

Giulio Cerullo

List of Publications by Year in descending order

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871
papers

29,880
citations

4370

86
h-index

9311

143
g-index

889
all docs

889
docs citations

889
times ranked

23599
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast optical parametric amplifiers. <i>Review of Scientific Instruments</i> , 2003, 74, 1-18.	0.6	808
2	Conical intersection dynamics of the primary photoisomerization event in vision. <i>Nature</i> , 2010, 467, 440-443.	13.7	779
3	Femtosecond Dynamics of Excited-State Evolution in [Ru(bpy) ₃] ²⁺ . <i>Science</i> , 1997, 275, 54-57.	6.0	673
4	Hot exciton dissociation in polymer solar cells. <i>Nature Materials</i> , 2013, 12, 29-33.	13.3	567
5	Tracing photoinduced electron transfer process in conjugated polymer/fullerene bulk heterojunctions in real time. <i>Chemical Physics Letters</i> , 2001, 340, 232-236.	1.2	563
6	Coherent ultrafast charge transfer in an organic photovoltaic blend. <i>Science</i> , 2014, 344, 1001-1005.	6.0	470
7	Ultrafast collinear scattering and carrier multiplication in graphene. <i>Nature Communications</i> , 2013, 4, 1987.	5.8	446
8	Mode matching in multiresonant plasmonic nanoantennas for enhanced second harmonic generation. <i>Nature Nanotechnology</i> , 2015, 10, 412-417.	15.6	421
9	Ultrafast Dynamics of Exciton Fission in Polycrystalline Pentacene. <i>Journal of the American Chemical Society</i> , 2011, 133, 11830-11833.	6.6	394
10	Real-time observation of ultrafast Rabi oscillations between excitons and plasmons in metal nanostructures with J-aggregates. <i>Nature Photonics</i> , 2013, 7, 128-132.	15.6	371
11	Femtosecond writing of active optical waveguides with astigmatically shaped beams. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003, 20, 1559.	0.9	341
12	High-energy pulse synthesis with sub-cycle waveform control for strong-field physics. <i>Nature Photonics</i> , 2011, 5, 475-479.	15.6	308
13	Photo-Induced Bandgap Renormalization Governs the Ultrafast Response of Single-Layer MoS ₂ . <i>ACS Nano</i> , 2016, 10, 1182-1188.	7.3	272
14	Sub-8-fs pulses from an ultrabroadband optical parametric amplifier in the visible. <i>Optics Letters</i> , 1998, 23, 1283.	1.7	252
15	Photosynthetic Light Harvesting by Carotenoids: Detection of an Intermediate Excited State. <i>Science</i> , 2002, 298, 2395-2398.	6.0	251
16	Femtosecond laser microstructuring: an enabling tool for optofluidic lab-on-a-chips. <i>Laser and Photonics Reviews</i> , 2011, 5, 442-463.	4.4	250
17	Quantum coherence controls the charge separation in a prototypical artificial light-harvesting system. <i>Nature Communications</i> , 2013, 4, 1602.	5.8	239
18	Nonadiabatic three-dimensional model of high-order harmonic generation in the few-optical-cycle regime. <i>Physical Review A</i> , 2000, 61, .	1.0	230

