Vasily E Tarasov

List of Publications by Citations

235 papers	5,702 citations	41 h-index	65 g-index
248 ext. papers	6,487 ext. citations	2.2 avg, IF	7.41 L-index

#	Paper	IF	Citations
235	Fractional Dynamics. *Nonlinear Physical Science*, **2010**,	0.1	328
234	Fractional vector calculus and fractional Maxwell's equations. *Annals of Physics*, **2008**, 323, 2756-2778	2.5	221
233	Fractional hydrodynamic equations for fractal media. *Annals of Physics*, **2005**, 318, 286-307	2.5	162
232	Continuous medium model for fractal media. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2005**, 336, 167-174	2.3	159
231	No violation of the Leibniz rule. No fractional derivative. *Communications in Nonlinear Science and Numerical Simulation*, **2013**, 18, 2945-2948	3.7	153
230	Fractional Ginzburg-Landau equation for fractal media. *Physica A: Statistical Mechanics and Its Applications*, **2005**, 354, 249-261	3.3	145
229	Continuous limit of discrete systems with long-range interaction. *Journal of Physics A*, **2006**, 39, 14895-14910		125
228	Fractional dynamics of systems with long-range interaction. *Communications in Nonlinear Science and Numerical Simulation*, **2006**, 11, 885-898	3.7	124
227	Fractional dynamics of coupled oscillators with long-range interaction. *Chaos*, **2006**, 16, 023110	3.3	113
226	No nonlocality. No fractional derivative. *Communications in Nonlinear Science and Numerical Simulation*, **2018**, 62, 157-163	3.7	111
225	REVIEW OF SOME PROMISING FRACTIONAL PHYSICAL MODELS. *International Journal of Modern Physics B*, **2013**, 27, 1330005	1.1	101
224	Fractional generalization of Liouville equations. *Chaos*, **2004**, 14, 123-7	3.3	89
223	Fractional Vector Calculus. *Nonlinear Physical Science*, **2010**, 241-264	0.1	84
222	Fractional integro-differential equations for electromagnetic waves in dielectric media. *Theoretical and Mathematical Physics(Russian Federation)*, **2009**, 158, 355-359	0.7	83
221	On chain rule for fractional derivatives. *Communications in Nonlinear Science and Numerical Simulation*, **2016**, 30, 1-4	3.7	80
220	Fractional generalization of gradient and Hamiltonian systems. *Journal of Physics A*, **2005**, 38, 5929-5943		79
219	Quantization of non-Hamiltonian and dissipative systems. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2001**, 288, 173-182	2.3	69

218	Logistic map with memory from economic model. *Chaos, Solitons and Fractals*, **2017**, 95, 84-91	9.3	67
217	On History of Mathematical Economics: Application of Fractional Calculus. *Mathematics*, **2019**, 7, 509	2.3	63
216	Fractional systems and fractional Bogoliubov hierarchy equations. *Physical Review E*, **2005**, 71, 011102	2.4	63
215	ELECTROMAGNETIC FIELDS ON FRACTALS. *Modern Physics Letters A*, **2006**, 21, 1587-1600	1.3	62
214	Anisotropic fractal media by vector calculus in non-integer dimensional space. *Journal of Mathematical Physics*, **2014**, 55, 083510	1.2	60
213	Dynamics with low-level fractionality. *Physica A: Statistical Mechanics and Its Applications*, **2006**, 368, 399-415	3.3	56
212	Vector calculus in non-integer dimensional space and its applications to fractal media. *Communications in Nonlinear Science and Numerical Simulation*, **2015**, 20, 360-374	3.7	54
211	Concept of dynamic memory in economics. *Communications in Nonlinear Science and Numerical Simulation*, **2018**, 55, 127-145	3.7	53
210	Fractional Liouville and BBGKI equations. *Journal of Physics: Conference Series*, **2005**, 7, 17-33	0.3	53
209	Fractional Fokker-Planck equation for fractal media. *Chaos*, **2005**, 15, 23102	3.3	53
208	Coupled oscillators with power-law interaction and their fractional dynamics analogues. *Communications in Nonlinear Science and Numerical Simulation*, **2007**, 12, 1405-1417	3.7	52
207	Conservation laws and Hamilton's equations for systems with long-range interaction and memory. *Communications in Nonlinear Science and Numerical Simulation*, **2008**, 13, 1860-1878	3.7	52
206	Fractional variations for dynamical systems: Hamilton and Lagrange approaches. *Journal of Physics A*, **2006**, 39, 8409-8425		51
205	Electromagnetic field of fractal distribution of charged particles. *Physics of Plasmas*, **2005**, 12, 082106	2.1	51
204	WAVE EQUATION FOR FRACTAL SOLID STRING. *Modern Physics Letters B*, **2005**, 19, 721-728	1.6	51
203	Map of discrete system into continuous. *Journal of Mathematical Physics*, **2006**, 47, 092901	1.2	50
202	Quantum computer with mixed states and four-valued logic. *Journal of Physics A*, **2002**, 35, 5207-5235		48
201	Time-dependent fractional dynamics with memory in quantum and economic physics. *Annals of Physics*, **2017**, 383, 579-599	2.5	46

