Rafael Bravo de la Parra

List of Publications by Year
in descending order

66	1,165	331670	434195
papers	citations	21 h-index	31 g-index

68	68	68	561
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Aggregation methods in dynamical systems and applications in population and community dynamics. Physics of Life Reviews, 2008, 5, 79-105.	2.8	74
2	Aggregation of Variables and Applications to Population Dynamics. Lecture Notes in Mathematics, 2008, , 209-263.	0.2	62
3	Methods of aggregation of variables in population dynamics. Comptes Rendus De L'AcadÃ©mie Des Sciences SÃ©rie 3, Sciences De La Vie, 2000, 323, 665-674.	0.8	45
4	Effects of density-dependent migrations on stability of a two-patch predatorâ€“prey model. Mathematical Biosciences, 2007, 210, 335-354.	1.9	44
5	A mathematical model of growth of population of fish in the larval stage: Density-dependence effects. Mathematical Biosciences, 1998, 150, 1-20.	1.9	43
6	An analytical model of stand dynamics as a function of tree growth, mortality and recruitment: The shade tolerance-stand structure hypothesis revisited. Journal of Theoretical Biology, 2007, 244, 440-450.	1.7	42
7	Annual spawning migrations in modelling brown trout population dynamics inside an arborescent river network. Ecological Modelling, 2000, 133, 15-31.	2.5	40
8	A mechanistic model of tree competition and facilitation for Mediterranean forests: Scaling from leaf physiology to stand dynamics. Ecological Modelling, 2005, 188, 76-92.	2.5	39
9	AGGREGATION METHODS IN DISCRETE MODELS. Journal of Biological Systems, 1995, 03, 603-612.	1.4	38
10	Linear discrete models with different time scales. Acta Biotheoretica, 1995, 43, 465-476.	1.5	37
11	Dynamics of a fishery on two fishing zones with fish stock dependent migrations: aggregation and control. Ecological Modelling, 2002, 158, 51-62.	2.5	34
12	Variables aggregation in a time discrete linear model. Mathematical Biosciences, 1999, 157, 111-146.	1.9	33
13	Land use change in a Mediterranean metropolitan region and its periphery: assessment of conservation policies through CORINE Land Cover data and Markov models. Forest Systems, 2010, 19, 315.	0.3	33
14	A discrete model with density dependent fast migration. Mathematical Biosciences, 1999, 157, 91-109.	1.9	30
15	Time Scales in Density Dependent Discrete Models. Journal of Biological Systems, 1997, 05, 111-129.	1.4	29
16	Bifurcation analysis of a predatorâ€“prey model with predators using hawk and dove tactics. Journal of Theoretical Biology, 2006, 238, 597-607.	1.7	28
17	Title is missing!. Acta Biotheoretica, 1998, 46, 223-234.	1.5	26
18	A predatorâ€“prey model with predators using hawk and dove tactics. Mathematical Biosciences, 2002, 177-178, 185-200.	1.9	26

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19	Aggregation methods in population dynamics discrete models. Mathematical and Computer Modelling, 1998, 27, 23-39.	2.0	25
20	Migration Frequency and the Persistence of Host-Parasitoid Interactions. Journal of Theoretical Biology, 2003, 221, 639-654.	1.7	24
21	Hawk-dove game and competition dynamics. Mathematical and Computer Modelling, 1998, 27, 89-98.	2.0	22
22	Time scales in stochastic multiregional models. Nonlinear Analysis: Real World Applications, 2000, 1, 89-122.	1.7	22
23	A model for an age-structured population with two time scales. Mathematical and Computer Modelling, 2000, 31, 17-26.	2.0	20
24	Variables Aggregation in Time Varying Discrete Systems. Acta Biotheoretica, 1998, 46, 273-297.	1.5	18
25	Approximate reduction of non-linear discrete models with two time scales. Journal of Difference Equations and Applications, 2008, 14, 607-627.	1.1	18
26	The impact of behavioral plasticity at individual level on domestic cat population dynamics. Ecological Modelling, 2000, 133, 117-124.	2.5	17
27	Competition and species coexistence in a metapopulation model: Can fast asymmetric migration reverse the outcome of competition in a homogeneous environment?. Journal of Theoretical Biology, 2010, 266, 256-263.	1.7	16
28	A Singular Perturbation in an Age-Structured Population Model. SIAM Journal on Applied Mathematics, 2000, 60, 408-436.	1.8	15
29	A density dependent model describing Salmo trutta population dynamics in an arborescent river network. Effects of dams and channelling. Comptes Rendus De L'AcadÃ©mie Des Sciences SÃ©rie 3, Sciences De La Vie, 1998, 321, 979-990.	0.8	14
30	Reduction of Discrete Dynamical Systems with Applications to Dynamics Population Models. Mathematical Modelling of Natural Phenomena, 2013, 8, 107-129.	2.4	14
31	Influence of individual aggressiveness on the dynamics of competitive populations. Acta Biotheoretica, 1997, 45, 321-333.	1.5	13
32	TIME SCALES IN A NON-AUTONOMOUS LINEAR DISCRETE MODEL. Mathematical Models and Methods in Applied Sciences, 2001, 11, 1203-1235.	3.3	13
33	A density-dependent model describing age-structured population dynamics using hawkâ€“dove tactics. Journal of Difference Equations and Applications, 2013, 19, 1022-1034.	1.1	13
34	A model of an age-structured population in a multipatch environment. Mathematical and Computer Modelling, 1998, 27, 137-150.	2.0	12
35	Approximate reduction of multiregional models with environmental stochasticity. Mathematical Biosciences, 2007, 206, 134-154.	1.9	12
36	BEHAVIORAL DYNAMICS OF TWO INTERACTING HAWKâ€“DOVE POPULATIONS. Mathematical Models and Methods in Applied Sciences, 2001, 11, 645-661.	3.3	11

