Maricel Agop

List of Publications by Year
in descending order

235 papers	1,913 citations	331259 21 h-index	454577 30 g-index
240 all docs	240 docs citations	240 times ranked	807 citing authors

#	Article	IF	Citations
1	Experimental and theoretical investigations of a laser-produced aluminum plasma. Physical Review E, 2008, 78, 026405.	0.8	93
2	Experimental and theoretical considerations on sound absorption performance of waste materials including the effect of backing plates. Applied Acoustics, 2017, 119, 88-93.	1.7	70
3	Aspects Regarding the Pharmaceutical Waste Management in Romania. Sustainability, 2018, 10, 2788.	1.6	57
4	Plume splitting and oscillatory behavior in transient plasmas generated by high-fluence laser ablation in vacuum. Applied Surface Science, 2017, 424, 299-309.	3.1	45
5	Phases in the temporal multiscale evolution of the drug release mechanism in IPN-type chitosan based hydrogels. Physical Chemistry Chemical Physics, 2014, 16, 25896-25905.	1.3	37
6	Absence of a gravitational analog to the Meissner effect. General Relativity and Gravitation, 1996, 28, 405-412.	0.7	32
7	Al2O3 ceramics under high-fluence irradiation: plasma plume dynamics through space- and time-resolved optical emission spectroscopy. Applied Physics A: Materials Science and Processing, 2010, 101, 153-159.	1.1	32
8	Experimental and Theoretical Aspects of Aluminum Expanding Laser Plasma. Japanese Journal of Applied Physics, 2009, 48, 066001.	0.8	31
9	Langmuir probe investigation of transient plasmas generated by femtosecond laser ablation of several metals: Influence of the target physical properties on the plume dynamics. Applied Surface Science, 2017, 417, 108-118.	3.1	29
10	Target properties â€" Plasma dynamics relationship in laser ablation of metals: Common trends for fs, ps and ns irradiation regimes. Applied Surface Science, 2020, 506, 144926.	3.1	28
11	El Naschieâ€™s Cantorian spaceâ€"time and general relativity by means of Barbilianâ€™s group.. Chaos, Solitons and Fractals, 2004, 19, 705-730.	2.5	27
12	On the vacuum status in Weylâ€"Dirac theory. General Relativity and Gravitation, 2008, 40, 35-55.	0.7	26
13	El Naschieâ€™s Îµ(â^ž) theory and effects of nanoparticle clustering on the heat transport in nanofluids. Chaos, Solitons and Fractals, 2008, 37, 1269-1278.	2.5	26
14	Dynamics in the boundary layer of a flat particle. Powder Technology, 2012, 221, 312-317.	2.1	26
15	Experimental and theoretical investigations of a plasma fireball dynamics. Physics of Plasmas, 2010, 17, .	0.7	25
16	THE MICROSCOPIC-MACROSCOPIC SCALE TRANSFORMATION THROUGH A CHAOS SCENARIO IN THE FRACTAL SPACE-TIME THEORY. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 603-618.	0.7	25
17	Experimental and Theoretical Investigations of the Negative Differential Resistance in a Discharge Plasma. Journal of the Physical Society of Japan, 2012, 81, 064502.	0.7	25
18	Some experimental and theoretical results on the anodic patterns in plasma discharge. Physics of Plasmas, 2006, 13, 063503.	0.7	24

