

Wing-Ki Liu

List of Publications by Year in descending order

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53
papers

1,220
citations

430874

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docs citations

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times ranked

1128
citing authors

#	ARTICLE	IF	CITATIONS
1	A Comprehensive Theoretical Study of the Guided Modes in a Five-Layer Hybrid-Metal/Dielectric/Metal Waveguide. <i>Journal of Lightwave Technology</i> , 2017, 35, 2243-2251.	4.6	3
2	Opposing effects of cationic antimicrobial peptides and divalent cations on bacterial lipopolysaccharides. <i>Physical Review E</i> , 2017, 96, 042405.	2.1	20
3	FEMTOSECOND LASER-INDUCED COULOMB EXPLOSION IMAGING. <i>Advances in Multi-photon Processes and Spectroscopy</i> , 2016, , 97-153.	0.6	3
4	Analytical study for hybrid guided modes in a 7-layer plasmonic waveguide. , 2015, , .		0
5	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
6	Theoretical Analysis of Plasmonic Modes in a Symmetric Conductorâ€œGapâ€œDielectric Structure for Nanoscale Confinement. <i>IEEE Photonics Journal</i> , 2014, 6, 1-10.	2.0	10
7	Coulomb imaging of the concerted and stepwise break up processes of OCS ions in intense femtosecond laser radiation. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2014, 195, 332-336.	1.7	31
8	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
9	Multiple ionization and complete fragmentation of OCS by impact with highly charged ions Ar ⁴⁺ and Ar ⁸⁺ at 15 keV $q \sim 1$. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 045205.	1.5	25
10	Graphene-Based Q-Switched Erbium-Doped Fiber Laser With Wide Pulse-Repetition-Rate Range. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 309-311.	2.5	44
11	Tunable graphene Q-switched erbium-doped fiber laser with suppressed self-mode locking effect. <i>Applied Optics</i> , 2012, 51, 2554.	1.8	31
12	Influence of ultrashort pulses on resonantly driven systems. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 245601.	1.5	0
13	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
14	Higher order expansion of Keldysh integral for hydrogen atom and molecular ion. <i>Journal of Modern Optics</i> , 2011, 58, 1141-1148.	1.3	1
15	Keldysh theory of strong-field ionization. <i>Canadian Journal of Physics</i> , 2010, 88, 227-245.	1.1	8
16	Simultaneous Strain/Temperature Measurement with Fiber Bragg Grating and High-Birefringence Fiber Loop Mirrors Using an Intensity-Based Interrogation Method. , 2010, , .		0
17	Tunable Passively Q-switched Erbium-Doped Fiber Laser With Carbon Nanotubes as a Saturable Absorber. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 9-11.	2.5	240
18	Comparison of predicted native structures of Met-enkephalin based on various accessible surface area solvent models. <i>Journal of Computational Chemistry</i> , 2009, 30, 1051-1058.	3.3	2

