

Jacques Demongeot

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6384364/publications.pdf>

Version: 2024-02-01

264
papers

4,984
citations

126708

33
h-index

161609

54
g-index

290
all docs

290
docs citations

290
times ranked

3433
citing authors

#	ARTICLE	IF	CITATIONS
1	Positive and Negative Feedback: Striking a Balance Between Necessary Antagonists. <i>Journal of Theoretical Biology</i> , 2002, 216, 229-241.	0.8	198
2	Health "Smart" Home: Information Technology for Patients at Home. <i>Telemedicine Journal and E-Health</i> , 2002, 8, 395-409.	1.6	152
3	MitomiRs delineating the intracellular localization of microRNAs at mitochondria. <i>Free Radical Biology and Medicine</i> , 2013, 64, 12-19.	1.3	147
4	A system for automatic measurement of circadian activity deviations in telemedicine. <i>IEEE Transactions on Biomedical Engineering</i> , 2002, 49, 1463-1469.	2.5	128
5	Temperature Decreases Spread Parameters of the New Covid-19 Case Dynamics. <i>Biology</i> , 2020, 9, 94.	1.3	113
6	Modelling malaria incidence with environmental dependency in a locality of Sudanese savannah area, Mali. <i>Malaria Journal</i> , 2009, 8, 61.	0.8	104
7	High-dimensional switches and the modelling of cellular differentiation. <i>Journal of Theoretical Biology</i> , 2005, 233, 391-411.	0.8	102
8	Multi-sensors acquisition, data fusion, knowledge mining and alarm triggering in health smart homes for elderly people. <i>Comptes Rendus - Biologies</i> , 2002, 325, 673-682.	0.1	92
9	BMP2 and BMP7 play antagonistic roles in feather induction. <i>Development (Cambridge)</i> , 2008, 135, 2797-2805.	1.2	88
10	Quantitative and Qualitative Changes in VJ \pm Rearrangements During Mouse Thymocytes Differentiation. <i>Journal of Experimental Medicine</i> , 2002, 196, 1163-1174.	4.2	83
11	Factors associated with the spatial heterogeneity of the first wave of COVID-19 in France: a nationwide geo-epidemiological study. <i>Lancet Public Health</i> , The, 2021, 6, e222-e231.	4.7	82
12	A Novel Monitoring System for Fall Detection in Older People. <i>IEEE Access</i> , 2018, 6, 43563-43574.	2.6	81
13	A Model for the Measurement of Patient Activity in a Hospital Suite. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2006, 10, 92-99.	3.6	77
14	Roles of positive and negative feedback in biological systems. <i>Comptes Rendus - Biologies</i> , 2002, 325, 1085-1095.	0.1	74
15	Robustness in Regulatory Networks: A Multi-Disciplinary Approach. <i>Acta Biotheoretica</i> , 2008, 56, 27-49.	0.7	69
16	Attraction Basins as Gauges of Robustness against Boundary Conditions in Biological Complex Systems. <i>PLoS ONE</i> , 2010, 5, e11793.	1.1	65
17	A possible circular RNA at the origin of life. <i>Journal of Theoretical Biology</i> , 2007, 249, 314-324.	0.8	62
18	Positive and Negative Circuits in Discrete Neural Networks. <i>IEEE Transactions on Neural Networks</i> , 2004, 15, 77-83.	4.8	60

#	ARTICLE	IF	CITATIONS
19	Positive feedback circuits and memory. Comptes Rendus De L'Académie Des Sciences Série 3, Sciences De La Vie, 2000, 323, 69-79.	0.8	56
20	Can a plantar pressure-based tongue-placed electro-tactile biofeedback improve postural control under altered vestibular and neck proprioceptive conditions?. Neuroscience, 2008, 155, 291-296.	1.1	51
21	Strategies for graphical threshold determination. Computer Methods and Programs in Biomedicine, 1991, 35, 141-150.	2.6	50
22	Controlling posture using a plantar pressure-based, tongue-placed tactile biofeedback system. Experimental Brain Research, 2007, 179, 409-414.	0.7	49
23	Fixed points and maximal independent sets in AND-OR networks. Discrete Applied Mathematics, 2004, 138, 277-288.	0.5	45
24	Combinatorics of Boolean automata circuits dynamics. Discrete Applied Mathematics, 2012, 160, 398-415.	0.5	45
25	Viability thresholds for partial trisomies and monosomies. A study of 1,159 viable unbalanced reciprocal translocations. Human Genetics, 1994, 93, 188-94.	1.8	43
26	Cartographic study: Breakpoints in 1574 families carrying human reciprocal translocations. Human Genetics, 1996, 97, 659-667.	1.8	43
27	Sensory supplementation system based on electro-tactile tongue biofeedback of head position for balance control. Neuroscience Letters, 2008, 431, 206-210.	1.0	43
28	Theoretical and practical aspects of the quadratic error in the local linear estimation of the conditional density for functional data. Computational Statistics and Data Analysis, 2014, 73, 53-68.	0.7	41
29	Genetic regulation networks: circuits, regulons and attractors. Comptes Rendus - Biologies, 2003, 326, 171-188.	0.1	40
30	Biological Self-Organization by Way of Microtubule Reaction-Diffusion Processes. Langmuir, 2002, 18, 7196-7207.	1.6	39
31	On limit cycles of monotone functions with symmetric connection graph. Theoretical Computer Science, 2004, 322, 237-244.	0.5	38
32	Functional data: local linear estimation of the conditional density and its application. Statistics, 2013, 47, 26-44.	0.3	36
33	Formulas for threshold computations. Journal of Biomedical Informatics, 1991, 24, 514-529.	0.7	35
34	Behavioral Telemonitoring of the Elderly at Home: Detection of Nycthemeral Rhythms Drifts from Location Data. , 2010, , .		33
35	Spontaneous evolution of circular codes in theoretical minimal RNA rings. Gene, 2019, 705, 95-102.	1.0	33
36	IMGT/GenEInfo: enhancing V(D)J recombination database accessibility. Nucleic Acids Research, 2004, 32, 51D-54.	6.5	32

