## **Marat Akhmet**

List of Publications by Year in descending order

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201575 276775 2,204 122 27 41 citations h-index g-index papers 131 131 131 459 citing authors docs citations times ranked all docs

#	Article	IF	CITATIONS
1	Dynamics of Shunting Inhibitory Cellular Neural Networks with Variable Two-Component Passive Decay Rates and Poisson Stable Inputs. Symmetry, 2022, 14, 1162.	1.1	6
2	Dynamics of a Recurrent Neural Network with Impulsive Effects and Piecewise Constant Argument. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 540-552.	0.5	0
3	Unpredictable Oscillations for Hopfield-Type Neural Networks with Delayed and Advanced Arguments. Mathematics, 2021, 9, 571.	1.1	15
4	Abstract similarity, fractals and chaos. Discrete and Continuous Dynamical Systems - Series B, 2021, 26, 2479.	0.5	0
5	Modulo Periodic Poisson Stable Solutions of Quasilinear Differential Equations. Entropy, 2021, 23, 1535.	1.1	11
6	Nonautonomous Bifurcations in Nonlinear Impulsive Systems. Differential Equations and Dynamical Systems, 2020, 28, 177-190.	0.5	3
7	Discontinuous Almost Periodic Solutions. Advances in Dynamics, Patterns, Cognition, 2020, , 85-101.	0.2	0
8	Differential Equations with Functional Response on Piecewise Constant Argument. Advances in Dynamics, Patterns, Cognition, 2020, , 143-175.	0.2	0
9	SICNN with Chaotic/Almost Periodic Postsynaptic Currents. Advances in Dynamics, Patterns, Cognition, 2020, , 265-307.	0.2	0
10	Homoclinic Chaos and Almost Periodicity. Advances in Dynamics, Patterns, Cognition, 2020, , 243-263.	0.2	0
11	Almost Periodicity, Chaos, and Asymptotic Equivalence. Advances in Dynamics, Patterns, Cognition, 2020, , .	0.2	12
12	Generalities for Impulsive Systems. Advances in Dynamics, Patterns, Cognition, 2020, , 43-67.	0.2	0
13	Inertial Neural Networks with Unpredictable Oscillations. Mathematics, 2020, 8, 1797.	1.1	10
14	Unpredictable Solutions of Linear Impulsive Systems. Mathematics, 2020, 8, 1798.	1.1	9
15	Strongly Unpredictable Oscillations of Hopfield-Type Neural Networks. Mathematics, 2020, 8, 1791.	1.1	7
16	Shunting inhibitory cellular neural networks with strongly unpredictable oscillations. Communications in Nonlinear Science and Numerical Simulation, 2020, 89, 105287.	1.7	19
17	Quasilinear differential equations with strongly unpredictable solutions. Carpathian Journal of Mathematics, 2020, 36, 341-349.	0.4	13
18	Almost Periodicity in Chaos. Advances in Dynamics, Patterns, Cognition, 2020, , 223-242.	0.2	O

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19	Almost Periodic Solutions of Retarded SICNN with Functional Response on Piecewise Constant Argument. Advances in Dynamics, Patterns, Cognition, 2020, , 177-200.	0.2	O
20	Bohr and Bochner Discontinuities. Advances in Dynamics, Patterns, Cognition, 2020, , 103-121.	0.2	0
21	Global Weather and Climate in the Light of El Ni $ ilde{A}$ ±o-Southern Oscillation. Advances in Dynamics, Patterns, Cognition, 2020, , 139-172.	0.2	0
22	Unpredictability in Topological Dynamics. Advances in Dynamics, Patterns, Cognition, 2020, , 57-79.	0.2	0
23	The Unpredictable Point and Poincaré Chaos. Advances in Dynamics, Patterns, Cognition, 2020, , 15-23.	0.2	0
24	Li–Yorke Chaos in Hybrid Systems on a Time Scale. Advances in Dynamics, Patterns, Cognition, 2020, , 109-124.	0.2	0
25	Fractals: Dynamics in the Geometry. Advances in Dynamics, Patterns, Cognition, 2020, , 173-202.	0.2	0
26	Homoclinic and Heteroclinic Motions in Economic Models. Advances in Dynamics, Patterns, Cognition, 2020, , 125-137.	0.2	0
27	Strongly Unpredictable Solutions. Advances in Dynamics, Patterns, Cognition, 2020, , 97-108.	0.2	1
28	Unpredictable Solutions of Hyperbolic Linear Equations. Advances in Dynamics, Patterns, Cognition, 2020, , 81-95.	0.2	0
29	Unpredictability in Bebutov Dynamics. Advances in Dynamics, Patterns, Cognition, 2020, , 25-40.	0.2	0
30	Abstract Similarity, Fractals, and Chaos. Advances in Dynamics, Patterns, Cognition, 2020, , 203-221.	0.2	3
31	A Novel Deterministic Chaos and Discrete Random Processes. , 2020, , .		1
32	Generation of fractals as Duffing equation orbits. Chaos, 2019, 29, 053113.	1.0	4
33	Unpredictable solutions of linear differential and discrete equations. Turkish Journal of Mathematics, 2019, 43, 2377-2389.	0.3	14
34	Domain-Structured Chaos in a Hopfield Neural Network. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1950205.	0.7	10
35	Extension of sea surface temperature unpredictability. Ocean Dynamics, 2019, 69, 145-156.	0.9	4
36	Neural Networks with Poincare Chaos. , 2019, , .		0

