

Shian Zhang

List of Publications by Year in descending order

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papers

1,462
citations

331670

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all docs

94
docs citations

94
times ranked

1224
citing authors

#	ARTICLE	IF	CITATIONS
1	A Solution-Processed Ultrafast Optical Switch Based on a Nanostructured Epsilon-Near-Zero Medium. <i>Advanced Materials</i> , 2017, 29, 1700754.	21.0	109
2	Universal Near-Infrared and Mid-Infrared Optical Modulation for Ultrafast Pulse Generation Enabled by Colloidal Plasmonic Semiconductor Nanocrystals. <i>ACS Nano</i> , 2016, 10, 9463-9469.	14.6	98
3	Quantitative Estimation of Exciton Binding Energy of Polythiophene-Derived Polymers Using Polarizable Continuum Model Tuned Range-Separated Density Functional. <i>Journal of Physical Chemistry C</i> , 2016, 120, 8048-8055.	3.1	56
4	Single-shot compressed ultrafast photography: a review. <i>Advanced Photonics</i> , 2020, 2, 1.	11.8	47
5	Controlling field-free molecular orientation with combined single- and dual-color laser pulses. <i>Physical Review A</i> , 2011, 83, .	2.5	44
6	Ultrafast dynamics of single-pulse femtosecond laser-induced periodic ripples on the surface of a gold film. <i>Physical Review B</i> , 2018, 98, .	3.2	38
7	Single-Shot Real-Time Ultrafast Imaging of Femtosecond Laser Fabrication. <i>ACS Photonics</i> , 2021, 8, 738-744.	6.6	37
8	Field-free molecular orientation by a multicolor laser field. <i>Physical Review A</i> , 2011, 83, .	2.5	35
9	Fine tunable red-green upconversion luminescence from glass ceramic containing 5%Er ³⁺ :NaYF ₄ nanocrystals under excitation of two near infrared femtosecond lasers. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	35
10	Depleted upconversion luminescence in NaYF ₄ :Yb ³⁺ ,Tm ³⁺ nanoparticles via simultaneous two-wavelength excitation. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 17756-17764.	2.8	35
11	Field-free molecular orientation enhanced by two dual-color laser subpulses. <i>Journal of Chemical Physics</i> , 2011, 135, 034301.	3.0	30
12	Theoretical study of excited states of DNA base dimers and tetramers using optimally tuned range-separated density functional theory. <i>Journal of Computational Chemistry</i> , 2016, 37, 684-693.	3.3	30
13	Optimizing codes for compressed ultrafast photography by the genetic algorithm. <i>Optica</i> , 2018, 5, 147.	9.3	30
14	Field-free molecular alignment by shaping femtosecond laser pulse with cubic phase modulation. <i>Physical Review A</i> , 2011, 84, .	2.5	29
15	Hyperspectrally Compressed Ultrafast Photography. <i>Physical Review Letters</i> , 2020, 124, 023902.	7.8	28
16	Single-shot real-time sub-nanosecond electron imaging aided by compressed sensing: Analytical modeling and simulation. <i>Micron</i> , 2019, 117, 47-54.	2.2	27
17	Improving the image reconstruction quality of compressed ultrafast photography via an augmented Lagrangian algorithm. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 035703.	2.2	26
18	Cu-Sn-S plasmonic semiconductor nanocrystals for ultrafast photonics. <i>Nanoscale</i> , 2016, 8, 18277-18281.	5.6	24