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19	Broadband, electrically tunable third-harmonic generation in graphene. <i>Nature Nanotechnology</i> , 2018, 13, 583-588.	15.6	211
20	Ultrafast carrier thermalization in lead iodide perovskite probed with two-dimensional electronic spectroscopy. <i>Nature Communications</i> , 2017, 8, 376.	5.8	193
21	Femtosecond micromachining of symmetric waveguides at 15 μm by astigmatic beam focusing. <i>Optics Letters</i> , 2002, 27, 1938.	1.7	191
22	Phase-locked pulses for two-dimensional spectroscopy by a birefringent delay line. <i>Optics Letters</i> , 2012, 37, 3027.	1.7	187
23	Three-dimensional Mach-Zehnder interferometer in a microfluidic chip for spatially-resolved label-free detection. <i>Lab on A Chip</i> , 2010, 10, 1167.	3.1	184
24	Optimal metal domain size for photocatalysis with hybrid semiconductor-metal nanorods. <i>Nature Communications</i> , 2016, 7, 10413.	5.8	184
25	High-power femtosecond chirped pulse excitation of molecules in solution. <i>Chemical Physics Letters</i> , 1996, 262, 362-368.	1.2	183
26	Ultrafast Spectroscopy: State of the Art and Open Challenges. <i>Journal of the American Chemical Society</i> , 2020, 142, 3-15.	6.6	183
27	Millijoule-level phase-stabilized few-optical-cycle infrared parametric source. <i>Optics Letters</i> , 2007, 32, 2957.	1.7	181
28	Carrier-envelope phase effects on the strong-field photoemission of electrons from metallic nanostructures. <i>Nature Photonics</i> , 2014, 8, 37-42.	15.6	179
29	Coherent pulse synthesis: towards sub-cycle optical waveforms. <i>Laser and Photonics Reviews</i> , 2015, 9, 129-171.	4.4	179
30	Er:Yb-doped waveguide laser fabricated by femtosecond laser pulses. <i>Optics Letters</i> , 2004, 29, 2626.	1.7	175
31	Intersubband Exciton Relaxation Dynamics in Single-Walled Carbon Nanotubes. <i>Physical Review Letters</i> , 2005, 94, 207401.	2.9	175
32	Real-time observation of nonlinear coherent phonon dynamics in single-walled carbon nanotubes. <i>Nature Physics</i> , 2006, 2, 515-520.	6.5	174
33	Ultrafast Manipulation of Strong Coupling in Metal-Molecular Aggregate Hybrid Nanostructures. <i>ACS Nano</i> , 2010, 4, 7559-7565.	7.3	172
34	Transient Absorption Imaging of P3HT:PCBM Photovoltaic Blend: Evidence For Interfacial Charge Transfer State. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1099-1105.	2.1	171
35	Single-cycle multiterahertz transients with peak fields above 10 MV/cm. <i>Optics Letters</i> , 2010, 35, 2645.	1.7	164
36	Nonequilibrium dynamics of photoexcited electrons in graphene: Collinear scattering, Auger processes, and the impact of screening. <i>Physical Review B</i> , 2013, 88, .	1.1	164

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37	Two-color pump-probe system broadly tunable over the visible and the near infrared with sub-30fs temporal resolution. <i>Review of Scientific Instruments</i> , 2006, 77, 023103.	0.6	159
38	High-time-resolution pump-probe system with broadband detection for the study of time-domain vibrational dynamics. <i>Review of Scientific Instruments</i> , 2007, 78, 103108.	0.6	159
39	Few-optical-cycle pulses tunable from the visible to the mid-infrared by optical parametric amplifiers. <i>Journal of Optics (United Kingdom)</i> , 2010, 12, 013001.	1.0	158
40	Femtosecond laser ablation of polymeric substrates for the fabrication of microfluidic channels. <i>Applied Surface Science</i> , 2011, 257, 6243-6250.	3.1	156
41	Generation of 11 fs pulses tunable across the visible by optical parametric amplification. <i>Applied Physics Letters</i> , 1997, 71, 3616-3618.	1.5	153
42	The Nature of Singlet Exciton Fission in Carotenoid Aggregates. <i>Journal of the American Chemical Society</i> , 2015, 137, 5130-5139.	6.6	152
43	Tracking the coherent generation of polaron pairs in conjugated polymers. <i>Nature Communications</i> , 2016, 7, 13742.	5.8	149
44	ABCD matrix analysis of propagation of gaussian beams through Kerr media. <i>Optics Communications</i> , 1993, 96, 348-355.	1.0	147
45	Activated Singlet Exciton Fission in a Semiconducting Polymer. <i>Journal of the American Chemical Society</i> , 2013, 135, 12747-12754.	6.6	143
46	Coherent orbital waves in the photo-induced insulator-metal dynamics of a magnetoresistive manganite. <i>Nature Materials</i> , 2007, 6, 643-647.	13.3	139
47	Direct Observation of Ultrafast Field-Induced Charge Generation in Ladder-Type Poly(Para-Phenylene). <i>Physical Review Letters</i> , 1998, 81, 3259-3262.	2.9	137
48	Integrated three-dimensional filter separates nanoscale from microscale elements in a microfluidic chip. <i>Lab on A Chip</i> , 2012, 12, 1135.	3.1	137
49	Self-starting Kerr-lens mode locking of a Ti:sapphire laser. <i>Optics Letters</i> , 1994, 19, 1040.	1.7	136
50	Quantum interference between charge excitation paths in a solid-state Mott insulator. <i>Nature Physics</i> , 2011, 7, 114-118.	6.5	134
51	Integration of optical waveguides and microfluidic channels both fabricated by femtosecond laser irradiation. <i>Applied Physics Letters</i> , 2007, 90, 231118.	1.5	133
52	Three-dimensional structural niches engineered via two-photon laser polymerization promote stem cell homing. <i>Acta Biomaterialia</i> , 2013, 9, 4579-4584.	4.1	132
53	Electron-Phonon Coupling in High-Temperature Cuprate Superconductors Determined from Electron Relaxation Rates. <i>Physical Review Letters</i> , 2010, 105, 257001.	2.9	131
54	Design criteria for ultrafast optical parametric amplifiers. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 103501.	1.0	131

