

George Throumoulopoulos

List of Publications by Year in descending order

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papers

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Certain clarifications on the resistive wall mode theorem and extensions. <i>Physics of Plasmas</i> , 2022, 29, 024502.	1.9	1
2	Neural network tokamak equilibria with incompressible flows. <i>Physics of Plasmas</i> , 2022, 29, 022506.	1.9	2
3	Three dimensional ideal MHD equilibria with non-parallel flow and pressure anisotropy. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022, 437, 128086.	2.1	1
4	Tokamak equilibria with incompressible flow parallel to the magnetic field and pressure anisotropy. <i>AIP Advances</i> , 2021, 11, 065231.	1.3	0
5	Hamiltonian kinetic-Hall magnetohydrodynamics with fluid and kinetic ions in the current and pressure coupling schemes. <i>Journal of Plasma Physics</i> , 2021, 87, .	2.1	5
6	Energy-Casimir, dynamically accessible, and Lagrangian stability of extended magnetohydrodynamic equilibria. <i>Physics of Plasmas</i> , 2020, 27, 012104.	1.9	9
7	On the linear stability of anisotropic pressure equilibria with field-aligned incompressible flow. <i>Journal of Plasma Physics</i> , 2020, 86, .	2.1	3
8	Ellipticity conditions for the extended MHD Grad-Shafranov-Bernoulli equilibrium equations. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	2
9	A tokamak pertinent analytic equilibrium with plasma flow of arbitrary direction. <i>Physics of Plasmas</i> , 2019, 26, 124501.	1.9	5
10	2D magnetofluid models constructed by a priori imposition of conservation laws. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 1031-1036.	2.1	2
11	Helically symmetric equilibria with pressure anisotropy and incompressible plasma flow. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 025005.	2.1	4
12	Tokamak equilibria with non-parallel flow in a triangularity-deformed axisymmetric toroidal coordinate system. <i>Heliyon</i> , 2018, 4, e00499.	3.2	2
13	A generalized Grad-Shafranov equation with plasma flow under a conformal coordinate transformation. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	0
14	Helically symmetric extended magnetohydrodynamics: Hamiltonian formulation and equilibrium variational principles. <i>Journal of Plasma Physics</i> , 2018, 84, .	2.1	7
15	Translationally symmetric extended MHD via Hamiltonian reduction: Energy-Casimir equilibria. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	10
16	Analytic axisymmetric equilibria with pressure anisotropy and non-parallel flow. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 102001.	2.1	0
17	Remapping HELENA to incompressible plasma rotation parallel to the magnetic field. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	3
18	New classes of exact solutions to the Grad-Shafranov equation with arbitrary flow using Lie-point symmetries. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	3

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19	An alternative method of constructing axisymmetric toroidal equilibria with nonparallel flow. <i>Physics of Plasmas</i> , 2016, 23, 114502.	1.9	3
20	Axisymmetric equilibria with pressure anisotropy and plasma flow. <i>Plasma Physics and Controlled Fusion</i> , 2016, 58, 045022.	2.1	10
21	Toroidal equilibrium states with reversed magnetic shear and parallel flow in connection with the formation of Internal Transport Barriers. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	0
22	Equilibria with incompressible flows from symmetry analysis. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	3
23	Vlasov tokamak equilibria with sheared toroidal flow and anisotropic pressure. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	3
24	Comment on the paper "An analytic functional form for characterization and generation of axisymmetric plasma boundaries" (2013 <i>Plasma Phys. Control. Fusion</i> 55 095009). <i>Plasma Physics and Controlled Fusion</i> , 2015, 57, 078001.	2.1	4
25	Analytical up-down asymmetric equilibria with non-parallel flows. <i>Physics of Plasmas</i> , 2014, 21, 032509.	1.9	4
26	Generalized Solovév equilibrium with sheared flow of arbitrary direction and stability consideration. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	8
27	Two-dimensional nonlinear cylindrical equilibria with reversed magnetic shear and sheared flow. <i>Journal of Plasma Physics</i> , 2014, 80, 27-41.	2.1	6
28	An analytic nonlinear toroidal equilibrium with flow. <i>Plasma Physics and Controlled Fusion</i> , 2014, 56, 075003.	2.1	5
29	Tokamak-like Vlasov equilibria. <i>European Physical Journal D</i> , 2014, 68, 1.	1.3	9
30	On Lyapunov boundary control of unstable magnetohydrodynamic plasmas. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	2
31	Vlasov versus reduced kinetic theories for helically symmetric equilibria. <i>Physics of Plasmas</i> , 2013, 20, 042508.	1.9	1
32	Nonlinear translational symmetric equilibria relevant to the Lâ€“H transition. <i>Journal of Plasma Physics</i> , 2013, 79, 257-265.	2.1	7
33	International thermonuclear experimental reactor-like extended SolovÃ©v equilibria with parallel flow. <i>Physics of Plasmas</i> , 2012, 19, 014504.	1.9	16
34	Symmetric and asymmetric equilibria with non-parallel flows. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	10
35	On MHD stability of gravitating electrically conducting fluids with field-aligned flows. <i>Journal of Plasma Physics</i> , 2012, 78, 1-2.	2.1	3
36	Lyapunov stability of flowing magnetohydrodynamic plasmas surrounded by resistive walls. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	5