#	ARTICLE	IF	CITATIONS
37	Biological Boundaries and Biological Age. <i>Acta Biotheoretica</i> , 2009, 57, 397-418.	0.7	32
38	Simulation of a biological oscillator: The respiratory system. <i>Journal of Theoretical Biology</i> , 1983, 103, 113-132.	0.8	31
39	Tongue-placed tactile biofeedback suppresses the deleterious effects of muscle fatigue on joint position sense at the ankle. <i>Experimental Brain Research</i> , 2007, 183, 235-240.	0.7	31
40	A wireless embedded tongue tactile biofeedback system for balance control. <i>Pervasive and Mobile Computing</i> , 2009, 5, 268-275.	2.1	31
41	On the Local Linear Modelization of the Conditional Distribution for Functional Data. <i>Sankhya A</i> , 2014, 76, 328-355.	0.4	31
42	Robustness in Regulatory Interaction Networks. A Generic Approach with Applications at Different Levels: Physiologic, Metabolic and Genetic. <i>International Journal of Molecular Sciences</i> , 2009, 10, 4437-4473.	1.8	29
43	Demography and Diffusion in Epidemics: Malaria and Black Death Spread. <i>Acta Biotheoretica</i> , 2010, 58, 277-305.	0.7	29
44	“Immune networks”, intersecting circuits and dynamics. <i>Journal of Theoretical Biology</i> , 2011, 280, 19-33.	0.8	29
45	Boundary conditions and phase transitions in neural networks. Theoretical results. <i>Neural Networks</i> , 2008, 21, 971-979.	3.3	28
46	About block-parallel Boolean networks: a position paper. <i>Natural Computing</i> , 2020, 19, 5-13.	1.8	28
47	Modelling of auxin transport affected by gravity and differential radial growth. <i>Journal of Theoretical Biology</i> , 2006, 241, 241-251.	0.8	27
48	LiÅ©nard systems and potential-Hamiltonian decomposition I “ methodology. <i>Comptes Rendus Mathematique</i> , 2007, 344, 121-126.	0.1	27
49	Boundary conditions and phase transitions in neural networks. Simulation results. <i>Neural Networks</i> , 2008, 21, 962-970.	3.3	27
50	On Circuit Functionality in Boolean Networks. <i>Bulletin of Mathematical Biology</i> , 2013, 75, 906-919.	0.9	27
51	Relative-error prediction in nonparametric functional statistics: Theory and practice. <i>Journal of Multivariate Analysis</i> , 2016, 146, 261-268.	0.5	27
52	More Pieces of Ancient than Recent Theoretical Minimal Proto-tRNA-Like RNA Rings in Genes Coding for tRNA Synthetases. <i>Journal of Molecular Evolution</i> , 2019, 87, 152-174.	0.8	27
53	Microtubule Self-organisation and its Gravity Dependence. <i>Advances in Space Biology and Medicine</i> , 2002, 8, 19-58.	0.5	26
54	LiÅ©nard systems and potential“Hamiltonian decomposition “ Applications in biology. <i>Comptes Rendus - Biologies</i> , 2007, 330, 97-106.	0.1	26

