

Ervin K Lenzi

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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.

235
papers

3,359
citations

32
h-index

44
g-index

243
ext. papers

3,698
ext. citations

2.6
avg, IF

5.55
L-index

#	Paper	IF	Citations
235	The Role of Fractional Time-Derivative Operators on Anomalous Diffusion. <i>Frontiers in Physics</i> , 2017 , 5,	3.9	101
234	Statistical mechanics based on Renyi entropy. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 280, 337-345	3.3	89
233	Nonlinear equation for anomalous diffusion: Unified power-law and stretched exponential exact solution. <i>Physical Review E</i> , 2001 , 63, 030101	2.4	83
232	Escape time in anomalous diffusive media. <i>Physical Review E</i> , 2001 , 63, 051109	2.4	79
231	Anomalous diffusion: nonlinear fractional Fokker-Planck equation. <i>Chemical Physics</i> , 2002 , 284, 341-347	2.3	65
230	Complexity-entropy causality plane: A useful approach for distinguishing songs. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012 , 391, 2421-2428	3.3	58
229	Distance to the scaling law: a useful approach for unveiling relationships between crime and urban metrics. <i>PLoS ONE</i> , 2013 , 8, e69580	3.7	57
228	Quantum Statistical Mechanics for Nonextensive Systems: Prediction for Possible Experimental Tests. <i>Physical Review Letters</i> , 1998 , 80, 3907-3910	7.4	55
227	Fractional diffusion equation and impedance spectroscopy of electrolytic cells. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 11371-4	3.4	54
226	Crossover in diffusion equation: anomalous and normal behaviors. <i>Physical Review E</i> , 2003 , 67, 031104	2.4	51
225	Perturbation and Variational Methods in Nonextensive Tsallis Statistics. <i>Physical Review Letters</i> , 1998 , 80, 218-221	7.4	50
224	Fractional Diffusion Equations and Anomalous Diffusion 2018 ,		50
223	Comparison of Impedance Spectroscopy Expressions and Responses of Alternate Anomalous Poisson-Nernst-Planck Diffusion Equations for Finite-Length Situations. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 7648-7655	3.8	49
222	q-exponential distribution in urban agglomeration. <i>Physical Review E</i> , 2002 , 65, 017106	2.4	49
221	Anomalous diffusion governed by a fractional diffusion equation and the electrical response of an electrolytic cell. <i>Journal of Chemical Physics</i> , 2011 , 135, 114704	3.9	48
220	Anomalous diffusion, nonlinear fractional Fokker-Planck equation and solutions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003 , 319, 245-252	3.3	45
219	Complexity-entropy causality plane as a complexity measure for two-dimensional patterns. <i>PLoS ONE</i> , 2012 , 7, e40689	3.7	44

218	The dynamical structure of political corruption networks. <i>Journal of Complex Networks</i> , 2018 , 6, 989-1003.	3.7	43
217	Analogies Between the Cracking Noise of Ethanol-Dampened Charcoal and Earthquakes. <i>Physical Review Letters</i> , 2015 , 115, 025503	7.4	43
216	Fractional Diffusion Equation and the Electrical Impedance: Experimental Evidence in Liquid-Crystalline Cells. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 8773-8777	3.8	43
215	Characterizing time series via complexity-entropy curves. <i>Physical Review E</i> , 2017 , 95, 062106	2.4	42
214	N-dimensional nonlinear Fokker-Planck equation with time-dependent coefficients. <i>Physical Review E</i> , 2002 , 65, 052101	2.4	39
213	Time-resolved thermal lens and thermal mirror spectroscopy with sample-fluid heat coupling: a complete model for material characterization. <i>Applied Spectroscopy</i> , 2011 , 65, 99-104	3.1	38
212	Blackbody radiation in nonextensive Tsallis statistics: Exact solution. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1998 , 250, 270-274	2.3	38
211	Scale-Adjusted Metrics for Predicting the Evolution of Urban Indicators and Quantifying the Performance of Cities. <i>PLoS ONE</i> , 2015 , 10, e0134862	3.7	37
210	Anomalous-diffusion approach applied to the electrical response of water. <i>Physical Review E</i> , 2011 , 84, 041128	2.4	35
209	Power law diffusion coefficient and anomalous diffusion: analysis of solutions and first passage time. <i>Physical Review E</i> , 2003 , 67, 061105	2.4	35
208	Quantum statistical mechanics for nonextensive systems. <i>Physical Review E</i> , 1999 , 59, 1398-1407	2.4	35
207	Anomalous diffusion, solutions, and first passage time: Influence of diffusion coefficient. <i>Physical Review E</i> , 2005 , 71, 012101	2.4	34
206	Nonlinear anomalous diffusion equation and fractal dimension: exact generalized Gaussian solution. <i>Physical Review E</i> , 2002 , 65, 041108	2.4	34
205	A Connection Between Anomalous Poisson-Nernst-Planck Model and Equivalent Circuits with Constant Phase Elements. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 23685-23690	3.8	32
204	Non-Markovian diffusion and the adsorption-desorption process. <i>Physical Review E</i> , 2010 , 81, 011116	2.4	32
203	Different diffusive regimes, generalized Langevin and diffusion equations. <i>Physical Review E</i> , 2012 , 85, 011147	2.4	30
202	Magnetic behavior of a nonextensive S-spin system: Possible connections to manganites. <i>Physical Review B</i> , 2002 , 66,	3.3	30
201	Memory effect in the adsorption phenomena of neutral particles. <i>Physical Review E</i> , 2007 , 75, 042601	2.4	29

