

Marcos Dantus

List of Publications by Year in descending order

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233
papers

8,343
citations

41344

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docs citations

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times ranked

4630
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiphoton intrapulse interferenceâ€fIVâ€fUltrashort laser pulse spectral phase characterization and compensation. <i>Optics Letters</i> , 2004, 29, 775.	3.3	387
2	Realâ€time femtosecond probing of â€ˆâ€ˆtransition statesâ€™â€™ in chemical reactions. <i>Journal of Chemical Physics</i> , 1987, 87, 2395-2397.	3.0	381
3	Experimental Coherent Laser Control of Physicochemical Processes. <i>Chemical Reviews</i> , 2004, 104, 1813-1860.	47.7	321
4	Quantitative investigation of the multiphoton intrapulse interference phase scan method for simultaneous phase measurement and compensation of femtosecond laser pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006, 23, 750.	2.1	242
5	Femtosecond realâ€time probing of reactions. I. The technique. <i>Journal of Chemical Physics</i> , 1988, 89, 6113-6127.	3.0	231
6	Multiphoton intrapulse interference. II. Control of two- and three-photon laser induced fluorescence with shaped pulses. <i>Journal of Chemical Physics</i> , 2003, 118, 3187-3196.	3.0	200
7	Femtosecond transition-state spectroscopy of iodine: From strongly bound to repulsive surface dynamics. <i>Chemical Physics Letters</i> , 1989, 161, 297-302.	2.6	196
8	Femtosecond realâ€time probing of reactions. II. The dissociation reaction of ICN. <i>Journal of Chemical Physics</i> , 1988, 89, 6128-6140.	3.0	181
9	Stain-free histopathology by programmable supercontinuum pulses. <i>Nature Photonics</i> , 2016, 10, 534-540.	31.4	177
10	Multiphoton Intrapulse Interference. 1. Control of Multiphoton Processes in Condensed Phases. <i>Journal of Physical Chemistry A</i> , 2002, 106, 9369-9373.	2.5	173
11	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
12	Femtosecond laser observations of molecular vibration and rotation. <i>Nature</i> , 1990, 343, 737-739.	27.8	158
13	Selective two-photon microscopy with shaped femtosecond pulses. <i>Optics Express</i> , 2003, 11, 1695.	3.4	156
14	Femtosecond temporal spectroscopy and direct inversion to the potential: Application to iodine. <i>Chemical Physics Letters</i> , 1990, 166, 459-469.	2.6	147
15	Femtosecond realâ€time probing of reactions. V. The reaction of IHgI. <i>Journal of Chemical Physics</i> , 1989, 91, 7437-7450.	3.0	132
16	Femtosecond Clocking of the Chemical Bond. <i>Science</i> , 1988, 241, 1200-1202.	12.6	131
17	Interference without an interferometer: a different approach to measuring, compressing, and shaping ultrashort laser pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008, 25, A140.	2.1	129
18	Femtosecond transient-grating techniques: Population and coherence dynamics involving ground and excited states. <i>Journal of Chemical Physics</i> , 1999, 110, 5772-5788.	3.0	128