#	ARTICLE	IF	CITATIONS
55	LiÅ©nard systems and potential-Hamiltonian decomposition III â€“ applications. <i>Comptes Rendus Mathematique</i> , 2007, 344, 253-258.	0.1	26
56	Automated Registration of Ultrasound with CT Images: Application to Computer Assisted Prostate Radiotherapy and Orthopedics. <i>Lecture Notes in Computer Science</i> , 1999, , 768-777.	1.0	26
57	Tree Representation for Image Matching and Object Recognition. <i>Lecture Notes in Computer Science</i> , 1999, , 298-309.	1.0	25
58	Microtubule self-organisation by reaction-diffusion processes causes collective transport and organisation of cellular particles. <i>BMC Cell Biology</i> , 2004, 5, 23.	3.0	25
59	What is the biological basis of pattern formation of skin lesions?. <i>Experimental Dermatology</i> , 2006, 15, 547-549.	1.4	25
60	Inter-individual variability in sensory weighting of a plantar pressure-based, tongue-placed tactile biofeedback for controlling posture. <i>Neuroscience Letters</i> , 2007, 421, 173-177.	1.0	25
61	Effectiveness of an electro-tactile vestibular substitution system in improving upright postural control in unilateral vestibular-defective patients. <i>Gait and Posture</i> , 2008, 28, 711-715.	0.6	25
62	The Uroboros Theory of Lifeâ€™s Origin: 22-Nucleotide Theoretical Minimal RNA Rings Reflect Evolution of Genetic Code and tRNA-rRNA Translation Machineries. <i>Acta Biotheoretica</i> , 2019, 67, 273-297.	0.7	25
63	Theoretical minimal RNA rings recapitulate the order of the genetic code's codon-amino acid assignments. <i>Journal of Theoretical Biology</i> , 2019, 471, 108-116.	0.8	25
64	Inverted Covariate Effects for First versus Mutated Second Wave Covid-19: High Temperature Spread Biased for Young. <i>Biology</i> , 2020, 9, 226.	1.3	25
65	Improving human ankle joint position sense using an artificial tongue-placed tactile biofeedback. <i>Neuroscience Letters</i> , 2006, 405, 19-23.	1.0	24
66	Micro-RNAs: viral genome and robustness of gene expression in the host. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 4941-4965.	1.6	24
67	Image cytometry of estrogen receptors in breast carcinomas. <i>Cytometry</i> , 1988, 9, 579-587.	1.8	23
68	A mathematical model for storage and recall functions in plants. <i>Comptes Rendus De L'AcadÃ©mie Des Sciences SÃ©rie 3, Sciences De La Vie</i> , 2000, 323, 93-97.	0.8	23
69	Morphogenetic Processes: Application to Cambial Growth Dynamics. <i>Acta Biotheoretica</i> , 2004, 52, 415-438.	0.7	23
70	LiÅ©nard systems and potential-Hamiltonian decomposition II â€“ algorithm. <i>Comptes Rendus Mathematique</i> , 2007, 344, 191-194.	0.1	23
71	Guiding the Surgical Gesture Using an Electro-Tactile Stimulus Array on the Tongue: A Feasibility Study. <i>IEEE Transactions on Biomedical Engineering</i> , 2007, 54, 711-717.	2.5	23
72	An open issue: The inner mitochondrial membrane (IMM) as a free boundary problem. <i>Biochimie</i> , 2007, 89, 1049-1057.	1.3	22

#	ARTICLE	IF	CITATIONS
73	RNA Relics and Origin of Life. International Journal of Molecular Sciences, 2009, 10, 3420-3441.	1.8	22
74	Logistic regression model to estimate the risk of unbalanced offspring in reciprocal translocations. Human Genetics, 1993, 92, 598-604.	1.8	21
75	Analysis of Reproduction Number R0 of COVID-19 Using Current Health Expenditure as Gross Domestic Product Percentage (CHE/GDP) across Countries. Healthcare (Switzerland), 2021, 9, 1247.	1.0	21
76	Human reciprocal translocations: is the unbalanced mode at birth predictable?. Human Genetics, 1993, 91, 228-32.	1.8	20
77	Numerical simulations of microtubule self-organisation by reaction and diffusion. Acta Biotheoretica, 2002, 50, 239-268.	0.7	20
78	Efficient Algorithms to Implement the Confinement Tree. Lecture Notes in Computer Science, 2000, , 392-405.	1.0	20
79	SARS-CoV-2 and miRNA-like inhibition power. Medical Hypotheses, 2020, 144, 110245.	0.8	20
80	Random field and neural information.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 806-810.	3.3	19
81	IMGT/GenEInfo: T cell receptor gamma TRG and delta TRD genes in database give access to all TR potential V(D)J recombinations. BMC Bioinformatics, 2006, 7, 224.	1.2	19
82	Numerical Modelling Of The V-J Combinations Of The T Cell Receptor TRA/TRD Locus. PLoS Computational Biology, 2010, 6, e1000682.	1.5	19
83	Theoretical minimal RNA rings designed according to coding constraints mimic deamination gradients. Die Naturwissenschaften, 2019, 106, 44.	0.6	19
84	Bias for 3â€²-Dominant Codon Directional Asymmetry in Theoretical Minimal RNA Rings. Journal of Computational Biology, 2019, 26, 1003-1012.	0.8	19
85	Potential automata. Application to the genetic code III. Comptes Rendus - Biologies, 2006, 329, 953-962.	0.1	18
86	Cellular Modelling of Secondary Radial Growth in Conifer Trees: Application to Pinus Radiata (D.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	0.9	18
87	Postural destabilization induced by trunk extensor muscles fatigue is suppressed by use of a plantar pressure-based electro-tactile biofeedback. European Journal of Applied Physiology, 2008, 104, 119-125.	1.2	18
88	Sigmoidicity in Allosteric Models. Mathematical Biosciences, 1983, 67, 1-17.	0.9	17
89	Synchrony in reactionâ€“diffusion models of morphogenesis: applications to curvature-dependent proliferation and zero-diffusion front waves. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 4829-4862.	1.6	17
90	Evolution of social networks: the example of obesity. Biogerontology, 2014, 15, 611-626.	2.0	17