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37	Up-down asymmetric tokamak equilibria with parallel flows. Plasma Physics and Controlled Fusion, 2011, 53, 125005.	2.1	2
38	A comparison of Vlasov with drift kinetic and gyrokinetic theories. Physics of Plasmas, 2011, 18, 064507.	1.9	2
39	Magnetohydrodynamic counter-rotating vortices and synergetic stabilizing effects of magnetic field and plasma flow. Physics of Plasmas, 2010, 17, 032508.	1.9	17
40	Magnetohydrodynamic "cat eyes" and stabilizing effects of plasma flow. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 335501.	2.1	23
41	Side-conditioned axisymmetric equilibria with incompressible flows. Journal of Plasma Physics, 2008, 74, 327-344.	2.1	16
42	A sufficient condition for the linear stability of magnetohydrodynamic equilibria with field aligned incompressible flows. Physics of Plasmas, 2007, 14, .	1.9	22
43	On the Vlasov approach to tokamak equilibria with flow. Journal of Physics A: Mathematical and Theoretical, 2007, 40, F631-F637.	2.1	7
44	Two-fluid tokamak equilibria with reversed magnetic shear and sheared flow. Journal of Plasma Physics, 2007, 73, 347-366.	2.1	1
45	On the existence of resistive magnetohydrodynamic equilibria. Journal of Plasma Physics, 2007, 73, 285-287.	2.1	0
46	Axisymmetric equilibria with anisotropic resistivity and toroidal flow. Journal of Plasma Physics, 2006, 72, 213.	2.1	1
47	On nonexistence of tokamak equilibria with purely poloidal flow. Physics of Plasmas, 2006, 13, 122501.	1.9	17
48	On Hall magnetohydrodynamics equilibria. Physics of Plasmas, 2006, 13, 102504.	1.9	9
49	Toroidal flow-caused change in magnetic topology of equilibrium eigenstates. Physics of Plasmas, 2005, 12, 042112.	1.9	9
50	Tokamak MHD equilibria with reversed magnetic shear and sheared flow. Plasma Physics and Controlled Fusion, 2004, 46, 639-651.	2.1	4
51	Instability theorem in magnetohydrodynamics revisited. Physics of Plasmas, 2004, 11, 334-335.	1.9	4
52	On axisymmetric resistive magnetohydrodynamic equilibria with flow free of Pfirsch-Schlüter diffusion. Physics of Plasmas, 2003, 10, 2382-2388.	1.9	7
53	Cross-helicity and magnetized toroidal flows. Physics of Plasmas, 2003, 10, 4897-4898.	1.9	1
54	Wall stabilization and the Mathieu-Hill equations. Physics of Plasmas, 2002, 9, 2662-2666.	1.9	6

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55	Axisymmetric equilibria of a gravitating plasma with incompressible flows. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2001, 94, 249-262.	1.2	10
56	Analytic magnetohydrodynamic equilibria of a magnetically confined plasma with sheared flows. <i>Physics of Plasmas</i> , 2001, 8, 2641-2648.	1.9	47
57	On resistive magnetohydrodynamic equilibria of an axisymmetric toroidal plasma with flow. <i>Journal of Plasma Physics</i> , 2000, 64, 601-612.	2.1	11
58	A potential mechanism for the creation of reversed-magnetic-shear transport barriers in tokamaks. <i>Physics of Plasmas</i> , 1999, 6, 3226-3232.	1.9	0
59	Ideal magnetohydrodynamic equilibria with helical symmetry and incompressible flows. <i>Journal of Plasma Physics</i> , 1999, 62, 449-459.	2.1	17
60	Axisymmetric ideal magnetohydrodynamic equilibria with incompressible flows. <i>Physics of Plasmas</i> , 1998, 5, 2378-2383.	1.9	88
61	Nonlinear axisymmetric resistive magnetohydrodynamic equilibria with toroidal flow. <i>Journal of Plasma Physics</i> , 1998, 59, 303-314.	2.1	8
62	Negative-energy perturbations in cylindrical equilibria with a radial electric field. <i>Physical Review E</i> , 1997, 56, 5979-5989.	2.1	1
63	Cylindrical ideal magnetohydrodynamic equilibria with incompressible flows. <i>Physics of Plasmas</i> , 1997, 4, 1492-1494.	1.9	34
64	Negative-energy perturbations in circularly cylindrical equilibria within the framework of Maxwell-drift kinetic theory. <i>Physical Review E</i> , 1996, 53, 2767-2777.	2.1	7
65	Magnetohydrodynamic equilibria of a cylindrical plasma with poloidal mass flow and arbitrary cross sectional shape. <i>Plasma Physics and Controlled Fusion</i> , 1996, 38, 1817-1823.	2.1	21
66	Negative-energy modes in a magnetically confined plasma in the framework of Maxwell-drift kinetic theory. <i>Physical Review E</i> , 1994, 49, 3290-3309.	2.1	9
67	Analytic axisymmetric magnetohydrodynamic equilibria of a plasma torus with toroidal mass flow. <i>Physics of Fluids B</i> , 1989, 1, 1827-1833.	1.7	23
68	Time-Dependent Net Core Breeding Gain of Fusion-Fission Symbiotic Systems. <i>Fusion Science and Technology</i> , 1986, 10, 149-153.	0.6	0