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55	Out-of-plane heat transfer in van der Waals stacks through electronâ€“hyperbolic phonon coupling. Nature Nanotechnology, 2018, 13, 41-46.	15.6	128
56	Pulse compression over a 170-THz bandwidth in the visible by use of only chirped mirrors. Optics Letters, 2001, 26, 1155.	1.7	125
57	Effect of Surface Coating on the Photocatalytic Function of Hybrid CdS-Au Nanorods. Small, 2015, 11, 462-471.	5.2	124
58	Fewâ€“opticalâ€“cycle light pulses with passive carrierâ€“envelope phase stabilization. Laser and Photonics Reviews, 2011, 5, 323-351.	4.4	121
59	Integration of femtosecond laser written optical waveguides in a lab-on-chip. Lab on A Chip, 2009, 9, 91-96.	3.1	119
60	Sub-two-cycle light pulses at 16 μm from an optical parametric amplifier. Optics Letters, 2008, 33, 741.	1.7	117
61	Ultrafast polariton relaxation dynamics in an organic semiconductor microcavity. Physical Review B, 2011, 83, .	1.1	116
62	Optical properties of waveguides written by a 26 MHz stretched cavity Ti:sapphire femtosecond oscillator. Optics Express, 2005, 13, 612.	1.7	115
63	â€“Extended Pyrene-Fused Double [7]Carbohelicene as a Chiral Polycyclic Aromatic Hydrocarbon. Journal of the American Chemical Society, 2019, 141, 12797-12803.	6.6	113
64	Oxygen-induced quenching of photoexcited states in polythiophene films. Organic Electronics, 2004, 5, 83-89.	1.4	110
65	Surface Properties of Femtosecond Laser Ablated PMMA. ACS Applied Materials & Interfaces, 2010, 2, 2377-2384.	4.0	109
66	1.5 μm single longitudinal mode waveguide laser fabricated by femtosecond laser writing. Optics Express, 2007, 15, 3190.	1.7	107
67	Fabrication of long microchannels with circular cross section using astigmatically shaped femtosecond laser pulses and chemical etching. Applied Physics Letters, 2006, 88, 191107.	1.5	106
68	Femtosecond-irradiation-induced refractive-index changes and channel waveguiding in bulk Ti ³⁺ :Sapphire. Applied Physics Letters, 2004, 85, 1122-1124.	1.5	104
69	Closed form gaussian beam analysis of resonators containing a Kerr medium for femtosecond lasers. Optics Communications, 1993, 101, 365-370.	1.0	103
70	Wavelength-Dependent Ultrafast Charge Carrier Separation in the WO ₃ /BiVO ₄ Coupled System. ACS Energy Letters, 2017, 2, 1362-1367.	8.8	103
71	Two-Photon Laser Polymerization: From Fundamentals to Biomedical Application in Tissue Engineering and Regenerative Medicine. Journal of Applied Biomaterials and Functional Materials, 2012, 10, 56-66.	0.7	102
72	Shape control of microchannels fabricated in fused silica by femtosecond laser irradiation and chemical etching. Optics Express, 2009, 17, 8685.	1.7	98