200	Macroeconomic models with long dynamic memory: Fractional calculus approach. *Applied Mathematics and Computation*, **2018**, 338, 466-486	2.7	46
199	Non-standard extensions of gradient elasticity: Fractional non-locality, memory and fractality. *Communications in Nonlinear Science and Numerical Simulation*, **2015**, 22, 197-227	3.7	45
198	Lattice fractional calculus. *Applied Mathematics and Computation*, **2015**, 257, 12-33	2.7	45
197	Nonholonomic constraints with fractional derivatives. *Journal of Physics A*, **2006**, 39, 9797-9815		44
196	Fractional Heisenberg equation. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2008**, 372, 2984-2988	2.3	43
195	Fractional power-law spatial dispersion in electrodynamics. *Annals of Physics*, **2013**, 334, 1-23	2.5	41
194	Fractional standard map. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2009**, 374, 279-285	2.3	41
193	Differential equations with fractional derivative and universal map with memory. *Journal of Physics A: Mathematical and Theoretical*, **2009**, 42, 465102	2	41
192	Economic Interpretation of Fractional Derivatives. *Progress in Fractional Differentiation and Applications*, **2017**, 3, 1-6	3.9	41
191	Fractal electrodynamics via non-integer dimensional space approach. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2015**, 379, 2055-2061	2.3	39
190	Electromagnetic waves in non-integer dimensional spaces and fractals. *Chaos, Solitons and Fractals*, **2015**, 81, 38-42	9.3	39
189	Lattice model of fractional gradient and integral elasticity: Long-range interaction of Grünwald-Letnikov-Riesz type. *Mechanics of Materials*, **2014**, 70, 106-114	3.3	38
188	Possible experimental test of continuous medium model for fractal media. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2005**, 341, 467-472	2.3	38
187	FRACTIONAL DERIVATIVE AS FRACTIONAL POWER OF DERIVATIVE. *International Journal of Mathematics*, **2007**, 18, 281-299	0.5	37
186	Magnetohydrodynamics of fractal media. *Physics of Plasmas*, **2006**, 13, 052107	2.1	37
185	Fractional statistical mechanics. *Chaos*, **2006**, 16, 033108	3.3	36
184	Toward lattice fractional vector calculus. *Journal of Physics A: Mathematical and Theoretical*, **2014**, 47, 355204	2	35
183	Fractional equations of kicked systems and discrete maps. *Journal of Physics A: Mathematical and Theoretical*, **2008**, 41, 435101	2	35