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19	Compressed ultrafast photography by multi-encoding imaging. <i>Laser Physics Letters</i> , 2018, 15, 116202.	1.4	23
20	Mechanisms of the blue emission of NaYF ₄ :Tm ³⁺ nanoparticles excited by an 800 nm continuous wave laser. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 25905-25914.	2.8	22
21	Field-free molecular alignment control by phase-shaped femtosecond laser pulse. <i>Journal of Chemical Physics</i> , 2011, 135, 224308.	3.0	21
22	The influences of surface plasmons and thermal effects on femtosecond laser-induced subwavelength periodic ripples on Au film by pump-probe imaging. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	21
23	High-fidelity image reconstruction for compressed ultrafast photography via an augmented-Lagrangian and deep-learning hybrid algorithm. <i>Photonics Research</i> , 2021, 9, B30.	7.0	21
24	Improving upconversion luminescence efficiency in Er ³⁺ -doped NaYF ₄ nanocrystals by two-color laser field. <i>Journal of Materials Science</i> , 2016, 51, 5460-5468.	3.7	20
25	Modulation of terahertz-spectrum generation from an air plasma by tunable three-color laser pulses. <i>Physical Review A</i> , 2017, 96, .	2.5	20
26	Effect of two-color laser pulse duration on intense terahertz generation at different laser intensities. <i>Physical Review A</i> , 2015, 92, .	2.5	19
27	Laser polarization and phase control of up-conversion fluorescence in rare-earth ions. <i>Scientific Reports</i> , 2015, 4, 7295.	3.3	19
28	Enhancing up-conversion luminescence of Er ³⁺ /Yb ³⁺ -codoped glass by two-color laser field excitation. <i>RSC Advances</i> , 2016, 6, 3440-3445.	3.6	19
29	Selective excitation of femtosecond coherent anti-Stokes Raman scattering in the mixture by phase-modulated pump and probe pulses. <i>Journal of Chemical Physics</i> , 2010, 132, 044505.	3.0	18
30	Controlling multiphoton excited energy transfer from Tm ³⁺ to Yb ³⁺ ions by a phase-shaped femtosecond laser field. <i>Photonics Research</i> , 2019, 7, 486.	7.0	18
31	Manipulating field-free molecular alignment by V -shaped femtosecond laser pulses. <i>Physical Review A</i> , 2014, 89, .	2.5	17
32	Single and two-photon fluorescence control of Er ³⁺ ions by phase-shaped femtosecond laser pulse. <i>Applied Physics Letters</i> , 2014, 104, 014101.	3.3	16
33	Single-Shot Receive-Only Ultrafast Electro-Optical Deflection Imaging. <i>Physical Review Applied</i> , 2020, 13, .	3.8	16
34	Coherent phase control of resonance-mediated two-photon absorption in rare-earth ions. <i>Applied Physics Letters</i> , 2013, 103, 194104.	3.3	15
35	Realizing up-conversion fluorescence tuning in lanthanide-doped nanocrystals by femtosecond pulse shaping method. <i>Scientific Reports</i> , 2015, 5, 13337.	3.3	15
36	Coherent control of two-photon transitions in a two-level system with broadband absorption. <i>Physical Review A</i> , 2009, 80, .	2.5	14

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37	Mechanism of polarization-induced single-photon fluorescence enhancement. <i>Journal of Chemical Physics</i> , 2010, 133, 214504.	3.0	14
38	Coherent enhancement in two-photon fluorescence in molecular system induced by phase-jump modulated pulse. <i>Journal of Chemical Physics</i> , 2010, 132, 094503.	3.0	14
39	Single-shot spatiotemporal intensity measurement of picosecond laser pulses with compressed ultrafast photography. <i>Optics and Lasers in Engineering</i> , 2019, 116, 89-93.	3.8	14
40	Single-shot compressed ultrafast photography based on U-net network. <i>Optics Express</i> , 2020, 28, 39299.	3.4	14
41	Theoretical study on narrow Fano resonance of nanocrescent for the label-free detection of single molecules and single nanoparticles. <i>RSC Advances</i> , 2018, 8, 3381-3391.	3.6	13
42	Ultrafast dynamics of subwavelength periodic ripples induced by single femtosecond pulse: from noble to common metals. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 285102.	2.8	13
43	Multichannel-coupled compressed ultrafast photography. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 085701.	2.2	12
44	Achieving high-resolution photoelectron spectroscopy from a broadband femtosecond laser pulse. <i>Physical Review A</i> , 2012, 86, .	2.5	11
45	Control of resonance enhanced multi-photon ionization photoelectron spectroscopy by phase-shaped femtosecond laser pulse. <i>Journal of Chemical Physics</i> , 2012, 137, 174301.	3.0	11
46	Femtosecond Laser-Induced Upconversion Luminescence in Rare-Earth Ions by Nonresonant Multiphoton Absorption. <i>Journal of Physical Chemistry A</i> , 2016, 120, 5522-5526.	2.5	11
47	Channel-resolved multiorbital double ionization of molecular Cl ₂ in an intense femtosecond laser field. <i>Physical Review A</i> , 2018, 98, .	2.5	11
48	Total variation and block-matching 3D filtering-based image reconstruction for single-shot compressed ultrafast photography. <i>Optics and Lasers in Engineering</i> , 2021, 139, 106475.	3.8	11
49	Coherent phase control of (2+1) resonantly enhanced multiphoton ionization photoelectron spectroscopy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 135401.	1.5	10
50	Field-free alignment in linear molecules by a square laser pulse. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 055403.	1.5	10
51	Selective Excitation on Tip-Enhanced Raman Spectroscopy by Pulse Shaping Femtosecond Laser. <i>Plasmonics</i> , 2019, 14, 523-531.	3.4	10
52	Ultrafast dynamics of the thin surface plasma layer and the periodic ripples formation on GaP crystal irradiated by a single femtosecond laser pulse. <i>Optics Express</i> , 2019, 27, 37859.	3.4	10
53	Precise control of state-selective excitation in stimulated Raman scattering. <i>Physical Review A</i> , 2010, 82, .	2.5	9
54	Compressed Ultrafast Electron Diffraction Imaging Through Electronic Encoding. <i>Physical Review Applied</i> , 2018, 10, .	3.8	9