#	Article	IF	Citations
19	Conductive and Convective Types Behaviors at Nano-Time Scales. Journal of Computational and Theoretical Nanoscience, 2010, 7, 2271-2280.	0.4	24
20	Gravity and cantorian space-time. Chaos, Solitons and Fractals, 1998, 9, 1143-1181.	2.5	22
21	Evaluation of Chemical, Physical, and Biologic Properties of Tumor-Targeting Radioiodinated Quinazolinone Derivative. Bioconjugate Chemistry, 2007, 18, 754-764.	1.8	22
22	Stochastic resonance and vibrational resonance in an excitable system: The golden mean barrier. Chaos, Solitons and Fractals, 2009, 41, 727-734.	2.5	22
23	Oscillatory Langmuir probe ion current in laser-produced plasma expansion. Europhysics Letters, 2010, 89, 65001.	0.7	22
24	Dispersive effects in laser ablation plasmas. Japanese Journal of Applied Physics, 2014, 53, 116202.	0.8	22
25	On the interaction between two fireballs in low-temperature plasma. Physics of Plasmas, 2015, 22, 113511.	0.7	22
26	Fractal model of the atom and some properties of the matter through an extended model of scale relativity. European Physical Journal D, 2008, 49, 239-248.	0.6	21
27	Investigation of femtosecond laser-produced plasma from various metallic targets using the Langmuir probe characteristic. Physics of Plasmas, 2017, 24, .	0.7	21
28	Implications of an extended fractal hydrodynamic model. European Physical Journal D, 2010, 56, 405-419.	0.6	20
29	Experimental and theoretical aspects of a laser produced plasma. Physics of Plasmas, 2014, 21, .	0.7	20
30	A compact non-differential approach for modeling laser ablation plasma dynamics. Journal of Applied Physics, 2017, 121, 083301.	1.1	20
31	El Naschieâ€™s Î¼(âˆž) spaceâ€“time and new results in scale relativity theories. Chaos, Solitons and Fractals, 2006, 30, 380-398.	2.5	19
32	Experimental and theoretical investigations of plasma multiple double layers and their evolution to chaos. Plasma Sources Science and Technology, 2013, 22, 035007.	1.3	19
33	A theoretical mathematical model for assessing diclofenac release from chitosan-based formulations. Drug Delivery, 2020, 27, 1125-1133.	2.5	19
34	El Naschieâ€™s Î¼(âˆž) spaceâ€“time, hydrodynamic model of scale relativity theory and some applications. Chaos, Solitons and Fractals, 2007, 34, 1704-1723.	2.5	18
35	El Naschieâ€™s Î¼(âˆž) spaceâ€“time and scale relativity theory in the topological dimension D=4. Chaos, Solitons and Fractals, 2007, 32, 1231-1240.	2.5	18
36	Local gravitoelectromagnetic effects on a superconductor. Physica C: Superconductivity and Its Applications, 2000, 339, 120-128.	0.6	17

#	Article	IF	Citations
37	Particle distribution in transient plasmas generated by ns-laser ablation on ternary metallic alloys. Applied Physics B: Lasers and Optics, 2019, 125, 1.	1.1	17
38	A Theoretical Approach of the Heat Transfer in Nanofluids. Materials Transactions, 2007, 48, 3021-3023.	0.4	16
39	Generalized lift force for complex fluid. Powder Technology, 2013, 235, 685-695.	2.1	15
40	Implications of Onicescu's informational energy in some fundamental physical models. International Journal of Modern Physics B, 2015, 29, 1550045.	1.0	15
41	Investigations on Thermal Conductivity of Carbon Nanotubes Reinforced Composites. Experimental Heat Transfer, 2015, 28, 37-57.	2.3	15
42	On the separation of particle flow during pulse laser deposition of heterogeneous materials - A multi-fractal approach. Powder Technology, 2018, 339, 273-280.	2.1	15
43	Theoretical Modeling of Long-Time Drug Release from Nitrosalicyl-Imine-Chitosan Hydrogels through Multifractal Logistic Type Laws. Computational and Mathematical Methods in Medicine, 2019, 2019, 1-10.	0.7	15
44	A Turbulence-Oriented Approach to Retrieve Various Atmospheric Parameters Using Advanced Lidar Data Processing Techniques. Atmosphere, 2019, 10, 38.	1.0	15
45	Characterization of Aluminum Laser Produced Plasma by Target Current Measurements. Japanese Journal of Applied Physics, 2012, 51, 106102.	0.8	14
46	Experimental and theoretical evidence for the chaotic dynamics of complex structures. Physica Scripta, 2013, 87, 045501.	1.2	14
47	Informational Non-Differentiable Entropy and Uncertainty Relations in Complex Systems. Entropy, 2014, 16, 6042-6058.	1.1	14
48	Some Implications of Gravitational Superconductivity. Progress of Theoretical Physics, 2000, 104, 733-742.	2.0	12
49	Non-Differentiable Mechanical Model andÂItsÂImplications. International Journal of Theoretical Physics, 2010, 49, 1489-1506.	0.5	12
50	Poly(vinyl alcohol boric acid)-Diclofenac Sodium Salt Drug Delivery Systems: Experimental and Theoretical Studies. Journal of Immunology Research, 2020, 2020, 1-14.	0.9	12
51	On the Cantorian Structure of Time in Relativity. Chaos, Solitons and Fractals, 1999, 10, 1295-1302.	2.5	11
52	Îµ(â^ž) Cantorian space-time, polarization gravitational field and van der Waals-type forces. Chaos, Solitons and Fractals, 2003, 18, 1-16.	2.5	11
53	Implications of Non-Differentiable Entropy on a Space-Time Manifold. Entropy, 2015, 17, 2184-2197.	1.1	11
54	On a Multifractal Approach of Turbulent Atmosphere Dynamics. Frontiers in Earth Science, 2020, 8, .	0.8	11