200	N-dimensional fractional diffusion equation and Green function approach: spatially dependent diffusion coefficient and external force. <i>Physical Review E</i> , 2005 , 71, 052101	2.4	29
199	Anomalous diffusion: Fractional Fokker-Planck equation and its solutions. <i>Journal of Mathematical Physics</i> , 2003 , 44, 2179-2185	1.2	28
198	Evidences for Tsallis non-extensivity on CMR manganites. <i>Europhysics Letters</i> , 2002 , 58, 42-48	1.6	26
197	Time dependent solutions for a fractional Schrödinger equation with delta potentials. <i>Journal of Mathematical Physics</i> , 2013 , 54, 082107	1.2	25
196	Harmonic and anharmonic quantum-mechanical oscillators in noninteger dimensions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014 , 378, 109-116	2.3	24
195	Unusual diffusing regimes caused by different adsorbing surfaces. <i>Soft Matter</i> , 2015 , 11, 1658-66	3.6	24
194	Non-Debye relaxation in the dielectric response of nematic liquid crystals: surface and memory effects in the adsorption-desorption process of ionic impurities. <i>Physical Review E</i> , 2012 , 86, 051705	2.4	24
193	Time-dependent Schrödinger-like equation with nonlocal term. <i>Journal of Mathematical Physics</i> , 2014 , 55, 092105	1.2	23
192	Fractional nonlinear diffusion equation, solutions and anomalous diffusion. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007 , 375, 65-71	3.3	23
191	Exact solutions to nonlinear nonautonomous space-fractional diffusion equations with absorption. <i>Physical Review E</i> , 2003 , 67, 051109	2.4	23
190	Bose-Einstein and Fermi-Dirac distributions in nonextensive Tsallis statistics: an exact study. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003 , 317, 199-208	3.3	23
189	Investigating the interplay between mechanisms of anomalous diffusion via fractional Brownian walks on a comb-like structure. <i>New Journal of Physics</i> , 2014 , 16, 093050	2.9	22
188	Solutions for a Schrödinger equation with a nonlocal term. <i>Journal of Mathematical Physics</i> , 2008 , 49, 032108	1.2	22
187	Anomalous diffusion and the adsorption-desorption process in anisotropic media. <i>Europhysics Letters</i> , 2009 , 85, 28004	1.6	21
186	Anomalous diffusion and anisotropic nonlinear Fokker-Planck equation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004 , 342, 16-21	3.3	21
185	Logarithmic diffusion and porous media equations: a unified description. <i>Physical Review E</i> , 2005 , 72, 031106	2.4	21
184	Fractional diffusion equation with an absorbent term and a linear external force: Exact solution. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007 , 366, 346-350	2.3	20
183	Anomalous diffusion and fractional diffusion equation: anisotropic media and external forces. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005 , 347, 160-169	2.3	20

