

# Tamara Grava

## List of Publications by Year in descending order

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citations

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#	ARTICLE	IF	CITATIONS
1	On Universality of Critical Behavior in the Focusing Nonlinear Schrödinger Equation, Elliptic Umbilic Catastrophe and the Tricritical Solution to the Painlevé-I Equation. <i>Journal of Nonlinear Science</i> , 2009, 19, 57-94.	2.1	97
2	Numerical solution of the small dispersion limit of Korteweg-de Vries and Whitham equations. <i>Communications on Pure and Applied Mathematics</i> , 2007, 60, 1623-1664.	3.1	59
3	Painlevé II asymptotics near the leading edge of the oscillatory zone for the Korteweg-de Vries equation in the small dispersion limit. <i>Communications on Pure and Applied Mathematics</i> , 2010, 63, 203-232.	3.1	46
4	Universality of the Break-up Profile for the KdV Equation in the Small Dispersion Limit Using the Riemann-Hilbert Approach. <i>Communications in Mathematical Physics</i> , 2009, 286, 979-1009.	2.2	45
5	The generation, propagation, and extinction of multiphases in the KdV zero-dispersion limit. <i>Communications on Pure and Applied Mathematics</i> , 2002, 55, 1569-1639.	3.1	44
6	Solitonic Asymptotics for the Korteweg-de Vries Equation in the Small Dispersion Limit. <i>SIAM Journal on Mathematical Analysis</i> , 2010, 42, 2132-2154.	1.9	30
7	A numerical study of the small dispersion limit of the Korteweg-de Vries equation and asymptotic solutions. <i>Physica D: Nonlinear Phenomena</i> , 2012, 241, 2246-2264.	2.8	29
8	On Critical Behaviour in Systems of Hamiltonian Partial Differential Equations. <i>Journal of Nonlinear Science</i> , 2015, 25, 631-707.	2.1	24
9	Asymptotics for the Partition Function in Two-Cut Random Matrix Models. <i>Communications in Mathematical Physics</i> , 2015, 339, 513-587.	2.2	24
10	Numerical Study of Breakup in Generalized Korteweg-de Vries and Kawahara Equations. <i>SIAM Journal on Applied Mathematics</i> , 2011, 71, 983-1008.	1.8	20
11	On the Long-Time Asymptotic Behavior of the Modified Korteweg-de Vries Equation with Step-like Initial Data. <i>SIAM Journal on Mathematical Analysis</i> , 2020, 52, 5892-5993.	1.9	18
12	Rigorous Asymptotics of a KdV Soliton Gas. <i>Communications in Mathematical Physics</i> , 2021, 384, 733-784.	2.2	17
13	Modulation of the Camassa-Holm equation and reciprocal transformations. <i>Annales De L'Institut Fourier</i> , 2005, 55, 1803-1834.	0.6	17
14	From the Solution of the Tsarev System to the Solution of the Whitham Equations. <i>Mathematical Physics Analysis and Geometry</i> , 2001, 4, 65-96.	1.0	14
15	Orthogonal Polynomials for a Class of Measures with Discrete Rotational Symmetries in the Complex Plane. <i>Constructive Approximation</i> , 2017, 46, 109-169.	3.0	14
16	On critical behaviour in generalized Kadomtsev-Petviashvili equations. <i>Physica D: Nonlinear Phenomena</i> , 2016, 333, 157-170.	2.8	13
17	Initial value problem of the Whitham equations for the Camassa-Holm equation. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 55-66.	2.8	12
18	Shock formation in the dispersionless Kadomtsev-Petviashvili equation. <i>Nonlinearity</i> , 2016, 29, 1384-1416.	1.4	12

#	ARTICLE	IF	CITATIONS
19	Laguerre Ensemble: Correlators, Hurwitz Numbers and Hodge Integrals. <i>Annales Henri Poincare</i> , 2020, 21, 3285-3339.	1.7	12
20	Entanglement of Two Disjoint Intervals in Conformal Field Theory and the 2D Coulomb Gas on a Lattice. <i>Physical Review Letters</i> , 2021, 127, 141605.	7.8	12
21	Riemann-Hilbert problem for the small dispersion limit of the KdV equation and linear overdetermined systems of Euler-Poisson-Darboux type. <i>Communications on Pure and Applied Mathematics</i> , 2002, 55, 395-430.	3.1	10
22	Spatial structure of shock formation. <i>Journal of Fluid Mechanics</i> , 2017, 820, 208-231.	3.4	10
23	Adiabatic Invariants for the FPUT and Toda Chain in the Thermodynamic Limit. <i>Communications in Mathematical Physics</i> , 2020, 380, 811-851.	2.2	9
24	Existence of a global solution of the Whitham equations. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , 2000, 122, 46-57.	0.9	8
25	Reciprocal transformations and flat metrics on Hurwitz spaces. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 10769-10790.	2.1	8
26	Numerical study of the Kadomtsev-Petviashvili equation and dispersive shock waves. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018, 474, 20170458.	2.1	8
27	A representation of joint moments of CUE characteristic polynomials in terms of Painlevé functions. <i>Nonlinearity</i> , 2019, 32, 4033-4078.	1.4	8
28	Jacobi Ensemble, Hurwitz Numbers and Wilson Polynomials. <i>Letters in Mathematical Physics</i> , 2021, 111, 1.	1.1	8
29	On the Triconfluent Solutions of $P_{\mathbb{Z}^2}$ . <i>Constructive Approximation</i> , 2015, 41, 425-466.	3.0	7
30	Eigenvalue correlations on hyperelliptic Riemann surfaces. <i>Journal of Physics A</i> , 2002, 35, L45-L49.	1.6	6
31	Whitham Modulation Equations and Application to Small Dispersion Asymptotics and Long Time Asymptotics of Nonlinear Dispersive Equations. <i>Lecture Notes in Physics</i> , 2016, , 309-335.	0.7	6
32	Partition function for multi-cut matrix models. <i>Journal of Physics A</i> , 2006, 39, 8905-8919.	1.6	5
33	Numerical Solution of the Small Dispersion Limit of the Camassa-Holm and Whitham Equations and Multiscale Expansions. <i>SIAM Journal on Applied Mathematics</i> , 2010, 70, 2797-2821.	1.8	5
34	Painlevé IV Critical Asymptotics for Orthogonal Polynomials in the Complex Plane. <i>Symmetry, Integrability and Geometry: Methods and Applications (SIGMA)</i> , 0, , .	0.5	5
35	Whitham Equations, Bergman Kernel and Lax-Levermore Minimizer. <i>Acta Applicandae Mathematicae</i> , 2004, 82, 1-86.	1.0	4
36	Large parameter behavior of equilibrium measures. <i>Communications in Mathematical Sciences</i> , 2006, 4, 551-573.	1.0	4

#	ARTICLE	IF	CITATIONS
37	On the Tracy-Widom $\hat{I}^2$ Distribution for $\hat{I}^2=6$ . Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 0, , .	0.5	4
38	Correlation Functions for a Chain of Short Range Oscillators. Journal of Statistical Physics, 2021, 183, 1.	1.2	3
39	Bound to the number of oscillatory phases in the solution of the Whitham-KdV equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 254, 263-268.	2.1	0
40	The KdV Hierarchy: Universality and a Painlevé Transcendent. International Mathematics Research Notices, 2012, 2012, 5063-5099.	1.0	0
41	Bifurcation diagram of a one-parameter family of dispersive waves. Matematica Contemporanea, 2000, 18, .	0.0	0