#	ARTICLE	IF	CITATIONS
91	Comparisons between small ribosomal RNA and theoretical minimal RNA ring secondary structures confirm phylogenetic and structural accretion histories. <i>Scientific Reports</i> , 2020, 10, 7693.	1.6	17
92	RNA Rings Strengthen Hairpin Accretion Hypotheses for tRNA Evolution: A Reply to Commentaries by Z.F. Burton and M. Di Giulio. <i>Journal of Molecular Evolution</i> , 2020, 88, 243-252.	0.8	17
93	A Wireless Lingual Feedback Device to Reduce Overpressures in Seated Posture: A Feasibility Study. <i>PLoS ONE</i> , 2009, 4, e7550.	1.1	17
94	Entrainment of the Respiratory Rhythm: A New Approach. <i>Journal of Theoretical Biology</i> , 1993, 164, 149-162.	0.8	16
95	Dynamic functional and structural analysis of living cells: New tools for vital staining of nuclear DNA and for characterisation of cell motion. <i>Acta Biotheoretica</i> , 1995, 43, 299-317.	0.7	16
96	Storage and recall of environmental signals in a plant: modelling by use of a differential (continuous) formulation. <i>Comptes Rendus - Biologies</i> , 2006, 329, 971-978.	0.1	16
97	How a plantar pressure-based, tongue-placed tactile biofeedback modifies postural control mechanisms during quiet standing. <i>Experimental Brain Research</i> , 2007, 181, 547-554.	0.7	16
98	Random Modelling of Contagious Diseases. <i>Acta Biotheoretica</i> , 2013, 61, 141-172.	0.7	16
99	Assessment of insulin resistance in fructose-fed rats with 125I-6-deoxy-6-iodo-D-glucose, a new tracer of glucose transport. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2007, 34, 734-744.	3.3	15
100	Structural Sensitivity of Neural and Genetic Networks. <i>Lecture Notes in Computer Science</i> , 2008, , 973-986.	1.0	15
101	Modeling Vaccine Efficacy for COVID-19 Outbreak in New York City. <i>Biology</i> , 2022, 11, 345.	1.3	15
102	Comparison of reaction-diffusion simulations with experiment in self-organised microtubule solutions. <i>Comptes Rendus - Biologies</i> , 2002, 325, 283-294.	0.1	14
103	Estimation locale linéaire de la densité conditionnelle pour des données fonctionnelles. <i>Comptes Rendus Mathématique</i> , 2010, 348, 931-934.	0.1	14
104	Evolution of tRNA into rRNA secondary structures. <i>Gene Reports</i> , 2019, 17, 100483.	0.4	14
105	Pentamers with Non-redundant Frames: Bias for Natural Circular Code Codons. <i>Journal of Molecular Evolution</i> , 2020, 88, 194-201.	0.8	14
106	The primordial tRNA acceptor stem code from theoretical minimal RNA ring clusters. <i>BMC Genetics</i> , 2020, 21, 7.	2.7	14
107	Demography in epidemics modelling. <i>Communications on Pure and Applied Analysis</i> , 2012, 11, 61-82.	0.4	14
108	Estimation of Daily Reproduction Numbers during the COVID-19 Outbreak. <i>Computation</i> , 2021, 9, 109.	1.0	14

#	ARTICLE	IF	CITATIONS
109	Functional data analysis: Application to daily observation of COVID-19 prevalence in France. AIMS Mathematics, 2022, 7, 5347-5385.	0.7	14
110	Performance map of a cluster detection test using extended power. International Journal of Health Geographics, 2013, 12, 47.	1.2	13
111	A robust phenomenological approach to investigate COVID-19 data for France. Mathematics in Applied Sciences and Engineering, 0, , 1-12.	0.3	13
112	Approach to COVID-19 time series data using deep learning and spectral analysis methods. AIMS Bioengineering, 2021, 9, 1-21.	0.6	13
113	Local linear regression modelization when all variables are curves. Statistics and Probability Letters, 2017, 121, 37-44.	0.4	12
114	Memory in plants: Boolean modeling of the learning and store/recall memory functions in response to environmental stimuli. Journal of Theoretical Biology, 2019, 467, 123-133.	0.8	12
115	Accretion history of large ribosomal subunits deduced from theoretical minimal RNA rings is congruent with histories derived from phylogenetic and structural methods. Gene, 2020, 738, 144436.	1.0	12
116	What can we learn from COVID-19 data by using epidemic models with unidentified infectious cases?. Mathematical Biosciences and Engineering, 2021, 19, 537-594.	1.0	12
117	Convergence of a self-organizing stochastic neural network. Neural Networks, 1992, 5, 277-282.	3.3	11
118	Robustness in biological regulatory networks II: Application to genetic threshold Boolean random regulatory networks (getBren). Comptes Rendus Mathematique, 2012, 350, 225-228.	0.1	11
119	Pressure Sores Prevention for Paraplegic People: Effects of Visual, Auditory and Tactile Supplementations on Overpressures Distribution in Seated Posture. Applied Bionics and Biomechanics, 2012, 9, 61-67.	0.5	11
120	Robustness in biological regulatory networks I: Mathematical approach. Comptes Rendus Mathematique, 2012, 350, 221-224.	0.1	11
121	On the number of update digraphs and its relation with the feedback arc sets and tournaments. Discrete Applied Mathematics, 2013, 161, 1345-1355.	0.5	11
122	Implementation of an extended Fellegi-Sunter probabilistic record linkage method using the Jaro-Winkler string comparator. , 2014, , .		11
123	Cluster Detection Tests in Spatial Epidemiology: A Global Indicator for Performance Assessment. PLoS ONE, 2015, 10, e0130594.	1.1	11
124	Complexity and Stability in Biological Systems. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1540013.	0.7	11
125	Towards unified and real-time analyses of outbreaks at country-level during pandemics. One Health, 2020, 11, 100187.	1.5	11
126	Understanding Physiological and Degenerative Natural Vision Mechanisms to Define Contrast and Contour Operators. PLoS ONE, 2009, 4, e6010.	1.1	11