182	Generalized Memory: Fractional Calculus Approach. *Fractal and Fractional*, **2018**, 2, 23	3	35
181	Elasticity for economic processes with memory: fractional differential calculus approach. *Fractional Differential Calculus*, **2016**, 219-232	1.5	34
180	Fractional dissipative standard map. *Chaos*, **2010**, 20, 023127	3.3	33
179	Discrete map with memory from fractional differential equation of arbitrary positive order. *Journal of Mathematical Physics*, **2009**, 50, 122703	1.2	33
178	Exact discretization by Fourier transforms. *Communications in Nonlinear Science and Numerical Simulation*, **2016**, 37, 31-61	3.7	32
177	Lattice with long-range interaction of power-law type for fractional non-local elasticity. *International Journal of Solids and Structures*, **2014**, 51, 2900-2907	3.1	31
176	Psi-series solution of fractional Ginzburg⊡andau equation. *Journal of Physics A*, **2006**, 39, 8395-8407		31
175	Dynamics of the chain of forced oscillators with long-range interaction: from synchronization to chaos. *Chaos*, **2007**, 17, 043124	3.3	30
174	Gravitational Field of Fractal Distribution of Particles. *Celestial Mechanics and Dynamical Astronomy*, **2006**, 94, 1-15	1.4	30
173	Fractional Generalization of Gradient Systems. *Letters in Mathematical Physics*, **2005**, 73, 49-58	1.2	30
172	Fractional-order difference equations for physical lattices and some applications. *Journal of Mathematical Physics*, **2015**, 56, 103506	1.2	29
171	Flow of fractal fluid in pipes: Non-integer dimensional space approach. *Chaos, Solitons and Fractals*, **2014**, 67, 26-37	9.3	28
170	Universal electromagnetic waves in dielectric. *Journal of Physics Condensed Matter*, **2008**, 20, 175223	1.8	28
169	Acoustic waves in fractal media: Non-integer dimensional spaces approach. *Wave Motion*, **2016**, 63, 18-22	1.8	27
168	MULTIPOLE MOMENTS OF FRACTAL DISTRIBUTION OF CHARGES. *Modern Physics Letters B*, **2005**, 19, 1107-1118	1.6	27
167	Pure stationary states of open quantum systems. *Physical Review E*, **2002**, 66, 056116	2.4	27
166	Caputo⊡abrizio operator in terms of integer derivatives: memory or distributed lag?. *Computational and Applied Mathematics*, **2019**, 38, 1	2.4	26
165	TRANSPORT EQUATIONS FROM LIOUVILLE EQUATIONS FOR FRACTIONAL SYSTEMS. *International Journal of Modern Physics B*, **2006**, 20, 341-353	1.1	26

164	Rules for Fractional-Dynamic Generalizations: Difficulties of Constructing Fractional Dynamic Models. *Mathematics*, **2019**, 7, 554	2.3	25
163	Fractional Quantum Field Theory: From Lattice to Continuum. *Advances in High Energy Physics*, **2014**, 2014, 1-14	1	25
162	Exact discretization of Schrödinger equation. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2016**, 380, 68-75	2.3	22
161	Fractional Gradient Elasticity from Spatial Dispersion Law **2014**, 2014, 1-13		22
160	Quantum dissipation from power-law memory. *Annals of Physics*, **2012**, 327, 1719-1729	2.5	22
159	Phase-space metric for non-Hamiltonian systems. *Journal of Physics A*, **2005**, 38, 2145-2155		22
158	Dynamic intersectoral models with power-law memory. *Communications in Nonlinear Science and Numerical Simulation*, **2018**, 54, 100-117	3.7	20
157	Leibniz Rule and Fractional Derivatives of Power Functions. *Journal of Computational and Nonlinear Dynamics*, **2016**, 11,	1.4	20
156	Exact Discrete Analogs of Derivatives of Integer Orders: Differences as Infinite Series. *Journal of Mathematics*, **2015**, 2015, 1-8	1.2	20
155	General lattice model of gradient elasticity. *Modern Physics Letters B*, **2014**, 28, 1450054	1.6	20
154	Lattice Model with Nearest-Neighbor and Next-Nearest-Neighbor Interactions for Gradient Elasticity. *Discontinuity, Nonlinearity, and Complexity*, **2015**, 4, 11-23	1.8	20
153	United lattice fractional integro-differentiation. *Fractional Calculus and Applied Analysis*, **2016**, 19, 625-664	2.7	19
152	Fractional generalization of the quantum Markovian master equation. *Theoretical and Mathematical Physics(Russian Federation)*, **2009**, 158, 179-195	0.7	19
151	Criterion of Existence of Power-Law Memory for Economic Processes. *Entropy*, **2018**, 20,	2.8	18
150	Fractional Dynamics of Relativistic Particle. *International Journal of Theoretical Physics*, **2010**, 49, 293-303	1.1	18
149	Fractional equations of Curie–von Schweidler and Gauss laws. *Journal of Physics Condensed Matter*, **2008**, 20, 145212	1.8	18
148	LIOUVILLE AND BOGOLIUBOV EQUATIONS WITH FRACTIONAL DERIVATIVES. *Modern Physics Letters B*, **2007**, 21, 237-248	1.6	18
147	Stationary states of dissipative quantum systems. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2002**, 299, 173-178	2.3	18