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19	Ultrafast Electron Diffraction. 5. Experimental Time Resolution and Applications. The Journal of Physical Chemistry, 1994, 98, 2782-2796.	2.9	127
20	Tandem mass spectrometry strategies for phosphoproteome analysis. Mass Spectrometry Reviews, 2011, 30, 600-625.	5.4	121
21	COHERENTNONLINEARSPECTROSCOPY: From Femtosecond Dynamics to Control. Annual Review of Physical Chemistry, 2001, 52, 639-679.	10.8	115
22	Ultrafast diffraction and molecular structure. Chemical Physics Letters, 1992, 196, 529-534.	2.6	114
23	Femtosecond probing of molecular dynamics by mass-spectrometry in a molecular beam. Chemical Physics Letters, 1991, 181, 281-287.	2.6	99
24	Control of Molecular Fragmentation Using Shaped Femtosecond Pulses. Journal of Physical Chemistry A, 2008, 112, 3789-3812.	2.5	97
25	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
26	Coherent mode-selective Raman excitation towards standoff detection. Optics Express, 2008, 16, 5499.	3.4	92
27	Multiphoton intrapulse interference 6; binary phase shaping. Optics Express, 2004, 12, 1061.	3.4	81
28	Systematic Control of Nonlinear Optical Processes Using Optimally Shaped Femtosecond Pulses. ChemPhysChem, 2005, 6, 1970-2000.	2.1	78
29	Greater signal, increased depth, and less photobleaching in two-photon microscopy with 10fs pulses. Optics Communications, 2008, 281, 1841-1849.	2.1	76
30	Femtosecond photoassociation spectroscopy: coherent bond formation. Chemical Physics Letters, 1995, 245, 393-399.	2.6	75
31	Multiphoton Intrapulse Interference 3: Probing Microscopic Chemical Environments. Journal of Physical Chemistry A, 2004, 108, 53-58.	2.5	75
32	H2 roaming chemistry and the formation of H3+ from organic molecules in strong laser fields. Nature Communications, 2018, 9, 5186.	12.8	73
33	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
34	Femtosecond Laser-Induced Ionization/Dissociation of Protonated Peptides. Journal of the American Chemical Society, 2009, 131, 940-942.	13.7	69
35	Femtochemistry of the reaction: $\text{IHgI}^* \rightarrow [\text{IHg}^{\ddagger}] \rightarrow \text{I}^* + \text{HgI} + \text{I}$. Chemical Physics Letters, 1989, 156, 131-137.	2.6	67
36	Femtosecond selective control of wave packet population. Chemical Physics Letters, 1990, 171, 1-4.	2.6	67

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37	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
38	Stepwise Solvation of the Intramolecular-Charge-Transfer Molecule p-(Dimethylamino)benzonitrile. <i>The Journal of Physical Chemistry</i> , 1987, 91, 6162-6167.	2.9	63
39	Femtosecond real-time alignment in chemical reactions. <i>Chemical Physics Letters</i> , 1989, 159, 406-412.	2.6	63
40	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
41	Quantum control of the yield of a chemical reaction. <i>Journal of Chemical Physics</i> , 1998, 108, 4375-4378.	3.0	61
42	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
43	Pulse generation without gain-bandwidth limitation in a laser with self-similar evolution. <i>Optics Express</i> , 2012, 20, 14213.	3.4	59
44	Femtosecond reaction dynamics of Rydberg states. Methyl iodide. <i>Chemical Physics Letters</i> , 1993, 214, 281-289.	2.6	58
45	Single-beam coherent anti-Stokes Raman scattering spectroscopy of N ₂ using a shaped 7 fs laser pulse. <i>Applied Physics Letters</i> , 2009, 95, 074102.	3.3	58
46	Femtochemistry: recent advances and extension to high pressures. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1992, 62, 301-319.	3.9	57
47	Two-photon imaging using adaptive phase compensated ultrashort laser pulses. <i>Journal of Biomedical Optics</i> , 2009, 14, 014002.	2.6	55
48	Standoff and arms-length detection of chemicals with single-beam coherent anti-Stokes Raman scattering. <i>Applied Optics</i> , 2009, 48, B17.	2.1	54
49	Atmospheric Pressure Femtosecond Laser Imaging Mass Spectrometry. <i>Analytical Chemistry</i> , 2010, 82, 2753-2758.	6.5	53
50	Pulse shaping of octave spanning femtosecond laser pulses. <i>Optics Express</i> , 2006, 14, 10939.	3.4	49
51	Quantitative Mass Spectrometric Identification of Isomers Applying Coherent Laser Control. <i>Journal of Physical Chemistry A</i> , 2005, 109, 8447-8450.	2.5	47
52	Femtosecond observation of a concerted chemical reaction. <i>Chemical Physics Letters</i> , 1996, 256, 57-62.	2.6	45
53	Imaging the Molecular Dimensions and Oligomerization of Proteins at Liquid/Solid Interfaces. <i>Journal of Physical Chemistry B</i> , 1998, 102, 1649-1657.	2.6	44
54	Charge Density Wave Caused by Reducing ThSe ₃ by One Electron. Superstructure and Short-Range Order in ATH ₂ Se ₆ (A = K, Rb) Studied by X-ray Diffraction, Electron Diffraction, and Diffuse Scattering. <i>Journal of the American Chemical Society</i> , 1998, 120, 10706-10714.	13.7	44