#	ARTICLE	IF	CITATIONS
55	Characterization of Aluminum Laser Produced Plasma by Target Current Measurements. Japanese Journal of Applied Physics, 2012, 51, 106102.	0.8	11
56	Some physical implications of the Weyl-Dirac theory. Classical and Quantum Gravity, 1999, 16, 3367-3380.	1.5	10
57	Fractal Characteristics of the Solidification Process. Materials Transactions, 2004, 45, 972-975.	0.4	10
58	The time dependent Ginzburgâ€"Landau equation in fractal spaceâ€"time. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 2757-2765.	0.9	10
59	Theoretical model for the diclofenac release from PEGylated chitosan hydrogels. Drug Delivery, 2021, 28, 261-271.	2.5	10
60	The uncertainty relation for an assembly of Planck-type oscillators. A possible GR-quantum mechanics connection. Chaos, Solitons and Fractals, 1997, 8, 809-821.	2.5	9
61	The wave-particle duality in the Weyl-Dirac theory. Classical and Quantum Gravity, 2000, 17, 3627-3644.	1.5	9
62	Cantorian E(âˆž) space-time and generalized superconductivity. Chaos, Solitons and Fractals, 2001, 12, 1947-1982.	2.5	9
63	Cantorian E(âˆž) space-time, gravitation and superconductivity. Chaos, Solitons and Fractals, 2002, 13, 1137-1165.	2.5	9
64	Cantorian E(âˆž) structures in discharge plasma double layers. Theoretical and experimental aspects of basic processes. Chaos, Solitons and Fractals, 2002, 13, 1541-1569.	2.5	9
65	Experimental and Theoretical Investigations of Anode Double Layer. Japanese Journal of Applied Physics, 2005, 44, 3253-3259.	0.8	9
66	El Naschieâ€™s supergravity by means of the gravitational instantons synchronization. Chaos, Solitons and Fractals, 2006, 30, 318-323.	2.5	9
67	Nonlinearities in Drug Release Process from Polymeric Microparticles: Long-Time-Scale Behaviour. Journal of Applied Mathematics, 2012, 2012, 1-26.	0.4	9
68	Atomicity through Fractal Measure Theory. , 2019, , .		9
69	Perturbative solutions of the Ginzburg-Landau equation and the superconducting parameters. Physical Review B, 1996, 53, 2229-2232.	1.1	8
70	The Cantorian structure of the background magnetic field and high temperature superconductors. Chaos, Solitons and Fractals, 2000, 11, 2561-2569.	2.5	8
71	Cantorian E(âˆž) spaceâ€"time, frames and unitary theories. Chaos, Solitons and Fractals, 2003, 15, 445-453.	2.5	8
72	El Naschieâ€™s cantorian strings and dendritic morphogenesis. Chaos, Solitons and Fractals, 2004, 21, 515-536.	2.5	8

#	Article	IF	Citations
73	ON ERNST BLACK HOLES WITH A DILATON POTENTIAL. Modern Physics Letters A, 2005, 20, 1077-1085.	0.5	8
74	A multiscale mechanism of drug release from polymeric matrices: confirmation through a nonlinear theoretical model. Physical Chemistry Chemical Physics, 2016, 18, 21809-21816.	1.3	8
75	Atomicity via regularity for non-additive set multifunctions. Soft Computing, 2016, 20, 4761-4766.	2.1	8
76	Superconductivity by means of the subquantum medium coherence. Journal of Mathematical Physics, 2005, 46, 062110.	0.5	7
77	El Naschieâ€™s Îµ(âˆž) spaceâ€"time and patterns in plasma discharge. Chaos, Solitons and Fractals, 2006, 30, 470-489.	2.5	7
78	El Naschieâ€™s Îµ(âˆž) theory and an alternative to gauged spacetime scale relativity theory. Chaos, Solitons and Fractals, 2007, 34, 1025-1029.	2.5	7
79	El Naschieâ€™s superconductivity in the time dependent Ginzburgâ€"Landau model. Chaos, Solitons and Fractals, 2007, 34, 1060-1074.	2.5	7
80	Some implications of Scale Relativity theory in avascular stages of growth of solid tumors in the presence of an immune system response. Journal of Theoretical Biology, 2011, 282, 52-64.	0.8	7
81	Fractal Method for Modeling the Peculiar Dynamics of Transient Carbon Plasma Generated by Excimer Laser Ablation in Vacuum. Complexity, 2018, 2018, 1-8.	0.9	7
82	Charged Particle Oscillations in Transient Plasmas Generated by Nanosecond Laser Ablation on Mg Target. Symmetry, 2020, 12, 292.	1.1	7
83	Hydrogels Based on Alginates and Carboxymethyl Cellulose with Modulated Drug Releaseâ€"An Experimental and Theoretical Study. Polymers, 2021, 13, 4461.	2.0	7
84	The Critical Pairâ€‘Breaking Current in Superconductors. Physica Status Solidi (B): Basic Research, 1995, 191, 189-192.	0.7	6
85	On the information and uncertainty relation of canonical quantum systems with SL(2R) invariance. Chaos, Solitons and Fractals, 1996, 7, 659-668.	2.5	6
86	Focusing and Guiding Charged Particles by a Superconducting Tube: An Analytical Nonlinear Approach for the Complete Flux Expulsion Model. Japanese Journal of Applied Physics, 1999, 38, 5863-5866.	0.8	6
87	Waveâ€"particle duality and superconductivity in Weylâ€"Dirac theories. Classical and Quantum Gravity, 2001, 18, 4743-4762.	1.5	6
88	Hydrodynamic formulation of scale relativity theory and unified superconductivity by means of a fractal string. Physica C: Superconductivity and Its Applications, 2003, 390, 37-55.	0.6	6
89	El Naschieâ€™s Îµ(âˆž) spaceâ€"time and the two slit experiment in the Weylâ€"Dirac theory. Chaos, Solitons and Fractals, 2006, 30, 441-452.	2.5	6
90	El Naschieâ€™s Cantorian gravity and Einsteinâ€™s quantum gravity. Chaos, Solitons and Fractals, 2006, 30, 30-40.	2.5	6

