

Jeong-Young Ji

List of Publications by Year in descending order

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55
papers

1,178
citations

430874

18
h-index

377865

34
g-index

61
all docs

61
docs citations

61
times ranked

750
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological dilaton black holes. <i>Physical Review D</i> , 1998, 57, 6547-6550.	4.7	163
2	Heisenberg-picture approach to the exact quantum motion of a time-dependent harmonic oscillator. <i>Physical Review A</i> , 1995, 51, 4268-4271.	2.5	92
3	Action and entropy of black holes in spacetimes with a cosmological constant. <i>Classical and Quantum Gravity</i> , 1998, 15, 2783-2793.	4.0	79
4	Power Laws in Nonlinear Granular Chain under Gravity. <i>Physical Review Letters</i> , 1999, 82, 3058-3061.	7.8	70
5	Production of photons by the parametric resonance in the dynamical Casimir effect. <i>Physical Review A</i> , 1997, 56, 4440-4444.	2.5	59
6	Ultradense phosphorous delta layers grown into silicon from PH3 molecular precursors. <i>Applied Physics Letters</i> , 2002, 80, 1580-1582.	3.3	59
7	Exact wave functions and nonadiabatic Berry phases of a time-dependent harmonic oscillator. <i>Physical Review A</i> , 1995, 52, 3352-3355.	2.5	50
8	Existence criterion of solitary waves in a chain of grains. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1999, 260, 60-61.	2.1	50
9	Exact linearized Coulomb collision operator in the moment expansion. <i>Physics of Plasmas</i> , 2006, 13, 102103.	1.9	45
10	Heisenberg-picture approach to the exact quantum motion of a time-dependent forced harmonic oscillator. <i>Physical Review A</i> , 1996, 53, 3767-3772.	2.5	41
11	Nanoscale electronics based on two-dimensional dopant patterns in silicon. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004, 22, 3182.	1.6	35
12	Interactions between uniformly magnetized spheres. <i>American Journal of Physics</i> , 2017, 85, 130-134.	0.7	34
13	Closure and transport theory for high-collisionality electron-ion plasmas. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	33
14	Moment approach to deriving parallel heat flow for general collisionality. <i>Physics of Plasmas</i> , 2009, 16, 022312.	1.9	29
15	Interference phenomena in the photon production between two oscillating walls. <i>Physical Review A</i> , 1998, 57, 4952-4955.	2.5	28
16	Landau collision operators and general moment equations for an electron-ion plasma. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	21
17	Temperature changes and squeezing properties of the system of time-dependent harmonic oscillators. <i>Physical Review A</i> , 1996, 53, 703-708.	2.5	20
18	Transport coefficients for magnetic-field evolution in inviscid magnetohydrodynamics. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	20

#	ARTICLE	IF	CITATIONS
19	Hairs on the cosmological horizon. <i>Physical Review D</i> , 1998, 58, .	4.7	18
20	Preparation of atomically clean and flat Si(1 0 0) surfaces by low-energy ion sputtering and low-temperature annealing. <i>Applied Surface Science</i> , 2003, 220, 293-297.	6.1	17
21	Low-temperature silicon epitaxy on hydrogen-terminated Si(001) surfaces. <i>Physical Review B</i> , 2004, 70, .	3.2	17
22	Lower Hybrid Drift Waves During Guide Field Reconnection. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087192.	4.0	16
23	Full Coulomb collision operator in the moment expansion. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	15
24	Verification of continuum drift kinetic equation solvers in NIMROD. <i>Physics of Plasmas</i> , 2015, 22, 032511.	1.9	13
25	Heisenberg-picture approach to the evolution of the scalar fields in an expanding universe. <i>Physical Review D</i> , 1997, 56, 4916-4921.	4.7	12
26	Electron parallel closures for arbitrary collisionality. <i>Physics of Plasmas</i> , 2014, 21, 122116.	1.9	12
27	Coherence and emergence of classical spacetime. <i>Physical Review D</i> , 1997, 56, 3756-3758.	4.7	11
28	Electromagnetic fields in a three-dimensional cavity and in a waveguide with oscillating walls. <i>Journal of Physics A</i> , 1998, 31, L457-L462.	1.6	11
29	Ultrarelativistic limits of boosted dilaton black holes. <i>Nuclear Physics B</i> , 1998, 528, 265-282.	2.5	10
30	Heisenberg picture approach to the invariants and the exact quantum motions for coupled parametric oscillators. <i>Journal of Physics A</i> , 1998, 31, L689-L693.	1.6	9
31	Linearly exact parallel closures for slab geometry. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	9
32	Electron parallel closures for various ion charge numbers. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	7
33	Moment Approach to Deriving a Unified Parallel Viscous Stress in Magnetized Plasmas. <i>Journal of Fusion Energy</i> , 2009, 28, 170-174.	1.2	6
34	Analytical solution of the kinetic equation for a uniform plasma in a magnetic field. <i>Physical Review E</i> , 2010, 82, 016401.	2.1	6
35	A framework for moment equations for magnetized plasmas. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	6
36	A finite element/Fourier treatment of the Fokker-Planck equation. <i>Journal of Computational Physics</i> , 2012, 231, 6192-6206.	3.8	5