#	ARTICLE	IF	CITATIONS
127	Circadian Rhythms in the Telephone Calls of Older Adults: Observational Descriptive Study. JMIR MHealth and UHealth, 2020, 8, e12452.	1.8	11
128	Modeling of COVID-19 Pandemic vis-à-vis Some Socio-Economic Factors. Frontiers in Applied Mathematics and Statistics, 2022, 7, .	0.7	11
129	Bio-array images processing and genetic networks modelling. Comptes Rendus - Biologies, 2003, 326, 487-500.	0.1	10
130	Approximation for limit cycles and their isochrons. Comptes Rendus - Biologies, 2006, 329, 967-970.	0.1	10
131	A General Formalism for Tissue Morphogenesis Based on Cellular Dynamics and Control System Interactions. Acta Biotheoretica, 2008, 56, 51-74.	0.7	10
132	Interaction Motifs in Regulatory Networks and Structural Robustness. , 2008, , .		10
133	The Isochronal Fibration: Characterization and Implication in Biology. Acta Biotheoretica, 2010, 58, 121-142.	0.7	10
134	ZERO-DIFFUSION DOMAINS IN REACTION-DIFFUSION MORPHOGENETIC AND EPIDEMIOLOGIC PROCESSES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250028.	0.7	10
135	From susceptibility to frailty in social networks: The case of obesity. Mathematical Population Studies, 2017, 24, 219-245.	0.8	10
136	A Novel Low-Cost Sensor Prototype for Nocturia Monitoring in Older People. IEEE Access, 2018, 6, 52500-52509.	2.6	10
137	Emergence of a "Cyclosome" in a Primitive Network Capable of Building "Infinite" Proteins. Life, 2019, 9, 51.	1.1	10
138	Why Is AUG the Start Codon?. BioEssays, 2020, 42, 1900201.	1.2	10
139	Comparative Study of Human Expertise and an Expert System: Application to the Diagnosis of Child's Meningitis. Journal of Biomedical Informatics, 1993, 26, 383-392.	0.7	9
140	The cyclic genetic code as a constraint satisfaction problem. Theoretical Computer Science, 2004, 322, 313-334.	0.5	9
141	In vivo assessment of cardiac insulin resistance by nuclear probes using an iodinated tracer of glucose transport. European Journal of Nuclear Medicine and Molecular Imaging, 2007, 34, 1756-1764.	3.3	9
142	Telemonitoring of the Elderly at Home: Real-Time Pervasive Follow-up of Daily Routine, Automatic Detection of Outliers and Drifts. , 2010, , .		9
143	Predictive Power of "A Minima" Models in Biology. Acta Biotheoretica, 2012, 60, 3-19.	0.7	9
144	MitomiRs, ChloromiRs and Modelling of the microRNA Inhibition. Acta Biotheoretica, 2013, 61, 367-383.	0.7	9

#	ARTICLE	IF	CITATIONS
145	LINEAR AND NONLINEAR ARABESQUES: A STUDY OF CLOSED CHAINS OF NEGATIVE 2-ELEMENT CIRCUITS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1330033.	0.7	9
146	Spatial heterogeneity of type I error for local cluster detection tests. International Journal of Health Geographics, 2014, 13, 15.	1.2	9
147	Sélection naturelle et émigration démographique. Étude empirique de la France de 1860 à 1965. Population, 1989, 44, 109.	0.1	8
148	A differential geometry approach for biomedical image processing. Comptes Rendus - Biologies, 2002, 325, 367-374.	0.1	8
149	Data Fusion for Analysis of Persistence in Pervasive Actimetry of Elderly People at Home, and the Notion of Biological Age. , 2008, , .		8
150	Regulatory Networks Analysis: Robustness in Morphogenesis Regulation. , 2009, , .		8
151	Collective Intelligence, Social Networks and Propagation of a Social Disease, Obesity. , 2011, , .		8
152	Stability, Complexity and Robustness in Population Dynamics. Acta Biotheoretica, 2014, 62, 243-284.	0.7	8
153	Discrete dynamics of contagious social diseases: Example of obesity. Virulence, 2016, 7, 129-140.	1.8	8
154	Functional data analysis: estimation of the relative error in functional regression under random left-truncation model. Journal of Nonparametric Statistics, 2018, 30, 472-490.	0.4	8
155	Association between social asymmetry and depression in older adults: A phone Call Detail Records analysis. Scientific Reports, 2019, 9, 13524.	1.6	8
156	System Design for Emergency Alert Triggered by Falls Using Convolutional Neural Networks. Journal of Medical Systems, 2020, 44, 50.	2.2	8
157	Entropy as a Robustness Marker in Genetic Regulatory Networks. Entropy, 2020, 22, 260.	1.1	8
158	Codon Directional Asymmetry Suggests Swapped Prebiotic 1st and 2nd Codon Positions. International Journal of Molecular Sciences, 2020, 21, 347.	1.8	8
159	Hot Spots in Chromosomal Breakage: From Description to Etiology. Computational Biology, 2000, , 71-83.	0.1	8
160	Age Dependent Epidemic Modeling of COVID-19 Outbreak in Kuwait, France, and Cameroon. Healthcare (Switzerland), 2022, 10, 482.	1.0	8
161	Impact of Fixed Boundary Conditions on the Basins of Attraction in the Flower's Morphogenesis of Arabidopsis Thaliana. , 2008, , .		7
162	Demographic and Spatial Factors as Causes of an Epidemic Spread, the Copule Approach: Application to the Retro-prediction of the Black Death Epidemic of 1346. , 2010, , .		7