182	Time-fractional diffusion equation with time dependent diffusion coefficient. <i>Physical Review E</i> , 2005 , 72, 011107	2.4	20
181	Nonlinear Kramers equation associated with nonextensive statistical mechanics. <i>Physical Review E</i> , 2015 , 91, 052106	2.4	19
180	Empirical analysis on the connection between power-law distributions and allometries for urban indicators. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014 , 409, 175-182	3.3	19
179	Fractional approach, quantum statistics, and non-crystalline solids at very low temperatures. <i>European Physical Journal B</i> , 2008 , 62, 155-158	1.2	19
178	Kinetic equation with memory effect for adsorption-desorption phenomena. <i>Chemical Physics Letters</i> , 2007 , 438, 144-147	2.5	18
177	Thermal and optical properties of lithium-zinc-tellurite glasses. <i>Materials Chemistry and Physics</i> , 2019 , 231, 150-158	4.4	17
176	Universal bursty behaviour in human violent conflicts. <i>Scientific Reports</i> , 2014 , 4, 4773	4.9	17
175	Characterization of time series via Rényi complexity-entropy curves. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 498, 74-85	3.3	17
174	Fractional Schrödinger equation with noninteger dimensions. <i>Applied Mathematics and Computation</i> , 2012 , 219, 2313-2319	2.7	17
173	Non-Markovian diffusion equation and diffusion in a porous catalyst. <i>Chemical Engineering Journal</i> , 2011 , 172, 1083-1087	14.7	17
172	Electrical impedance of an electrolytic cell in the presence of generation and recombination of ions. <i>Journal of Chemical Physics</i> , 2010 , 132, 224901	3.9	17
171	Nonlinear diffusion equation, Tsallis formalism and exact solutions. <i>Journal of Mathematical Physics</i> , 2005 , 46, 123303	1.2	17
170	Remarks on $(1/q)$ expansion and factorization approximation in the Tsallis nonextensive statistical mechanics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001 , 289, 44-50	2.3	17
169	Average entropy of a subsystem from its average Tsallis entropy. <i>Physical Review E</i> , 2002 , 65, 046131	2.4	16
168	Green functions based on Tsallis nonextensive statistical mechanics: normalized q-expectation value formulation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 286, 503-517	3.3	16
167	Aq-generalization of Laplace transforms. <i>Journal of Physics A</i> , 1999 , 32, 8551-8561		16
166	Spatial correlations, clustering and percolation-like transitions in homicide crimes. <i>Europhysics Letters</i> , 2015 , 111, 18002	1.6	15
165	Immittance response of an electrolytic cell in the presence of adsorption, generation, and recombination of ions. <i>Journal of Electroanalytical Chemistry</i> , 2012 , 682, 116-120	4.1	15

164	Diffusive process on a backbone structure with drift terms. <i>Physical Review E</i> , 2013 , 87, 012121	2.4	15
163	Engagement in the electoral processes: scaling laws and the role of political positions. <i>Physical Review E</i> , 2013 , 88, 024802	2.4	15
162	Continuous-time random walk as a guide to fractional Schrödinger equation. <i>Journal of Mathematical Physics</i> , 2010 , 51, 092102	1.2	15
161	Anomalous diffusion and memory effects on the impedance spectroscopy for finite-length situations. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 485005	1.8	15
160	Fractional diffusion equation and Green function approach: Exact solutions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006 , 360, 215-226	3.3	15
159	Asymptotic behaviors of the Poisson-Nernst-Planck model, generalizations and best adjust of experimental data. <i>Electrochimica Acta</i> , 2017 , 226, 40-45	6.7	14
158	Learning physical properties of liquid crystals with deep convolutional neural networks. <i>Scientific Reports</i> , 2020 , 10, 7664	4.9	14
157	Non-Markovian Fokker-Planck equation: solutions and first passage time distribution. <i>Physical Review E</i> , 2006 , 73, 032101	2.4	14
156	Nonlinear fractional diffusion equation: Exact results. <i>Journal of Mathematical Physics</i> , 2005 , 46, 083506	1.2	14
155	Some results for a fractional diffusion equation with radial symmetry in a confined region. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009 , 388, 806-810	3.3	13
154	Collisionless Boltzmann equation for systems obeying Tsallis distribution. <i>European Physical Journal B</i> , 2001 , 21, 401-406	1.2	13
153	Nonlocal Diffusion in Porous Media: A Spatial Fractional Approach. <i>Journal of Engineering Mechanics - ASCE</i> , 2017 , 143,	2.4	12
152	Ion Motion in Electrolytic Cells: Anomalous Diffusion Evidences. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 2882-2886	3.4	12
151	Quenched and annealed disorder mechanisms in comb models with fractional operators. <i>Physical Review E</i> , 2020 , 101, 022135	2.4	12
150	A framework to investigate the immittance responses for finite length-situations: Fractional diffusion equation, reaction term, and boundary conditions. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 712, 82-88	4.1	12
149	Solutions for a fractional diffusion equation with noninteger dimensions. <i>Nonlinear Analysis: Real World Applications</i> , 2012 , 13, 1955-1960	2.1	12
148	Random Walks Associated with Nonlinear Fokker-Planck Equations. <i>Entropy</i> , 2017 , 19, 155	2.8	12
147	Scaling behavior in the dynamics of citations to scientific journals. <i>Europhysics Letters</i> , 2006 , 75, 673-679	1.6	12