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55	Femtosecond dynamics of photoinduced molecular detachment from halogenated alkanes. II. Asynchronous concerted elimination of I2 from CH2I2. <i>Journal of Chemical Physics</i> , 1998, 109, 4428-4442.	3.0	42
56	Direct measurement of spectral phase for ultrashort laser pulses. <i>Optics Express</i> , 2008, 16, 592.	3.4	42
57	Multiple Independent Comb Shaping (MICS): Phase-only generation of optical pulse sequences. <i>Optics Express</i> , 2009, 17, 14351.	3.4	41
58	Population and coherence control by three-pulse four-wave mixing. <i>Journal of Chemical Physics</i> , 1999, 111, 3779-3782.	3.0	40
59	Introduction: Femtochemistry. <i>Chemical Reviews</i> , 2004, 104, 1717-1718.	47.7	40
60	Fluid flow vorticity measurement using laser beams with orbital angular momentum. <i>Optics Express</i> , 2016, 24, 11762.	3.4	40
61	Ultrafast Laser Induced Molecular Alignment and Deformation: Experimental Evidence from Neutral Molecules and from Fragment Ions. <i>Journal of Physical Chemistry A</i> , 2003, 107, 8271-8281.	2.5	38
62	Group-velocity dispersion measurements of water, seawater, and ocular components using multiphoton intrapulse interference phase scan. <i>Applied Optics</i> , 2007, 46, 8394.	2.1	37
63	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
64	Multimodal microscopy with sub-30 fs Yb fiber laser oscillator. <i>Biomedical Optics Express</i> , 2012, 3, 1750.	2.9	37
65	Real-time measurements of IVR versus inferences from spectral broadening data: the alkylnilines ring + tail system. <i>Chemical Physics Letters</i> , 1986, 130, 473-481.	2.6	36
66	Femtosecond spectrally dispersed three-pulse four-wave mixing: the role of sequence and chirp in controlling intramolecular dynamics. <i>Journal of Raman Spectroscopy</i> , 2000, 31, 41-49.	2.5	36
67	Influence of bandwidth and phase shaping on laser induced breakdown spectroscopy with ultrashort laser pulses. <i>Chemical Physics Letters</i> , 2006, 423, 197-201.	2.6	36
68	Ultrafast Dynamics of a Super-Photobase. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14742-14746.	13.8	36
69	Femtosecond multiphoton dynamics of higher-energy potentials. <i>Chemical Physics Letters</i> , 1990, 174, 546-552.	2.6	35
70	Selective nonlinear optical excitation with pulses shaped by pseudorandom Galois fields. <i>Physical Review A</i> , 2006, 74, .	2.5	34
71	Standoff explosives trace detection and imaging by selective stimulated Raman scattering. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	34
72	Femtosecond dynamics of photoinduced molecular detachment from halogenated alkanes. I. Transition state dynamics and product channel coherence. <i>Journal of Chemical Physics</i> , 1998, 109, 4415-4427.	3.0	32