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37	Non-autonomous equations with unpredictable solutions. Communications in Nonlinear Science and Numerical Simulation, 2018, 59, 657-670.	1.7	31
38	A Hopfield neural network with multi-compartmental activation. Neural Computing and Applications, 2018, 29, 815-822.	3.2	5
39	Exponential stability of periodic solutions of recurrent neural networks with functional dependence on piecewise constant argument. Turkish Journal of Mathematics, 2018, 42, 272-292.	0.3	9
40	Mapping Fatou-Julia Iterations. , 2018, , .		0
41	A singularly perturbed differential equation with piecewise constant argument of generalized type. Turkish Journal of Mathematics, 2018, 42, 1680-1685.	0.3	4
42	Perturbed Li–Yorke homoclinic chaos. Electronic Journal of Qualitative Theory of Differential Equations, 2018, , 1-18.	0.2	2
43	Almost Periodicity in Chaos. Discontinuity, Nonlinearity, and Complexity, 2018, 7, 15-29.	0.1	6
44	Periodic motions generated from non-autonomous grazing dynamics. Communications in Nonlinear Science and Numerical Simulation, 2017, 49, 48-62.	1.7	3
45	Poincar $\tilde{A}$ $\otimes$ chaos and unpredictable functions. Communications in Nonlinear Science and Numerical Simulation, 2017, 48, 85-94.	1.7	39
46	Chattering as a singular problem. Nonlinear Dynamics, 2017, 90, 2797-2812.	2.7	3
47	Non-autonomous grazing phenomenon. Nonlinear Dynamics, 2017, 87, 1973-1984.	2.7	2
48	Existence of unpredictable solutions and chaos. Turkish Journal of Mathematics, 2017, 41, 254-266.	0.3	23
49	Persistence of Li–Yorke chaos in systems with relay. Electronic Journal of Qualitative Theory of Differential Equations, 2017, , 1-18.	0.2	3
50	Unpredictable points and chaos. Communications in Nonlinear Science and Numerical Simulation, 2016, 40, 1-5.	1.7	44
51	Discontinuous dynamics with grazing points. Communications in Nonlinear Science and Numerical Simulation, 2016, 38, 218-242.	1.7	10
52	Almost periodic solutions of retarded SICNNs with functional response on piecewise constant argument. Neural Computing and Applications, 2016, 27, 2483-2495.	3.2	6
53	Economic Models with Exogenous Continuous/Discrete Shocks. Nonlinear Physical Science, 2016, , 265-310.	0.2	0
54	Li-Yorke chaos generation by SICNNs with chaotic/almost periodic postsynaptic currents. Neurocomputing, 2016, 173, 580-594.	3.5	13

