

# Irma Chacn

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51  
papers

460  
citations

14  
h-index

19  
g-index

61  
ext. papers

538  
ext. citations

2.2  
avg, IF

4.19  
L-index

#	Paper	IF	Citations
51	Energy Spectra of Ensemble of Nonlinear Capillary Waves on a Fluid. <i>Journal of Marine Science and Engineering</i> , <b>2021</b> , 9, 1422	2.4	0
50	Dispersive focusing in fractional Korteweg-de Vries-type equations. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2020</b> , 53, 345703	2	0
49	Resonance Enhancement by Suitably Chosen Frequency Detuning. <i>Mathematics</i> , <b>2020</b> , 8, 450	2.3	0
48	Formation of the Dynamic Energy Cascades in Quartic and Quintic Generalized KdV Equations. <i>Symmetry</i> , <b>2020</b> , 12, 1254	2.7	0
47	Modular Hopf equation. <i>Applied Mathematics Letters</i> , <b>2019</b> , 97, 1-5	3.5	0
46	Drifting breathers and Fermi-Pasta-Ulam paradox for water waves. <i>Wave Motion</i> , <b>2019</b> , 90, 168-174	1.8	3
45	Extended criterion for the modulation instability. <i>New Journal of Physics</i> , <b>2019</b> , 21, 033029	2.9	4
44	Constructive Study of Modulational Instability in Higher Order Korteweg-de Vries Equations. <i>Fluids</i> , <b>2019</b> , 4, 54	1.6	3
43	Conditions for modulation instability in higher order Korteweg-de Vries equations. <i>Applied Mathematics Letters</i> , <b>2019</b> , 88, 28-32	3.5	9
42	Single evolution equation in a light-matter pairing system. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2018</b> , 51, 125201	2	0
41	Direct dynamical energy cascade in the modified KdV equation. <i>Physica D: Nonlinear Phenomena</i> , <b>2015</b> , 297, 76-87	3.3	6
40	Energy spectrum of the ensemble of weakly nonlinear gravity-capillary waves on a fluid surface. <i>Journal of Experimental and Theoretical Physics</i> , <b>2014</b> , 119, 359-365	1	4
39	Observation of the inverse energy cascade in the modified Korteweg-de Vries equation. <i>Europhysics Letters</i> , <b>2014</b> , 107, 14001	1.6	5
38	Universal power law for the energy spectrum of breaking Riemann waves. <i>JETP Letters</i> , <b>2013</b> , 98, 237-241.	1.2	8
37	Time scales and structures of wave interaction exemplified with water waves. <i>Europhysics Letters</i> , <b>2013</b> , 102, 44005	1.6	11
36	A Constructive Method for Computing Generalized Manley-Rowe Constants of Motion. <i>Communications in Computational Physics</i> , <b>2013</b> , 14, 1094-1102	2.4	0
35	Fourier spectrum and shape evolution of an internal Riemann wave of moderate amplitude. <i>Nonlinear Processes in Geophysics</i> , <b>2013</b> , 20, 571-580	2.9	4

34	Energy transport in weakly nonlinear wave systems with narrow frequency band excitation. <i>Physical Review E</i> , <b>2012</b> , 86, 041129	2.4	9
33	Energy spectra of 2D gravity and capillary waves with narrow frequency band excitation. <i>Europhysics Letters</i> , <b>2012</b> , 97, 30004	1.6	11
32	Resonance Clustering in Wave Turbulent Regimes: Integrable Dynamics. <i>Communications in Computational Physics</i> , <b>2011</b> , 10, 1211-1240	2.4	17
31	Dynamical cascade generation as a basic mechanism of Benjamin-Feir instability. <i>Europhysics Letters</i> , <b>2011</b> , 95, 30003	1.6	11
30	Nonlinear Resonance Analysis: Theory, Computation, Applications <b>2010</b> ,		35
29	Dynamics of nonlinear resonances in Hamiltonian systems. <i>Europhysics Letters</i> , <b>2009</b> , 85, 14004	1.6	13
28	Effect of the dynamical phases on the nonlinear amplitudes evolution. <i>Europhysics Letters</i> , <b>2009</b> , 85, 34002	1.6	19
27	Discrete wave turbulence. <i>Europhysics Letters</i> , <b>2009</b> , 87, 44001	1.6	24
26	Nonlinear resonances of water waves. <i>Discrete and Continuous Dynamical Systems - Series B</i> , <b>2009</b> , 12, 607-621	1.3	7
25	Resonant interactions of nonlinear water waves in a finite basin. <i>Physical Review E</i> , <b>2008</b> , 78, 016304	2.4	17
24	Cluster dynamics of planetary waves. <i>Europhysics Letters</i> , <b>2008</b> , 83, 50012	1.6	19
23	Symbolic Computation for Nonlinear Wave Resonances <b>2008</b> , 95-126		6
22	Model of intraseasonal oscillations in earth's atmosphere. <i>Physical Review Letters</i> , <b>2007</b> , 98, 198501	7.4	36
21	Laminated wave turbulence: Generic algorithms iii. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2007</b> , 380, 66-74	3.3	15
20	Cluster formation in mesoscopic systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2007</b> , 385, 527-542	3.3	11
19	Exact and quiresonances in discrete water wave turbulence. <i>Physical Review Letters</i> , <b>2007</b> , 98, 214502	7.4	20
18	Quantifier Elimination for Approximate Factorization of Linear Partial Differential Operators. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 106-115	0.9	
17	LAMINATED WAVE TURBULENCE: GENERIC ALGORITHMS I. <i>International Journal of Modern Physics C</i> , <b>2006</b> , 17, 1579-1596	1.1	16

16	Model of laminated wave turbulence. <i>JETP Letters</i> , <b>2006</b> , 83, 283-287	1.2	19
15	A hierarchy of generalized invariants for linear partial differential operators. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , <b>2006</b> , 147, 839-846	0.7	3
14	Fast Computation Algorithm for Discrete Resonances among Gravity Waves. <i>Journal of Low Temperature Physics</i> , <b>2006</b> , 145, 287-295	1.3	4
13	 <i>Theoretical and Mathematical Physics</i> , <b>2006</b> , 147, 470-478	0.2	
12	Constructively Factoring Linear Partial Differential Operators in Two Variables. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , <b>2005</b> , 145, 1511-1524	0.7	7
11	 <i>Theoretical and Mathematical Physics</i> , <b>2005</b> , 145, 165-180	0.2	1
10	Weakly nonlinear theory of finite-size effects in resonators. <i>Physical Review Letters</i> , <b>1994</b> , 72, 2013-2016	7.4	29
9	Clipping □A new investigation method for PDES in compact domains. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , <b>1994</b> , 99, 675-680	0.7	4
8	Nonlinear interactions of spherical Rossby modes. <i>Dynamics of Atmospheres and Oceans</i> , <b>1993</b> , 18, 235-252		18
7	On properties of weakly nonlinear wave interactions in resonators. <i>Physica D: Nonlinear Phenomena</i> , <b>1991</b> , 54, 125-134	3.3	14
6	Partitioning of ensembles of weakly interacting dispersing waves in resonators into disjoint classes. <i>Physica D: Nonlinear Phenomena</i> , <b>1990</b> , 46, 43-56	3.3	18
5	Kinematics: Wavenumbers30-63		
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