

Manuel Joffre

List of Publications by Year in descending order

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108
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4,586
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147801

31
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110
all docs

110
docs citations

110
times ranked

2963
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced intrapulse difference frequency generation in the mid-infrared by a spectrally dependent polarization state. <i>Optics Letters</i> , 2022, 47, 261.	3.3	13
2	Phase-modulated rapid-scanning fluorescence-detected two-dimensional electronic spectroscopy. , 2022, , .		0
3	Tunable, Broadband Mid-Infrared Source Based on Amplified Intrapulse Difference Frequency Generation. , 2022, , .		0
4	Mechanism and dynamics of fatty acid photodecarboxylase. <i>Science</i> , 2021, 372, .	12.6	93
5	Phase-modulated rapid-scanning fluorescence-detected two-dimensional electronic spectroscopy. <i>Journal of Chemical Physics</i> , 2021, 155, 094201.	3.0	14
6	Electronic measurement of femtosecond time delays for arbitrary-detuning asynchronous optical sampling. <i>Optics Express</i> , 2020, 28, 18251.	3.4	7
7	Frequency-domain two-dimensional infrared spectroscopy using an acousto-optic programmable dispersive filter. <i>Optics Express</i> , 2019, 27, 4140.	3.4	5
8	Multiscale control and rapid scanning of time delays ranging from picosecond to millisecond. <i>Optics Express</i> , 2017, 25, 17811.	3.4	9
9	Transient Two-Dimensional Infrared Spectroscopy in a Vibrational Ladder. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3377-3382.	4.6	8
10	Arbitrary-detuning asynchronous optical sampling with amplified laser systems. <i>Optics Express</i> , 2015, 23, 27931.	3.4	15
11	Ultrafast Dynamics of Carboxy-Hemoglobin: Two-Dimensional Infrared Spectroscopy Experiments and Simulations. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2216-2222.	4.6	18
12	Arbitrary-detuning asynchronous optical sampling with amplified laser systems. , 2015, , .		0
13	Pulse shaping with birefringent crystals: a tool for quantum metrology. <i>Optics Express</i> , 2013, 21, 21889.	3.4	8
14	Arbitrary-detuning asynchronous optical sampling pump-probe spectroscopy of bacterial reaction centers. <i>Optics Letters</i> , 2013, 38, 3322.	3.3	13
15	Asynchronous optical sampling with arbitrary detuning between laser repetition rates. <i>Optics Express</i> , 2012, 20, 17928.	3.4	29
16	Impact of Pulse Polarization on Coherent Vibrational Ladder Climbing Signals. <i>Journal of Physical Chemistry B</i> , 2011, 115, 5554-5563.	2.6	13
17	Strong Ligand-Protein Interactions Revealed by Ultrafast Infrared Spectroscopy of CO in the Heme Pocket of the Oxygen Sensor FixL. <i>Journal of the American Chemical Society</i> , 2011, 133, 17110-17113.	13.7	22
18	Simultaneous observation of ultrafast ligand dissociation and docking-site trapping in heme proteins using upconversion infrared spectroscopy. , 2010, , .		0