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73	Interplay between Strong Coupling and Radiative Damping of Excitons and Surface Plasmon Polaritons in Hybrid Nanostructures. ACS Nano, 2014, 8, 1056-1064.	7.3	97
74	UV-Light-Induced Vibrational Coherences: The Key to Understand Kasha Rule Violation in <i>trans</i> -Azobenzene. Journal of Physical Chemistry Letters, 2018, 9, 1534-1541.	2.1	96
75	Resonators for Kerr-lens mode-locked femtosecond Ti:sapphire lasers. Optics Letters, 1994, 19, 807.	1.7	94
76	Femtosecond laser writing of waveguides in periodically poled lithium niobate preserving the nonlinear coefficient. Applied Physics Letters, 2007, 90, 241107.	1.5	94
77	Snapshots of the retarded interaction of charge carriers with ultrafast fluctuations in cuprates. Nature Physics, 2015, 11, 421-426.	6.5	92
78	Optical waveguide writing with a diode-pumped femtosecond oscillator. Optics Letters, 2004, 29, 1900.	1.7	91
79	Passive mode locking by carbon nanotubes in a femtosecond laser written waveguide laser. Applied Physics Letters, 2006, 89, 231115.	1.5	91
80	Macrospin dynamics in antiferromagnets triggered by sub-20 femtosecond injection of nanomagnons. Nature Communications, 2016, 7, 10645.	5.8	91
81	Waveguide lasers in the C-band fabricated by laser inscription with a compact femtosecond oscillator. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 277-285.	1.9	90
82	Two-dimensional electronic spectroscopy with birefringent wedges. Review of Scientific Instruments, 2014, 85, 123107.	0.6	90
83	Ultrafast Intrachain Photoexcitation of Polymeric Semiconductors. Physical Review Letters, 2005, 94, 117402.	2.9	89
84	Ultrafast valley relaxation dynamics in monolayer MoS_2 by nonequilibrium optical techniques. Physical Review B, 2015, 92, .	1.1	89
85	Imaging of Bloch oscillations in erbium-doped curved waveguide arrays. Optics Letters, 2006, 31, 1651.	1.7	88
86	Fiber-format stimulated-Raman-scattering microscopy from a single laser oscillator. Optics Letters, 2010, 35, 226.	1.7	88
87	Dependence of the two-photon photoluminescence yield of gold nanostructures on the laser pulse duration. Physical Review B, 2009, 80, .	1.1	87
88	Exciton–exciton annihilation and biexciton stimulated emission in graphene nanoribbons. Nature Communications, 2016, 7, 11010.	5.8	85
89	Broadband Coherent Raman Scattering Microscopy. Laser and Photonics Reviews, 2018, 12, 1800020.	4.4	85
90	C-band waveguide amplifier produced by femtosecond laser writing. Optics Express, 2005, 13, 5976.	1.7	83

