP Advances</i> , 2011, 1, .	1.3	8
81	Highly specific label-free molecular imaging with spectrally tailored excitation-stimulated Raman scattering (STE-SRS) microscopy. <i>Nature Photonics</i> , 2011, 5, 103-109.	31.4	161
82	Binary phase shaping for selective single-beam CARS spectroscopy and imaging of gas-phase molecules. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 393-398.	2.5	19
83	Tandem mass spectrometry strategies for phosphoproteome analysis. <i>Mass Spectrometry Reviews</i> , 2011, 30, 600-625.	5.4	121
84	Enhanced characterization of singly protonated phosphopeptide ions by femtosecond laser-induced ionization/dissociation tandem mass spectrometry (fs-LID-MS/MS). <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 2031-2040.	2.8	26
85	Single-beam coherent anti-Stokes Raman scattering (CARS) spectroscopy of gas-phase CO ₂ via phase and polarization shaping of a broadband continuum. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 1194-1199.	2.5	37
86	Pulse Shaping Strategies for Single-beam CARS. , 2010, .		0
87	Atmospheric Pressure Femtosecond Laser Imaging Mass Spectrometry. <i>Analytical Chemistry</i> , 2010, 82, 2753-2758.	6.5	53
88	Applications of Femtochemistry to Proteomic and Metabolomic Analysis. <i>Journal of Physical Chemistry A</i> , 2010, 114, 10380-10387.	2.5	6
89	Measurement and Control of Ultrashort Optical Pulse Propagation in Metal Nanoparticle-Covered Dielectric Surfaces. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12375-12381.	3.1	15
90	Two-photon fluorescence excitation spectroscopy by pulse shaping ultrabroad-bandwidth femtosecond laser pulses. <i>Applied Optics</i> , 2010, 49, 6348.	2.1	13

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91	Single-beam shaper-based pulse characterization and compression using MIIPS sonogram. Optics Letters, 2010, 35, 1422.	3.3	14
92	Generation of high energy 4.8 fs pulses from helium-argon mixture filled hollow waveguide. , 2009, , .		0
93	Standoff chemical detection using single-beam CARS. , 2009, , .		0
94	Single-beam coherent anti-Stokes Raman scattering spectroscopy of N2 using a shaped 7 fs laser pulse. Applied Physics Letters, 2009, 95, 074102.	3.3	58
95	Two-photon imaging using adaptive phase compensated ultrashort laser pulses. Journal of Biomedical Optics, 2009, 14, 014002.	2.6	55
96	Femtosecond Laser-Induced Ionization/Dissociation of Protonated Peptides. Journal of the American Chemical Society, 2009, 131, 940-942.	13.7	69
97	Comment on "Closing the Loop on Bond Selective Chemistry Using Tailored Strong Field Laser Pulses", Journal of Physical Chemistry A, 2009, 113, 5264-5266.	2.5	11
98	Generation of Complex Optical Pulse Sequences by Multiple Comb Shaping. Optics and Photonics News, 2009, 20, 43.	0.5	0
99	Multiple Independent Comb Shaping (MICS): Phase-only generation of optical pulse sequences. Optics Express, 2009, 17, 14351.	3.4	41
100	Standoff and arms-length detection of chemicals with single-beam coherent anti-Stokes Raman scattering. Applied Optics, 2009, 48, B17.	2.1	54
101	Influence of the temporal shape of femtosecond pulses on silicon micromachining. Journal of Applied Physics, 2009, 106, 123101.	2.5	11
102	Advantages of Two-photon Microscopy with Ultrashort Pulses. Springer Series in Chemical Physics, 2009, , 1012-1014.	0.2	0
103	Nonlinear Optical Imaging with Sub-12fs Pulses. , 2009, , .		0
104	Applications of ultrashort shaped pulses in microscopy and for controlling chemical reactions. Chemical Physics, 2008, 350, 118-124.	1.9	3