#	Article	IF	Citations
91	Gravitation theory in a fractal space-time. Journal of Mathematical Physics, 2006, 47, 053503.	0.5	6
92	Motion of Free Particles in Fractal Space-time. International Journal of Nonlinear Sciences and Numerical Simulation, 2009, 10, 1399-1414.	0.4	6
93	Dynamics Control of the Complex Systems via Nondifferentiability. Journal of Applied Mathematics, 2013, 2013, 1-12.	0.4	6
94	Solid components separation from heterogeneous mixtures through turbulence control. Powder Technology, 2015, 284, 170-186.	2.1	6
95	Non-linear behaviours in complex fluid dynamics via non-differentiability. Separation control of the solid components from heterogeneous mixtures. Powder Technology, 2015, 269, 452-460.	2.1	6
96	Fractal Information by Means of Harmonic Mappings and Some Physical Implications. Entropy, 2016, 18, 160.	1.1	6
97	New mechanisms of vesicles migration. General Physiology and Biophysics, 2016, 35, 287-298.	0.4	6
98	Pairs Generating as a Consequence of the Fractal Entropy: Theory and Applications. Entropy, 2017, 19, 128.	1.1	6
99	A Theoretical Multifractal Model for Assessing Urea Release from Chitosan Based Formulations. Polymers, 2020, 12, 1264.	2.0	6
100	Multifractal Model of Atmospheric Turbulence Applied to Elastic Lidar Data. Atmosphere, 2021, 12, 226.	1.0	6
101	A Theoretical Model for Release Dynamics of an Antifungal Agent Covalently Bonded to the Chitosan. Molecules, 2021, 26, 2089.	1.7	6
102	El Naschieâ€™s coherence on the subquantum medium. Chaos, Solitons and Fractals, 2005, 23, 1497-1509.	2.5	6
103	Investigations of Laser Produced Plasmas Generated by Laser Ablation on Geomaterials. Experimental and Theoretical Aspects. Symmetry, 2019, 11, 1391.	1.1	6
104	Manifest/Non-Manifest Drug Release Patterns from Polysaccharide Based Hydrogelsâ€"Case Study on Cyclodextrinâ€"Îº Carrageenan Crosslinked Hydrogels. Polymers, 2021, 13, 4147.	2.0	6
105	Update on the Use of Nanocarriers and Drug Delivery Systems and Future Directions in Cervical Cancer. Journal of Immunology Research, 2022, 2022, 1-11.	0.9	6
106	Wave guide perturbative solutions for the Ginzburgâ€"Landau equation.. Physica C: Superconductivity and Its Applications, 1999, 313, 219-224.	0.6	5
107	Gauge theories on El Naschieâ€™s Îµ(âˆž) space-time topology. Chaos, Solitons and Fractals, 2007, 32, 296-301.	2.5	5
108	Waveâ€"particle duality through an extended model of the scale relativity theory. Physica Scripta, 2008, 78, 065101.	1.2	5