#	ARTICLE	IF	CITATIONS
163	Determination, Optimization and Taxonomy of Regulatory Networks: The Example of Arabidopsis thaliana Flower Morphogenesis. , 2011, , .		7
164	Estimation of Task Persistence Parameters from Pervasive Medical Systems with Censored Data. IEEE Transactions on Mobile Computing, 2013, 12, 633-646.	3.9	7
165	Group Unconscious Common Orientation: Exploratory Study at the Basque Foundation for the Investigation of Mental Health Group Training for Therapists. NeuroQuantology, 2014, 12, .	0.1	7
166	Biological Networks Entropies: Examples in Neural Memory Networks, Genetic Regulation Networks and Social Epidemic Networks. Entropy, 2018, 20, 36.	1.1	7
167	Unpredictable, Counter-Intuitive Geoclimatic and Demographic Correlations of COVID-19 Spread Rates. Biology, 2021, 10, 623.	1.3	7
168	Tree Representation and Implicit Tree Matching for a Coarse to Fine Image Matching Algorithm. Lecture Notes in Computer Science, 1999, , 646-655.	1.0	7
169	Archimedean copula and contagion modeling in epidemiology. Networks and Heterogeneous Media, 2013, 8, 149-170.	0.5	7
170	Theoretical minimal RNA rings mimick molecular evolution before tRNA-mediated translation: codon-amino acid affinities increase from early to late RNA rings. , 2020, 343, 111-122.		7
171	MaxwellÂ®: An Unsupervised Learning Approach for 5P Medicine. Studies in Health Technology and Informatics, 2019, 264, 1464-1465.	0.2	7
172	Evolution and RNA Relics. A Systems Biology View. Acta Biotheoretica, 2008, 56, 5-25.	0.7	6
173	Robustness in biological regulatory network III: Application to genetic networks controlling the morphogenesis. Comptes Rendus Mathematique, 2012, 350, 289-292.	0.1	6
174	Robustness in biological regulatory networks IV: Application to genetic networks controlling the cell cycle. Comptes Rendus Mathematique, 2012, 350, 293-298.	0.1	6
175	Sensory Substitution for Balance Control Using a Vestibular-to-Tactile Device. Multisensory Research, 2014, 27, 313-336.	0.6	6
176	Dynalets: A new method for modelling and compressing biological signals. Applications to physiological and molecular signals. Comptes Rendus - Biologies, 2014, 337, 609-624.	0.1	6
177	Smart Homes and Sensors for Surveillance and Preventive Education at Home: Example of Obesity. Information (Switzerland), 2016, 7, 50.	1.7	6
178	The Poitiers School of Mathematical and Theoretical Biology: Bessonâ€™Cavaudanâ€™SchÃ¼tzenbergerâ€™s Conjectures on Genetic Code and RNA Structures. Acta Biotheoretica, 2016, 64, 403-426.	0.7	6
179	Pervasive Informatics and Persistent Actimetric Information in Health Smart Homes. Lecture Notes in Computer Science, 2009, , 108-116.	1.0	6
180	Counter-Examples about Lower- and Upper-Bounded Population Growth. Mathematical Population Studies, 2005, 12, 199-209.	0.8	5

#	ARTICLE	IF	CITATIONS
181	On the Number of Attractors of Positive and Negative Boolean Automata Circuits. , 2010, , .		5
182	A Fast Functional Locally Modeled Conditional Density and Mode for Functional Time-Series. Contributions To Statistics, 2011, , 85-90.	0.2	5
183	MicroRNAs and Robustness in Biological Regulatory Networks. A Generic Approach with Applications at Different Levels: Physiologic, Metabolic, and Genetic. Springer Series in Biophysics, 2014, , 63-114.	0.4	5
184	Persistent Behaviour in Healthcare Facilities: From Actimetric Tele-Surveillance to Therapy Education. Lecture Notes in Computer Science, 2014, , 297-311.	1.0	5
185	Addendum on Entropy to the Exploratory Study on Group Unconscious at the Basque Foundation for the Investigation of Mental Health Group Training for Therapists. NeuroQuantology, 2015, 13, .	0.1	5
186	Global regulation of individual decision-making. Mathematical Methods in the Applied Sciences, 2016, 39, 4428-4436.	1.2	5
187	Footprints of a Singular 22-Nucleotide RNA Ring at the Origin of Life. Biology, 2020, 9, 88.	1.3	5
188	Serious Games and Personalization of the Therapeutic Education. Lecture Notes in Computer Science, 2015, , 270-281.	1.0	5
189	How to Measure Circadian Rhythms of Activity and Their Disruptions in Humans Using Passive and Unobtrusive Capture of Phone Call Activity. Studies in Health Technology and Informatics, 2019, 264, 1631-1632.	0.2	5
190	Compact set valued flows: Applications in biological modelling. Acta Biotheoretica, 1996, 44, 349-358.	0.7	4
191	Benefits of a Model of Segregation for the Understanding of Chromosomal Evolution. Computational Biology, 2000, , 13-18.	0.1	4
192	Dynamical Systems and Biological Regulations. Nonlinear Phenomena and Complex Systems, 2001, , 105-149.	0.0	4
193	<title>Structural outlier detection for automatic landmark extraction</title>. , 2001, , .		4
194	Pervasive Informatics and Persistent Actimetric Information in Health Smart Homes: From Language Model to Location Model. , 2009, , .		4
195	From biological and clinical experiments to mathematical models. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 4657-4663.	1.6	4
196	Formal Methods for Hopfield-Like Networks. Acta Biotheoretica, 2013, 61, 21-39.	0.7	4
197	Obesity determinants: A systematic review. , 2015, , .		4
198	Actimetry@home: Actimetric Tele-surveillance and Tailored to the Signal Data Compression. Lecture Notes in Computer Science, 2015, , 59-70.	1.0	4