146	Long and Short Memory in Economics: Fractional-Order Difference and Differentiation. *IRA-International Journal of Management & Social Sciences (ISSN 2455-2267)*, **2016**, 5, 327	1	18
145	Geometric interpretation of fractional-order derivative. *Fractional Calculus and Applied Analysis*, **2016**, 19, 1200-1221	2.7	18
144	Fractional Liouville equation on lattice phase-space. *Physica A: Statistical Mechanics and Its Applications*, **2015**, 421, 330-342	3.3	17
143	Lattice model with power-law spatial dispersion for fractional elasticity. *Open Physics*, **2013**, 11,	1.3	17
142	Volume 4 Applications in Physics, Part A **2019**,		17
141	On fractional and fractal formulations of gradient linear and nonlinear elasticity. *Acta Mechanica*, **2019**, 230, 2043-2070	2.1	17
140	Economic Dynamics with Memory **2021**,		17
139	Fractional Mechanics of Elastic Solids: Continuum Aspects. *Journal of Engineering Mechanics - ASCE*, **2017**, 143,	2.4	16
138	Elasticity of fractal materials using the continuum model with non-integer dimensional space. *Comptes Rendus - Mecanique*, **2015**, 343, 57-73	2.1	16
137	Heat transfer in fractal materials. *International Journal of Heat and Mass Transfer*, **2016**, 93, 427-430	4.9	16
136	Fractional dynamics of systems with long-range space interaction and temporal memory. *Physica A: Statistical Mechanics and Its Applications*, **2007**, 383, 291-308	3.3	16
135	CLASSICAL CANONICAL DISTRIBUTION FOR DISSIPATIVE SYSTEMS. *Modern Physics Letters B*, **2003**, 17, 1219-1226	1.6	16
134	General Fractional Dynamics. *Mathematics*, **2021**, 9, 1464	2.3	16
133	Fractional and integer derivatives with continuously distributed lag. *Communications in Nonlinear Science and Numerical Simulation*, **2019**, 70, 125-169	3.7	16
132	Dynamic Keynesian Model of Economic Growth with Memory and Lag. *Mathematics*, **2019**, 7, 178	2.3	15
131	Three-dimensional lattice models with long-range interactions of Grünwald-Letnikov type for fractional generalization of gradient elasticity. *Meccanica*, **2016**, 51, 125-138	2.1	15
130	Path integral for quantum operations. *Journal of Physics A*, **2004**, 37, 3241-3257		15
129	Exact discretization of fractional Laplacian. *Computers and Mathematics With Applications*, **2017**, 73, 855-863	2.7	14

