K C Shaing

List of Publications by Year
in descending order

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45	771	687363	526287
papers	citations	13 h-index	27 g-index

47	47	47	422
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Unified modeling of both resonant and non-resonant neoclassical transport under non-axisymmetric magnetic perturbations in tokamaks. Physics of Plasmas, 2019, 26, .	1.9	14
2	Electromagnetic banana kinetic equation and its applications in tokamaks. Physics of Plasmas, 2018, 25, 032501.	1.9	4
3	Neoclassical quasilinear theory and universal collision frequency landscape in wave-particle interaction in tokamaks. Physics of Plasmas, 2018, 25, 122502.	1.9	2
4	Eulerian approach to bounce-transit and drift resonance with magnetic drifts in tokamaks. Physics of Plasmas, 2017, 24, .	1.9	8
5	Neoclassical quasilinear theory in the superbanana plateau regime and banana kinetics in tokamaks. Physics of Plasmas, 2017, 24, 122504.	1.9	5
6	Neoclassical toroidal plasma viscosity with effects of finite banana width for finite aspect ratio tokamaks. Physics of Plasmas, 2016, 23, .	1.9	6
7	Transport theory for energetic alpha particles in finite aspect ratio tokamaks with broken symmetry. Physics of Plasmas, 2016, 23, .	1.9	5
8	Neoclassical toroidal plasma viscosity in the vicinity of the magnetic axis in tokamaks with broken symmetry. Physics of Plasmas, 2015, 22, .	1.9	1
9	Transport theory in the collisional boundary layer regime for finite aspect ratio tokamaks with broken symmetry. Physics of Plasmas, 2015, 22, .	1.9	4
10	Superbanana and superbanana plateau transport in finite aspect ratio tokamaks with broken symmetry. Journal of Plasma Physics, 2015, 81, .	2.1	29
11	Neoclassical theory inside transport barriers in tokamaks. Physics of Plasmas, 2012, 19, .	1.9	12
12	Neoclassical Toroidal Plasma Viscosity Torque in Collisionless Regimes in Tokamaks. Physical Review Letters, 2010, 105, 145002.	7.8	68
13	Neoclassical toroidal plasma viscosity in the superbanana plateau regime for tokamaks. Plasma Physics and Controlled Fusion, 2009, 51, 035009.	2.1	47
14	Neoclassical toroidal plasma viscosity in the superbanana regime in tokamaks. Plasma Physics and Controlled Fusion, 2009, 51, 055003.	2.1	28
15	Linear neoclassical tearing mode in tokamaks. Physics of Plasmas, 2007, 14, 052511.	1.9	5
16	Control of magnetic islands by pellet injection in tokamaks. Physics of Plasmas, 2007, 14, 072501.	1.9	2
17	Island-induced bootstrap current on the saturation of a thin magnetic island in tokamaks. Physics of Plasmas, 2007, 14, 042507.	1.9	0
18	Neoclassical toroidal viscosity for an axisymmetric toroidal equilibrium with multiple trapping of particles. Physics of Plasmas, 2007, 14, 024501.	1.9	7

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19	Time-dependent plasma viscosity in asymmetric toroidal plasmas. Physics of Plasmas, 2006, 13, 052505.	1.9	5
20	Extending the collisional fluid equations into the long mean-free-path regime in toroidal plasmas. III. Parallel heat conduction. Physics of Plasmas, 2006, 13, 092504.	1.9	1
21	Magnetic island induced bootstrap current on island dynamics in tokamaks. Physics of Plasmas, 2006, 13, 022501.	1.9	3
22	Extending the collisional fluid equations into the long mean-free-path regime in toroidal plasmas. II. Frequency dependence. Physics of Plasmas, 2005, 12, 072511.	1.9	3
23	Theory for plasma confinement and momentum transport in snakes. Physics of Plasmas, 2005, 12, 072523.	1.9	4
24	On the relation between neoclassical transport and turbulent transport. Physics of Plasmas, 2005, 12, 082508.	1.9	10
25	Time-dependent plasma viscosity and poloidal flow damping with orbit squeezing in tokamaks. Physics of Plasmas, 2005, 12, 052514.	1.9	7
26	Poloidal flow damping with potato orbits in tokamaks. Physics of Plasmas, 2005, 12, 102514.	1.9	1
27	Plasma flow and confinement in the vicinity of a rotating island in collisional tokamak plasmas. Physics of Plasmas, 2004, 11, 625-632.	1.9	9
28	Neoclassical dissipation and resistive wall modes in tokamaks. Physics of Plasmas, 2004, 11, 5525-5531.	1.9	21
29	Plasma flow and confinement in the vicinity of a rotating island in tokamaks. Physics of Plasmas, 2003, 10, 4728-4736.	1.9	14
30	Magnetohydrodynamic-activity-induced toroidal momentum dissipation in collisionless regimes in tokamaks. Physics of Plasmas, 2003, 10, 1443-1448.	1.9	197
31	Comment on â€œX-transport: A baseline nonambipolar transport in a diverted tokamak plasmas edgeâ€• [Phys. Plasmas 9, 3884 (2002)]. Physics of Plasmas, 2003, 10, 1530-1531.	1.9	3
32	Pressure-gradient-driven current induced by a magnetic island in one-dimensional equilibrium plasmas and its implications. Physics of Plasmas, 2002, 9, 4633-4636.	1.9	1
33	Local potato-plateau transport fluxes and a unified plateau theory. Physics of Plasmas, 2002, 9, 1654-1658.	1.9	4
34	Squeezed superbananas and improved superbanana transport in stellarators. Physics of Plasmas, 2002, 9, 2865-2867.	1.9	0
35	Response to â€œComment on â€˜Region of validity for potato-plateau transport fluxesâ€™â€Šâ€•[Phys. Plasmas9, 734 (2002)]. Physics of Plasmas, 2002, 9, 736-737.	1.9	4
36	Direction of ion âˆ‡B drift and power threshold in high confinement mode in diverted tokamaks. Physics of Plasmas, 2002, 9, 1-3.	1.9	26

#	Article	IF	Citations
37	Transport processes in the vicinity of a magnetic island in tokamaks. Physics of Plasmas, 2002, 9, 849-852.	1.9	2
38	Radial electric field and plasma confinement in the vicinity of a magnetic island. Physics of Plasmas, 2002, 9, 3470-3475.	1.9	38
39	Squeezed potato orbits in a magnetic well. Physics of Plasmas, 2001, 8, 3855-3856.	1.9	0
40	Symmetry-Breaking Induced Transport in the Vicinity of a Magnetic Island. Physical Review Letters, 2001, 87, 245003.	7.8	89
41	Region of validity for potato-plateau transport fluxes. Physics of Plasmas, 2001, 8, 3517-3518.	1.9	4
42	Resonance parallel viscosity in the banana regime in poloidally rotating tokamak plasmas. Physics of Plasmas, 1994, 1, 1168-1176.	1.9	21
43	Bootstrap current and parallel viscosity in the low collisionality regime in toroidal plasmas. Physics of Fluids B, 1989, 1, 148-152.	1.7	40
44	Superbanana plateau regime transport in a multiple-helicity torsatron and a bumpy torus. Physics of Fluids, 1985, 28, 1402.	1.4	13
45	Effect of collisions on ion gyroresonance. Physics of Fluids, 1981, 24, 2119.	1.4	1