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55	Chaos Generation in Continuous/Discrete-Time Models. Nonlinear Physical Science, 2016, , 183-264.	0.2	1
56	Replication of Chaos in Neural Networks, Economics and Physics. Nonlinear Physical Science, 2016, , .	0.2	25
57	Chaos by Neural Networks. Nonlinear Physical Science, 2016, , 311-405.	0.2	1
58	Input-Output Mechanism of the Discrete Chaos Extension. Advances in Dynamics, Patterns, Cognition, 2016, , 203-233.	0.2	4
59	Homoclinic and Heteroclinic Motions in Economic Models with Exogenous Shocks. Applied Mathematics and Nonlinear Sciences, 2016, 1, 1-10.	0.9	26
60	Impulsive SICNNs with chaotic postsynaptic currents. Discrete and Continuous Dynamical Systems - Series B, 2016, 21, 1119-1148.	0.5	7
61	Chaotification of Impulsive Systems. Nonlinear Physical Science, 2016, , 157-181.	0.2	0
62	Chaos Extension in Hyperbolic Systems. Nonlinear Physical Science, 2016, , 101-125.	0.2	0
63	The Prevalence of Weather Unpredictability. Nonlinear Physical Science, 2016, , 407-440.	0.2	0
64	Entrainment by Chaos. Nonlinear Physical Science, 2016, , 127-156.	0.2	2
65	Exogenous Versus Endogenous for Chaotic Business Cycles. Discontinuity, Nonlinearity, and Complexity, 2016, 5, 101-119.	0.1	2
66	Li–Yorke Chaos in Hybrid Systems on a Time Scale. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1540024.	0.7	6
67	Extension of Lorenz Unpredictability. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550126.	0.7	9
68	Attraction of Li–Yorke chaos by retarded SICNNs. Neurocomputing, 2015, 147, 330-342.	3.5	15
69	Extension of spatiotemporal chaos in glow discharge-semiconductor systems. Chaos, 2014, 24, 043127.	1.0	6
70	Entrainment by Chaos. Journal of Nonlinear Science, 2014, 24, 411-439.	1.0	28
71	Neural Networks with Discontinuous/Impact Activations. Advances in Dynamics, Patterns, Cognition, 2014, , .	0.2	27
72	Chaotification of Impulsive Systems by Perturbations. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1450078.	0.7	11

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73	Chaos in economic models with exogenous shocks. Journal of Economic Behavior and Organization, 2014, 106, 95-108.	1.0	26
74	Generation of cyclic/toroidal chaos by Hopfield neural networks. Neurocomputing, 2014, 145, 230-239.	3.5	28
75	Bifurcation of discontinuous limit cycles of the Van der Pol equation. Mathematics and Computers in Simulation, 2014, 95, 39-54.	2.4	8
76	Impulsive Differential Equations. Advances in Dynamics, Patterns, Cognition, 2014, , 67-83.	0.2	1
77	Equilibria of Neural Networks with Impact Activations and Piecewise Constant Argument. Advances in Dynamics, Patterns, Cognition, 2014, , 93-114.	0.2	1
78	Shunting inhibitory cellular neural networks with chaotic external inputs. Chaos, 2013, 23, 023112.	1.0	30
79	Replication of chaos. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 2626-2666.	1.7	47
80	Quasilinear retarded differential equations with functional dependence on piecewise constant argument. Communications on Pure and Applied Analysis, 2013, 13, 929-947.	0.4	15
81	Period-doubling route to chaos in shunting inhibitory cellular neural networks. , 2013, , .		1
82	Global exponential stability of neural networks with non-smooth and impact activations. Neural Networks, 2012, 34, 18-27.	3.3	17
83	Self-synchronization of the integrate-and-fire pacemaker model with continuous couplings. Nonlinear Analysis: Hybrid Systems, 2012, 6, 730-740.	2.1	6
84	Chaotic period-doubling and OGY control for the forced Duffing equation. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 1929-1946.	1.7	50
85	Nonlinear Hybrid Continuous/Discrete-Time Models. Atlantis Studies in Mathematics for Engineering and Science, 2011, , .	0.1	78
86	Method of Lyapunov functions for differential equations with piecewise constant delay. Journal of Computational and Applied Mathematics, 2011, 235, 4554-4560.	1.1	23
87	Stability in cellular neural networks with a piecewise constant argument. Journal of Computational and Applied Mathematics, 2010, 233, 2365-2373.	1.1	61
88	A prototype compartmental model of blood pressure distribution. Nonlinear Analysis: Real World Applications, 2010, 11, 1249-1257.	0.9	6
89	Differential equations with state-dependent piecewise constant argument. Nonlinear Analysis: Theory, Methods & Applications, 2010, 72, 4200-4210.	0.6	24
90	Stability analysis of recurrent neural networks with piecewise constant argument of generalized type. Neural Networks, 2010, 23, 805-811.	3.3	68