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91	Er:Yb-doped oxyfluoride silicate glass waveguide amplifier fabricated using femtosecond laser inscription. <i>Applied Physics Letters</i> , 2007, 90, 131102.	1.5	82
92	Intravalley Spin-Flip Relaxation Dynamics in Single-Layer WS ₂ . <i>Nano Letters</i> , 2018, 18, 6882-6891.	4.5	82
93	Dynamics of Four-Photon Photoluminescence in Gold Nanoantennas. <i>Nano Letters</i> , 2012, 12, 2941-2947.	4.5	81
94	Excited-state dynamics of poly(para-phenylene)-type ladder polymers at high photoexcitation density. <i>Physical Review B</i> , 1998, 57, 12806-12811.	1.1	79
95	Two-optical-cycle pulses in the mid-infrared from an optical parametric amplifier. <i>Optics Letters</i> , 2008, 33, 2901.	1.7	79
96	Real-time optical mapping of the dynamics of nonthermal electrons in thin gold films. <i>Physical Review B</i> , 2012, 86, .	1.1	78
97	Quantum confinement and ultrafast dephasing dynamics in InP nanocrystals. <i>Physical Review B</i> , 1997, 55, 7059-7067.	1.1	77
98	Temporal optimization of ultrabroadband high-energy OPCPA. <i>Optics Express</i> , 2009, 17, 5540.	1.7	77
99	Size-dependent dynamics of coherent acoustic phonons in nanocrystal quantum dots. <i>Physical Review B</i> , 1999, 60, 1928-1932.	1.1	76
100	Time-resolved methods in biophysics. 4. Broadband pump-probe spectroscopy system with sub-20 fs temporal resolution for the study of energy transfer processes in photosynthesis. <i>Photochemical and Photobiological Sciences</i> , 2007, 6, 135-144.	1.6	76
101	Effective temporal resolution in pump-probe spectroscopy with strongly chirped pulses. <i>Physical Review A</i> , 2010, 82, .	1.0	76
102	Charge Photogeneration in Few-Layer MoS ₂ . <i>Advanced Functional Materials</i> , 2015, 25, 3351-3358.	7.8	76
103	Dual Fluorescence through Kasha's Rule Breaking: An Unconventional Photomechanism for Intracellular Probe Design. <i>Journal of Physical Chemistry B</i> , 2015, 119, 6144-6154.	1.2	76
104	Robust singlet fission in pentacene thin films with tuned charge transfer interactions. <i>Nature Communications</i> , 2018, 9, 954.	5.8	76
105	Self-starting mode locking of a cw Nd:YAG laser using cascaded second-order nonlinearities. <i>Optics Letters</i> , 1995, 20, 746.	1.7	75
106	Conjugation Length Dependence of Internal Conversion in Carotenoids: Role of the Intermediate State. <i>Physical Review Letters</i> , 2004, 93, 163002.	2.9	75
107	Supercontinuum generation in an ultrafast laser inscribed chalcogenide glass waveguide. <i>Optics Express</i> , 2007, 15, 15776.	1.7	75
108	High-energy, few-optical-cycle pulses at 1.5 μm with passive carrier-envelope phase stabilization. <i>Optics Express</i> , 2006, 14, 10109.	1.7	74

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109	Optical parametric amplification by monolayer transition metal dichalcogenides. Nature Photonics, 2021, 15, 6-10.	15.6	74
110	Modulating Physical Properties of Isolated and Self-Assembled Nanocrystals through Change in Nanocrystallinity. Nano Letters, 2013, 13, 504-508.	4.5	73
111	Regulation of photosystem I light harvesting by zeaxanthin. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2431-8.	3.3	73
112	Sub-cycle millijoule-level parametric waveform synthesizer for attosecond science. Nature Photonics, 2020, 14, 629-635.	15.6	73
113	Triplet-Exciton Generation Mechanism in a New Soluble (Red-Phase) Polydiacetylene. Physical Review Letters, 2001, 87, .	2.9	71
114	High-Brightness High-Order Harmonic Generation by Truncated Bessel Beams in the Sub-10-fs Regime. Physical Review Letters, 2002, 88, 033902.	2.9	71
115	Near-field second-harmonic generation in single gold nanoparticles. Applied Physics Letters, 2008, 92, 093119.	1.5	70
116	Femtosecond laser written optical waveguide amplifier in phospho-tellurite glass. Optics Express, 2010, 18, 20289.	1.7	70
117	Nonlinear Anisotropic Dielectric Metasurfaces for Ultrafast Nanophotonics. ACS Photonics, 2017, 4, 2129-2136.	3.2	70
118	Raman spectroscopy of graphene under ultrafast laser excitation. Nature Communications, 2018, 9, 308.	5.8	70
119	Charge Photogeneration in Donor-acceptor Conjugated Materials: Influence of Excess Excitation Energy and Chain Length. Journal of the American Chemical Society, 2013, 135, 4282-4290.	6.6	69
120	Superatom State-Resolved Dynamics of the Au ₂₅ (SC ₈ H ₉) ₁₈ ⁺ Cluster from Two-Dimensional Electronic Spectroscopy. Journal of the American Chemical Society, 2016, 138, 1788-1791.	6.6	69
121	Coherent synthesis of ultra-broadband optical parametric amplifiers. Optics Letters, 2012, 37, 1880.	1.7	68
122	Time-Resolved Charge Carrier Generation from Higher Lying Excited States in Conjugated Polymers. Physical Review Letters, 2002, 89, 117402.	2.9	67
123	Fiber-format CARS spectroscopy by spectral compression of femtosecond pulses from a single laser oscillator. Optics Letters, 2009, 34, 3262.	1.7	67
124	Ultrafast Förster transfer dynamics in tetraphenylporphyrin doped poly(9,9-dioctylfluorene). Chemical Physics Letters, 2001, 335, 27-33.	1.2	66
125	Understanding Fundamental Processes in Poly(9,9-Dioctylfluorene) Light-Emitting Diodes via Ultrafast Electric-Field-Assisted Pump-Probe Spectroscopy. Physical Review Letters, 2003, 90, 247402.	2.9	66
126	Broadband stimulated Raman scattering with Fourier-transform detection. Optics Express, 2015, 23, 25235.	1.7	65