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55	Single-photon fluorescence enhancement in IR144 by phase-modulated femtosecond pulses. <i>Chemical Physics Letters</i> , 2011, 503, 176-179.	2.6	8
56	Coherent control of molecular rotational state populations by periodic phase-step modulation. <i>Physical Review A</i> , 2011, 84, .	2.5	8
57	Selective excitation of resonance-enhanced multiphoton-ionization photoelectron spectroscopy via a cubic phase modulation. <i>Physical Review A</i> , 2012, 86, .	2.5	8
58	Realizing Ultrafast Electron Pulse Self-Compression by Femtosecond Pulse Shaping Technique. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3867-3872.	4.6	8
59	Effect of two-color laser pulse intensity ratio on intense terahertz generation. <i>RSC Advances</i> , 2015, 5, 1485-1490.	3.6	8
60	Valence state manipulation of Sm ³⁺ ions via a phase-shaped femtosecond laser field. <i>Photonics Research</i> , 2018, 6, 144.	7.0	8
61	Coherent quantum control of two-photon absorption and polymerization by shaped ultrashort laser pulses. <i>Laser Physics Letters</i> , 2013, 10, 085304.	1.4	7
62	Photodissociation of Br ₂ molecules in an intense femtosecond laser field. <i>Physical Review A</i> , 2014, 90, .	2.5	7
63	Coulomb explosion and dissociative ionization of 1,2-dibromoethane under an intense femtosecond laser field. <i>RSC Advances</i> , 2014, 4, 45300-45305.	3.6	7
64	Enhancing molecular orientation by combining electrostatic and four-color laser fields. <i>Physical Review A</i> , 2014, 90, .	2.5	7
65	Great enhancement of near band-edge emission of ZnSe two-dimensional complex nanostructures fabricated by the interference of three femtosecond laser beams. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	6
66	100-Trillion-Frame-per-Second Single-Shot Compressed Ultrafast Photography via Molecular Alignment. <i>Physical Review Applied</i> , 2021, 15, .	3.8	6
67	Manipulation of cross-linked micro/nanopatterns on ZnO by adjusting the femtosecond-laser polarizations of four-beam interference. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 114, 1333-1338.	2.3	5
68	Polarization control of intermediate state absorption in resonance-mediated multi-photon absorption process. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 135402.	1.5	5
69	Selective excitation and control of the molecular orientation by a phase shaped laser pulse. <i>RSC Advances</i> , 2016, 6, 100295-100299.	3.6	5
70	Single-shot real-time imaging of ultrafast light springs. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	5.1	5
71	High-speed super-resolution imaging with compressive imaging-based structured illumination microscopy. <i>Optics Express</i> , 2022, 30, 14287.	3.4	5
72	Manipulation of molecular rotational dynamics with multiple laser pulses. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11994.	2.8	4

