# George Throumoulopoulos

List of Publications by Year
in descending order



| 68 | 582 | 759233 12 | 713466 21 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 68 | 68 | 68 | 137 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Axisymmetric ideal magnetohydrodynamic equilibria with incompressible flows. Physics of Plasmas, 1998, 5, 2378-2383. | 1.9 | 88 |
| 2 | Analytic magnetohydrodynamic equilibria of a magnetically confined plasma with sheared flows. Physics of Plasmas, 2001, 8, 2641-2648. | 1.9 | 47 |
| 3 | Cylindrical ideal magnetohydrodynamic equilibria with incompressible flows. Physics of Plasmas, 1997, 4, 1492-1494. | 1.9 | 34 |
| 4 | Analytic axisymmetric magnetohydrodynamic equilibria of a plasma torus with toroidal mass flow. Physics of Fluids B, 1989, 1, 1827-1833. | 1.7 | 23 |
| 5 | Magnetohydrodynamic â€˜cat eyesâ€™ and stabilizing effects of plasma flow. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 335501. | 2.1 | 23 |
| 6 | A sufficient condition for the linear stability of magnetohydrodynamic equilibria with field aligned incompressible flows. Physics of Plasmas, 2007, 14, . | 1.9 | 22 |
| 7 | Magnetohydrodynamic equilibria of a cylindrical plasma with poloidal mass flow and arbitrary cross sectional shape. Plasma Physics and Controlled Fusion, 1996, 38, 1817-1823. | 2.1 | 21 |
| 8 | Ideal magnetohydrodynamic equilibria with helical symmetry and incompressible flows. Journal of Plasma Physics, 1999, 62, 449-459. | 2.1 | 17 |
| 9 | On nonexistence of tokamak equilibria with purely poloidal flow. Physics of Plasmas, 2006, 13, 122501. | 1.9 | 17 |
| 10 | Magnetohydrodynamic counter-rotating vortices and synergetic stabilizing effects of magnetic field and plasma flow. Physics of Plasmas, 2010, 17, 032508. | 1.9 | 17 |
| 11 | Side-conditioned axisymmetric equilibria with incompressible flows. Journal of Plasma Physics, 2008, 74, 327-344. | 2.1 | 16 |
| 12 | International thermonuclear experimental reactor-like extended SolovÃ©v equilibria with parallel flow. Physics of Plasmas, 2012, 19, 014504. | 1.9 | 16 |
| 13 | On resistive magnetohydrodynamic equilibria of an axisymmetric toroidal plasma with flow. Journal of Plasma Physics, 2000, 64, 601-612. | 2.1 | 11 |
| 14 | Axisymmetric equilibria of a gravitating plasma with incompressible flows. Geophysical and Astrophysical Fluid Dynamics, 2001, 94, 249-262. | 1.2 | 10 |
| 15 | Symmetric and asymmetric equilibria with non-parallel flows. Physics of Plasmas, 2012, 19, . | 1.9 | 10 |
| 16 | Axisymmetric equilibria with pressure anisotropy and plasma flow. Plasma Physics and Controlled Fusion, 2016, 58, 045022. | 2.1 | 10 |
| 17 | Translationally symmetric extended MHD via Hamiltonian reduction: Energy-Casimir equilibria. Physics of Plasmas, 2017, 24, . | 1.9 | 10 |
| 18 | Negative-energy modes in a magnetically confined plasma in the framework of Maxwell-drift kinetic theory. Physical Review E, 1994, 49, 3290-3309. | 2.1 | 9 |