#	ARTICLE	IF	CITATIONS
199	Regression model for surrogate data in high dimensional statistics. Communications in Statistics - Theory and Methods, 2020, 49, 3206-3227.	0.6	4
200	Novel statistical approach for assessing the persistence of the circadian rhythms of social activity from telephone call detail records in older adults. Scientific Reports, 2020, 10, 21464.	1.6	4
201	Deamination gradients within codons after 1&^>2 position swap predict amino acid hydrophobicity and parallel β -sheet conformational preference. BioSystems, 2020, 191-192, 104116.	0.9	4
202	Codon assignment evolvability in theoretical minimal RNA rings. Gene, 2021, 769, 145208.	1.0	4
203	Ambient Assistive Healthcare and Wellness Management " Is "The Wisdom of the Body" Transposable to One's Home?. Lecture Notes in Computer Science, 2013, , 143-150.	1.0	4
204	Serious Game as New Health Telematics Tool for Patient Therapy Education: Example of Obesity and Type 2 Diabetes. Lecture Notes in Computer Science, 2013, , 187-197.	1.0	4
205	From conservative to dissipative non-linear differential systems. An application to the cardio-respiratory regulation. Discrete and Continuous Dynamical Systems - Series S, 2020, 13, 2121-2134.	0.6	4
206	A Comparison of the Evolution and Entropy of Responses to Picture Choices on an "Absurdum Questionnaire" between Members of Two Different Training Groups. NeuroQuantology, 2016, 14, .	0.1	4
207	An Update and Generalization of Group Unconscious Orientation in OMIE1 Group Training for Therapists. NeuroQuantology, 2019, 17, .	0.1	4
208	Group Therapy for Adolescents and Parents: Study of Unconscious Orientation. NeuroQuantology, 2020, 18, 70-82.	0.1	4
209	A Model for the Lifespan Loss Due to a Viral Disease: Example of the COVID-19 Outbreak. Infectious Disease Reports, 2022, 14, 321-340.	1.5	4
210	A Circular Hamming Distance, Circular Gumbel Distribution, RNA Relics and Primitive Genome. , 2007, , .		3
211	A brief history about analytic tools in medical imaging: splines, wavelets, singularities and partial differential equations. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3474-80.	0.5	3
212	France's Technologies for Health Program. IEEE Engineering in Medicine and Biology Magazine, 2008, 27, 56-63.	1.1	3
213	Evolution of the Genetic Regulatory Networks: The Example of the Cell Cycle Control Network From Gastrulation Modelling to Apocatagenesis. , 2010, , .		3
214	Wound Healing and Scale Modelling in Zebrafish. Acta Biotheoretica, 2016, 64, 343-358.	0.7	3
215	Estimation of life expectancy of patients diagnosed with the most common cancers in the Valparaiso Region, Chile. Ecancermedalscience, 2017, 11, 713.	0.6	3
216	Phase transitions in stochastic non-linear threshold Boolean automata networks on $\langle \mathbb{Z}^2 \rangle$. The boundary impact. Advances in Applied Mathematics, 2018, 98, 77-99.	0.4	3