#	Article	IF	Citations
109	Feigenbaum scenario in the dynamics of a metal–oxide semiconductor heterostructure under harmonic perturbation. Golden mean criticality. Chaos, Solitons and Fractals, 2009, 40, 975-980.	2.5	5
110	Multi-peak structure of the ion current in laser produced plasma. European Physical Journal D, 2010, 60, 317-323.	0.6	5
111	Static and free time-dependent fractal systems through an extended hydrodynamic model of the scale relativity theory. Physica Scripta, 2010, 82, 015010.	1.2	5
112	Computational properties of a fractal medium. International Journal of Quantum Information, 2014, 12, 1450022.	0.6	5
113	A fractal approach of the sound absorption behaviour of materials. Theoretical and experimental aspects. International Journal of Non-Linear Mechanics, 2018, 103, 128-137.	1.4	5
114	Towards Possible Laminar Channels through Turbulent Atmospheres in a Multifractal Paradigm. Atmosphere, 2021, 12, 1038.	1.0	5
115	Prospects and Challenges of the Drug Delivery Systems in Endometriosis Pain Management: Experimental and Theoretical Aspects. Journal of Immunology Research, 2021, 2021, 1-10.	0.9	5
116	Gravitation theory in the spacetime$R\ddot{\imath}\xi\frac{1}{2}S$ 3. Foundations of Physics, 1991, 21, 473-481.	0.6	4
117	Thermal Oscillation Modes of the Solid-Liquid Interface Solidification and Melting. Materials Transactions, 2001, 42, 197-206.	0.4	4
118	El Naschie's instanton by means of the Schwarzschild's gravitational field. Chaos, Solitons and Fractals, 2005, 25, 781-790.	2.5	4
119	El Naschie's self-organization of the patterns in a plasma discharge: Experimental and theoretical results. Chaos, Solitons and Fractals, 2007, 34, 172-186.	2.5	4
120	CHAOS VIA FRACTALITY IN GRAVITATIONAL SYSTEMS DYNAMICS: A NEW APPROACH (I). International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250299.	0.7	4
121	Order to Chaos Transition in Plasma via Non-Differentiability: Experimental and Theoretical Investigations. Journal of the Physical Society of Japan, 2014, 83, 054501.	0.7	4
122	From Kepler problem to skyrmions. Modern Physics Letters B, 2016, 30, 1650153.	1.0	4
123	Fractal-Type Dynamical Behaviors of Complex Systems. Complexity, 2018, 2018, 1-3.	0.9	4
124	Non-Linear Behaviors of Transient Periodic Plasma Dynamics in a Multifractal Paradigm. Symmetry, 2020, 12, 1356.	1.1	4
125	In-Situ Plasma Monitoring during the Pulsed Laser Deposition of Ni60Ti40 Thin Films. Symmetry, 2020, 12, 109.	1.1	4
126	Investigations of Transient Plasma Generated by Laser Ablation of Hydroxyapatite during the Pulsed Laser Deposition Process. Symmetry, 2020, 12, 132.	1.1	4

#	Article	IF	Citations
127	The Landscape of Nanovectors for Modulation in Cancer Immunotherapy. Pharmaceutics, 2022, 14, 397.	2.0	4
128	Transition and equilibrium processes in metal-ceramic particle systems. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1995, 26, 3021-3025.	1.1	3
129	The isotope effect coefficient dependence on nonstoichiometry for single CuO layer superconductors. Physica C: Superconductivity and Its Applications, 1996, 270, 317-326.	0.6	3
130	Focusing and Guiding Charged Particles Using a Superconducting Tube: An Analytical Nonlinear Approach. Japanese Journal of Applied Physics, 2000, 39, 5085-5089.	0.8	3
131	El Naschieâ€™s cantorian strings and duality in Weylâ€"Dirac theory. Chaos, Solitons and Fractals, 2004, 19, 1057-1070.	2.5	3
132	Golden mean relevance for chaos inhibition in a system of two coupled modified van der Pol oscillators. Chaos, Solitons and Fractals, 2007, 31, 1035-1040.	2.5	3
133	El Naschieâ€™s Îµ(âˆž) spaceâ€"time and scale relativity theory in the topological dimension D=3. Chaos, Solitons and Fractals, 2008, 38, 1243-1253.	2.5	3
134	New Model for Heat Transfer in Nanostructures. Journal of Computational and Theoretical Nanoscience, 2012, 9, 55-66.	0.4	3
135	Measuring the Electrical Properties of MWNT-PA6 Reinforced Nanocomposites. Journal of Nanomaterials, 2015, 2015, 1-9.	1.5	3
136			