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73	Coherent control improves biomedical imaging with ultrashort shaped pulses. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 180, 307-313.	3.9	31
74	Polyatomic Molecules under Intense Femtosecond Laser Irradiation. <i>Journal of Physical Chemistry A</i> , 2014, 118, 11433-11450.	2.5	30
75	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
76	Multiphoton Intrapulse Interference 8. Coherent control through scattering tissue. <i>Optics Express</i> , 2004, 12, 4144.	3.4	29
77	Multidimensional Analytical Method Based on Binary Phase Shaping of Femtosecond Pulses. <i>Journal of Physical Chemistry A</i> , 2005, 109, 2413-2416.	2.5	29
78	No loss spectral phase correction and arbitrary phase shaping of regeneratively amplified femtosecond pulses using MIIPS. <i>Optics Express</i> , 2006, 14, 9537.	3.4	29
79	Femtosecond concerted elimination of halogen molecules from halogenated alkanes. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 885-891.	2.8	28
80	One- and Two-Photon Fluorescent Polyhedral Oligosilsesquioxane (POSS) Nanosensor Arrays for the Remote Detection of Analytes in Clouds, in Solution, and on Surfaces. <i>Chemistry of Materials</i> , 2008, 20, 2829-2838.	6.7	28
81	Femtosecond photoassociation: Coherence and implications for control in bimolecular reactions. <i>Journal of Chemical Physics</i> , 1997, 106, 8013-8021.	3.0	27
82	Solvation Stokes-Shift Dynamics Studied by Chirped Femtosecond Laser Pulses. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2458-2464.	4.6	27
83	Energy scaling of Yb fiber oscillator producing clusters of femtosecond pulses. <i>Optical Engineering</i> , 2013, 53, 051505.	1.0	27
84	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
85	Substituent effects on H3+ formation via H2 roaming mechanisms from organic molecules under strong-field photodissociation. <i>Journal of Chemical Physics</i> , 2018, 149, 244310.	3.0	27
86	Femtosecond photon echo and virtual echo measurements of the vibronic and vibrational coherence relaxation times of iodine vapor. <i>Chemical Physics Letters</i> , 2001, 333, 76-82.	2.6	26
87	Isomeric identification by laser control mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2007, 42, 178-186.	1.6	26
88	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
89	Concerted elimination dynamics from highly excited states. <i>Faraday Discussions</i> , 1997, 108, 63-80.	3.2	24
90	Polarization and Phase Control of Remote Surface-Plasmon-Mediated Two-Photon-Induced Emission and Waveguiding. <i>Nano Letters</i> , 2006, 6, 2804-2809.	9.1	24

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91	Femtosecond Nanoplasmonic Dephasing of Individual Silver Nanoparticles and Small Clusters. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1638-1644.	4.6	24
92	Sequences for controlling laser excitation with femtosecond three-pulse four-wave mixing. <i>Faraday Discussions</i> , 1999, 113, 401-424.	3.2	23
93	Cascaded free-induction decay four-wave mixing. <i>Chemical Physics</i> , 2001, 266, 205-212.	1.9	23
94	Laser control of physicochemical processes; experiments and applications. <i>Annual Reports on the Progress of Chemistry Section C</i> , 2006, 102, 227.	4.4	23
95	Control and Characterization of Intramolecular Dynamics with Chirped Femtosecond Three-Pulse Four-Wave Mixing. <i>Journal of Physical Chemistry A</i> , 1999, 103, 10226-10236.	2.5	22
96	The role of pulse sequences in controlling ultrafast intramolecular dynamics with four-wave mixing. <i>International Reviews in Physical Chemistry</i> , 2000, 19, 531-552.	2.3	22
97	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
98	Spectroscopic study of jet-cooled fluoranthene. <i>Journal of Chemical Physics</i> , 1985, 82, 4771-4776.	3.0	21
99	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
100	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
101	Remote characterization and dispersion compensation of amplified shaped femtosecond pulses using MIIPS. <i>Optics Express</i> , 2006, 14, 8885.	3.4	19
102	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
103	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
104	Pulse duration and energy dependence of photodamage and lethality induced by femtosecond near infrared laser pulses in <i>Drosophila melanogaster</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2012, 115, 42-50.	3.8	19
105	Control of photoassociation yield: a quantum-dynamical study of the mercury system to explore the role of pulse duration from nanoseconds to femtoseconds. <i>Chemical Physics Letters</i> , 1999, 306, 18-24.	2.6	18
106	The role of microscopic and macroscopic coherence in laser control. <i>Chemical Physics</i> , 2001, 267, 99-114.	1.9	18
107	Advantages of ultrashort phase-shaped pulses for selective two-photon activation and biomedical imaging. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2006, 2, 177-181.	3.3	18
108	Mechanism Elucidation for Nonstochastic Femtosecond Laser-Induced Ionization/Dissociation: From Amino Acids to Peptides. <i>Journal of Physical Chemistry A</i> , 2012, 116, 2764-2774.	2.5	18