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19	Multiply Excited Vibration of Carbon Monoxide in the Primary Docking Site of Hemoglobin Following Photolysis from the Heme. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2077-2081.	4.6	21
20	Dispersion-based pulse shaping for multiplexed two-photon fluorescence microscopy. <i>Optics Letters</i> , 2010, 35, 3444.	3.3	20
21	Direct mid-infrared femtosecond pulse shaping with a calomel acousto-optic programmable dispersive filter. <i>Optics Letters</i> , 2010, 35, 3565.	3.3	30
22	Multiply excited vibrational states of docking-site CO simultaneously observed with ground-state bleach after photolysis from heme proteins. , 2010, , .		0
23	Femtosecond Spectroscopy from the Perspective of a Global Multidimensional Response Function. <i>Accounts of Chemical Research</i> , 2009, 42, 1433-1441.	15.6	5
24	Suppression of perturbed free-induction decay and noise in experimental ultrafast pump-probe data. <i>Optics Letters</i> , 2009, 34, 3226.	3.3	18
25	Unobtrusive interferometer tracking by path length oscillation for multidimensional spectroscopy. <i>Optics Express</i> , 2009, 17, 12379.	3.4	9
26	Multiplexed two-photon microscopy of dynamic biological samples with shaped broadband pulses. <i>Optics Express</i> , 2009, 17, 12741.	3.4	24
27	Removing cross-phase modulation from midinfrared chirped-pulse upconversion spectra. <i>Optics Express</i> , 2009, 17, 18738.	3.4	88
28	Direct observation of ligand transfer and bond formation in cytochrome c oxidase using mid-infrared chirped-pulse upconversion. <i>Springer Series in Chemical Physics</i> , 2009, , 541-543.	0.2	0
29	Characterization of mid-infrared femtosecond pulses [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008, 25, A54.	2.1	22
30	Direct observation of ligand transfer and bond formation in cytochrome c oxidase by using mid-infrared chirped-pulse upconversion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 15705-15710.	7.1	36
31	Comment on "Coherent Control of Retinal Isomerization in Bacteriorhodopsin". <i>Science</i> , 2007, 317, 453-453.	12.6	18
32	Toward Programmable Ultrashort Pulse Characterization. , 2007, , .		1
33	Two-dimensional infrared spectroscopy detected by chirped pulse upconversion. <i>Optics Letters</i> , 2007, 32, 713.	3.3	84
34	Quantification of Sudden Light-Induced Polarization in Bacteriorhodopsin by Optical Rectification. <i>Journal of Physical Chemistry B</i> , 2007, 111, 2707-2710.	2.6	17
35	Detection of Ultrafast Infrared Electric Fields by Chirped-Pulse Upconversion. <i>Springer Series in Chemical Physics</i> , 2007, , 178-180.	0.2	0
36	Fourier-transform coherent anti-Stokes Raman scattering microscopy. <i>Optics Letters</i> , 2006, 31, 480.	3.3	124

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37	Generation and complete characterization of intense mid-infrared ultrashort pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006, 23, 332.	2.1	17
38	Use of coherent control for selective two-photon fluorescence microscopy in live organisms. <i>Optics Express</i> , 2006, 14, 759.	3.4	120
39	Interferometric Fourier transform Coherent anti-Stokes Raman Scattering. <i>Optics Express</i> , 2006, 14, 8448.	3.4	61
40	Detection of Ultrafast Infrared Electric Fields by Chirped-Pulse Upconversion. , 2006, , .		0
41	Novel applications of broadband excitation to multiphoton microscopy. , 2006, , .		0
42	Terahertz Femtosecond Pulses. , 2005, , 309-331.		1
43	Coherent vibrational climbing in carboxy-hemoglobin. <i>Springer Series in Chemical Physics</i> , 2005, , 628-630.	0.2	0
44	Coherent Effects in Femtosecond Spectroscopy: A Simple Picture Using the Bloch Equation. , 2005, , 283-308.		1
45	Fourier transform measurement of two-photon excitation spectra: applications to microscopy and optimal control. <i>Optics Letters</i> , 2005, 30, 911.	3.3	63
46	Mid-infrared electric field characterization using a visible charge-coupled-device-based spectrometer. <i>Optics Letters</i> , 2005, 30, 1228.	3.3	58
47	Fourier Transform Measurement of Two-Photon Excitation Spectra: Applications to Microscopy and Quantum Control. <i>Springer Series in Chemical Physics</i> , 2005, , 575-577.	0.2	1
48	Ultrafast polarization and vibrational motions in bacteriorhodopsin studied by coherent infrared emission spectroscopy. <i>Springer Series in Chemical Physics</i> , 2005, , 616-618.	0.2	0
49	Coherent vibrational climbing in carboxyhemoglobin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 13216-13220.	7.1	86
50	CO Vibration as a Probe of Ligand Dissociation and Transfer in Myoglobin. <i>Physical Review Letters</i> , 2004, 93, 018102.	7.8	18
51	Resonant optical rectification in bacteriorhodopsin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 7971-7975.	7.1	35
52	Naphthalocyanine-based time reversal mirror at. <i>Journal of Luminescence</i> , 2004, 107, 187-193.	3.1	7
53	Time-domain interferometry for direct electric-field reconstruction by use of an acousto-optic programmable filter and a two-photon detector. <i>Optics Letters</i> , 2003, 28, 278.	3.3	44
54	Time-domain interferometry for direct electric field reconstruction of mid-infrared femtosecond pulses. <i>Optics Letters</i> , 2003, 28, 1826.	3.3	9