146	Fractional diffusion equation in a confined region: surface effects and exact solutions. <i>Physical Review E</i> , 2007 , 76, 032102	2.4	12
145	On the equivalence between specific adsorption and kinetic equation descriptions of the admittance response in electrolytic cells. <i>Journal of Chemical Physics</i> , 2013 , 138, 114702	3.9	11
144	Green function for a non-Markovian Fokker-Planck equation: comb-model and anomalous diffusion. <i>Brazilian Journal of Physics</i> , 2009 , 39, 438-487	1.2	11
143	Solutions for a non-Markovian diffusion equation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010 , 374, 4193-4198	2.3	11
142	Generalized Cattaneo (telegrapher's) equations in modeling anomalous diffusion phenomena. <i>Physical Review E</i> , 2020 , 102, 022128	2.4	11
141	Fractional diffusion equations coupled by reaction terms. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 458, 9-16	3.3	11
140	Reaction on a solid surface supplied by an anomalous mass transfer source. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014 , 410, 399-406	3.3	10
139	Entropic nonadditivity, H theorem, and nonlinear Klein-Kramers equations. <i>Physical Review E</i> , 2017 , 96, 052109	2.4	10
138	Solutions for a . <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015 , 429, 35-44	3.3	10
137	Universal patterns in sound amplitudes of songs and music genres. <i>Physical Review E</i> , 2011 , 83, 017101	2.4	10
136	Nonlinear diffusion equation and nonlinear external force: Exact solution. <i>Journal of Mathematical Physics</i> , 2006 , 47, 103302	1.2	10
135	Solutions for a fractional nonlinear diffusion equation: Spatial time dependent diffusion coefficient and external forces. <i>Journal of Mathematical Physics</i> , 2004 , 45, 3444-3452	1.2	10
134	Thermostatistical aspects of generalized entropies. <i>Chaos, Solitons and Fractals</i> , 2004 , 20, 227-233	9.3	10
133	Path integral approach to the nonextensive canonical density matrix. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 278, 201-213	3.3	10
132	Surface Roughness Influence on CPE Parameters in Electrolytic Cells. <i>International Journal of Electrochemical Science</i> , 2016 , 7775-7784	2.2	10
131	Effective Potential from the Generalized Time-Dependent Schrödinger Equation. <i>Mathematics</i> , 2016 , 4, 59	2.3	10
130	Solutions for a sorption process governed by a fractional diffusion equation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 443, 32-41	3.3	9
129	Generalized time-dependent Schrödinger equation in two dimensions under constraints. <i>Journal of Mathematical Physics</i> , 2018 , 59, 012104	1.2	9

128	Role of photophysics processes in thermal lens spectroscopy of fluids: a theoretical study. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 5983-8	2.8	9
127	An extension of the linear Luikov system equations of heat and mass transfer. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 63, 233-238	4.9	9
126	Modeling Heavy Metal Sorption Kinetics Using Fractional Calculus. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-8	1.1	9
125	Move-by-move dynamics of the advantage in chess matches reveals population-level learning of the game. <i>PLoS ONE</i> , 2013 , 8, e54165	3.7	9
124	Solutions for a fractional diffusion equation with spherical symmetry using Green function approach. <i>Chemical Physics</i> , 2008 , 344, 90-94	2.3	9
123	Biosorption and Diffusion Modeling of Pb(II) by Malt Bagasse. <i>International Journal of Chemical Engineering</i> , 2016 , 2016, 1-11	2.2	9
122	Thermal Lens Temperature Scanning technique for evaluation of oxidative stability and time of transesterification during biodiesel synthesis. <i>Fuel</i> , 2017 , 202, 78-84	7.1	8
121	Extensions and solutions for nonlinear diffusion equations and random walks. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019 , 475, 20190432	2.4	8
120	Extensive-like and intensive-like thermodynamical variables in generalized thermostatistics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012 , 391, 2543-2555	3.3	8
119	Solutions for a diffusion equation with a backbone term. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011 , 2011, P02022	1.9	8
118	Results for a fractional diffusion equation with a nonlocal term in spherical symmetry. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 6121-6124	2.3	8
117	Specific heat in the nonextensive statistics: effective temperature and Lagrange parameter β . <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002 , 292, 315-319	2.3	8
116	Normalized Tsallis entropy and its implications for the nonextensive thermostatistics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001 , 295, 230-233	3.3	8
115	Electrical transport properties and fractional dynamics of twist-bend nematic liquid crystal phase. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019 , 70, 248-256	3.7	8
114	Surface induced twist in nematic and chiral nematic liquid crystals: stick-slip-like and constrained motion. <i>Soft Matter</i> , 2018 , 14, 2084-2093	3.6	7
113	Anomalous diffusion and transport in heterogeneous systems separated by a membrane. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016 , 472, 20160502 ²⁻⁴	2.4	7
112	Solutions for a fractional diffusion equation: Anomalous diffusion and adsorption-desorption processes. <i>Journal of King Saud University - Science</i> , 2016 , 28, 3-6	3.6	7
111	Reliability of Poisson-Nernst-Planck Anomalous Models for Impedance Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 7885-7892	3.4	7

