

Journals in Differential Geometry, Integrable Systems, and Mathematical Physics

Below is a unified list of journals relevant for differential geometry, integrable systems, nonlinear PDE, geometric mechanics, and mathematical physics. They are grouped by MEiN score and accompanied by a heuristic “Prestige” rating (0–10) and a short list of keywords.

MEiN 200-point Journals

Journal	Area	Keywords / Topics	MEiN	Prestige
Annals of Mathematics	Pure mathematics	Top pure mathematics, geometry, analysis, PDE, topology	200	10
Inventiones Mathematicae	Pure mathematics	Deep geometry, analysis, moduli spaces, Lie theory	200	10
Journal of Differential Geometry	Differential geometry	Differential geometry, geometric flows, curvature, topology	200	10
Geometry & Topology	Geometry / topology	Topology, geometry, manifolds, homotopy theory	200	9
Geometric and Functional Analysis (GAFA)	Geometric analysis	Geometric analysis, PDE, functional analysis	200	10
Compositio Mathematica	Algebra / geometry	Algebraic and complex geometry, number theory, moduli spaces	200	9
Duke Mathematical Journal	Pure mathematics	Analysis, geometry, algebraic topology, geometric PDE	200	9
Journal of the American Mathematical Society (JAMS)	Pure mathematics	Foundational mathematics, geometry, algebra, analysis	200	10
Journal of the European Mathematical Society (JEMS)	General mathematics	Geometry, analysis, topology, modern geometric PDE	200	9
Publications Mathématiques de l’IHÉS	Geometry / analysis	High-level geometry, gauge theory, moduli, geometric analysis	200	9

MEiN 140-point Journals

Journal	Area	Keywords / Topics	MEiN	Prestige
Annales de l’Institut Fourier	Analysis / geometry	Geometry, analysis, Lie groups, manifolds	140	8
Annales de l’Institut Henri Poincaré (ANL)	Nonlinear analysis	Nonlinear analysis, PDE, geometric dynamics	140	8
Advances in Differential Equations	ODE / PDE	ODE/PDE, integrability, applied analysis	140	6
Communications in Analysis and Geometry	Geometric analysis	Geometric analysis, curvature, Ricci flows	140	8

Communications in Contemporary Mathematics	Math. physics / geometry	Geometry, mathematical physics, Poisson, integrability	140	8
Communications in Mathematical Physics	Mathematical physics	Mathematical physics, quantum theory, Poisson, symplectic geometry	140	9
Communications in Partial Differential Equations	PDE	Nonlinear PDE, dispersive equations	140	8
Ergodic Theory and Dynamical Systems	Dynamical systems	Dynamical systems, chaos, foliations	140	7
International Mathematics Research Notices (IMRN)	General mathematics	Geometry, analysis, PDE, topology	140	7
Journal of Differential Equations	ODE / PDE	ODE/PDE, Hamiltonian operators, integrability	140	7
Journal of Functional Analysis	Functional analysis	Functional analysis, operators, PDE	140	9
Journal of Mathematical Fluid Mechanics	PDE / fluids	PDE in fluids, geometric continuum mechanics	140	7
Journal of Topology	Topology	Topology, manifolds, geometric methods	140	8
Mathematical Models and Methods in Applied Sciences (M3AS)	Applied analysis	PDE models, Hamiltonian systems, applied geometry	140	8
Mathematical Programming	Optimization	Optimisation, convexity, variational structures	140	9
Mathematics of Computation	Numerical analysis	Numerical PDE/ODE, geometric integrators	140	8
Nonlinear Analysis (TMA)	Nonlinear analysis	Nonlinear analysis, PDE, dynamical equations	140	7
Nonlinear Dynamics	Nonlinear dynamics	Nonlinear systems, chaos, integrable models	140	6
SIAM Journal on Mathematical Analysis	Analysis / PDE	Analysis, PDE, variational structures	140	8
SIAM Journal on Numerical Analysis	Numerical analysis	Numerical analysis, PDE schemes	140	8
SIAM Journal on Optimization	Optimization	Optimization, convex geometry, dynamics	140	8
SIAM Journal on Scientific Computing	Scientific computing	Scientific computing, PDE simulation	140	8
Journal of the London Mathematical Society	General mathematics	Geometry, analysis, algebra, number theory	140	8

MEiN 100-point Journals

Journal	Area	Keywords / Topics	MEiN	Prestige
Journal of Nonlinear Science	Nonlinear dynamics	Nonlinear dynamics, chaos, integrability	100	8
Journal of Physics A: Mathematical and Theoretical	Math. physics	Integrability, Lie algebras, quantum models	100	7
Journal of Dynamics and Differential Equations	Dynamical systems	Dynamical systems, nonlinear ODE/PDE	100	7

Applicable Analysis	Applied analysis	Applied analysis, structured PDE	100	6
Applied Mathematics Letters	Applied analysis	Short papers in differential equations and applied analysis	100	5
Complex Analysis and Operator Theory	Complex analysis / operators	Operator theory, complex analysis, PDE	100	6
Discrete and Continuous Dynamical Systems A	Dynamical systems	Dynamical systems, control, nonlinear equations	100	6
Electronic Journal of Differential Equations	ODE / PDE	ODE/PDE, nonlinear equations	100	4
Integral Equations and Operator Theory	Integral equations / operators	Integral equations, operator theory	100	6
Inverse Problems	Analysis / geometry	Inverse PDE problems, geometric analysis, scattering	100	8
Nonlinearity	Nonlinear / integrable systems	Integrability, solitons, geometric PDE	100	8
Journal of Evolution Equations	PDE	Evolutionary PDE, geometric flows, dispersion	100	7
Annali di Matematica Pura ed Applicata	Pure mathematics	Pure mathematics, geometry, analysis	100	7
Rendiconti di Matematica	Geometry / analysis	Classical geometry and analysis	100	6
Journal of Geometric Analysis	Geometric analysis	Geometric analysis, curvature PDE, flows, inequalities	100	8
Letters in Mathematical Physics	Mathematical physics	Short papers in mathematical physics, symmetries, integrability	100	7
Communications in Mathematical Sciences	Mathematics / applications	Geometric PDE, spectral theory, inverse problems, mechanics	100	7
Communications in Nonlinear Science and Numerical Simulation (CNSNS)	Nonlinear systems	Nonlinear systems, soliton numerics, nonlinear waves, chaos	100	7
Regular and Chaotic Dynamics	Hamiltonian dynamics	Hamiltonian dynamics, chaos, symplectic geometry	100	7

Selected high-quality MEiN 70-point Journal

Journal	Area	Keywords / Topics	MEiN	Prestige
SIGMA – Symmetry, Integrability and Geometry: Methods and Applications	Geometry / integrable systems	Lax pairs, Lie algebras, Poisson geometry, soliton theory, Hamiltonian systems	70	7–8
Journal of Geometry and Physics	Geom. / math physics	Classical/quantum mechanics; Hamiltonian systems; multisymplectic geometry	70	7
Journal of Mathematical Physics	Math physics	Integrable systems; operator theory; quantization; geometric mechanics	70	6–7
Differential Geometry and its Applications	Differential geometry	Connections; tensor geometry; geometric PDE; curvature structures	70	6–7

Reports on Mathematical Physics	Math physics	Geometrical mechanics; Poisson/Lie structures; classical + quantum physics	70	6–7
Rendiconti di Matematica	Geometry / analysis	Classical geometry; Lie groups; variational problems; PDE	70	6
Chaos, Solitons and Fractals	Nonlinear science	Nonlinear waves; chaos; fractal structures; some integrable models	70	5–6