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|---|---|---|---|
| 19 | Toroidal flow-caused change in magnetic topology of equilibrium eigenstates. Physics of Plasmas, 2005, 12, 042112. | 1.9 | 9 |
| 20 | On Hall magnetohydrodynamics equilibria. Physics of Plasmas, 2006, 13, 102504. | 1.9 | 9 |
| 21 | Tokamak-like Vlasov equilibria. European Physical Journal D, 2014, 68, 1. | 1.3 | 9 |
| 22 | Energy-Casimir, dynamically accessible, and Lagrangian stability of extended magnetohydrodynamic equilibria. Physics of Plasmas, 2020, 27, 012104. | 1.9 | 9 |
| 23 | Nonlinear axisymmetric resistive magnetohydrodynamic equilibria with toroidal flow. Journal of Plasma Physics, 1998, 59, 303-314. | 2.1 | 8 |
| 24 | Generalized Solovev equilibrium with sheared flow of arbitrary direction and stability consideration. Physics of Plasmas, 2014, 21, . | 1.9 | 8 |
| 25 | Negative-energy perturbations in circularly cylindrical equilibria within the framework of Maxwell-drift kinetic theory. Physical Review E, 1996, 53, 2767-2777. | 2.1 | 7 |
| 26 | On axisymmetric resistive magnetohydrodynamic equilibria with flow free of Pfirschâ€“SchlÃ¼ter diffusion. Physics of Plasmas, 2003, 10, 2382-2388. | 1.9 | 7 |
| 27 | On the Vlasov approach to tokamak equilibria with flow. Journal of Physics A: Mathematical and Theoretical, 2007, 40, F631-F637. | 2.1 | 7 |
| 28 | Nonlinear translational symmetric equilibria relevant to the Lâ€“H transition. Journal of Plasma Physics, 2013, 79, 257-265. | 2.1 | 7 |
| 29 | Helically symmetric extended magnetohydrodynamics: Hamiltonian formulation and equilibrium variational principles. Journal of Plasma Physics, 2018, 84, . | 2.1 | 7 |
| 30 | Wall stabilization and the Mathieuâ€“Hill equations. Physics of Plasmas, 2002, 9, 2662-2666. | 1.9 | 6 |
| 31 | Two-dimensional nonlinear cylindrical equilibria with reversed magnetic shear and sheared flow. Journal of Plasma Physics, 2014, 80, 27-41. | 2.1 | 6 |
| 32 | Lyapunov stability of flowing magnetohydrodynamic plasmas surrounded by resistive walls. Physics of Plasmas, 2011, 18, . | 1.9 | 5 |
| 33 | An analytic nonlinear toroidal equilibrium with flow. Plasma Physics and Controlled Fusion, 2014, 56, 075003. | 2.1 | 5 |
| 34 | A tokamak pertinent analytic equilibrium with plasma flow of arbitrary direction. Physics of Plasmas, 2019, 26, 124501. | 1.9 | 5 |
| 35 | Hamiltonian kinetic-Hall magnetohydrodynamics with fluid and kinetic ions in the current and pressure coupling schemes. Journal of Plasma Physics, 2021, 87, . | 2.1 | 5 |
| 36 | Tokamak MHD equilibria with reversed magnetic shear and sheared flow. Plasma Physics and Controlled Fusion, 2004, 46, 639-651. | 2.1 | 4 |