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109	Rotational wavepacket revivals for phase modulation of ultrafast pulses. <i>Chemical Physics Letters</i> , 2003, 372, 739-744.	2.6	17
110	Femtosecond pulse shaping adds a new dimension to mass spectrometry. <i>Applied Optics</i> , 2007, 46, 4041.	2.1	17
111	Vortices in the wake of a femtosecond laser filament. <i>Optics Express</i> , 2014, 22, 26098.	3.4	17
112	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
113	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
114	Femtosecond ground state dynamics of gas phase N ₂ O ₄ and NO ₂ . <i>Chemical Physics Letters</i> , 2001, 349, 71-78.	2.6	15
115	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
116	Single-beam shaper-based pulse characterization and compression using MIIPS sonogram. <i>Optics Letters</i> , 2010, 35, 1422.	3.3	14
117	Optical Response of Fluorescent Molecules Studied by Synthetic Femtosecond Laser Pulses. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1329-1335.	4.6	14
118	Quantifying noise in ultrafast laser sources and its effect on nonlinear applications. <i>Optics Express</i> , 2015, 23, 12037.	3.4	14
119	In-situ femtosecond laser pulse characterization and compression during micromachining. <i>Optics Express</i> , 2007, 15, 16061.	3.4	13
120	Two-photon fluorescence excitation spectroscopy by pulse shaping ultrabroad-bandwidth femtosecond laser pulses. <i>Applied Optics</i> , 2010, 49, 6348.	2.1	13
121	Femtosecond Dynamics of Unimolecular and Unrestricted Bimolecular Reactions. <i>Journal of Physical Chemistry A</i> , 1998, 102, 4111-4117.	2.5	12
122	Spectral phase optimization of femtosecond laser pulses for narrow-band, low-background nonlinear spectroscopy. <i>Optics Express</i> , 2005, 13, 10882.	3.4	12
123	Solvent Environment Revealed by Positively Chirped Pulses. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 924-928.	4.6	12
124	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
125	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
126	Ultrafast Rotational Anisotropy Measurements: Unidirectional Detection. <i>Journal of Physical Chemistry A</i> , 1999, 103, 2912-2916.	2.5	11

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127	Femtosecond photon echo measurements of electronic coherence relaxation between the X(1 $\hat{\Sigma}$ g+) and B(3 $\hat{\Sigma}$ u+) states of I ₂ in the presence of He, Ar, N ₂ , O ₂ , C ₃ H ₈ . Journal of Chemical Physics, 2003, 119, 6546-6553.	3.0	11
128	Search Space Mapping: Getting a Picture of Coherent Laser Control. Journal of Physical Chemistry A, 2006, 110, 11388-11391.	2.5	11
129	Control of Molecular Fragmentation Using Binary Phase-Shaped Femtosecond Laser Pulses. ChemPhysChem, 2006, 7, 2471-2473.	2.1	11
130	Broadband 2.12 GHz Ti:sapphire laser compressed to 5.9 femtoseconds using MIIPS. Optics Express, 2008, 16, 10033.	3.4	11
131	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
132	Influence of the temporal shape of femtosecond pulses on silicon micromachining. Journal of Applied Physics, 2009, 106, 123101.	2.5	11
133	Controlling S ₂ Population in Cyanine Dyes Using Shaped Femtosecond Pulses. Journal of Physical Chemistry A, 2016, 120, 1876-1885.	2.5	11
134	Eye-safe near-infrared trace explosives detection and imaging. Optics Express, 2017, 25, 5832.	3.4	11
135	Spectral amplitude and phase noise characterization of titanium-sapphire lasers. Optics Express, 2015, 23, 23597.	3.4	10
136	Stimulated Emission Enhancement Using Shaped Pulses. Journal of Physical Chemistry A, 2016, 120, 2002-2008.	2.5	10
137	Mimicking Microbial Rhodopsin Isomerization in a Single Crystal. Journal of the American Chemical Society, 2019, 141, 1735-1741.	13.7	10
138	Ultrafast disruptive probing: Simultaneously keeping track of tens of reaction pathways. Review of Scientific Instruments, 2022, 93, 033003.	1.3	10
139	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
140	Quantum coherent control of H ₃ ⁺ formation in strong fields. Journal of Chemical Physics, 2019, 150, 044303.	3.0	9
141	Control of electron recollision and molecular nonsequential double ionization. Communications Physics, 2020, 3, .	5.3	9
142	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
143	An Ultrafast Fiber Laser with Self-Similar Evolution in the Gain Segment. Optics and Photonics News, 2011, 22, 47.	0.5	8
144	Measurement of group velocity dispersion of solvents using 2-cycle femtosecond pulses: Experiment and theory. AIP Advances, 2011, 1, .	1.3	8