110	Effect of surface viscosity, anchoring energy, and cell gap on the response time of nematic liquid crystals. <i>Annals of Physics</i> , 2014 , 346, 14-21	2.5	7
109	Importance of the surface viscosity on the relaxation of an imposed deformation in a nematic liquid crystal cell. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010 , 374, 1565-1569	2.3	7
108	Exact solutions for a diffusion equation with a nonlinear external force. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 2359-2363	2.3	7
107	Exact solutions for a forced Burgers equation with a linear external force. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008 , 387, 2690-2696	3.3	7
106	Anisotropic fractional diffusion equation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005 , 346, 271-283	3.3	7
105	q-Gaussian trial function and Bose-Einstein condensation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001 , 295, 242-245	3.3	7
104	Tsallis nonextensive statistics with normalized q-expectation values: thermodynamical stability and simple illustrations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 275, 396-404	3.3	7
103	Note on BEC in Nonextensive Statistical Mechanics. <i>Brazilian Journal of Physics</i> , 2001 , 31, 317-321	1.2	7
102	Director profile of a nematic between two concentric cylinders with inhomogeneous boundary conditions. <i>Brazilian Journal of Physics</i> , 2009 , 39, 312-317	1.2	7
101	Current-Voltage Characteristics and Impedance Spectroscopy: Surface Conduction and Adsorption-Desorption Effects in Electrolytic Cells. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 3150-3158	3.8	7
100	Extensive characterization of seismic laws in acoustic emissions of crumpled plastic sheets. <i>Europhysics Letters</i> , 2016 , 114, 59002	1.6	7
99	A fractional model to relative viscosity prediction of water-in-crude oil emulsions. <i>Journal of Petroleum Science and Engineering</i> , 2019 , 172, 493-501	4.4	7
98	Solutions for a mass transfer process governed by fractional diffusion equations with reaction terms. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017 , 48, 307-317	3.7	6
97	Surface driven reflection tuning in chiral nematic liquid crystals. <i>Optics and Laser Technology</i> , 2019 , 120, 105745	4.2	6
96	The time-dependent Schrödinger equation in three dimensions under geometric constraints. <i>Journal of Mathematical Physics</i> , 2019 , 60, 032101	1.2	6
95	Solutions for a fractional diffusion equation in heterogeneous media. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019 , 2019, 033205	1.9	6
94	Anomalous Diffusion with an Irreversible Linear Reaction and Sorption-Desorption Process. <i>Advances in Mathematical Physics</i> , 2017 , 2017, 1-7	1.1	6
93	A nonlinear Fokker-Planck equation approach for interacting systems: Anomalous diffusion and Tsallis statistics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018 , 382, 1903-1907	2.3	6