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|---|---|---|---|
| 37 | Instability theorem in magnetohydrodynamics revisited. Physics of Plasmas, 2004, 11, 334-335. | 1.9 | 4 |
| 38 | Analytical up-down asymmetric equilibria with non-parallel flows. Physics of Plasmas, 2014, 21, 032509. | 1.9 | 4 |
| 39 | Comment on the paper â€˜An analytic functional form for characterization and generation of axisymmetric plasma boundariesâ€™ (2013Plasma Phys. Control. Fusion55 095009). Plasma Physics and Controlled Fusion, 2015, 57, 078001. | 2.1 | 4 |
| 40 | Helically symmetric equilibria with pressure anisotropy and incompressible plasma flow. Plasma Physics and Controlled Fusion, 2018, 60, 025005. | 2.1 | 4 |
| 41 | On MHD stability of gravitating electrically conducting fluids with field-aligned flows. Journal of Plasma Physics, 2012, 78, 1-2. | 2.1 | 3 |
| 42 | Equilibria with incompressible flows from symmetry analysis. Physics of Plasmas, 2015, 22, . | 1.9 | 3 |
| 43 | Vlasov tokamak equilibria with sheared toroidal flow and anisotropic pressure. Physics of Plasmas, 2015, 22, . | 1.9 | 3 |
| 44 | Remapping HELENA to incompressible plasma rotation parallel to the magnetic field. Physics of Plasmas, 2016, 23, . | 1.9 | 3 |
| 45 | New classes of exact solutions to the Grad-Shafranov equation with arbitrary flow using Lie-point symmetries. Physics of Plasmas, 2016, 23, . | 1.9 | 3 |
| 46 | An alternative method of constructing axisymmetric toroidal equilibria with nonparallel flow. Physics of Plasmas, 2016, 23, 114502. | 1.9 | 3 |
| 47 | On the linear stability of anisotropic pressure equilibria with field-aligned incompressible flow. Journal of Plasma Physics, 2020, 86, . | 2.1 | 3 |
| 48 | Up-down asymmetric tokamak equilibria with parallel flows. Plasma Physics and Controlled Fusion, 2011, 53, 125005. | 2.1 | 2 |
| 49 | A comparison of Vlasov with drift kinetic and gyrokinetic theories. Physics of Plasmas, 2011, 18, 064507. | 1.9 | 2 |
| 50 | On Lyapunov boundary control of unstable magnetohydrodynamic plasmas. Physics of Plasmas, 2013, 20, . | 1.9 | 2 |
| 51 | Tokamak equilibria with non-parallel flow in a triangularity-deformed axisymmetric toroidal coordinate system. Heliyon, 2018, 4, e00499. | 3.2 | 2 |
| 52 | Ellipticity conditions for the extended MHD Grad-Shafranov-Bernoulli equilibrium equations. Physics of Plasmas, 2019, 26, . | 1.9 | 2 |
| 53 | 2D magnetofluid models constructed by a priori imposition of conservation laws. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 1031-1036. | 2.1 | 2 |
| 54 | Neural network tokamak equilibria with incompressible flows. Physics of Plasmas, 2022, 29, 022506. | 1.9 | 2 |

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|---|---|---|---|
| 55 | Negative-energy perturbations in cylindrical equilibria with a radial electric field. Physical Review E, 1997, 56, 5979-5989. | 2.1 | 1 |
| 56 | Cross-helicity and magnetized Trkal flows. Physics of Plasmas, 2003, 10, 4897-4898. | 1.9 | 1 |
| 57 | Axisymmetric equilibria with anisotropic resistivity and toroidal flow. Journal of Plasma Physics, 2006, 72, 213. | 2.1 | 1 |
| 58 | Two-fluid tokamak equilibria with reversed magnetic shear and sheared flow. Journal of Plasma Physics, 2007, 73, 347-366. | 2.1 | 1 |
| 59 | Vlasov versus reduced kinetic theories for helically symmetric equilibria. Physics of Plasmas, 2013, 20, 042508. | 1.9 | 1 |
| 60 | Certain clarifications on the resistive wall mode theorem and extensions. Physics of Plasmas, 2022, 29, 024502. | 1.9 | 1 |
| 61 | Three dimensional ideal MHD equilibria with non-parallel flow and pressure anisotropy. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 437, 128086. | 2.1 | 1 |
| 62 | Time-Dependent Net Core Breeding Gain of Fusion-Fission Symbiotic Systems. Fusion Science and Technology, 1986, 10, 149-153. | 0.6 | 0 |
| 63 | A potential mechanism for the creation of reversed-magnetic-shear transport barriers in tokamaks. Physics of Plasmas, 1999, 6, 3226-3232. | 1.9 | 0 |
| 64 | On the existence of resistive magnetohydrodynamic equilibria. Journal of Plasma Physics, 2007, 73, 285-287. | 2.1 | 0 |
| 65 | Toroidal equilibrium states with reversed magnetic shear and parallel flow in connection with the formation of Internal Transport Barriers. Journal of Plasma Physics, 2015, 81, . | 2.1 | 0 |
| 66 | Analytic axisymmetric equilibria with pressure anisotropy and non-parallel flow. Plasma Physics and Controlled Fusion, 2017, 59, 102001. | 2.1 | 0 |
| 67 | A generalized Grad-Shafranov equation with plasma flow under a conformal coordinate transformation. Physics of Plasmas, 2018, 25, . | 1.9 | 0 |
| 68 | Tokamak equilibria with incompressible flow parallel to the magnetic field and pressure anisotropy. AIP Advances, 2021, 11, 065231. | 1.3 | 0 |