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55	Amplitude and phase measurements of femtosecond pulses shaped by use of spectral hole burning in free-base naphthalocyanine-doped films. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003, 20, 1555.	2.1	13
56	Two-dimensional IR/visible measurements of $\chi^{(2)}$, 2003, , .		0
57	Comment on "Coherent Nonlinear Optical Response of Single Quantum Dots Studied by Ultrafast Near-Field Spectroscopy", <i>Physical Review Letters</i> , 2003, 90, 139701; author reply 139702.	7.8	6
58	Two-dimensional visible-infrared Fourier transform spectroscopy. <i>Springer Series in Chemical Physics</i> , 2003, , 580-582.	0.2	0
59	Coherent infrared emission from myoglobin crystals: An electric field measurement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 1323-1328.	7.1	38
60	Femtosecond pulse shaping based on spectral hole burning. <i>EPJ Applied Physics</i> , 2002, 20, 205-211.	0.7	7
61	Visible-infrared two-dimensional Fourier-transform spectroscopy. <i>Optics Letters</i> , 2002, 27, 2043.	3.3	30
62	High-energy sub-picosecond pulse generation from 3 to 20 μm . <i>Applied Physics B: Lasers and Optics</i> , 2002, 74, s153-s156.	2.2	10
63	Two-dimensional visible-infrared Fourier transform spectroscopy. , 2002, , .		0
64	Spectroscopie non-linéaire femtoseconde cohérente à deux dimensions spectrales. <i>European Physical Journal Special Topics</i> , 2002, 12, 393-395.	0.2	0
65	Conversion of high-power 15-fs visible pulses to the mid infrared. <i>Optics Letters</i> , 2001, 26, 99.	3.3	18
66	Coherent broadband pulse shaping in the mid infrared. <i>Optics Letters</i> , 2001, 26, 743.	3.3	35
67	Characterization of the spectral phase of ultrashort light pulses. <i>Comptes Rendus Physique</i> , 2001, 2, 1415-1426.	0.1	10
68	Reliability of Fourier-transform spectral interferometry. <i>Springer Series in Chemical Physics</i> , 2001, , 141-143.	0.2	0
69	Spectral resolution and sampling issues in Fourier-transform spectral interferometry. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2000, 17, 1795.	2.1	357
70	Excitonic Gain in Coherently-Driven Semiconductors. <i>Physica Status Solidi (B): Basic Research</i> , 1998, 206, 71-75.	1.5	4
71	Intracavity white-light continuum generation in a femtosecond Ti:sapphire oscillator. <i>Applied Physics Letters</i> , 1998, 73, 2257-2259.	3.3	7
72	Singlet exciton relaxation in isolated polydiacetylene chains studied by subpicosecond pump-probe experiments. <i>Physical Review B</i> , 1998, 58, 15777-15788.	3.2	30

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73	Terahertz Femtosecond Pulses. , 1998, , 285-305.		6
74	Coherent Effects in Femtosecond Spectroscopy: A Simple Picture Using the Bloch Equation. , 1998, , 261-284.		2
75	Hyper-Raman Gain due to Excitons Coherently Driven with Femtosecond Pulses. Physical Review Letters, 1997, 79, 3716-3719.	7.8	14
76	Measurement of photon echoes by use of femtosecond Fourier-transform spectral interferometry. Optics Letters, 1997, 22, 1104.	3.3	74
77	Two-dimensional nonlinear optics using Fourier-transform spectral interferometry. Optics Letters, 1996, 21, 564.	3.3	123
78	Femtosecond diffracting Fourier-transform infrared interferometer. Optics Letters, 1996, 21, 964.	3.3	51
79	Femtosecond Infrared Emission Resulting from Coherent Charge Oscillations in Quantum Wells. Physical Review Letters, 1996, 76, 4392-4395.	7.8	94
80	TWO-DIMENSIONAL NONLINEAR OPTICS SPECTROSCOPY: SIMULATIONS AND EXPERIMENTAL DEMONSTRATION. Journal of Nonlinear Optical Physics and Materials, 1996, 05, 465-476.	1.8	22
81	Generation and Applications of Mid-Infrared Femtosecond Pulses Obtained by Optical Rectification of 15-fs Near-Infrared Pulses. Springer Series in Chemical Physics, 1996, , 42-43.	0.2	0
82	Diffracting Fourier-Transform Spectroscopy Using Mid-Infrared Femtosecond Pulses. Springer Series in Chemical Physics, 1996, , 71-72.	0.2	0
83	Control of the spectral-oscillation artifact in femtosecond pump-probe spectroscopy. Optics Letters, 1995, 20, 2006.	3.3	16
84	Linear techniques of phase measurement by femtosecond spectral interferometry for applications in spectroscopy. Journal of the Optical Society of America B: Optical Physics, 1995, 12, 2467.	2.1	853
85	Generation of ultrabroadband femtosecond pulses in the mid-infrared by optical rectification of 15 fs light pulses at 100 MHz repetition rate. Applied Physics Letters, 1995, 67, 2907-2909.	3.3	182
86	Ultrabroadband second-harmonic generation in organic and inorganic thin crystals. Applied Physics Letters, 1994, 64, 264-266.	3.3	21
87	Coherence effects in pump-probe experiments with chirped pump pulses. Journal of the Optical Society of America B: Optical Physics, 1993, 10, 1143.	2.1	14
88	Second order optical nonlinearity in octupolar aromatic systems. Journal of Chemical Physics, 1992, 97, 5607-5615.	3.0	199
89	Absorption edge singularities in highly excited semiconductors. Physical Review Letters, 1992, 68, 110-113.	7.8	75
90	Femtosecond pulse phase measurement by spectrally resolved up-conversion: application to continuum compression. IEEE Journal of Quantum Electronics, 1992, 28, 2285-2290.	1.9	42