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73	Infrared femtosecond laser-induced great enhancement of ultraviolet luminescence of ZnO two-dimensional nanostructures. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 117, 1923-1932.	2.3	4
74	Fano Resonance of Nanocrescent for the Detection of Single Molecules and Single Nanoparticles. <i>Plasmonics</i> , 2018, 13, 1121-1127.	3.4	4
75	Compressed 3D Image Information and Communication Security. <i>Advanced Quantum Technologies</i> , 2018, 1, 1800034.	3.9	4
76	NON-RESONANT TWO-PHOTON ABSORPTION CONTROL BY TWO TIME-DELAYED LASER PULSES. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2013, 22, 1350008.	1.8	3
77	Coherent quantum control of green emission in Er ³⁺ -doped glass by π -phase-shaped ultrashort laser pulses. <i>Physical Review A</i> , 2014, 89, .	2.5	3
78	Manipulation of terahertz pulse generation in ZnTe crystal by shaping femtosecond laser pulses with a square phase modulation. <i>Optics Communications</i> , 2014, 310, 90-93.	2.1	3
79	Dissociative ionization and Coulomb explosion of ethyl bromide under a near-infrared intense femtosecond laser field. <i>RSC Advances</i> , 2015, 5, 37078-37084.	3.6	3
80	Femtosecond laser induced cross relaxation in Er ³⁺ doped NaYF ₄ glass ceramic. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 505104.	2.8	3
81	Periodic subwavelength ripples on a Si surface induced by a single temporally shaped femtosecond laser pulse: enhanced periodic energy deposition and reduced residual thermal effect. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 385106.	2.8	3
82	High-resolution resonance-enhanced multiphoton-ionization photoelectron spectroscopy of Rydberg states via spectral phase step shaping. <i>RSC Advances</i> , 2013, 3, 12185.	3.6	2
83	Resonance-enhanced multiphoton-ionization photoelectron spectroscopy by a rectangular amplitude modulation. <i>Physical Review A</i> , 2013, 87, .	2.5	2
84	Quantum control of femtosecond resonance-enhanced multiphoton-ionization photoelectron spectroscopy. <i>Physical Review A</i> , 2013, 88, .	2.5	2
85	Fabrication of gold micro/nanostructures by femtosecond laser direct writing and chemical etching. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2014, 23, 1450048.	1.8	2
86	Observation of up-conversion luminescence polarization control in Sm ³⁺ -doped glass under an intermediate femtosecond laser field. <i>RSC Advances</i> , 2017, 7, 13444-13450.	3.6	2
87	Selective excitation of one among the three peaks of tip-enhanced Raman spectroscopy by a shaped ultrafast laser pulse. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 461-475.	2.5	2
88	Quantum coherent control of blue, green and red emissions from codoped lanthanide ions of Er ³⁺ /Tm ³⁺ /Yb ³⁺ by two shaped infrared ultrashort laser beams. <i>Laser Physics</i> , 2014, 24, 015402.	1.2	1
89	Effect of laser spectral bandwidth on coherent control of resonance-enhanced multiphoton-ionization photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 2014, 140, 084312.	3.0	1
90	Coherent modulation of two-photon up-conversion from colloidal quantum dots by femtosecond laser. <i>RSC Advances</i> , 2015, 5, 80998-81002.	3.6	1

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91	Selective suppression and excitation of high resolution CARS spectra by tailoring femtosecond laser pulse. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2017, 26, 1750051.	1.8	1
92	Enhancing field-free molecular alignment by a polynomial phase modulation. <i>European Physical Journal D</i> , 2016, 70, 1.	1.3	0
93	Snapshot-to-video autoencoder for compressed ultrahigh-speed imaging. , 2022, , .		0
94	Theoretical Study on the Ultrafast Selective Excitation of Surface-Enhanced Coherent Anti-Stokes Raman Scattering Based on Fano Resonance of Disk-Ring Nanostructures by Shaped Femtosecond Laser Pulses. <i>Photonics</i> , 2022, 9, 338.	2.0	0