#	ARTICLE	IF	CITATIONS
145	Superconducting Electronic Specific Heat Dependence on Temperature: Intrinsic Origin of the Upturn at Low T. Physica Status Solidi (B): Basic Research, 1997, 201, 465-470.	0.7	2
146	Gravitational Hall Effect and Gravitomagnetic Dynamo. Studia Geophysica Et Geodaetica, 1998, 42, 431-435.	0.3	2
147	A new theoretical approach of the gravitational shielding: Podkletnov's effect. Physica C: Superconductivity and Its Applications, 2000, 341-348, 307-308.	0.6	2
148	Cantorian E(âˆž) space-time in Cartan, de Broglie and field theories. Chaos, Solitons and Fractals, 2002, 14, 863-890.	2.5	2
149	El Naschieâ€™s Cantorian spaceâ€"time and an alternative to the Jakub Czajko issue. Chaos, Solitons and Fractals, 2005, 24, 701-706.	2.5	2
150	El Naschieâ€™s spaceâ€"time and gravitational instanton in Weylâ€"Dirac theory. Chaos, Solitons and Fractals, 2006, 28, 306-312.	2.5	2
151	El Naschieâ€™s Îµ(âˆž) spaceâ€"time, interface between Weylâ€"Dirac bubbles and Cantorian fractal superstring. Chaos, Solitons and Fractals, 2007, 34, 235-243.	2.5	2
152	Games with Cantorâ€™s dust. Chaos, Solitons and Fractals, 2009, 40, 940-945.	2.5	2
153	Transport phenomena in nanostructures and non-differentiable spaceâ€"time. Chaos, Solitons and Fractals, 2009, 40, 803-814.	2.5	2
154	A QUARK-INDEPENDENT DESCRIPTION OF CONFINEMENT. Modern Physics Letters A, 2013, 28, 1350126.	0.5	2
155	A gauge theory of nucleonic interactions by contact. Modern Physics Letters A, 2014, 29, 1450073.	0.5	2
156	Morphogenesis of gravitational structures through a non-differentiable approach. , 2014, , .		2
157	Chemical properties of hydroxyapatite deposited through electrophoretic process on different sandblasted samples. Materials Science-Poland, 2014, 32, 578-582.	0.4	2
158	Some Generalized Physical Models Through Homographic Group. Reports on Mathematical Physics, 2015, 76, 231-246.	0.4	2
159	A mathematicalâ€"physical approach on regularity in hit-and-miss hypertopologies for fuzzy set multifunctions. Mathematical Sciences, 2015, 9, 181-188.	1.0	2
160	The Classical Theory of Light Colors: a Paradigm for Description of Particle Interactions. International Journal of Theoretical Physics, 2016, 55, 2773-2793.	0.5	2
161	Role of surface gauging in extended particle interactions: The case for spin. European Physical Journal Plus, 2016, 131, 1.	1.2	2
162	Experimental and Theoretical Studies on the Dynamics of Transient Plasmas Generated by Laser Ablation in Various Temporal Regimes. , 0, , .		2

#	Article	IF	Citations
163	Anisotropy Influences on the Drug Delivery Mechanisms by Means of Joint Invariant Functions. Computational and Mathematical Methods in Medicine, 2017, 2017, 1-8.	0.7	2
164	Toward Interactions through Information in a Multifractal Paradigm. Entropy, 2020, 22, 987.	1.1	2
165	Novel Approach for EEG Signal Analysis in a Multifractal Paradigm of Motions. Epileptic and Eclamptic Seizures as Scale Transitions. Symmetry, 2021, 13, 1024.	1.1	2
166	Evaluating atrial fibrillations through strange attractors dynamics. General Physiology and Biophysics, 2021, 40, 377-386.	0.4	2
167	A fractal physics explanation for acute thrombotic occlusion in an apparently healthy coronary artery. Anatolian Journal of Cardiology, 2017, 18, 155-157.	0.5	2
168	Operational Procedures in the Theory of the Drug Release from Chitosan Hydrogels. Materiale Plastice, 2018, 55, 590-594.	0.4	2
169	Assessment of Complex System Dynamics via Harmonic Mapping in a Multifractal Paradigm. Mathematics, 2021, 9, 3298.	1.1	2
170	Statistical Analysis and Machine Learning Used in the Case of Two Behavioral Tests Applied in Zebrafish Exposed to Mycotoxins. Applied Sciences (Switzerland), 2022, 12, 2908.	1.3	2
171	Boundary Layer via Multifractal Mass Conductivity through Remote Sensing Data in Atmospheric Dynamics. Fractal and Fractional, 2022, 6, 250.	1.6	2
172	A possible new approach of superconductivity. Physica Status Solidi (B): Basic Research, 1996, 196, 367-372.	0.7	1
173	Model of gravitation with repulsive force. Journal of the Franklin Institute, 1997, 334, 57-62.	1.9	1
174	Ginzburgâ€"Landau equation and the temperature dependence of the superconducting state parameters. Physica C: Superconductivity and Its Applications, 2000, 336, 123-130.	0.6	1
175	Cantorian spaceâ€"time and the energy gap of high temperature superconductors. Chaos, Solitons and Fractals, 2001, 12, 735-740.	2.5	1
176	Cantorian-fractal space-time and particles in a generalized magnetic field. Chaos, Solitons and Fractals, 2001, 12, 1489-1497.	2.5	1
177	On the Weylâ€"Dirac duality by means of a Cantorian fractal string. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 314, 131-139.	0.9	1
178	Dendritic Morphogenesis by Means of a Fractal. Materials Transactions, 2004, 45, 1528-1534.	0.4	1
179	On a Petrov-type D solution in Einstein-scalar field theory. General Relativity and Gravitation, 2006, 38, 1681-1686.	0.7	1
180	Reissnerâ€"NordstrÃ¶m-deâ€"Sitter-type Solution by a Gauge Theory of Gravity. Chinese Physics Letters, 2008, 25, 3570-3573.	1.3	1