105	Greater signal, increased depth, and less photobleaching in two-photon microscopy with 10fs pulses. Optics Communications, 2008, 281, 1841-1849.	2.1	76
106	Control of Molecular Fragmentation Using Shaped Femtosecond Pulses. Journal of Physical Chemistry A, 2008, 112, 3789-3812.	2.5	97
107	One- and Two-Photon Fluorescent Polyhedral Oligosilsesquioxane (POSS) Nanosensor Arrays for the Remote Detection of Analytes in Clouds, in Solution, and on Surfaces. Chemistry of Materials, 2008, 20, 2829-2838.	6.7	28
108	Detection of chemicals at a standoff >10 m distance based on single-beam coherent anti-Stokes Raman scattering. Proceedings of SPIE, 2008, , .	0.8	4

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109	Single-Beam Coherent Anti-Stokes Raman Scattering for Standoff Detection. Optics and Photonics News, 2008, 19, 46.	0.5	3
110	Interference without an interferometer: a different approach to measuring, compressing, and shaping ultrashort laser pulses. Journal of the Optical Society of America B: Optical Physics, 2008, 25, A140.	2.1	129
111	Direct measurement of spectral phase for ultrashort laser pulses. Optics Express, 2008, 16, 592.	3.4	42
112	Coherent mode-selective Raman excitation towards standoff detection. Optics Express, 2008, 16, 5499.	3.4	92
113	Broadband 2.12 GHz Ti:sapphire laser compressed to 5.9 femtoseconds using MIIPS. Optics Express, 2008, 16, 10033.	3.4	11
114	Asynchronous encrypted information transmission with sub-6 fs laser system at 2.12 GHz repetition rate. Optics Express, 2008, 16, 15109.	3.4	2
115	MULTIDIMENSIONAL IDENTIFICATION OF CHEMICAL WARFARE AGENTS USING SHAPED FEMTOSECOND PULSES. International Journal of High Speed Electronics and Systems, 2008, 18, 63-70.	0.7	0
116	Generation of intense ultra-short laser pulse from argon-filled hollow waveguide using MIIPS. , 2008, , .		0
117	MULTIDIMENSIONAL IDENTIFICATION OF CHEMICAL WARFARE AGENTS USING SHAPED FEMTOSECOND PULSES. Selected Topics in Electornics and Systems, 2008, , 321-328.	0.2	0
118	In-situ pulse characterization for silicon micromachining. , 2007, , .		0
119	Remote Chemical Detection Using SUPER-CARS. , 2007, , .		0
120	Pulse Shaping of Octave Spanning Femtosecond Laser Pulses. , 2007, , .		2
121	Selective Two-Photon Excitation for Biomedical Imaging. , 2007, , .		0
122	Spectral Phase Control of Remote Surface-Plasmon-Mediated Two-Photon-Induced Luminescence. , 2007, , .		0
123	High resolution two photon excitation spectroscopy by pulse shaping an ultrabroad bandwidth femtosecond laser. , 2007, , .		0
124	The Impact of Ultrashort Femtosecond Pulse-Shaping Technology for Micromachining. , 2007, , .		0
125	Controlling the excited state charge transfer in DMABN using shaped femtosecond pulses. , 2007, , .		1
126	Spectral phase control of remote surface-plasmon-mediated two-photon-induced luminescence. , 2007, , .		0

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127	In-situ Pulse Characterization for Silicon Micromachining. , 2007, , .		0
128	The impact of ultrashort femtosecond pulse-shaping technology for micromachining. , 2007, , .		0
129	Phase Characterization and Adaptive Pulse Compression Using MIIPS In Air. , 2007, , .		0
130	Controlling the Excited State Charge Transfer in DMABN Using Shaped Femtosecond Pulses. , 2007, , .		0
131	Automated phase characterization and adaptive pulse compression using multiphoton intrapulse interference phase scan in air. Optics Express, 2007, 15, 1932.	3.4	3
132	In-situ femtosecond laser pulse characterization and compression during micromachining. Optics Express, 2007, 15, 16061.	3.4	13