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19	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
20	Simultaneous Strain and Temperature Measurement With Fiber Bragg Grating and Multimode Fibers Using an Intensity-Based Interrogation Method. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 468-470.	2.5	52
21	Low-cost lateral force sensor based on a core-offset multimode fiber interferometer with intensity based interrogation technique. , 2009, , .		0
22	Simultaneous measurement of strain and temperature based on a fiber Bragg grating combined with a high-birefringence fiber loop mirror. <i>Optics Communications</i> , 2008, 281, 4640-4643.	2.1	64
23	Simultaneous measurement for strain and temperature using fiber Bragg gratings and multimode fibers. <i>Applied Optics</i> , 2008, 47, 1668.	2.1	114
24	Temperature- and phase-independent lateral force sensor based on a core-offset multi-mode fiber interferometer. <i>Optics Express</i> , 2008, 16, 19291.	3.4	74
25	Simultaneous Temperature and Strain Measurement Using Fiber Bragg Gratings and Multi-Mode Fibers. , 2008, , .		1
26	Conformational Study of Met-Enkephalin Based on the ECEPP Force Fields. <i>Biophysical Journal</i> , 2006, 91, 2399-2404.	0.5	22
27	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
28	Monte Carlo basin paving: An improved global optimization method. <i>Physical Review E</i> , 2006, 73, 015701.	2.1	26
29	Asynchronous multicanonical basin hopping method and its application to cobalt nanoclusters. <i>Journal of Chemical Physics</i> , 2005, 122, 244707.	3.0	48
30	Multicanonical basin hopping: A new global optimization method for complex systems. <i>Journal of Chemical Physics</i> , 2004, 120, 5536-5542.	3.0	33
31	Control of Bond Excitation and Dissociation in HCN Using Laser Pulses. <i>Journal of Physical Chemistry A</i> , 2004, 108, 8852-8859.	2.5	7
32	Vibrational and Rotational Excitations of Diatomic Molecules by Chirped Laser Pulses. <i>Journal of the Chinese Chemical Society</i> , 2002, 49, 757-767.	1.4	1
33	Collisional broadening and shifting of Raman lines, and the potential energy surface for H ₂ -Ar. <i>Computational and Theoretical Chemistry</i> , 2002, 591, 245-253.	1.5	8
34	Chemical Bonding in Hydrogen Molecular Ion and Competition between Laser-Induced Ionization and Dissociation. <i>Journal of the Chinese Chemical Society</i> , 2001, 48, 491-497.	1.4	0
35	Hydrogen-Rare Gas Interactions and Raman Line Shapes. <i>Journal of the Chinese Chemical Society</i> , 2001, 48, 439-448.	1.4	4
36	Nonspreading wave packets of diatomic molecules: Generation and control. <i>Physical Review A</i> , 2001, 63, .	2.5	4

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37	Classical calculation of high-order harmonic generation of atomic and molecular gases in intense laser fields. <i>Physical Review A</i> , 2001, 64, .	2.5	3
38	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
39	Dissociation of diatomic molecules by elliptically polarized chirped pulses. <i>Journal of Chemical Physics</i> , 2000, 112, 1757-1762.	3.0	13
40	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
41	Classical and quantum dynamics of chirped pulse dissociation of diatomic molecules. <i>Physical Review A</i> , 1998, 57, 1992-2001.	2.5	39
42	Nonlinear Dynamics of Chirped Pulse Excitation and Dissociation of Diatomic Molecules. <i>Physical Review Letters</i> , 1995, 75, 1292-1295.	7.8	78
43	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
44	Generalized Cross-Sections for Senftleben-Beenakker Effects and Laser Studies of Molecules. , 1992, , 217-236.		0
45	Close-coupled calculations of atom-adsorbate total cross sections. <i>Surface Science</i> , 1990, 231, 427-432.	1.9	2
46	Quantum and classical mechanical calculations of transport-relaxation cross sections for the HD-He interaction. <i>Molecular Physics</i> , 1989, 66, 565-576.	1.7	28
47	Laser excitation and desorption of adatoms. <i>Chemical Physics Letters</i> , 1988, 153, 176-180.	2.6	3
48	Chemisorption on inverse-supported catalysts: H-ZnO/Ni. <i>Theoretica Chimica Acta</i> , 1988, 74, 251-258.	0.8	16
49	Collisions of NO(X2II) with a Ag(111) surface: Validity of the energy sudden approximation. <i>Surface Science</i> , 1987, 191, 203-224.	1.9	13
50	Quantum theory of the scattering of helium atoms from adsorbates. <i>Faraday Discussions of the Chemical Society</i> , 1985, 80, 257.	2.2	11
51	Rotationally inelastic scattering of $2\hat{1}$ molecules from solid surfaces. <i>Surface Science</i> , 1984, 148, 675-696.	1.9	18
52	Classical S-matrix theory of viscomagnetic production cross section. <i>Chemical Physics Letters</i> , 1983, 96, 175-180.	2.6	1
53	Anisotropic intermolecular potentials and transport properties in polyatomic gases. <i>Faraday Discussions of the Chemical Society</i> , 1982, 73, 241.	2.2	15