

Wing-Ki Liu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10923688/publications.pdf>

Version: 2024-02-01

53
papers

1,220
citations

430874

18
h-index

361022

35
g-index

55
all docs

55
docs citations

55
times ranked

1128
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable Passively Q-switched Erbium-Doped Fiber Laser With Carbon Nanotubes as a Saturable Absorber. IEEE Photonics Technology Letters, 2010, 22, 9-11.	2.5	240
2	Simultaneous measurement for strain and temperature using fiber Bragg gratings and multimode fibers. Applied Optics, 2008, 47, 1668.	2.1	114
3	Nonlinear Dynamics of Chirped Pulse Excitation and Dissociation of Diatomic Molecules. Physical Review Letters, 1995, 75, 1292-1295.	7.8	78
4	Temperature- and phase-independent lateral force sensor based on a core-offset multi-mode fiber interferometer. Optics Express, 2008, 16, 19291.	3.4	74
5	Simultaneous measurement of strain and temperature based on a fiber Bragg grating combined with a high-birefringence fiber loop mirror. Optics Communications, 2008, 281, 4640-4643.	2.1	64
6	Simultaneous Strain and Temperature Measurement With Fiber Bragg Grating and Multimode Fibers Using an Intensity-Based Interrogation Method. IEEE Photonics Technology Letters, 2009, 21, 468-470.	2.5	52
7	Asynchronous multicanonical basin hopping method and its application to cobalt nanoclusters. Journal of Chemical Physics, 2005, 122, 244707.	3.0	48
8	Graphene-Based Q-Switched Erbium-Doped Fiber Laser With Wide Pulse-Repetition-Rate Range. IEEE Photonics Technology Letters, 2012, 24, 309-311.	2.5	44
9	Classical and quantum dynamics of chirped pulse dissociation of diatomic molecules. Physical Review A, 1998, 57, 1992-2001.	2.5	39
10	Multicanonical basin hopping: A new global optimization method for complex systems. Journal of Chemical Physics, 2004, 120, 5536-5542.	3.0	33
11	Tunable graphene Q-switched erbium-doped fiber laser with suppressed self-mode locking effect. Applied Optics, 2012, 51, 2554.	1.8	31
12	Coulomb imaging of the concerted and stepwise break up processes of OCS ions in intense femtosecond laser radiation. Journal of Electron Spectroscopy and Related Phenomena, 2014, 195, 332-336.	1.7	31
13	Quantum and classical mechanical calculations of transport-relaxation cross sections for the HD-He interaction. Molecular Physics, 1989, 66, 565-576.	1.7	28
14	Monte Carlo basin paving: An improved global optimization method. Physical Review E, 2006, 73, 015701.	2.1	26
15	Multiple ionization and complete fragmentation of OCS by impact with highly charged ions Ar^{4+} and Ar^{8+} at 15 keV $q \sim 1$. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 045205.	1.5	25
16	Conformational Study of Met-Enkephalin Based on the ECEPP Force Fields. Biophysical Journal, 2006, 91, 2399-2404.	0.5	22
17	Opposing effects of cationic antimicrobial peptides and divalent cations on bacterial lipopolysaccharides. Physical Review E, 2017, 96, 042405.	2.1	20
18	Rotationally inelastic scattering of $2\hat{1}$ molecules from solid surfaces. Surface Science, 1984, 148, 675-696.	1.9	18