128	Fractional Derivatives and Integrals: What Are They Needed For?. *Mathematics*, **2020**, 8, 164	2.3	14
127	Exact Discretization of an Economic Accelerator and Multiplier with Memory. *Fractal and Fractional*, **2017**, 1, 6	3	14
126	DYNAMICS OF FRACTAL SOLIDS. *International Journal of Modern Physics B*, **2005**, 19, 4103-4114	1.1	14
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124	Volume 5 Applications in Physics, Part B **2019**,		14
123	Self-organization with memory. *Communications in Nonlinear Science and Numerical Simulation*, **2019**, 72, 240-271	3.7	14
122	Non-linear fractional field equations: weak non-linearity at power-law non-locality. *Nonlinear Dynamics*, **2015**, 80, 1665-1672	5	13
121	Large lattice fractional Fokker Planck equation. *Journal of Statistical Mechanics: Theory and Experiment*, **2014**, 2014, P09036	1.9	13
120	Weyl quantization of fractional derivatives. *Journal of Mathematical Physics*, **2008**, 49, 102112	1.2	13
119	Stationary solutions of Liouville equations for non-Hamiltonian systems. *Annals of Physics*, **2005**, 316, 393-413	2.5	13
118	Local Fractional Derivatives of Differentiable Functions are Integer-order Derivatives or Zero. *International Journal of Applied and Computational Mathematics*, **2016**, 2, 195-201	1.3	12
117	Fractional diffusion equations for open quantum system. *Nonlinear Dynamics*, **2013**, 71, 663-670	5	12
116	Chains with the fractal dispersion law. *Journal of Physics A: Mathematical and Theoretical*, **2008**, 41, 035101		12
115	Fokker Planck equation with fractional coordinate derivatives. *Physica A: Statistical Mechanics and Its Applications*, **2008**, 387, 6505-6512	3.3	12
114	Partial fractional derivatives of Riesz type and nonlinear fractional differential equations. *Nonlinear Dynamics*, **2016**, 86, 1745-1759	5	12
113	Fractional econophysics: Market price dynamics with memory effects. *Physica A: Statistical Mechanics and Its Applications*, **2020**, 557, 124865	3.3	11
112	Power-law spatial dispersion from fractional Liouville equation. *Physics of Plasmas*, **2013**, 20, 102110	2.1	11
111	Quantum dissipative systems. I. Canonical quantization and quantum Liouville equation. *Theoretical and Mathematical Physics(Russian Federation)*, **1994**, 100, 1100-1112	0.7	11

110	Interpretation of Fractional Derivatives as Reconstruction from Sequence of Integer Derivatives. *Fundamenta Informaticae*, **2017**, 151, 431-442	1	10
109	Phillips model with exponentially distributed lag and power-law memory. *Computational and Applied Mathematics*, **2019**, 38, 1	2.4	10
108	Logistic equation with continuously distributed lag and application in economics. *Nonlinear Dynamics*, **2019**, 97, 1313-1328	5	10
107	HarrodDomar Growth Model with Memory and Distributed Lag. *Axioms*, **2019**, 8, 9	1.6	10
106	Toward fractional gradient elasticity. *Journal of the Mechanical Behavior of Materials*, **2014**, 23, 41-46	1.9	10
105	Probabilistic Interpretation of Kober Fractional Integral of Non-Integer Order. *Progress in Fractional Differentiation and Applications*, **2019**, 5, 1-5	3.9	10
104	General Fractional Vector Calculus. *Mathematics*, **2021**, 9, 2816	2.3	10
103	Comments on The Minkowski's spaceTime is consistent with differential geometry of fractional order[Phys. Lett. A 363 (2007) 511]. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2015**, 379, 1071-1072	2.3	8
102	Fractional nonlinear dynamics of learning with memory. *Nonlinear Dynamics*, **2020**, 100, 1231-1242	5	8
101	Discrete model of dislocations in fractional nonlocal elasticity. *Journal of King Saud University - Science*, **2016**, 28, 33-36	3.6	8
100	The fractional oscillator as an open system. *Open Physics*, **2012**, 10,	1.3	8
99	Uncertainty relation for non-Hamiltonian quantum systems. *Journal of Mathematical Physics*, **2013**, 54, 012112	1.2	8
98	Quantum dissipative systems. III. Definition and algebraic structure. *Theoretical and Mathematical Physics(Russian Federation)*, **1997**, 110, 57-67	0.7	8
97	FOKKERPLANCK EQUATION FOR FRACTIONAL SYSTEMS. *International Journal of Modern Physics B*, **2007**, 21, 955-967	1.1	8
96	Accelerator and Multiplier for Macroeconomic Processes with Memory. *IRA-International Journal of Management & Social Sciences (ISSN 2455-2267)*, **2017**, 9, 86	1	8
95	Exact Solutions of Bernoulli and Logistic Fractional Differential Equations with Power Law Coefficients. *Mathematics*, **2020**, 8, 2231	2.3	8
94	Quantum Maps with Memory from Generalized Lindblad Equation. *Entropy*, **2021**, 23,	2.8	8
93	General Fractional Calculus: Multi-Kernel Approach. *Mathematics*, **2021**, 9, 1501	2.3	8

