

# Donald N. DeWitt, PhD

## List of Publications by Year in descending order

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Version: 2024-02-01

13  
papers

57  
citations

1684188

5  
h-index

1588992

8  
g-index

13  
all docs

13  
docs citations

13  
times ranked

14  
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological meaning of the slope of the Kolmogorov spectrum of magnetic turbulence: M5-invariant of magnetic lines and its combinatorial formula. Journal of Geometry and Physics, 2022, 178, 104583.	1.4	1
2	On the Number of the Classes of Topological Conjugacy of Pixton Diffeomorphisms. Qualitative Theory of Dynamical Systems, 2021, 20, 1.	1.7	4
3	On a higher integral invariant for closed magnetic lines, revisited. Journal of Geometry and Physics, 2021, 170, 104379.	1.4	2
4	Topological meaning of the slope of the Kolmogorov spectrum of magnetic turbulence. Theoretical and Mathematical Physics(Russian Federation), 2021, 209, 1620-1632.	0.9	1
5	Magnetic helicity flux for mean magnetic field equations. Theoretical and Mathematical Physics(Russian Federation), 2020, 204, 947-956.	0.9	6
6	Knot Invariants in Geodesic Flows. Proceedings of the Steklov Institute of Mathematics, 2020, 308, 42-55.	0.3	1
7	Dispersion of the Arnold's Asymptotic Ergodic Hopf Invariant and a Formula for Its Calculation. Arnold Mathematical Journal, 2020, 6, 199-211.	0.4	6
8	Classification of Harmonic Functions in the Exterior of a Unit Sphere and Its Application to the Description of the External Magnetic Field of the Earth. Geomagnetism and Aeronomy, 2019, 59, 752-760.	0.8	0
9	Minimum quadratic helicity states. Journal of Plasma Physics, 2018, 84, .	2.1	6
10	Higher helicity invariants and solar dynamo. Geomagnetism and Aeronomy, 2017, 57, 113-118.	0.8	4
11	On Arnold's Problem on Higher Analogs of the Asymptotic HOPF Invariant. Journal of Mathematical Sciences, 2015, 208, 24-35.	0.4	5
12	Quadratic helicities and the energy of magnetic fields. Proceedings of the Steklov Institute of Mathematics, 2012, 278, 10-21.	0.3	13
13	Hypermagnetic helicity flux in the nuclei of a new phase in the electroweak phase transition. JETP Letters, 2010, 91, 215-218.	1.4	8