

# K C Shaing

## List of Publications by Year in descending order

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45  
papers

771  
citations

687363

13  
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526287

27  
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47  
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docs citations

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times ranked

422  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetohydrodynamic-activity-induced toroidal momentum dissipation in collisionless regimes in tokamaks. <i>Physics of Plasmas</i> , 2003, 10, 1443-1448.	1.9	197
2	Symmetry-Breaking Induced Transport in the Vicinity of a Magnetic Island. <i>Physical Review Letters</i> , 2001, 87, 245003.	7.8	89
3	Neoclassical Toroidal Plasma Viscosity Torque in Collisionless Regimes in Tokamaks. <i>Physical Review Letters</i> , 2010, 105, 145002.	7.8	68
4	Neoclassical toroidal plasma viscosity in the superbanana plateau regime for tokamaks. <i>Plasma Physics and Controlled Fusion</i> , 2009, 51, 035009.	2.1	47
5	Bootstrap current and parallel viscosity in the low collisionality regime in toroidal plasmas. <i>Physics of Fluids B</i> , 1989, 1, 148-152.	1.7	40
6	Radial electric field and plasma confinement in the vicinity of a magnetic island. <i>Physics of Plasmas</i> , 2002, 9, 3470-3475.	1.9	38
7	Superbanana and superbanana plateau transport in finite aspect ratio tokamaks with broken symmetry. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	29
8	Neoclassical toroidal plasma viscosity in the superbanana regime in tokamaks. <i>Plasma Physics and Controlled Fusion</i> , 2009, 51, 055003.	2.1	28
9	Direction of ion $\hat{v} \times \hat{B}$ drift and power threshold in high confinement mode in diverted tokamaks. <i>Physics of Plasmas</i> , 2002, 9, 1-3.	1.9	26
10	Resonance parallel viscosity in the banana regime in poloidally rotating tokamak plasmas. <i>Physics of Plasmas</i> , 1994, 1, 1168-1176.	1.9	21
11	Neoclassical dissipation and resistive wall modes in tokamaks. <i>Physics of Plasmas</i> , 2004, 11, 5525-5531.	1.9	21
12	Plasma flow and confinement in the vicinity of a rotating island in tokamaks. <i>Physics of Plasmas</i> , 2003, 10, 4728-4736.	1.9	14
13	Unified modeling of both resonant and non-resonant neoclassical transport under non-axisymmetric magnetic perturbations in tokamaks. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	14
14	Superbanana plateau regime transport in a multiple-helicity torsatron and a bumpy torus. <i>Physics of Fluids</i> , 1985, 28, 1402.	1.4	13
15	Neoclassical theory inside transport barriers in tokamaks. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	12
16	On the relation between neoclassical transport and turbulent transport. <i>Physics of Plasmas</i> , 2005, 12, 082508.	1.9	10
17	Plasma flow and confinement in the vicinity of a rotating island in collisional tokamak plasmas. <i>Physics of Plasmas</i> , 2004, 11, 625-632.	1.9	9
18	Eulerian approach to bounce-transit and drift resonance with magnetic drifts in tokamaks. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	8

#	ARTICLE	IF	CITATIONS
19	Time-dependent plasma viscosity and poloidal flow damping with orbit squeezing in tokamaks. Physics of Plasmas, 2005, 12, 052514.	1.9	7
20	Neoclassical toroidal viscosity for an axisymmetric toroidal equilibrium with multiple trapping of particles. Physics of Plasmas, 2007, 14, 024501.	1.9	7
21	Neoclassical toroidal plasma viscosity with effects of finite banana width for finite aspect ratio tokamaks. Physics of Plasmas, 2016, 23, .	1.9	6
22	Time-dependent plasma viscosity in asymmetric toroidal plasmas. Physics of Plasmas, 2006, 13, 052505.	1.9	5
23	Linear neoclassical tearing mode in tokamaks. Physics of Plasmas, 2007, 14, 052511.	1.9	5
24	Transport theory for energetic alpha particles in finite aspect ratio tokamaks with broken symmetry. Physics of Plasmas, 2016, 23, .	1.9	5
25	Neoclassical quasilinear theory in the superbanana plateau regime and banana kinetics in tokamaks. Physics of Plasmas, 2017, 24, 122504.	1.9	5
26	Region of validity for potato-plateau transport fluxes. Physics of Plasmas, 2001, 8, 3517-3518.	1.9	4
27	Local potato-plateau transport fluxes and a unified plateau theory. Physics of Plasmas, 2002, 9, 1654-1658.	1.9	4
28	Response to "Comment on "Region of validity for potato-plateau transport fluxes" [Phys. Plasmas 9, 734 (2002)]. Physics of Plasmas, 2002, 9, 736-737.	1.9	4
29	Theory for plasma confinement and momentum transport in snakes. Physics of Plasmas, 2005, 12, 072523.	1.9	4
30	Transport theory in the collisional boundary layer regime for finite aspect ratio tokamaks with broken symmetry. Physics of Plasmas, 2015, 22, .	1.9	4
31	Electromagnetic banana kinetic equation and its applications in tokamaks. Physics of Plasmas, 2018, 25, 032501.	1.9	4
32	Comment on "X-transport: A baseline nonambipolar transport in a diverted tokamak plasmas edge" [Phys. Plasmas 9, 3884 (2002)]. Physics of Plasmas, 2003, 10, 1530-1531.	1.9	3
33	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
34	Magnetic island induced bootstrap current on island dynamics in tokamaks. Physics of Plasmas, 2006, 13, 022501.	1.9	3
35	Transport processes in the vicinity of a magnetic island in tokamaks. Physics of Plasmas, 2002, 9, 849-852.	1.9	2
36	Control of magnetic islands by pellet injection in tokamaks. Physics of Plasmas, 2007, 14, 072501.	1.9	2

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37	Neoclassical quasilinear theory and universal collision frequency landscape in wave-particle interaction in tokamaks. <i>Physics of Plasmas</i> , 2018, 25, 122502.	1.9	2
38	Effect of collisions on ion gyroresonance. <i>Physics of Fluids</i> , 1981, 24, 2119.	1.4	1
39	Pressure-gradient-driven current induced by a magnetic island in one-dimensional equilibrium plasmas and its implications. <i>Physics of Plasmas</i> , 2002, 9, 4633-4636.	1.9	1
40	Poloidal flow damping with potato orbits in tokamaks. <i>Physics of Plasmas</i> , 2005, 12, 102514.	1.9	1
41	Extending the collisional fluid equations into the long mean-free-path regime in toroidal plasmas. III. Parallel heat conduction. <i>Physics of Plasmas</i> , 2006, 13, 092504.	1.9	1
42	Neoclassical toroidal plasma viscosity in the vicinity of the magnetic axis in tokamaks with broken symmetry. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	1
43	Squeezed potato orbits in a magnetic well. <i>Physics of Plasmas</i> , 2001, 8, 3855-3856.	1.9	0
44	Squeezed superbananas and improved superbanana transport in stellarators. <i>Physics of Plasmas</i> , 2002, 9, 2865-2867.	1.9	0
45	Island-induced bootstrap current on the saturation of a thin magnetic island in tokamaks. <i>Physics of Plasmas</i> , 2007, 14, 042507.	1.9	0