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37	Time scales in linear delayed differential equations. Journal of Mathematical Analysis and Applications, 2006, 323, 680-699.	1.0	11
38	Reduction of slowâ€“fast discrete models coupling migration and demography. Journal of Theoretical Biology, 2009, 258, 371-379.	1.7	11
39	Approximate aggregation of a two time scales periodic multi-strain SIS epidemic model: A patchy environment with fast migrations. Ecological Complexity, 2012, 10, 34-41.	2.9	11
40	Linear discrete population models with two time scales in fast changing environments I: autonomous case. Acta Biotheoretica, 2001, 49, 261-276.	1.5	10
41	APPROXIMATE REDUCTION OF MULTI-TYPE GALTONâ€“WATSON PROCESSES WITH TWO TIME SCALES. Mathematical Models and Methods in Applied Sciences, 2003, 13, 491-525.	3.3	10
42	STATE-DEPENDENT DELAYS ASSOCIATED TO THRESHOLD PHENOMENA IN STRUCTURED POPULATION DYNAMICS. Mathematical Models and Methods in Applied Sciences, 2007, 17, 877-900.	3.3	10
43	REDUCTION OF SLOWâ€“FAST PERIODIC SYSTEMS WITH APPLICATIONS TO POPULATION DYNAMICS MODELS. Mathematical Models and Methods in Applied Sciences, 2012, 22, .	3.3	10
44	Coexistence and superior competitor exclusion in the Leslieâ€“Gower competition model with fast dispersal. Ecological Modelling, 2015, 306, 247-256.	2.5	9
45	A Discrete Predator-Prey Ecoepidemic Model. Mathematical Modelling of Natural Phenomena, 2017, 12, 116-132.	2.4	8
46	The reliability of approximate reduction techniques in population models with two time scales. Acta Biotheoretica, 2002, 50, 297-322.	1.5	7
47	Mathematical study of a bacteriaâ€“fish model with level of infection structure. Nonlinear Analysis: Real World Applications, 2009, 10, 1662-1678.	1.7	7
48	Stand dynamics and tree coexistence in an analytical structured model: The role of recruitment. Journal of Theoretical Biology, 2013, 333, 91-101.	1.7	7
49	Fast Dispersal in Semelparous Populations. Mathematical Modelling of Natural Phenomena, 2016, 11, 120-134.	2.4	6
50	Linear discrete population models with two time scales in fast changing environments II: non-autonomous case. Acta Biotheoretica, 2002, 50, 15-38.	1.5	5
51	Effects of density dependent sex allocation on the dynamics of a simultaneous hermaphroditic population: Modelling and analysis. Journal of Theoretical Biology, 2010, 263, 521-529.	1.7	5
52	Approximate aggregation of linear discrete models with two time scales: re-scaling slow processes to the fast scale. Journal of Difference Equations and Applications, 2011, 17, 621-635.	1.1	5
53	A Time Scales Approach to Coinfection by Opportunistic Diseases. Journal of Applied Mathematics, 2015, 2015, 1-10.	0.9	5
54	Discrete Models of Disease and Competition. Discrete Dynamics in Nature and Society, 2017, 2017, 1-13.	0.9	5

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55	Approximate reduction of multiregional birth-death models with fast migration. Mathematical and Computer Modelling, 2002, 36, 47-65.	2.0	3
56	Discrete epidemic models with two time scales. Advances in Difference Equations, 2021, 2021, 478.	3.5	3
57	Reproductive Numbers for Nonautonomous Spatially Distributed Periodic SIS Models Acting on Two Time Scales. Acta Biotheoretica, 2012, 60, 139-154.	1.5	2
58	Reduction of slow-fast asymptotically autonomous systems with applications to gradostat models. Ecological Complexity, 2013, 14, 75-84.	2.9	2
59	Mathematical analysis of a population model with an ageâ€“weight structured two-stage life history: asymptotic behavior of solutions. Journal of Evolution Equations, 2014, 14, 603.	1.1	2
60	A simple geometrical condition for the existence of periodic solutions of planar periodic systems. Applications to some biological models. Journal of Mathematical Analysis and Applications, 2015, 423, 1469-1479.	1.0	2
61	Modelling the role of opportunistic diseases in coinfection. Mathematical Modelling of Natural Phenomena, 2018, 13, 28.	2.4	2
62	Non-linear population discrete models with two time scales: re-scaling of part of the slow process. Advances in Difference Equations, 2019, 2019, .	3.5	2
63	Stochastic matrix metapopulation models with fast migration: Re-scaling survival to the fast scale. Ecological Modelling, 2020, 418, 108829.	2.5	1
64	Reduction of Nonautonomous Population Dynamics Models with Two Time Scales. Acta Biotheoretica, 2014, 62, 285-303.	1.5	0
65	Process-based models of Mediterranean forest production and dynamics. Investigacion Agraria Sistemas Y Recursos Forestales, 2005, 14, 482.	0.4	0
66	A discrete model of competing species sharing a parasite. Discrete and Continuous Dynamical Systems - Series B, 2020, 25, 2121-2142.	0.9	0