

Manuel Joffre

List of Publications by Year in descending order

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108
papers

4,586
citations

147801

31
h-index

98798

67
g-index

110
all docs

110
docs citations

110
times ranked

2963
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Spectral resolution and sampling issues in Fourier-transform spectral interferometry. Journal of the Optical Society of America B: Optical Physics, 2000, 17, 1795.	2.1	357
3	Second order optical nonlinearity in octupolar aromatic systems. Journal of Chemical Physics, 1992, 97, 5607-5615.	3.0	199
4	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
5	Femtosecond Studies of Coherent Transients in Semiconductors. Physical Review Letters, 1987, 59, 2588-2591.	7.8	171
6	Femtosecond optical nonlinearities of CdSe quantum dots. IEEE Journal of Quantum Electronics, 1989, 25, 2516-2522.	1.9	160
7	Coherent effects in pump-probe spectroscopy of excitons. Optics Letters, 1988, 13, 276.	3.3	146
8	Fourier-transform coherent anti-Stokes Raman scattering microscopy. Optics Letters, 2006, 31, 480.	3.3	124
9	Two-dimensional nonlinear optics using Fourier-transform spectral interferometry. Optics Letters, 1996, 21, 564.	3.3	123
10	Use of coherent control for selective two-photon fluorescence microscopy in live organisms. Optics Express, 2006, 14, 759.	3.4	120
11	Femtosecond Infrared Emission Resulting from Coherent Charge Oscillations in Quantum Wells. Physical Review Letters, 1996, 76, 4392-4395.	7.8	94
12	Mechanism and dynamics of fatty acid photodecarboxylase. Science, 2021, 372, .	12.6	93
13	Dynamic Stark effect of exciton and continuum states in CdS. Physical Review Letters, 1989, 62, 1185-1188.	7.8	88
14	Removing cross-phase modulation from midinfrared chirped-pulse upconversion spectra. Optics Express, 2009, 17, 18738.	3.4	88
15	Coherent vibrational climbing in carboxyhemoglobin. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13216-13220.	7.1	86
16	Two-dimensional infrared spectroscopy detected by chirped pulse upconversion. Optics Letters, 2007, 32, 713.	3.3	84
17	Absorption edge singularities in highly excited semiconductors. Physical Review Letters, 1992, 68, 110-113.	7.8	75
18	Transient oscillations in the vicinity of excitons and in the band of semiconductors. Physical Review B, 1988, 38, 7615-7621.	3.2	74

#	ARTICLE	IF	CITATIONS
19	Measurement of photon echoes by use of femtosecond Fourier-transform spectral interferometry. <i>Optics Letters</i> , 1997, 22, 1104.	3.3	74
20	Excitonic optical Stark redshift: The biexciton signature. <i>Physical Review Letters</i> , 1990, 65, 3425-3428.	7.8	70
21	Laser-Induced Exciton Splitting. <i>Physical Review Letters</i> , 1989, 62, 74-77.	7.8	69
22	Fourier transform measurement of two-photon excitation spectra: applications to microscopy and optimal control. <i>Optics Letters</i> , 2005, 30, 911.	3.3	63
23	Interferometric Fourier transform Coherent anti-Stokes Raman Scattering. <i>Optics Express</i> , 2006, 14, 8448.	3.4	61
24	Mid-infrared electric field characterization using a visible charge-coupled-device-based spectrometer. <i>Optics Letters</i> , 2005, 30, 1228.	3.3	58
25	Femtosecond diffracting Fourier-transform infrared interferometer. <i>Optics Letters</i> , 1996, 21, 964.	3.3	51
26	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
27	Femtosecond pulse phase measurement by spectrally resolved up-conversion: application to continuum compression. <i>IEEE Journal of Quantum Electronics</i> , 1992, 28, 2285-2290.	1.9	42
28	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
29	Direct observation of ligand transfer and bond formation in cytochrome <i>c</i> 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
30	Coherent broadband pulse shaping in the mid infrared. <i>Optics Letters</i> , 2001, 26, 743.	3.3	35
31	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
32	Dynamics of the Optical Stark Effect in Semiconductors. <i>Journal of Modern Optics</i> , 1988, 35, 1951-1964.	1.3	30
33	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
34	Visible-infrared two-dimensional Fourier-transform spectroscopy. <i>Optics Letters</i> , 2002, 27, 2043.	3.3	30
35	Direct mid-infrared femtosecond pulse shaping with a calomel acousto-optic programmable dispersive filter. <i>Optics Letters</i> , 2010, 35, 3565.	3.3	30
36	Asynchronous optical sampling with arbitrary detuning between laser repetition rates. <i>Optics Express</i> , 2012, 20, 17928.	3.4	29