92	Intermittent Motion, Nonlinear Diffusion Equation and Tsallis Formalism. <i>Entropy</i> , 2017 , 19, 42	2.8	6
91	Surface viscosity and reorientation process in an asymmetric nematic cell. <i>Liquid Crystals</i> , 2010 , 37, 1559-1568	2.5	6
90	Molecular Orientation of a Nematic Between Concentric Cylinders: Weak Anchoring Situation. <i>Molecular Crystals and Liquid Crystals</i> , 2010 , 526, 82-92	0.5	6
89	Nonlocal effects on the thermal behavior of non-crystalline solids. <i>Brazilian Journal of Physics</i> , 2009 , 39, 507-510	1.2	6
88	Solutions for a fractional nonlinear diffusion equation with external force and absorbent term. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009 , 2009, P02048	1.9	6
87	Simultaneous determination of the textile dyes in industrial effluents by first-order derivative spectrophotometry. <i>Analytical Sciences</i> , 2009 , 25, 487-92	1.7	6
86	Perturbation expansion, Bogoliubov inequality and integral representations in nonextensive Tsallis statistics. <i>European Physical Journal B</i> , 1999 , 10, 353-359	1.2	6
85	Solutions for a fractional diffusion equation with radial symmetry and integro-differential boundary conditions. <i>Thermal Science</i> , 2015 , 19, 1-6	1.2	6
84	Constrained quantum motion in δ -potential and application of a generalized integral operator. <i>Computers and Mathematics With Applications</i> , 2019 , 78, 1695-1704	2.7	6
83	Reaction and ultraslow diffusion on comb structures. <i>Physical Review E</i> , 2020 , 101, 042119	2.4	6
82	A generalized Drude-Lorentz model for refractive index behavior of tellurite glasses. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 16949-16955	2.1	5
81	A Survey of Fractional Order Calculus Applications of Multiple-Input, Multiple-Output (MIMO) Process Control. <i>Fractal and Fractional</i> , 2020 , 4, 22	3	5
80	Nonlinear Fokker-Planck equations, H-theorem, and entropies. <i>Chinese Journal of Physics</i> , 2017 , 55, 1294-1299	3.5	5
79	Fractional Calculus in Electrical Impedance Spectroscopy: Poisson-Nernst-Planck model and Extensions. <i>International Journal of Electrochemical Science</i> , 2017 , 11677-11691	2.2	5
78	Fokker-Planck equation in a wedge domain: anomalous diffusion and survival probability. <i>Physical Review E</i> , 2009 , 80, 021131	2.4	5
77	The soundscape dynamics of human agglomeration. <i>New Journal of Physics</i> , 2011 , 13, 023028	2.9	5
76	Exact propagator for a Fokker-Planck equation, first passage time distribution, and anomalous diffusion. <i>Journal of Mathematical Physics</i> , 2011 , 52, 083301	1.2	5
75	General solution of the diffusion equation with a nonlocal diffusive term and a linear force term. <i>Physical Review E</i> , 2006 , 74, 042101	2.4	5

74	Exact equation of state for 2-dimensional gravitating system within Tsallis statistical mechanics. <i>Journal of Mathematical Physics</i> , 2001 , 42, 1148	1.2	5
73	Theoretical predictions for photoacoustic signal: Fractionary thermal diffusion with modulated light absorption source. <i>European Physical Journal Plus</i> , 2019 , 134, 1	3.1	5
72	Anomalous diffusion and random search in xyz-comb: exact results. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2020 , 2020, 053203	1.9	4
71	Continuous Time Random Walk and different diffusive regimes. <i>Acta Scientiarum - Technology</i> , 2012 , 34,	0.5	4
70	Solutions of Some Nonlinear Diffusion Equations and Generalized Entropy Framework. <i>Entropy</i> , 2013 , 15, 3931-3940	2.8	4
69	Symbolic sequences and Tsallis entropy. <i>Brazilian Journal of Physics</i> , 2009 , 39, 444-447	1.2	4
68	A model for selective ion adsorption including van der Waals interaction. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 1693-8	3.4	4
67	Fractional and nonlinear diffusion equation: additional results. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004 , 344, 671-676	3.3	4
66	Caffeine Adsorption onto Bentonite Clay in Suspension and Immobilized. <i>Brazilian Archives of Biology and Technology</i> , 63,	1.8	4
65	Mathematical modeling of fish burger baking using fractional calculus. <i>Thermal Science</i> , 2017 , 21, 41-50	1.2	4
64	Symmetry breaking in an electrolytic cell under AC field and non-identical adsorbing electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 789, 44-49	4.1	3
63	Diffusion in a heterogeneous system, fractional dynamics and anomalous diffusion. <i>European Physical Journal Plus</i> , 2019 , 134, 1	3.1	3
62	Electrolytic cell containing different groups of ions with anomalous diffusion approach. <i>Journal of Electroanalytical Chemistry</i> , 2015 , 746, 25-30	4.1	3
61	Nonlinear diffusion equation with reaction terms: Analytical and numerical results. <i>Applied Mathematics and Computation</i> , 2018 , 330, 254-265	2.7	3
60	Fractional diffusion equation, boundary conditions and surface effects. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014 , 2014, P08019	1.9	3
59	Electrical current profile of a confined isotropic liquid sample: Biological systems and liquid crystals applications. <i>Chemical Physics Letters</i> , 2013 , 588, 87-90	2.5	3
58	Diffusion equations and different spatial fractional derivatives. <i>Acta Scientiarum - Technology</i> , 2014 , 36, 657-662	0.5	3
57	Scale-invariant structure of size fluctuations in plants. <i>Scientific Reports</i> , 2012 , 2, 328	4.9	3