#	Article	IF	Citations
181	Gauge Gravitational Field in a Fractal Space-Time. Communications in Theoretical Physics, 2008, 50, 1197-1204.	1.1	1
182	Towards a self-organizing Universe. Journal of Physics: Conference Series, 2008, 96, 012141.	0.3	1
183	Ricci-flat black holes in higher dimensional $SU(2)$ Einstein–Yang–Mills theory with negative cosmological constant. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 688, 88-95.	1.5	1
184	The Corrosion Resistance of NiTi-Active Element before and after Thermo-Mechanical Solicitation. Applied Mechanics and Materials, 0, 371, 353-357.	0.2	1
185	The concept of physical surface in nuclear matter. Modern Physics Letters A, 2015, 30, 1550026.	0.5	1
186	Interferential Behaviors in Nanostructures via Non-Differentiability. Journal of Computational and Theoretical Nanoscience, 2015, 12, 1483-1489.	0.4	1
187	On the Memorizing Ability of Nanostructures. Journal of Computational and Theoretical Nanoscience, 2015, 12, 682-688.	0.4	1
188	Order–Disorder Transition in Nanostructures via Non-Differentiability. Journal of Computational and Theoretical Nanoscience, 2015, 12, 1746-1755.	0.4	1
189	Space-and time-resolved optical investigations on ns-laser produced plasmas on various geological samples. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 170, 105904.	1.5	1
190	A Drug Release Mechanism Controlled by Hydrophobic/Hydrophilic Balance of the Matrix. Theoretical and Experimental Perspectives. Materiale Plastice, 2021, 57, 155-165.	0.4	1
191	Novel Approach for EKG Signals Analysis Based on Markovian and Non-Markovian Fractalization Type in Scale Relativity Theory. Symmetry, 2021, 13, 456.	1.1	1
192	Bingham Type Behaviours in Complex Fluids Stopper Type Effect. Journal of Computational and Theoretical Nanoscience, 2015, 12, 3178-3182.	0.4	1
193	Holographic-Type Gravitation via Non-Differentiability in Weyl-Dirac Theory. Journal of Modern Physics, 2013, 04, 165-171.	0.3	1
194	Multifractal Model for Transient Phenomena Analysis in Laser Produced Plasmas. Symmetry, 2021, 13, 1968.	1.1	1
195	Analysis of Low-Frequency Instabilities in Low-Temperature Magnetized Plasma. , 2018, , 93-106.		1
196	Several hypertopologies: A short overview. , 2019, , 1-7.		1
197	Atomicity via regularity for non-additive set multifunctions. , 2019, , 123-131.		1
198	Impact of the Liquid Crystal Order of Poly(azomethine-sulfone)s on the Semiconducting Properties. Polymers, 2022, 14, 1487.	2.0	1

#	Article	IF	Citations
199	The Search for Atmospheric Laminar Channels: Experimental Results and Method Dissemination. Sensors, 2022, 22, 158.	2.1	1
200	Drug-Loaded Polymeric Particulated Systems for Ophthalmic Drugs Release. Molecules, 2022, 27, 4512.	1.7	1
201	The relativistic Boltzmann equation and the macroscopic equations of conservation. Acta Physica Academiae Scientiarum Hungaricae, 1978, 44, 239-244.	0.1	0
202	Cantorian space-time, de Broglie and the pair-breaking time of high-temperature superconductors. Chaos, Solitons and Fractals, 2001, 12, 571-577.	2.5	0
203	Focusing and Guiding Charged Particles using Two-layer Superconducting Tubes: A Theoretical Approach. Japanese Journal of Applied Physics, 2002, 41, 4523-4526.	0.8	0
204	Improved Confinement of Neon Plasma Inside a High-Critical Temperature Superconducting Tube: A Theoretical Approach. Japanese Journal of Applied Physics, 2004, 43, 6050-6051.	0.8	0
205	El Naschieâ€™s structures in the electrodynamics of polarizable media. Chaos, Solitons and Fractals, 2005, 24, 1165-1181.	2.5	0
206	Ball lightning as a self-organizing process of a plasmaâ€"plasma interface and El Naschieâ€™s Îµ(â^ž) spaceâ€"time. Chaos, Solitons and Fractals, 2007, 33, 754-769.	2.5	0
207	Suggestions for classifying the fractals and their connections with the Cantor's cardinal numbers. Journal of Physics: Conference Series, 2008, 96, 012142.	0.3	0
208	The chaotic atom model via a fractal approximation of motion. Physica Scripta, 2011, 84, 045017.	1.2	0
209	Experimental and Modeling Results on Multiple Double Layers in Low-Temperature Discharge Plasma. IEEE Transactions on Plasma Science, 2011, 39, 2316-2317.	0.6	0
210	Some Aspects Concerning the "Memorization Effect" in Complex Fluid. Acta Physica Polonica A, 2014, 126, 663-670.	0.2	0
211	Coherence-Type Behaviours in Nanostructures. Journal of Computational and Theoretical Nanoscience, 2015, 12, 263-269.	0.4	0
212	Theoretical Approach of Differentiableâ€"Non-Differentiable Scale Transition in Nanostructures. Journal of Computational and Theoretical Nanoscience, 2015, 12, 2140-2151.	0.4	0
213	Implications of Quantum Informational Entropy in Some Fundamental Physical and Biophysical Models. , 0, , .		0
214	Fractal Aspects in Classical Parallel Computing. Computers, 2016, 5, 19.	2.1	0
215	Acute arterial occlusion of apparently healthy arteries â€" A conclusive explanation using fractal physics. Atherosclerosis, 2016, 252, e185.	0.4	0
216	New mathematical procedures in the investigation of biological nanostructure dynamics. , 2017, , .		0