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127	Generation of broadband mid-infrared pulses from an optical parametric amplifier. <i>Optics Express</i> , 2007, 15, 15035.	1.7	63
128	Observation of the Sub-100 Femtosecond Population of a Dark State in a Thiobase Mediating Intersystem Crossing. <i>Journal of the American Chemical Society</i> , 2018, 140, 16087-16093.	6.6	63
129	Full temporal resolution of the two-step photoinduced energyâ€“electron transfer in a fullereneâ€“oligothiopheneâ€“fullerene triad using sub-10 fs pumpâ€“probe spectroscopy. <i>Chemical Physics Letters</i> , 2001, 345, 33-38.	1.2	62
130	Optical gain in Er-Yb doped waveguides fabricated by femtosecond laser pulses. <i>Electronics Letters</i> , 2002, 38, 964.	0.5	62
131	Photophysics and photovoltaic device properties of phthalocyanineâ€“fullerene dyad:conjugated polymer mixtures. <i>Solar Energy Materials and Solar Cells</i> , 2004, 83, 201-209.	3.0	62
132	Transient Optical Response of a Single Gold Nanoantenna: The Role of Plasmon Detuning. <i>ACS Photonics</i> , 2015, 2, 521-529.	3.2	62
133	Narrow-bandwidth picosecond pulses by spectral compression of femtosecond pulses in second-order nonlinear crystals. <i>Optics Express</i> , 2007, 15, 8884.	1.7	61
134	Toward Waveform Nonlinear Optics Using Multimillijoule Sub-Cycle Waveform Synthesizers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2015, 21, 1-12.	1.9	61
135	Exciton and charge carrier dynamics in few-layer WS ₂ . <i>Nanoscale</i> , 2016, 8, 5428-5434.	2.8	61
136	Superabsorption in an organic microcavity: Toward a quantum battery. <i>Science Advances</i> , 2022, 8, eabk3160.	4.7	61
137	Early events of energy relaxation in all-trans- β -carotene following sub-10 fs optical-pulse excitation. <i>Physical Review B</i> , 2001, 63, .	1.1	60
138	Mechanical Vibrations of Atomically Defined Metal Clusters: From Nano- to Molecular-Size Oscillators. <i>Nano Letters</i> , 2018, 18, 6842-6849.	4.5	60
139	Microjoule-level, tunable sub-10â€“fs UV pulses by broadband sum-frequency generation. <i>Optics Letters</i> , 2014, 39, 3849.	1.7	59
140	All-optical polarization and amplitude modulation of second-harmonic generation in atomically thin semiconductors. <i>Nature Photonics</i> , 2021, 15, 837-842.	15.6	59
141	Astigmatism in Gaussian-beam self-focusing and in resonators for Kerr-lens mode locking. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1995, 12, 476.	0.9	58
142	Witnessing the formation and relaxation of dressed quasi-particles in a strongly correlated electron system. <i>Nature Communications</i> , 2014, 5, 5112.	5.8	58
143	Real-Time Vibronic Coupling Dynamics in a Prototypical Conjugated Oligomer. <i>Physical Review Letters</i> , 1999, 83, 231-234.	2.9	57
144	The ultrafast onset of exciton formation in 2D semiconductors. <i>Nature Communications</i> , 2020, 11, 5277.	5.8	57