#	ARTICLE	IF	CITATIONS
217	Negative CG dinucleotide bias: An explanation based on feedback loops between Arginine codon assignments and theoretical minimal RNA rings. <i>BioEssays</i> , 2021, 43, 2000071.	1.2	3
218	Exploitation of Outgoing and Incoming Telephone Calls in the Context of Circadian Rhythms of Social Activity Among Elderly People: Observational Descriptive Study. <i>JMIR MHealth and UHealth</i> , 2020, 8, e13535.	1.8	3
219	Registration of medical images for surgical action: use of optical sensors and matching algorithm. , 2000, , .		2
220	Robustness of Dynamical Systems Attraction Basins Against State Perturbations: Theoretical Protocol and Application in Systems Biology. , 2008, , .		2
221	FI-CGA Score of Old People by Community Based Information System. , 2009, , .		2
222	Modeling the Glycolysis: An Inverse Problem Approach. , 2009, , .		2
223	Application of interval iterations to the entrainment problem in respiratory physiology. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 4717-4739.	1.6	2
224	Stochastic monotony signature and biomedical applications. <i>Comptes Rendus - Biologies</i> , 2015, 338, 777-783.	0.1	2
225	Reduction of Prolonged Excessive Pressure in Seated Persons With Paraplegia Using Wireless Lingual Tactile Feedback: A Randomized Controlled Trial. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2018, 6, 1-11.	2.2	2
226	Slow Open Dialectical Behavior Group Therapy for Adolescents and Parents: Longitudinal Study of Unconscious Orientation. <i>Psychology</i> , 2021, 12, 756-784.	0.3	2
227	Gaining Insights Into the Estimation of the Circadian Rhythms of Social Activity in Older Adults From Their Telephone Call Activity With Statistical Learning: Observational Study. <i>Journal of Medical Internet Research</i> , 2021, 23, e22339.	2.1	2
228	Erratum to "Slow Open Dialectical Behavior Group Therapy for Adolescents and Parents: Longitudinal Study of Unconscious Orientation" [Psychology 12 (2021) 756-784]. <i>Psychology</i> , 2021, 12, 1615-1641.	0.3	2
229	A new health strategy to prevent pressure ulcer formation in paraplegics using computer and sensory substitution via the tongue. <i>Studies in Health Technology and Informatics</i> , 2006, 124, 926-31.	0.2	2
230	PACS and multi-modality image registration. , 1992, , .		1
231	Compact set valued flows II: applications in biological modelling. <i>Comptes Rendus De L'Académie Des Sciences - Series IIB - Mechanics-Physics-Chemistry-Astronomy</i> , 1997, 324, 107-115.	0.1	1
232	Education and research in medical optronics in France. , 2000, , .		1
233	Primitive genome and RNA relics. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 6339-43.	0.5	1
234	Modeling the Rearrangements of Genes Encoding Immune Receptors. Toward a Prediction Tool of Immune Specificity. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
235	Imaging and Modelling of a Degenerative Disease of Retina. , 2009, , .		1
236	The singular power of the environment on stochastic nonlinear threshold Boolean automata networks. , 2011, , .		1
237	An empiric weight computation for record linkage using linearly combined fields' similarity scores. , 2014, 2014, 1346-9.		1
238	Estimation locale linéaire de la fonction de régression pour des variables hilbertiennes. Comptes Rendus Mathématique, 2016, 354, 847-850.	0.1	1
239	Test d'hétéroscasticité quand les covariables sont fonctionnelles. Comptes Rendus Mathématique, 2018, 356, 571-574.	0.1	1
240	ADL SoS-based Platform: Using Technology to Enhance the Quality of Life of the Aging Population. , 2018, , .		1
241	What Can We Learn from COVID-19 Data by Using Epidemic Models with Unidentified Infectious Cases?. SSRN Electronic Journal, 0, , .	0.4	1
242	Data Analysis and Forecasting of COVID-19 Pandemic in Kuwait Based on Daily Observation and Basic Reproduction Number Dynamics. Kuwait Journal of Science, 0, , .	0.6	1
243	On Boolean Automata Isolated Cycles and Tangential Double-Cycles Dynamics. Emergence, Complexity and Computation, 2022, , 145-178.	0.2	1
244	The Effects of a Plantar Pressure-Based, Tongue-Placed Tactile Biofeedback System on the Regulation of the Centre of Foot Pressure Displacements During Upright Quiet Standing: A Fractional Brownian Motion Analysis. , 2008, , .		0
245	Biological Boundaries and Biological Age: Solutions of Variational Problems. , 2008, , .		0
246	Modelling Medical Time and Expertise. Example of the Hospital Stay Duration in Diagnosis Related Groups Data Bases. , 2009, , .		0
247	Loss of Linearity and Symmetrisation in Regulatory Networks. , 2009, , .		0
248	Global Strategy of Active Machine Learning for Complex Systems: Embryogenesis Application on Cell Division Detection. , 2010, , .		0
249	Discrete Mesh Approach in Morphogenesis Modelling: the Example of Gastrulation. Acta Biotheoretica, 2016, 64, 427-446.	0.7	0
250	Exploring trajectories and tourist behavior using the entropy curve. Revista Interamericana De Ambiente Y Turismo, 2021, 17, 27-33.	0.3	0
251	SI Epidemic Model Applied to COVID-19 Data in Mainland China. SSRN Electronic Journal, 0, , .	0.4	0
252	Analysis and Visualization of Images Overlapping: Automated Versus Expert Anatomical Mapping in Deep Brain Stimulation Targeting. Lecture Notes in Computer Science, 2007, , 137-151.	1.0	0

#	ARTICLE	IF	CITATIONS
253	5. Complexification de la mémoire génétique et de la fonction protéique. , 2008, , 91-111.		0
254	La simplicité, ultime avatar de la complexité?. , 2014, , .		0
255	Dynalets: A New Tool for Biological Signal Processing Biological signal processing. Contributions To Statistics, 2015, , 141-150.	0.2	0
256	Social and Community Networks and Obesity. , 2015, , 1-22.		0
257	Social and Community Networks and Obesity. , 2016, , 287-307.		0
258	Data Fusion for Telemonitoring Application to Health and Autonomy. , 2017, , 535-548.		0
259	Automatic Detection and Recognition of Swallowing Sounds. , 2019, , .		0
260	Gevrey solutions of singularly perturbed differential equations, an extension to the non-autonomous case. Discrete and Continuous Dynamical Systems - Series S, 2020, 13, 2145-2163.	0.6	0
261	The Fish Floating Attention. Psychology, 2020, 11, 1613-1627.	0.3	0
262	Curves Classification by Using a Local Likelihood Function and Its Practical Usefulness for Real Data. Frontiers in Artificial Intelligence and Applications, 2020, , .	0.3	0
263	Slow Open Dialectical Behavior Group Therapy for Adolescents and Parents: Comparison between Groups. Psychology, 2022, 13, 1-26.	0.3	0
264	A Step Forward to Formalize Tailored to Problem Specificity Mathematical Transforms. Frontiers in Applied Mathematics and Statistics, 0, 8, .	0.7	0