#	ARTICLE	IF	CITATIONS
19	Classical dynamics of ionization, dissociation, and harmonic generation of a hydrogen molecular ion in intense laser fields: A collinear model. <i>Physical Review A</i> , 2000, 61, .	2.5	18
20	Computational study of the Trp-cage miniprotein based on the ECEPP/3 force field. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 66, 436-443.	2.6	18
21	Theoretical Study of Hybrid Guided Modes in a Multilayer Symmetrical Planar Plasmonic Waveguide. <i>Journal of Lightwave Technology</i> , 2015, 33, 3198-3206.	4.6	17
22	Chemisorption on inverse-supported catalysts: H-ZnO/Ni. <i>Theoretica Chimica Acta</i> , 1988, 74, 251-258.	0.8	16
23	N ₂ O ionization and dissociation dynamics in intense femtosecond laser radiation, probed by systematic pulse length variation from 7 to 500 fs. <i>Journal of Chemical Physics</i> , 2013, 138, 204311.	3.0	16
24	Anisotropic intermolecular potentials and transport properties in polyatomic gases. <i>Faraday Discussions of the Chemical Society</i> , 1982, 73, 241.	2.2	15
25	Classical-quantum correspondence in multiphoton dissociation of diatomic molecules by chirped laser pulses. <i>Journal of Chemical Physics</i> , 1999, 111, 216-226.	3.0	14
26	Collisions of NO(X ² II) with a Ag(111) surface: Validity of the energy sudden approximation. <i>Surface Science</i> , 1987, 191, 203-224.	1.9	13
27	Dissociation of diatomic molecules by elliptically polarized chirped pulses. <i>Journal of Chemical Physics</i> , 2000, 112, 1757-1762.	3.0	13
28	Quantum theory of the scattering of helium atoms from adsorbates. <i>Faraday Discussions of the Chemical Society</i> , 1985, 80, 257.	2.2	11
29	Core-offset small-core-diameter dispersion compensation fiber interferometer and its applications in fiber sensors. <i>Applied Optics</i> , 2009, 48, 4577.	2.1	11
30	Theoretical Analysis of Plasmonic Modes in a Symmetric Conductorâ€“Gapâ€“Dielectric Structure for Nanoscale Confinement. <i>IEEE Photonics Journal</i> , 2014, 6, 1-10.	2.0	10
31	Collisional broadening and shifting of Raman lines, and the potential energy surface for H ₂ â€“Ar. <i>Computational and Theoretical Chemistry</i> , 2002, 591, 245-253.	1.5	8
32	Keldysh theory of strong-field ionization. <i>Canadian Journal of Physics</i> , 2010, 88, 227-245.	1.1	8
33	Control of Bond Excitation and Dissociation in HCN Using Laser Pulsesâ€™. <i>Journal of Physical Chemistry A</i> , 2004, 108, 8852-8859.	2.5	7
34	Stochastic excitation and dissociation of adsorbate in a laser field. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 205, 470-484.	2.6	5
35	Quantum mechanics of a free particle from properties of the Dirac delta function. <i>American Journal of Physics</i> , 2011, 79, 392-394.	0.7	5
36	Hydrogenâ€“rare Gas Interactions and Raman Line Shapes. <i>Journal of the Chinese Chemical Society</i> , 2001, 48, 439-448.	1.4	4

#	ARTICLE	IF	CITATIONS
37	Nonspreading wave packets of diatomic molecules: Generation and control. Physical Review A, 2001, 63, .	2.5	4
38	Laser excitation and desorption of adatoms. Chemical Physics Letters, 1988, 153, 176-180.	2.6	3
39	Classical calculation of high-order harmonic generation of atomic and molecular gases in intense laser fields. Physical Review A, 2001, 64, .	2.5	3
40	FEMTOSECOND LASER-INDUCED COULOMB EXPLOSION IMAGING. Advances in Multi-photon Processes and Spectroscopy, 2016, , 97-153.	0.6	3
41	A Comprehensive Theoretical Study of the Guided Modes in a Five-Layer Hybrid-Metal/Dielectric/Metal Waveguide. Journal of Lightwave Technology, 2017, 35, 2243-2251.	4.6	3
42	Close-coupled calculations of atom-adsorbate total cross sections. Surface Science, 1990, 231, 427-432.	1.9	2
43	Comparison of predicted native structures of Met-enkephalin based on various accessible surface area solvent models. Journal of Computational Chemistry, 2009, 30, 1051-1058.	3.3	2
44	Classical S-matrix theory of viscomagnetic production cross section. Chemical Physics Letters, 1983, 96, 175-180.	2.6	1
45	Vibrational and Rotational Excitations of Diatomic Molecules by Chirped Laser Pulses. Journal of the Chinese Chemical Society, 2002, 49, 757-767.	1.4	1
46	Simultaneous Temperature and Strain Measurement Using Fiber Bragg Gratings and Multi-Mode Fibers. , 2008, , .		1
47	Higher order expansion of Keldysh integral for hydrogen atom and molecular ion. Journal of Modern Optics, 2011, 58, 1141-1148.	1.3	1
48	Chemical Bonding in Hydrogen Molecular Ion and Competition between Laser-induced Ionization and Dissociation. Journal of the Chinese Chemical Society, 2001, 48, 491-497.	1.4	0
49	Low-cost lateral force sensor based on a core-offset multimode fiber interferometer with intensity based interrogation technique. , 2009, , .		0
50	Simultaneous Strain/Temperature Measurement with Fiber Bragg Grating and High-Birefringence Fiber Loop Mirrors Using an Intensity-Based Interrogation Method. , 2010, , .		0
51	Influence of ultrashort pulses on resonantly driven systems. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 245601.	1.5	0
52	Analytical study for hybrid guided modes in a 7-layer plasmonic waveguide. , 2015, , .		0
53	Generalized Cross-Sections for Senftleben-Beenakker Effects and Laser Studies of Molecules. , 1992, , 217-236.		0