92	General Non-Markovian Quantum Dynamics. *Entropy*, **2021**, 23,	2.8	8
91	Fractional generalization of Kac integral. *Communications in Nonlinear Science and Numerical Simulation*, **2008**, 13, 248-258	3.7	7
90	THERMODYNAMICS OF FEW-PARTICLE SYSTEMS. *International Journal of Modern Physics B*, **2005**, 19, 879-897	1.1	7
89	Fractional Zaslavsky and Hénon Discrete Maps. *Nonlinear Physical Science*, **2010**, 1-26	0.1	6
88	THE FRACTIONAL CHAPMAN–KOLMOGOROV EQUATION. *Modern Physics Letters B*, **2007**, 21, 163-174	1.6	6
87	Three-Dimensional Lattice Approach to Fractional Generalization of Continuum Gradient Elasticity. *Progress in Fractional Differentiation and Applications*, **2015**, 1, 243-258	3.9	6
86	Non-Linear Macroeconomic Models of Growth with Memory. *Mathematics*, **2020**, 8, 2078	2.3	6
85	Exact Solution of T-Difference Radial Schrödinger Equation. *International Journal of Applied and Computational Mathematics*, **2017**, 3, 2779-2784	1.3	5
84	TWO-LOOP BETA-FUNCTION FOR NONLINEAR SIGMA-MODEL WITH AFFINE METRIC MANIFOLD. *Modern Physics Letters A*, **1994**, 09, 2411-2419	1.3	5
83	Predator-prey models with memory and kicks: Exact solution and discrete maps with memory. *Mathematical Methods in the Applied Sciences*, **2021**, 44, 11514-11525	2.3	5
82	What discrete model corresponds exactly to a gradient elasticity equation?. *Journal of Mechanics of Materials and Structures*, **2016**, 11, 329-343	1.2	5
81	Fractional Derivative Regularization in QFT. *Advances in High Energy Physics*, **2018**, 2018, 1-8	1	5
80	Fractional dynamics with non-local scaling. *Communications in Nonlinear Science and Numerical Simulation*, **2021**, 102, 105947	3.7	5
79	COMMENTS ON "RIEMANN–CHRISTOFFEL TENSOR IN DIFFERENTIAL GEOMETRY OF FRACTIONAL ORDER APPLICATION TO FRACTAL SPACE-TIME", [FRACTALS 21 (2013) 1350004]. *Fractals*, **2015**, 23, 1575001	3.2	4
78	Dirac particle with memory: Proper time non-locality. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2020**, 384, 126303	2.3	4
77	Fractional Diffusion Equations for Lattice and Continuum: Grünwald-Letnikov Differences and Derivatives Approach. *International Journal of Statistical Mechanics*, **2014**, 2014, 1-7		4
76	Relativistic non-Hamiltonian mechanics. *Annals of Physics*, **2010**, 325, 2103-2119	2.5	4
75	Quantum dissipative systems. IV. Analogues of Lie algebras and groups. *Theoretical and Mathematical Physics(Russian Federation)*, **1997**, 110, 168-178	0.7	4