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145	Phase-only synthesis of ultrafast stretched square pulses. <i>Optics Express</i> , 2015, 23, 27105.	3.4	8
146	Controlling Quantum Interference between Virtual and Dipole Two-Photon Optical Excitation Pathways Using Phase-Shaped Laser Pulses. <i>Journal of Physical Chemistry A</i> , 2021, 125, 7534-7544.	2.5	8
147	Ultrafast Dynamics of a π -Super-Photobase. <i>Angewandte Chemie</i> , 2018, 130, 14958-14962.	2.0	7
148	Ultrafast Rotational Anisotropy Measurements: A Strong-Field Nonlinear Saturation Effects. <i>Journal of Physical Chemistry A</i> , 2001, 105, 8004-8010.	2.5	6
149	Applications of Femtochemistry to Proteomic and Metabolomic Analysis. <i>Journal of Physical Chemistry A</i> , 2010, 114, 10380-10387.	2.5	6
150	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
151	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
152	Femtosecond dynamics and coherence of ionic retro-Diels-Alder reactions. <i>Journal of Chemical Physics</i> , 2021, 155, 044303.	3.0	6
153	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
154	Reprint of: Femtosecond transition-state spectroscopy of iodine: From strongly bound to repulsive surface dynamics. <i>Chemical Physics Letters</i> , 2013, 589, 42-45.	2.6	5
155	Anomalous laser-induced group velocity dispersion in fused silica. <i>Optics Express</i> , 2013, 21, 17695.	3.4	5
156	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
157	Multi-photon molecular tagging velocimetry with femtosecond excitation (FemtoMTV). <i>Experiments in Fluids</i> , 2014, 55, 1.	2.4	5
158	Time-resolved signatures across the intramolecular response in substituted cyanine dyes. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 14085-14095.	2.8	5
159	Detection of chemicals at a standoff >10 m distance based on single-beam coherent anti-Stokes Raman scattering. <i>Proceedings of SPIE</i> , 2008, , .	0.8	4
160	Mitigating self-action processes with chirp or binary phase shaping. <i>Optics Letters</i> , 2016, 41, 131.	3.3	4
161	Steric effects in light-induced solvent proton abstraction. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 19613-19622.	2.8	4
162	Chemical complexity of the retina addressed by novel phasor analysis of unstained multimodal microscopy. <i>Chemical Physics</i> , 2021, 543, 111091.	1.9	4