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145	Quasi-continuous wave laser operation of Cr ⁴⁺ -doped Y ₂ SiO ₅ at room temperature. Optics Communications, 1993, 101, 195-198.	1.0	56
146	Mirror-dispersion-controlled sub-10-fs optical parametric amplifier in the visible. Optics Letters, 1999, 24, 1529.	1.7	56
147	Coherent Dynamics of Photoexcited Green Fluorescent Proteins. Physical Review Letters, 2001, 86, 3439-3442.	2.9	56
148	Femtosecond laser microstructuring for polymeric lab-on-a-chips. Journal of Biophotonics, 2012, 5, 687-702.	1.1	56
149	Intracavity frequency doubling of a cw high-power TEM ₀₀ Nd:YLF laser. Optics Letters, 1993, 18, 2111.	1.7	55
150	Time Domain Investigation of the Intrachain Vibrational Dynamics of a Prototypical Light-Emitting Conjugated Polymer. Physical Review Letters, 2003, 90, 047402.	2.9	54
151	High-accuracy fast Hankel transform for optical beam propagation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1992, 9, 2031.	0.8	53
152	Two-step mechanism for the photoinduced intramolecular electron transfer in oligo(p-phenylene) Tj ETQq0 0 0 rgBT ₁ /Overlock 10 Tf 50 4	1.1	53
153	Ultrabroadband self-phase-stabilized pulses by difference-frequency generation. Optics Letters, 2004, 29, 2668.	1.7	53
154	Femtosecond laser inscription of optical waveguides in Bismuth ion doped glass. Optics Express, 2006, 14, 10452.	1.7	53
155	Lasing in femtosecond laser written optical waveguides. Applied Physics A: Materials Science and Processing, 2008, 93, 17-26.	1.1	53
156	Tracking energy transfer between light harvesting complex 2 and 1 in photosynthetic membranes grown under high and low illumination. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1473-1478.	3.3	53
157	Nonlinear Optical Microscopy: From Fundamentals to Applications in Live Bioimaging. Frontiers in Bioengineering and Biotechnology, 2020, 8, 585363.	2.0	53
158	Spectral Features and Modeling of High-Order Harmonics Generated by Sub-10-fs Pulses. Physical Review Letters, 2000, 85, 2494-2497.	2.9	51
159	Ultrafast Excitation Energy Transfer in Small Semiconducting Carbon Nanotube Aggregates. ACS Nano, 2010, 4, 4265-4273.	7.3	51
160	Acoustic dynamics of network-forming glasses at mesoscopic wavelengths. Nature Communications, 2013, 4, 1793.	5.8	51
161	Optical Stark Effects in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Aggregate "Metal Hybrid Nanostructures Exhibiting a Strong Exciton" Surface-Plasmon-Polariton Interaction. Physical Review Letters, 2015, 114, 036802.	2.9	51
162	Stimulated Raman gas sensing by backward UV lasing from a femtosecond filament. Optics Letters, 2015, 40, 2469.	1.7	51

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163	Scanning Fourier transform spectrometer in the visible range based on birefringent wedges. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, 1415.	0.8	51
164	Removing non-resonant background from CARS spectra via deep learning. APL Photonics, 2020, 5, 061305.	3.0	51
165	The very early events following photoexcitation of carotenoids. Archives of Biochemistry and Biophysics, 2004, 430, 61-69.	1.4	50
166	Ultrafast optical excitations of metallic nanostructures: from light confinement to a novel electron source. New Journal of Physics, 2007, 9, 397-397.	1.2	50
167	Tracking attosecond electronic coherences using phase-manipulated extreme ultraviolet pulses. Nature Communications, 2020, 11, 883.	5.8	50
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