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37	Dynamics and Fourier transform studies of the excitonic optical Stark effect. IEEE Journal of Quantum Electronics, 1989, 25, 2505-2515.	1.9	25
38	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
39	Multiplexed two-photon microscopy of dynamic biological samples with shaped broadband pulses. Optics Express, 2009, 17, 12741.	3.4	24
40	TWO-DIMENSIONAL NONLINEAR OPTICS SPECTROSCOPY: SIMULATIONS AND EXPERIMENTAL DEMONSTRATION. Journal of Nonlinear Optical Physics and Materials, 1996, 05, 465-476.	1.8	22
41	Characterization of mid-infrared femtosecond pulses [Invited]. Journal of the Optical Society of America B: Optical Physics, 2008, 25, A54.	2.1	22
42	Strong Ligand-Protein Interactions Revealed by Ultrafast Infrared Spectroscopy of CO in the Heme Pocket of the Oxygen Sensor FixL. Journal of the American Chemical Society, 2011, 133, 17110-17113.	13.7	22
43	Ultrabroadband second-harmonic generation in organic and inorganic thin crystals. Applied Physics Letters, 1994, 64, 264-266.	3.3	21
44	Multiply Excited Vibration of Carbon Monoxide in the Primary Docking Site of Hemoglobin Following Photolysis from the Heme. Journal of Physical Chemistry Letters, 2010, 1, 2077-2081.	4.6	21
45	Dispersion-based pulse shaping for multiplexed two-photon fluorescence microscopy. Optics Letters, 2010, 35, 3444.	3.3	20
46	Measurements of Ultrafast Optical Nonlinearities in Semiconductors. Physica Status Solidi (B): Basic Research, 1988, 150, 357-363.	1.5	19
47	Conversion of high-power 15-fs visible pulses to the mid infrared. Optics Letters, 2001, 26, 99.	3.3	18
48	CO Vibration as a Probe of Ligand Dissociation and Transfer in Myoglobin. Physical Review Letters, 2004, 93, 018102.	7.8	18
49	Comment on "Coherent Control of Retinal Isomerization in Bacteriorhodopsin". Science, 2007, 317, 453-453.	12.6	18
50	Suppression of perturbed free-induction decay and noise in experimental ultrafast pump-probe data. Optics Letters, 2009, 34, 3226.	3.3	18
51	Ultrafast Dynamics of Carboxy-Hemoglobin: Two-Dimensional Infrared Spectroscopy Experiments and Simulations. Journal of Physical Chemistry Letters, 2015, 6, 2216-2222.	4.6	18
52	Generation and complete characterization of intense mid-infrared ultrashort pulses. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 332.	2.1	17
53	Quantification of Sudden Light-Induced Polarization in Bacteriorhodopsin by Optical Rectification. Journal of Physical Chemistry B, 2007, 111, 2707-2710.	2.6	17
54	Control of the spectral-oscillation artifact in femtosecond pump-probe spectroscopy. Optics Letters, 1995, 20, 2006.	3.3	16

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55	Arbitrary-detuning asynchronous optical sampling with amplified laser systems. Optics Express, 2015, 23, 27931.	3.4	15
56	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
57	Hyper-Raman Gain due to Excitons Coherently Driven with Femtosecond Pulses. Physical Review Letters, 1997, 79, 3716-3719.	7.8	14
58	Phase-modulated rapid-scanning fluorescence-detected two-dimensional electronic spectroscopy. Journal of Chemical Physics, 2021, 155, 094201.	3.0	14
59	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
60	Amplitude and phase measurements of femtosecond pulses shaped by use of spectral hole burning in free-base naphthalocyanine-doped films. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 1555.	2.1	13
61	Impact of Pulse Polarization on Coherent Vibrational Ladder Climbing Signals. Journal of Physical Chemistry B, 2011, 115, 5554-5563.	2.6	13
62	Arbitrary-detuning asynchronous optical sampling pump-probe spectroscopy of bacterial reaction centers. Optics Letters, 2013, 38, 3322.	3.3	13
63	Enhanced intrapulse difference frequency generation in the mid-infrared by a spectrally dependent polarization state. Optics Letters, 2022, 47, 261.	3.3	13
64	Subpicosecond all-optical logic gate : an application of the optical Stark effect. Revue De Physique Appliquée, 1987, 22, 1269-1271.	0.4	11
65	Characterization of the spectral phase of ultrashort light pulses. Comptes Rendus Physique, 2001, 2, 1415-1426.	0.1	10
66	High-energy sub-picosecond pulse generation from 3 to 20 μ m. Applied Physics B: Lasers and Optics, 2002, 74, s153-s156.	2.2	10
67	Time-domain interferometry for direct electric field reconstruction of mid-infrared femtosecond pulses. Optics Letters, 2003, 28, 1826.	3.3	9
68	Unobtrusive interferometer tracking by path length oscillation for multidimensional spectroscopy. Optics Express, 2009, 17, 12379.	3.4	9
69	Multiscale control and rapid scanning of time delays ranging from picosecond to millisecond. Optics Express, 2017, 25, 17811.	3.4	9
70	Pulse shaping with birefringent crystals: a tool for quantum metrology. Optics Express, 2013, 21, 21889.	3.4	8
71	Transient Two-Dimensional Infrared Spectroscopy in a Vibrational Ladder. Journal of Physical Chemistry Letters, 2016, 7, 3377-3382.	4.6	8
72	Subpicosecond excitonic optical nonlinearities in quantum wells. Revue De Physique Appliquée, 1987, 22, 1705-1709.	0.4	8