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163	Isoenergetic two-photon excitation enhances solvent-to-solute excited-state proton transfer. <i>Journal of Chemical Physics</i> , 2020, 153, 224301.	3.0	4
164	Femtosecond Laser Shaping. , 0, , .		4
165	Linear and Nonlinear Optical Processes Controlling S ₂ and S ₁ Dual Fluorescence in Cyanine Dyes. <i>Journal of Physical Chemistry A</i> , 2021, 125, 9770-9784.	2.5	4
166	Pulse shaping in strong-field ionization: Theory and experiments. <i>Physical Review A</i> , 2022, 105, .	2.5	4
167	Systematic chemical recognition using shaped laser pulses. <i>Journal of Modern Optics</i> , 2006, 53, 2533-2541.	1.3	3
168	Automated phase characterization and adaptive pulse compression using multiphoton intrapulse interference phase scan in air. <i>Optics Express</i> , 2007, 15, 1932.	3.4	3
169	Applications of ultrashort shaped pulses in microscopy and for controlling chemical reactions. <i>Chemical Physics</i> , 2008, 350, 118-124.	1.9	3
170	Single-Beam Coherent Anti-Stokes Raman Scattering for Standoff Detection. <i>Optics and Photonics News</i> , 2008, 19, 46.	0.5	3
171	45 fs optical pulses from phase corrected broadband cascaded four wave mixing products. <i>Laser Physics Letters</i> , 2013, 10, 125109.	1.4	3
172	No loss spectral phase correction and arbitrary phase shaping of regeneratively amplified femtosecond pulses using MIIPS. , 2006, , .		2
173	Pulse Shaping of Octave Spanning Femtosecond Laser Pulses. , 2007, , .		2
174	Asynchronous encrypted information transmission with sub-6 fs laser system at 2.12 GHz repetition rate. <i>Optics Express</i> , 2008, 16, 15109.	3.4	2
175	Molecular level crossing and the geometric phase effect from the optical Hanle perspective. <i>Physical Review A</i> , 2016, 93, .	2.5	2
176	Milliradian precision ultrafast pulse control for spectral phase metrology. <i>Optics Express</i> , 2021, 29, 14314.	3.4	2
177	A comparison of strategies for state-selective coherent Raman excitation. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 2029-2037.	2.5	2
178	Excited-State Dynamics of a Substituted Fluorene Derivative. The Central Role of Hydrogen Bonding Interactions with the Solvent. <i>Journal of Physical Chemistry B</i> , 2021, 125, 12242-12253.	2.6	2
179	Human Serum Albumin Dimerization Enhances the S ₂ Emission of Bound Cyanine IR806. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1825-1832.	4.6	2
180	Four-Wave Mixing and Coherent Control. <i>ACS Symposium Series</i> , 2002, , 61-80.	0.5	1