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91	Impulsive Hopfield-type neural network system with piecewise constant argument. Nonlinear Analysis: Real World Applications, 2010, 11, 2584-2593.	0.9	57
92	Homoclinical structure of the chaotic attractor. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 819-822.	1.7	18
93	Principles of Discontinuous Dynamical Systems. , 2010, , .		155
94	DYNAMICAL SYNTHESIS OF QUASI-MINIMAL SETS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 2423-2427.	0.7	33
95	Bifurcation of three-dimensional discontinuous cycles. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, e2090-e2102.	0.6	5
96	Differential equations on variable time scales. Nonlinear Analysis: Theory, Methods & Applications, 2009, 70, 1175-1192.	0.6	31
97	The complex dynamics of the cardiovascular system. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, e1922-e1931.	0.6	13
98	Bifurcation of a non-smooth planar limit cycle from a vertex. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, e2723-e2733.	0.6	24
99	Li–Yorke chaos in the system with impacts. Journal of Mathematical Analysis and Applications, 2009, 351, 804-810.	0.5	59
100	Devaney's chaos of a relay system. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 1486-1493.	1.7	53
101	SHADOWING AND DYNAMICAL SYNTHESIS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 3339-3346.	0.7	14
102	Lyapunov-Razumikhin method for differential equations with piecewise constant argument. Discrete and Continuous Dynamical Systems, 2009, 25, 457-466.	0.5	41
103	On periodic solutions of differential equations with piecewise constant argument. Computers and Mathematics With Applications, 2008, 56, 2034-2042.	1.4	19
104	Periodic solutions of the hybrid system with small parameter. Nonlinear Analysis: Hybrid Systems, 2008, 2, 532-543.	2.1	17
105	Almost periodic solutions of differential equations with piecewise constant argument of generalized type. Nonlinear Analysis: Hybrid Systems, 2008, 2, 456-467.	2.1	34
106	Asymptotic behavior of solutions of differential equations with piecewise constant arguments. Applied Mathematics Letters, 2008, 21, 951-956.	1.5	27
107	Asymptotic behavior of linear impulsive integro-differential equations. Computers and Mathematics With Applications, 2008, 56, 1071-1081.	1.4	7
108	Stability of differential equations with piecewise constant arguments of generalized type. Nonlinear Analysis: Theory, Methods & Applications, 2008, 68, 794-803.	0.6	76

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109	Integral manifolds of differential equations with piecewise constant argument of generalized type. Nonlinear Analysis: Theory, Methods & Applications, 2007, 66, 367-383.	0.6	83
110	Asymptotic equivalence of differential equations and asymptotically almost periodic solutions. Nonlinear Analysis: Theory, Methods & Applications, 2007, 67, 1870-1877.	0.6	15
111	On the reduction principle for differential equations with piecewise constant argument of generalized type. Journal of Mathematical Analysis and Applications, 2007, 336, 646-663.	0.5	73
112	Control and optimal response problems for quasilinear impulsive integrodifferential equations. European Journal of Operational Research, 2006, 169, 1128-1147.	3.5	12
113	Perron's theorem for linear impulsive differential equations with distributed delay. Journal of Computational and Applied Mathematics, 2006, 193, 204-218.	1.1	35
114	The differential equations on time scales through impulsive differential equations. Nonlinear Analysis: Theory, Methods & Applications, 2006, 65, 2043-2060.	0.6	41
115	Boundary value problems for higher order linear impulsive differential equations. Journal of Mathematical Analysis and Applications, 2006, 319, 139-156.	0.5	11
116	An impulsive ratio-dependent predator–prey system with diffusion. Nonlinear Analysis: Real World Applications, 2006, 7, 1255-1267.	0.9	76
117	The Sturm-Liouville operator on the space of functions with discontinuity conditions. Computers and Mathematics With Applications, 2006, 51, 889-896.	1.4	1
118	Perturbations and Hopf bifurcation of the planar discontinuous dynamical system. Nonlinear Analysis: Theory, Methods & Applications, 2005, 60, 163-178.	0.6	52
119	On the smoothness of solutions of impulsive autonomous systems. Nonlinear Analysis: Theory, Methods & Applications, 2005, 60, 311-324.	0.6	13
120	The principles of B-smooth discontinuous flows. Computers and Mathematics With Applications, 2005, 49, 981-995.	1.4	20
121	Existence and stability of almost-periodic solutions of quasi-linear differential equations with deviating argument. Applied Mathematics Letters, 2004, 17, 1177-1181.	1.5	10
122	On the general problem of stability for impulsive differential equations. Journal of Mathematical Analysis and Applications, 2003, 288, 182-196.	0.5	69