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73	Ultrafast optical nonlinearities in II ^{VI} compounds. Journal of Crystal Growth, 1990, 101, 643-649.	1.5	7
74	Absorption Edge Singularities for Non [∞] Equilibrium Carrier Distributions. Physica Status Solidi (B): Basic Research, 1992, 173, 281-290.	1.5	7
75	Intracavity white-light continuum generation in a femtosecond Ti:sapphire oscillator. Applied Physics Letters, 1998, 73, 2257-2259.	3.3	7
76	Femtosecond pulse shaping based on spectral hole burning. EPJ Applied Physics, 2002, 20, 205-211.	0.7	7
77	Naphthalocyanine-based time reversal mirror at. Journal of Luminescence, 2004, 107, 187-193.	3.1	7
78	Electronic measurement of femtosecond time delays for arbitrary-detuning asynchronous optical sampling. Optics Express, 2020, 28, 18251.	3.4	7
79	Comment on "Coherent Nonlinear Optical Response of Single Quantum Dots Studied by Ultrafast Near-Field Spectroscopy". Physical Review Letters, 2003, 90, 139701; author reply 139702.	7.8	6
80	Terahertz Femtosecond Pulses. , 1998, , 285-305.		6
81	Femtosecond Spectroscopy from the Perspective of a Global Multidimensional Response Function. Accounts of Chemical Research, 2009, 42, 1433-1441.	15.6	5
82	ULTRAFast RECOVERY OF ABSORPTION SATURATION IN GaAs / AlGaAs MULTIPLE QUANTUM WELLS. Journal De Physique Colloque, 1987, 48, C5-267-C5-270.	0.2	5
83	Frequency-domain two-dimensional infrared spectroscopy using an acousto-optic programmable dispersive filter. Optics Express, 2019, 27, 4140.	3.4	5
84	Excitonic Gain in Coherently-Driven Semiconductors. Physica Status Solidi (B): Basic Research, 1998, 206, 71-75.	1.5	4
85	Coherent Effects in Femtosecond Spectroscopy: A Simple Picture Using the Bloch Equation. , 1998, , 261-284.		2
86	Terahertz Femtosecond Pulses. , 2005, , 309-331.		1
87	Coherent Effects in Femtosecond Spectroscopy: A Simple Picture Using the Bloch Equation. , 2005, , 283-308.		1
88	Toward Programmable Ultrashort Pulse Characterization. , 2007, , .		1
89	Fourier Transform Measurement of Two-Photon Excitation Spectra: Applications to Microscopy and Quantum Control. Springer Series in Chemical Physics, 2005, , 575-577.	0.2	1
90	Two-dimensional IR/visible measurements of $\chi^{(2)}$. , 2003, , .		0

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91	Coherent vibrational climbing in carboxy-hemoglobin. Springer Series in Chemical Physics, 2005, , 628-630.	0.2	0
92	Simultaneous observation of ultrafast ligand dissociation and docking-site trapping in heme proteins using upconversion infrared spectroscopy. , 2010, , .		0
93	Reliability of Fourier-transform spectral interferometry. Springer Series in Chemical Physics, 2001, , 141-143.	0.2	0
94	Two-dimensional visible-infrared Fourier transform spectroscopy. , 2002, , .		0
95	Spectroscopie non-linÃ©aire femtoseconde cohÃ©rente Ã deux dimensions spectrales. European Physical Journal Special Topics, 2002, 12, 393-395.	0.2	0
96	Two-dimensional visible-infrared Fourier transform spectroscopy. Springer Series in Chemical Physics, 2003, , 580-582.	0.2	0
97	Ultrafast polarization and vibrational motions in bacteriorhodopsin studied by coherent infrared emission spectroscopy. Springer Series in Chemical Physics, 2005, , 616-618.	0.2	0
98	Detection of Ultrafast Infrared Electric Fields by Chirped-Pulse Upconversion. , 2006, , .		0
99	Novel applications of broadband excitation to multiphoton microscopy. , 2006, , .		0
100	Detection of Ultrafast Infrared Electric Fields by Chirped-Pulse Upconversion. Springer Series in Chemical Physics, 2007, , 178-180.	0.2	0
101	Direct observation of ligand transfer and bond formation in cytochrome c oxidase using mid-infrared chirped-pulse upconversion. Springer Series in Chemical Physics, 2009, , 541-543.	0.2	0
102	Multiply excited vibrational states of docking-site CO simultaneously observed with ground-state bleach after photolysis from heme proteins. , 2010, , .		0
103	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
104	Diffraction Fourier-Transform Spectroscopy Using Mid-Infrared Femtosecond Pulses. Springer Series in Chemical Physics, 1996, , 71-72.	0.2	0
105	Arbitrary-detuning asynchronous optical sampling with amplified laser systems. , 2015, , .		0
106	Phase-modulated rapid-scanning fluorescence-detected two-dimensional electronic spectroscopy. , 2022, , .		0
107	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
108	Tunable, Broadband Mid-Infrared Source Based on Amplified Intrapulse Difference Frequency Generation. , 2022, , .		0