#	ARTICLE	IF	CITATIONS
181	Controlling the excited state charge transfer in DMABN using shaped femtosecond pulses. , 2007, , .		1
182	Laser-induced dispersion control. Optics Letters, 2014, 39, 3208.	3.3	1
183	Binary-phase compression of stretched pulses. Journal of Optics (United Kingdom), 2017, 19, 105506.	2.2	1
184	Characterization and adaptive compression of a multi-soliton laser source. Optics Express, 2017, 25, 320.	3.4	1
185	WHAT ROLE CAN FOUR-WAVE MIXING TECHNIQUES PLAY IN COHERENT CONTROL?. , 2000, , .		1
186	Investigation of Protein Structure at the Solid/Liquid Interface with Atomic Force Microscopy (Afm). Microscopy and Microanalysis, 1997, 3, 1257-1258.	0.4	0
187	Control of multiphoton excitation in condensed phases based on multiphoton intrapulse interference. , 2003, , .		0
188	Femtosecond photon echo measurements of electronic coherence relaxation of I2 in the presence of He, Ar, N2, O2, C3H8. , 2004, , 33-36.		0
189	Compensation of phase distortions introduced by high objectives on sub-10 fs pulses. , 2005, , .		0
190	Pseudorandom binary pulse shaping in femtosecond laser spectroscopy and imaging. , 0, , .		0
191	Chemical agent detection based on shaped laser pulse technology. , 0, , .		0
192	Highly reproducible control of photofragmentation and ionization using binary phase shaping pulse. , 0, , .		0
193	Laser-based molecular identification. , 2006, , .		0
194	Remote Two-Photon Emission From Dendritic Silver Nanoclusters. Microscopy and Microanalysis, 2006, 12, 630-631.	0.4	0
195	Two-Photon Induced Emission From Silver Nanoparticle Aggregates on Thin Films and in Solution. Microscopy and Microanalysis, 2006, 12, 632-633.	0.4	0
196	In-situ pulse characterization for silicon micromachining. , 2007, , .		0
197	Remote Chemical Detection Using SUPER-CARS. , 2007, , .		0
198	Selective Two-Photon Excitation for Biomedical Imaging. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
199	Spectral Phase Control of Remote Surface-Plasmon-Mediated Two-Photon-Induced Luminescence. , 2007, , .		0
200	High resolution two photon excitation spectroscopy by pulse shaping an ultrabroad bandwidth femtosecond laser. , 2007, , .		0
201	The Impact of Ultrashort Femtosecond Pulse-Shaping Technology for Micromachining. , 2007, , .		0
202	Spectral phase control of remote surface-plasmon-mediated two-photon-induced luminescence. , 2007, , .		0
203	In-situ Pulse Characterization for Silicon Micromachining. , 2007, , .		0
204	The impact of ultrashort femtosecond pulse-shaping technology for micromachining. , 2007, , .		0
205	Phase Characterization and Adaptive Pulse Compression Using MIIPS In Air. , 2007, , .		0
206	Controlling the Excited State Charge Transfer in DMABN Using Shaped Femtosecond Pulses. , 2007, , .		0
207	Effect of Pulse Shaping on Silicon Micromachining Monitored by Laser Induced Breakdown Spectroscopy and Surface Second Harmonic Generation. , 2007, , .		0
208	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
209	Generation of intense ultra-short laser pulse from argon-filled hollow waveguide using MIIPS. , 2008, , .		0
210	MULTIDIMENSIONAL IDENTIFICATION OF CHEMICAL WARFARE AGENTS USING SHAPED FEMTOSECOND PULSES. Selected Topics in Electornics and Systems, 2008, , 321-328.	0.2	0
211	Generation of high energy 4.8 fs pulses from helium-argon mixture filled hollow waveguide. , 2009, , .		0
212	Standoff chemical detection using single-beam CARS. , 2009, , .		0
213	Generation of Complex Optical Pulse Sequences by Multiple Comb Shaping. Optics and Photonics News, 2009, 20, 43.	0.5	0
214	Pulse Shaping Strategies for Single-beam CARS. , 2010, , .		0
215	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
216	Kerr effect induced transient group-velocity dispersion of fused silica measured via real-time MIIPS and spectral interferometry. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
217	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
218	Simultaneous selective two-photon microscopy using MHz rate pulse shaping and quadrature detection of the time-multiplexed signal. Proceedings of SPIE, 2014, , .	0.8	0
219	Epi-direction detected multimodal imaging of an unstained mouse retina with a Yb-fiber laser. , 2017, 10069, .		0
220	Multimodal Biomedical Imaging with Programmable Pulses from a Yb-Fiber Laser. , 2017, , .		0
221	Titelbild: Ultrafast Dynamics of a α -Super α -Photobase (Angew. Chem. 45/2018). Angewandte Chemie, 2018, 130, 14869-14869.	2.0	0
222	Femtosecond Four-Wave Mixing for Molecule Based Computation. , 2002, , .		0
223	Femtosecond four-wave mixing for molecule based computation. Springer Series in Chemical Physics, 2003, , 97-98.	0.2	0
224	Control of nonlinear optical excitation with multiphoton intrapulse interference. , 2004, , 95-101.		0
225	ULTRAFAST TECHNOLOGY Femtosecond Chemical Dynamics: Gas-Phase. , 2005, , 240-253.		0
226	Converting Concepts and Dreams of Coherent Control into Applications. , 2006, , 434-440.		0
227	Advantages of Two-photon Microscopy with Ultrashort Pulses. Springer Series in Chemical Physics, 2009, , 1012-1014.	0.2	0
228	Nonlinear Optical Imaging with Sub-12fs Pulses. , 2009, , .		0
229	Electronic Coherence Mediated Quantum Control of Chemical Reactions in Polyatomic Molecules. , 2013, , .		0
230	Ultrafast Ionization and Fragmentation: From Small Molecules to Proteomic Analysis. Springer Series in Chemical Physics, 2014, , 171-203.	0.2	0
231	Simultaneous Selective Two-Photon Microscopy Using MHz Rate Pulse Shaping and Quadrature Detection of the Time-Multiplexed Signal. , 2014, , .		0
232	Quantitative Unmixing of Endogenous Chromophores in the Retina via Super-Phasors. , 2021, , .		0
233	Intramolecular Relaxation Dynamics Mediated by Solvent α -Solute Interactions of Substituted Fluorene Derivatives. Solute Structural Dependence. Journal of Physical Chemistry B, 2021, 125, 12486-12499.	2.6	0