74	Trends, directions for further research, and some open problems of fractional calculus. *Nonlinear Dynamics*, **2022**, 107, 3245	5	4
73	Fractional quantum mechanics of open quantum systems **2019**, 257-278		4
72	Economic models with power-law memory **2019**, 1-32		4
71	Discrete Wave Equation with Infinite Differences. *Applied Mathematics & Information Sciences Letters*, **2017**, 5, 41-44	0	4
70	Remark to history of fractional derivatives on complex plane: Sonine-Letnikov and Nishimoto derivatives. *Fractional Differential Calculus*, **2016**, 147-149	1.5	4
69	Integral Equations of Non-Integer Orders and Discrete Maps with Memory. *Mathematics*, **2021**, 9, 1177	2.3	4
68	Exact Discrete Analogs of Canonical Commutation and Uncertainty Relations. *Mathematics*, **2016**, 4, 44	2.3	4
67	Accelerators in Macroeconomics: Comparison of Discrete and Continuous Approaches. *American Journal of Economics and Business Administration*, **2017**, 9, 47-55	0.5	3
66	Variational principle of stationary action for fractional nonlocal media and fields. *Pacific Journal of Mathematics for Industry*, **2015**, 7,		3
65	Fractional Deterministic Factor Analysis of Economic Processes with Memory and Nonlocality. *Understanding Complex Systems*, **2018**, 173-189	0.4	3
64	Fractional Dynamics of Media with Long-Range Interaction. *Nonlinear Physical Science*, **2010**, 153-214	0.1	3
63	Lattice fractional quantum field theory: Exact differences approach. *Modern Physics Letters A*, **2021**, 36, 2140001	1.3	3
62	General Non-Local Continuum Mechanics: Derivation of Balance Equations. *Mathematics*, **2022**, 10, 1427	2.3	3
61	Discretely and Continuously Distributed Dynamical Systems with Fractional Nonlocality **2015**, 31-49		2
60	QUANTUM NANOTECHNOLOGY. *International Journal of Nanoscience*, **2009**, 08, 337-344	0.6	2
59	Ultraviolet finiteness of nonlinear two-dimensional sigma models on affine-metric manifolds. *Theoretical and Mathematical Physics(Russian Federation)*, **1989**, 78, 334-337	0.7	2
58	Fractional Dynamics of Open Quantum Systems **2011**, 449-482		2
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56	Electric field in media with power-law spatial dispersion. *Modern Physics Letters B*, **2016**, 30, 1650132	1.6	2
55	Poiseuille equation for steady flow of fractal fluid. *International Journal of Modern Physics B*, **2016**, 30, 1650128	1.1	2
54	Productivity with Fatigue and Long Memory: Fractional Calculus Approach. *International Journal of Applied and Computational Mathematics*, **2019**, 5, 1	1.3	2
53	Extension of relativistic mechanics by maximum symmetry group of Maxwell equations. *European Physical Journal Plus*, **2020**, 135, 1	3.1	1
52	Fractional Dynamics of Open Quantum Systems. *Nonlinear Physical Science*, **2010**, 467-490	0.1	1
51	Fractional Statistical Mechanics. *Nonlinear Physical Science*, **2010**, 335-353	0.1	1
50	Fractional Integration and Fractals. *Nonlinear Physical Science*, **2010**, 3-48	0.1	1
49	Cagan model of inflation with power-law memory effects. *Computational and Applied Mathematics*, **2020**, 39, 1	2.4	1
48	Nonlocal quantum system with fractal distribution of states. *Physica A: Statistical Mechanics and Its Applications*, **2021**, 574, 126009	3.3	1
47	Fractional Nonlocal Continuum Mechanics and Microstructural Models **2019**, 839-849		1
46	Fractional electrodynamics with spatial dispersion **2019**, 25-52		1
45	Exact discretization of non-commutative space-time. *Modern Physics Letters A*, **2020**, 35, 2050135	1.3	1
44	Corrigendum to Fractional nonlinear dynamics of learning with memory nonlinear dynamics. 2020. Vol.100. P.1231 1242.. *Nonlinear Dynamics*, **2021**, 103, 2163-2167	5	1
43	Nonlinear fractional dynamics with Kicks. *Chaos, Solitons and Fractals*, **2021**, 151, 111259	9.3	1
42	From fractional differential equations with Hilfer derivatives. *Computational and Applied Mathematics*, **2021**, 40, 1	2.4	0
41	Non-Markovian dynamics of open quantum system with memory. *Annals of Physics*, **2021**, 434, 168667	2.5	0
40	Fokker-Planck Equation for Fractal Distributions of Probability. *Nonlinear Physical Science*, **2010**, 123-133	0.1	0
39	Fractional Dynamics with Depreciation and Obsolescence: Equations with Prabhakar Fractional Derivatives. *Mathematics*, **2022**, 10, 1540	2.3	0

2   Quantum Analogs of Fractional Derivatives. *Nonlinear Physical Science*, **2010**, 491-502   0.1

1   Nonlinear growth model with long memory: generalization of Haavelmo model. *Nonlinear Dynamics*, **2021**, 104, 4413   5