133	Femtosecond pulse shaping adds a new dimension to mass spectrometry. Applied Optics, 2007, 46, 4041.	2.1	17
134	Group-velocity dispersion measurements of water, seawater, and ocular components using multiphoton intrapulse interference phase scan. Applied Optics, 2007, 46, 8394.	2.1	37
135	Effect of Pulse Shaping on Silicon Micromachining Monitored by Laser Induced Breakdown Spectroscopy and Surface Second Harmonic Generation. , 2007, , .		0
136	Isomeric identification by laser control mass spectrometry. Journal of Mass Spectrometry, 2007, 42, 178-186.	1.6	26
137	Symmetry of nonlinear optical response to time inversion of shaped femtosecond pulses as a clock of ultrafast dynamics. Chemical Physics, 2007, 338, 259-267.	1.9	8
138	Polarization and Phase Control of Remote Surface-Plasmon-Mediated Two-Photon-Induced Emission and Waveguiding. Nano Letters, 2006, 6, 2804-2809.	9.1	24
139	Laser control of physicochemical processes; experiments and applications. Annual Reports on the Progress of Chemistry Section C, 2006, 102, 227.	4.4	23
140	Laser-based molecular identification. , 2006, , .		0
141	Systematic chemical recognition using shaped laser pulses. Journal of Modern Optics, 2006, 53, 2533-2541.	1.3	3
142	Search Space Mapping:â€” Getting a Picture of Coherent Laser Control. Journal of Physical Chemistry A, 2006, 110, 11388-11391.	2.5	11
143	Quantitative investigation of the multiphoton intrapulse interference phase scan method for simultaneous phase measurement and compensation of femtosecond laser pulses. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 750.	2.1	242
144	Remote characterization and dispersion compensation of amplified shaped femtosecond pulses using MIIPS. Optics Express, 2006, 14, 8885.	3.4	19

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145	No loss spectral phase correction and arbitrary phase shaping of regeneratively amplified femtosecond pulses using MIIPS. Optics Express, 2006, 14, 9537.	3.4	29
146	Pulse shaping of octave spanning femtosecond laser pulses. Optics Express, 2006, 14, 10939.	3.4	49
147	Remote Two-Photon Emission From Dendritic Silver Nanoclusters. Microscopy and Microanalysis, 2006, 12, 630-631.	0.4	0
148	Two-Photon Induced Emission From Silver Nanoparticle Aggregates on Thin Films and in Solution. Microscopy and Microanalysis, 2006, 12, 632-633.	0.4	0
149	Influence of bandwidth and phase shaping on laser induced breakdown spectroscopy with ultrashort laser pulses. Chemical Physics Letters, 2006, 423, 197-201.	2.6	36
150	Advantages of ultrashort phase-shaped pulses for selective two-photon activation and biomedical imaging. Nanomedicine: Nanotechnology, Biology, and Medicine, 2006, 2, 177-181.	3.3	18
151	Coherent control improves biomedical imaging with ultrashort shaped pulses. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 180, 307-313.	3.9	31
152	Control of Molecular Fragmentation Using Binary Phase-Shaped Femtosecond Laser Pulses. ChemPhysChem, 2006, 7, 2471-2473.	2.1	11
153	Selective nonlinear optical excitation with pulses shaped by pseudorandom Galois fields. Physical Review A, 2006, 74, .	2.5	34
154	No loss spectral phase correction and arbitrary phase shaping of regeneratively amplified femtosecond pulses using MIIPS. , 2006, , .		2
155	Converting Concepts and Dreams of Coherent Control into Applications. , 2006, , 434-440.		0
156	Systematic Control of Nonlinear Optical Processes Using Optimally Shaped Femtosecond Pulses. ChemPhysChem, 2005, 6, 1970-2000.	2.1	78
157	Compensation of phase distortions introduced by high objectives on sub-10 fs pulses. , 2005, , .		0