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91	Absorption Edge Singularities for Non-Equilibrium Carrier Distributions. Physica Status Solidi (B): Basic Research, 1992, 173, 281-290.	1.5	7
92	Generation of 27 fs pulses of 70 kW peak power at 80 MHz repetition rate using a cw self-pulsing Ti:sapphire laser. Applied Physics Letters, 1991, 58, 2061-2063.	3.3	24
93	Ultrafast optical nonlinearities in II-VI compounds. Journal of Crystal Growth, 1990, 101, 643-649.	1.5	7
94	Excitonic optical Stark redshift: The biexciton signature. Physical Review Letters, 1990, 65, 3425-3428.	7.8	70
95	Laser-Induced Exciton Splitting. Physical Review Letters, 1989, 62, 74-77.	7.8	69
96	Dynamic Stark effect of exciton and continuum states in CdS. Physical Review Letters, 1989, 62, 1185-1188.	7.8	88
97	Dynamics and Fourier transform studies of the excitonic optical Stark effect. IEEE Journal of Quantum Electronics, 1989, 25, 2505-2515.	1.9	25
98	Femtosecond optical nonlinearities of CdSe quantum dots. IEEE Journal of Quantum Electronics, 1989, 25, 2516-2522.	1.9	160
99	Measurements of Ultrafast Optical Nonlinearities in Semiconductors. Physica Status Solidi (B): Basic Research, 1988, 150, 357-363.	1.5	19
100	Coherent effects in pump-probe spectroscopy of excitons. Optics Letters, 1988, 13, 276.	3.3	146
101	Transient oscillations in the vicinity of excitons and in the band of semiconductors. Physical Review B, 1988, 38, 7615-7621.	3.2	74
102	Dynamics of the Optical Stark Effect in Semiconductors. Journal of Modern Optics, 1988, 35, 1951-1964.	1.3	30
103	STEADY-STATE AND TIME-RESOLVED EXCITONIC OPTICAL NONLINEARITIES IN MBE-GROWN ZnSe. Journal De Physique Colloque, 1988, 49, C2-185-C2-187.	0.2	0
104	Femtosecond Studies of Coherent Transients in Semiconductors. Physical Review Letters, 1987, 59, 2588-2591.	7.8	171
105	FEMTOSECOND STUDY OF THE OPTICAL STARK EFFECT IN MULTIPLE QUANTUM WELL STRUCTURES. Journal De Physique Colloque, 1987, 48, C5-537-C5-540.	0.2	14
106	ULTRAFAST RECOVERY OF ABSORPTION SATURATION IN GaAs / AlGaAs MULTIPLE QUANTUM WELLS. Journal De Physique Colloque, 1987, 48, C5-267-C5-270.	0.2	5
107	Subpicosecond all-optical logic gate : an application of the optical Stark effect. Revue De Physique Appliquée, 1987, 22, 1269-1271.	0.4	11
108	Subpicosecond excitonic optical nonlinearities in quantum wells. Revue De Physique Appliquée, 1987, 22, 1705-1709.	0.4	8