#	Article	IF	Citations
217	Intergranular degradation of stainless steel tubular components used for kerosene transportation. Metallographic analysis. MATEC Web of Conferences, 2017, 121, 09007.	0.1	0
218	On the Chameleonic Behaviour of Cholesterol through a Fractal/Multifractal Model. Computational and Mathematical Methods in Medicine, 2020, 2020, 1-11.	0.7	0
219	Towards Stochasticity through Joint Invariant Functions of Two Isomorphic Lie Algebras of SL(2R) Type. Symmetry, 2020, 12, 226.	1.1	0
220	Toward Complex Systems Dynamics through Flow Regimes of Multifractal Fluids. Symmetry, 2021, 13, 754.	1.1	0
221	Multifractality through Non-Markovian Stochastic Processes in the Scale Relativity Theory. Acute Arterial Occlusions as Scale Transitions. Entropy, 2021, 23, 444.	1.1	0
222	Dynamics of Transient Plasmas Generated by ns Laser Ablation of Memory Shape Alloys. , 0, , .		0
223	The Role of Information in Managing Interactions from a Multifractal Perspective. Entropy, 2021, 23, 148.	1.1	0
224	Fractal Model of the Atom in the Hydrodynamic Approach of Scale Relativity Theory. Revista De Chimie (discontinued), 2008, 59, 472-477.	0.2	0
225	Malignant Invasion Model with Small Amount of Diffusion in the Framework of Scale Relativity Theory. Reviews in Theoretical Science, 2015, 3, 399-417.	0.5	0
226	Theoretical Modeling of the Interaction Between Two Complex Space Charge Structures in Low-Temperature Plasma. , 2018, , 107-124.		0
227	Spectral Properties of HEMA/poly(HEMA) as Ligand in Luminescent Europium Based Complexes Through Computational Investigation. Revista De Chimie (discontinued), 2018, 69, 2430-2434.	0.2	0
228	Extended atomicity through non-differentiability and its physical implications. , 2019, , 133-162.		0
229	Brain Dynamics Explained by Means of Spectral-Structural Neuronal Networks. Springer Proceedings in Complexity, 2020, , 27-44.	0.2	0
230	A Statistical Interpretation of the Classical Action with Implications in the Dynamics of Non-Linear Growth Biostructures. , 2020, , .		0
231	Multifractality via Stochasticity in Atmospheric Dynamics Description Validated through Remote Sensing Data. Mathematics, 2022, 10, 1004.	1.1	0
232	Implications and Consequences of SL(2R) as Invariance Group in the Description of Complex Systems Dynamics from a Multifractal Perspective of Motion. Entropy, 2022, 24, 484.	1.1	0
233	Complex Behavior in the Dynamics of a Polymeric Biocomposite Material—"Liquid Wood" Experimental and Theoretical Aspects. Polymers, 2022, 14, 64.	2.0	0
234	Langmuir Probe Perturbations during In Situ Monitoring of Pulsed Laser Deposition Plasmas. Materials, 2022, 15, 2769.	1.3	0

#	ARTICLE	IF	CITATIONS
235	Infectious Inflammatory Processes and the Role of Bioactive Agent Released from Imino-Chitosan Derivatives Experimental and Theoretical Aspects. Polymers, 2022, 14, 1848.	2.0	0