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37	Ion closure theory for high collisionality revisited. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	5
38	The role of antiphase boundaries during ion sputtering and solid phase epitaxy of Si(0 0 1). <i>Surface Science</i> , 2003, 538, L471-L476.	1.9	4
39	A scanning tunneling microscopy study of PH ₃ adsorption on Si(111)-7Å–7 surfaces, P-segregation and thermal desorption. <i>Surface Science</i> , 2007, 601, 1768-1774.	1.9	4
40	Electron parallel closures for the 3 + 1 fluid model. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	4
41	Cold-hot coupled waves in a flowing magnetized plasma. <i>Nuclear Fusion</i> , 2020, 60, 126036.	3.5	4
42	Quantum electromagnetic fields in the presence of a dielectric microsphere. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2000, 33, 4821-4831.	1.5	3
43	Potential, field, and interactions of multipole spheres: Coated spherical magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 529, 167861.	2.3	3
44	The vacuum excitation and squeezing properties of two quantum oscillators with delta-kicked interactions. <i>Journal of Physics A</i> , 2001, 34, 3429-3435.	1.6	2
45	Electron parallel transport for arbitrary collisionality. <i>Physics of Plasmas</i> , 2017, 24, 112121.	1.9	2
46	Exact irreducible moments of the Landau collision operator in the random-velocity moment expansion. <i>Plasma Research Express</i> , 2020, 2, 015013.	0.9	2
47	Accurate numerical, integral methods for computing drift-kinetic Trubnikov-Rosenbluth potentials. <i>Journal of Computational Physics</i> , 2022, 450, 110862.	3.8	2
48	Effects of Coulomb collisions on lower hybrid drift waves inside a laboratory reconnection current sheet. <i>Physics of Plasmas</i> , 2022, 29, 022109.	1.9	2
49	Nonlinear harmonics coupled by parallel wave propagations in a time-dependent plasma flow. <i>Plasma Physics and Controlled Fusion</i> , 2022, 64, 055005.	2.1	2
50	A $n\tilde{I}_n$ -periodic cyclic initial state and Berry's phase for a \tilde{I}_n -periodic harmonic oscillator. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995, 208, 25-32.	2.1	1
51	Overview of the Plasma Science and Innovation Center (PSI "Center"). <i>Journal of Fusion Energy</i> , 2007, 26, 91-92.	1.2	1
52	Ion parallel closures. <i>Physics of Plasmas</i> , 2017, 24, 022127.	1.9	1
53	Deterministic scattering of relativistic electron beams by off-resonant circularly polarized electromagnetic waves. <i>Physics of Plasmas</i> , 2021, 28, 060702.	1.9	1
54	Moments of the Boltzmann collision operator for Coulomb interactions. <i>Physics of Plasmas</i> , 2021, 28, 072113.	1.9	1

#	ARTICLE	IF	CITATIONS
55	Electron heat flow due to magnetic field fluctuations. Plasma Physics and Controlled Fusion, 2016, 58, 042001.	2.1	0