56	Long-range spatial correlations and fluctuation statistics of lightning activity rates in Brazil. <i>Europhysics Letters</i> , 2013 , 104, 69001	1.6	3
55	Antipersistent behavior of defects in a lyotropic liquid crystal during annihilation. <i>Physical Review E</i> , 2013 , 87, 054501	2.4	3
54	Anomalous Diffusion Effects on the Electrical Impedance Response of Liquid-Crystalline Systems. <i>Molecular Crystals and Liquid Crystals</i> , 2013 , 576, 23-31	0.5	3
53	Relaxation of the nematic deformation when the distorting field is removed. <i>Physical Review E</i> , 2010 , 81, 021703	2.4	3
52	Semiclassical approximation for the specific heat of non-crystalline solids at intermediate temperatures. <i>Philosophical Magazine</i> , 2007 , 87, 291-297	1.6	3
51	A non-Gaussian model in polymeric network. <i>European Physical Journal E</i> , 2006 , 20, 395-9	1.5	3
50	Temperature dependence of refractive index and of electrical impedance of grape seed (<i>Vitis vinifera</i> , <i>Vitis labrusca</i>) oils extracted by Soxhlet and mechanical pressing. <i>Grasas Y Aceites</i> , 2015 , 66, e083	1.3	3
49	Transient anomalous diffusion in heterogeneous media with stochastic resetting. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021 , 588, 126560	3.3	3
48	First passage time for a diffusive process under a geometric constraint. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2013 , 2013, P09017	1.9	3
47	Frequency dispersion in the fractional Langmuir approximation for the adsorption-desorption phenomena. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020 , 476, 20190570	2.4	3
46	The time-dependent Schrödinger equation in non-integer dimensions for constrained quantum motion. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020 , 384, 126866	2.3	3
45	Slices of the Anomalous Phase Cube Depict Regions of Sub- and Super-Diffusion in the Fractional Diffusion Equation. <i>Mathematics</i> , 2021 , 9, 1481	2.3	3
44	Fractional Schrödinger equation and anomalous relaxation: Nonlocal terms and delta potentials. <i>Modern Physics Letters A</i> , 2021 , 36, 2140004	1.3	3
43	Refractive index behavior of tellurite glasses. <i>Optical Materials</i> , 2021 , 112, 110810	3.3	3
42	Surface viscosity and anchoring energy effects on the relaxation of a nematic liquid crystal cell. <i>Liquid Crystals</i> , 2012 , 39, 647-654	2.3	2
41	Parametric Analysis of a Heavy Metal Sorption Isotherm Based on Fractional Calculus. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-10	1.1	2
40	Detalhes da utilização do ân hidrídido, HO-, no tratamento de efluentes contaminados com metal pesado zinco. <i>Acta Scientiarum - Technology</i> , 2011 , 33,	0.5	2
39	On the dynamics of bubbles in boiling water. <i>Chaos, Solitons and Fractals</i> , 2011 , 44, 178-183	9.3	2

38	Fractional control of an industrial furnace. <i>Acta Scientiarum - Technology</i> , 2010 , 32,	0.5	2
37	Simulation Studies of Steam Reforming of Methane using Ni-Al ₂ O ₃ Catalysts. <i>International Journal of Chemical Reactor Engineering</i> , 2010 , 8,	1.2	2
36	Soluções para a equação de difusão com um termo não-local. <i>Acta Scientiarum - Technology</i> , 2009 , 31,	0.5	2
35	Anomalous diffusion in a symbolic model. <i>Physica Scripta</i> , 2011 , 83, 045007	2.6	2
34	Spreadsheet for cyclone and hydrocyclone design considering nonspherical particle geometry. <i>Computer Applications in Engineering Education</i> , 2007 , 15, 134-142	1.6	2
33	Exact dynamical reorientation in nematic liquid crystals: Green's function approach. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006 , 358, 31-36	2.3	2
32	Variational methods in nonextensive Tsallis statistics: a comparative study. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004 , 344, 562-567	3.3	2
31	Multidimensional nonlinear diffusion equation: Spatial time dependent diffusion coefficient and external forces. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005 , 357, 103-108	3.3	2
30	Dynamical behavior of the director field for splay-bend deformations in nematic liquid crystals. <i>Physical Review E</i> , 2005 , 72, 042701	2.4	2
29	Fractional GCEs behaviors merged: Prediction to the photoacoustic signal obtained with subdiffusive and superdiffusive operators. <i>Journal of Applied Physics</i> , 2020 , 128, 075107	2.5	2
28	Diffusion Processes and Drug Release: Capsaicinoids - Loaded Poly (ε-caprolactone) Microparticles. <i>PLoS ONE</i> , 2016 , 11, e0157662	3.7	2
27	Interplay between super and subdiffusive behaviors in photothermal phenomena. <i>International Journal of Thermal Sciences</i> , 2021 , 159, 106539	4.1	2
26	Fractional Diffusion Equation with Spherical Symmetry and Reactive Boundary Conditions. <i>Fundamenta Informaticae</i> , 2017 , 151, 341-354	1	1
25	Some nonlinear extensions for the schrödinger equation. <i>Chinese Journal of Physics</i> , 2020 , 66, 74-81	3.5	1
24	Anomalous diffusion and sorption-desorption process in complex fluid systems. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020 , 90, 105411	3.7	1
23	Diffusion Process and Reaction on a Surface. <i>Advances in Mathematical Physics</i> , 2018 , 2018, 1-11	1.1	1
22	Modeling Nematic Liquid Crystals: Analytical Solution for the Balance of Torques Equation With Moment of Inertia and Surface Viscosity. <i>Molecular Crystals and Liquid Crystals</i> , 2013 , 576, 32-41	0.5	1
21	Some results for an (N) -dimensional nonlinear diffusion equation with radial symmetry. <i>Journal of Engineering Mathematics</i> , 2010 , 67, 233-240	1.2	1