158	Multidimensional Analytical Method Based on Binary Phase Shaping of Femtosecond Pulses. Journal of Physical Chemistry A, 2005, 109, 2413-2416.	2.5	29
159	Quantitative Mass Spectrometric Identification of Isomers Applying Coherent Laser Control. Journal of Physical Chemistry A, 2005, 109, 8447-8450.	2.5	47
160	Spectral phase optimization of femtosecond laser pulses for narrow-band, low-background nonlinear spectroscopy. Optics Express, 2005, 13, 10882.	3.4	12
161	ULTRAFAST TECHNOLOGY Femtosecond Chemical Dynamics: Gas-Phase. , 2005, , 240-253.		0
162	Use of coherent control methods through scattering biological tissue to achieve functional imaging. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16996-17001.	7.1	92

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163	Multiphoton Intrapulse Interference 3: Probing Microscopic Chemical Environments. Journal of Physical Chemistry A, 2004, 108, 53-58.	2.5	75
164	Experimental Coherent Laser Control of Physicochemical Processes. Chemical Reviews, 2004, 104, 1813-1860.	47.7	321
165	Introduction: Femtochemistry. Chemical Reviews, 2004, 104, 1717-1718.	47.7	40
166	Multiphoton intrapulse interference 6; binary phase shaping. Optics Express, 2004, 12, 1061.	3.4	81
167	Multiphoton Intrapulse Interference 8. Coherent control through scattering tissue. Optics Express, 2004, 12, 4144.	3.4	29
168	Multiphoton intrapulse interference Ultrashort laser pulse spectral phase characterization and compensation. Optics Letters, 2004, 29, 775.	3.3	387
169	Femtosecond photon echo measurements of electronic coherence relaxation of I2 in the presence of He, Ar, N2, O2, C3H8. , 2004, , 33-36.		0
170	Control of nonlinear optical excitation with multiphoton intrapulse interference. , 2004, , 95-101.		0
171	Rotational wavepacket revivals for phase modulation of ultrafast pulses. Chemical Physics Letters, 2003, 372, 739-744.	2.6	17
172	Multiphoton intrapulse interference. II. Control of two- and three-photon laser induced fluorescence with shaped pulses. Journal of Chemical Physics, 2003, 118, 3187-3196.	3.0	200
173	Ultrafast Laser Induced Molecular Alignment and Deformation: Experimental Evidence from Neutral Molecules and from Fragment Ions. Journal of Physical Chemistry A, 2003, 107, 8271-8281.	2.5	38
174	Selective two-photon microscopy with shaped femtosecond pulses. Optics Express, 2003, 11, 1695.	3.4	156
175	Control of multiphoton excitation in condensed phases based on multiphoton intrapulse interference. , 2003, , .		0
176	Femtosecond photon echo measurements of electronic coherence relaxation between the X(1 Σ g+) and B(3 Σ u+) states of I2 in the presence of He, Ar, N2, O2, C3H8. Journal of Chemical Physics, 2003, 119, 6546-6553.	3.0	11
177	Femtosecond four-wave mixing for molecule based computation. Springer Series in Chemical Physics, 2003, , 97-98.	0.2	0
178	Multiphoton Intrapulse Interference. 1. Control of Multiphoton Processes in Condensed Phases. Journal of Physical Chemistry A, 2002, 106, 9369-9373.	2.5	173
179	Ultrafast Nonlinear Spectroscopic Techniques in the Gas Phase and Their Density Matrix Representation. Journal of Physical Chemistry A, 2002, 106, 697-718.	2.5	69
180	Four-Wave Mixing and Coherent Control. ACS Symposium Series, 2002, , 61-80.	0.5	1

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181	Photon echo pulse sequences with femtosecond shaped laser pulses as a vehicle for molecule-based quantum computation. <i>Chemical Physics Letters</i> , 2002, 351, 213-221.	2.6	21
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