20	Exact tilt angle profiles for splayBend deformations in nematic liquid crystals. <i>Liquid Crystals</i> , 2006 , 33, 409-415	2.3	1
19	Solution of the mixed DirichletNeumann problem for molecular orientation in liquid crystals. <i>Liquid Crystals</i> , 2007 , 34, 1107-1114	2.3	1
18	Solutions for a hyperbolic diffusion equation with linear reaction terms. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2020 , 2020, 113205	1.9	1
17	Diffusion in Heterogenous Media and SorptionDesorption Processes. <i>Fractal and Fractional</i> , 2021 , 5, 183	3	1
16	SpaceTime fractional diffusion equations in d-dimensions. <i>Journal of Mathematical Physics</i> , 2021 , 62, 083304	1.2	1
15	Anomalous diffusion and electrical impedance response: Fractional operators with singular and non-singular kernels. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021 , 102, 105907	3.7	1
14	Comb-like geometric constraints leading to emergence of the time-fractional Schrödinger equation. <i>Modern Physics Letters A</i> , 2021 , 36, 2130005	1.3	1
13	Anomalous Diffusion and Surface Effects on the Electric Response of Electrolytic Cells. <i>Physchem</i> , 2022 , 2, 163-178		1
12	Monitoring Liquid-Liquid Mixtures Using Fractional Calculus and Image Analysis. <i>Fractal and Fractional</i> , 2018 , 2, 11	3	0
11	Time dependent solutions for fractional coupled Schrödinger equations. <i>Applied Mathematics and Computation</i> , 2019 , 346, 622-632	2.7	0
10	The Kramers-Kronig relations for usual and anomalous Poisson-Nernst-Planck models. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 465104	1.8	
9	Fractional Diffusion Equation, Sorption and Reaction Processes on a Surface 2015 , 129-140		
8	Results for an Electrolytic Cell Containing Two Groups of Ions: PNP - Model and Fractional Approach 2015 , 161-173		
7	Perturbative Approach to the Relaxation of the Nematic Deformation: Surface Viscosity and Electric Field. <i>Molecular Crystals and Liquid Crystals</i> , 2011 , 546, 57/[1527]-66/[1536]	0.5	
6	An expansion approach in rubber elasticity. <i>Polymer</i> , 2008 , 49, 1968-1971	3.9	
5	Tilt Angle Profiles for Splay-Bend Deformations in a Nematic Sample Submitted to an External Field. <i>Molecular Crystals and Liquid Crystals</i> , 2006 , 449, 191-200	0.5	
4	A study on composed nonextensive magnetic systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004 , 343, 499-504	3.3	
3	SorptionDesorption, surface diffusion, and memory effects in a 3D system. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2021 , 2021, 113202	1.9	

- 2 Effect of dynamically changing the substrate's easy axis on the response time of nematic samples. *Journal of Physics Condensed Matter*, **2018**, 30, 505401 1.8
- 1 A finite difference method for a class of nonlinear fractional advection-diffusion equations. *Partial Differential Equations in Applied Mathematics*, **2021**, 4, 100090 0.8