

Jose A Cuesta

List of Publications by Year in descending order

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89
papers

3,888
citations

147801

31
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133252

59
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92
all docs

92
docs citations

92
times ranked

2093
citing authors

#	ARTICLE	IF	CITATIONS
1	Beyond Dunbar circles: a continuous description of social relationships and resource allocation. <i>Scientific Reports</i> , 2022, 12, 2287.	3.3	10
2	The long and winding road to understanding organismal construction. <i>Physics of Life Reviews</i> , 2022, 42, 19-24.	2.8	0
3	Evolution of social relationships between first-year students at middle school: from cliques to circles. <i>Scientific Reports</i> , 2021, 11, 11694.	3.3	6
4	From genotypes to organisms: State-of-the-art and perspectives of a cornerstone in evolutionary dynamics. <i>Physics of Life Reviews</i> , 2021, 38, 55-106.	2.8	49
5	Hierarchical clustering of bipartite data sets based on the statistical significance of coincidences. <i>Physical Review E</i> , 2020, 102, 042304.	2.1	0
6	The turning point and end of an expanding epidemic cannot be precisely forecast. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 26190-26196.	7.1	117
7	Populations of genetic circuits are unable to find the fittest solution in a multilevel genotype-phenotype map. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20190843.	3.4	17
8	Epistasis between cultural traits causes paradigm shifts in cultural evolution. <i>Royal Society Open Science</i> , 2020, 7, 191813.	2.4	3
9	Parsimonious Scenario for the Emergence of Viroid-Like Replicons De Novo. <i>Viruses</i> , 2019, 11, 425.	3.3	12
10	Large scale and information effects on cooperation in public good games. <i>Scientific Reports</i> , 2019, 9, 15023.	3.3	9
11	Adding levels of complexity enhances robustness and evolvability in a multilevel genotype-phenotype map. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20170516.	3.4	19
12	Sheldon spectrum and the plankton paradox: two sides of the same coin—a trait-based plankton size-spectrum model. <i>Journal of Mathematical Biology</i> , 2018, 76, 67-96.	1.9	13
13	Statistical theory of phenotype abundance distributions: A test through exact enumeration of genotype spaces. <i>Europhysics Letters</i> , 2018, 123, 28001.	2.0	24
14	Cognitive resource allocation determines the organization of personal networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8316-8321.	7.1	37
15	On the networked architecture of genotype spaces and its critical effects on molecular evolution. <i>Open Biology</i> , 2018, 8, .	3.6	41
16	Enumerating secondary structures and structural moieties for circular RNAs. <i>Journal of Theoretical Biology</i> , 2017, 419, 375-382.	1.7	19
17	Distribution of genotype network sizes in sequence-to-structure genotype-phenotype maps. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20160976.	3.4	30
18	Disentangling the effects of selection and loss bias on gene dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E5616-E5624.	7.1	44

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19	Adaptive multiscapes: an up-to-date metaphor to visualize molecular adaptation. <i>Biology Direct</i> , 2017, 12, 7.	4.6	22
20	Fair linking mechanisms for resource allocation with correlated player types. <i>Computing (Vienna/New)</i> Tj ETQq0 0 0,rgBT /Overlock 10 T	4.8	1
21	General approach for dealing with dynamical systems with spatiotemporal periodicities. <i>Physical Review E</i> , 2015, 91, 022905.	2.1	10
22	Reputation drives cooperative behaviour and network formation in human groups. <i>Scientific Reports</i> , 2015, 5, 7843.	3.3	108
23	The growth threshold conjecture: a theoretical framework for understanding T-cell tolerance. <i>Royal Society Open Science</i> , 2015, 2, 150016.	2.4	22
24	Evolution on neutral networks accelerates the ticking rate of the molecular clock. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20141010.	3.4	23
25	Spreading of intolerance under economic stress: Results from a reputation-based model. <i>Physical Review E</i> , 2014, 90, 022805.	2.1	8
26	toyLIFE: a computational framework to study the multi-level organisation of the genotype-phenotype map. <i>Scientific Reports</i> , 2014, 4, 7549.	3.3	22
27	A comparative analysis of spatial Prisoner's Dilemma experiments: Conditional cooperation and payoff irrelevance. <i>Scientific Reports</i> , 2014, 4, 4615.	3.3	93
28	Time-Shift Invariance Determines the Functional Shape of the Current in Dissipative Rocking Ratchets. <i>Physical Review X</i> , 2013, 3, .	8.9	13
29	Evolutionary stability and resistance to cheating in an indirect reciprocity model based on reputation. <i>Physical Review E</i> , 2013, 87, 052810.	2.1	33
30	Comment on "Ratchet universality in the presence of thermal noise". <i>Physical Review E</i> , 2013, 88, 066101.	2.1	2
31	Gender Differences in Cooperation: Experimental Evidence on High School Students. <i>PLoS ONE</i> , 2013, 8, e83700.	2.5	48
32	Stability and robustness analysis of cooperation cycles driven by destructive agents in finite populations. <i>Physical Review E</i> , 2012, 86, 026105.	2.1	15
33	Human behavior in Prisoner's Dilemma experiments suppresses network reciprocity. <i>Scientific Reports</i> , 2012, 2, 325.	3.3	82
34	Three is a crowd in iterated prisoner's dilemmas: experimental evidence on reciprocal behavior. <i>Scientific Reports</i> , 2012, 2, 638.	3.3	48
35	Heterogeneous networks do not promote cooperation when humans play a Prisoner's Dilemma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12922-12926.	7.1	277
36	Individual Strategy Update and Emergence of Cooperation in Social Networks. <i>Journal of Mathematical Sociology</i> , 2012, 36, 1-21.	1.2	16

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37	Generosity Pays in the Presence of Direct Reciprocity: A Comprehensive Study of 2 \times 2 Repeated Games. PLoS ONE, 2012, 7, e35135.	2.5	24
38	On the coexistence of cooperators, defectors and conditional cooperators in the multiplayer iterated Prisoner's Dilemma. Journal of Theoretical Biology, 2012, 300, 299-308.	1.7	21
39	Local-Based Semantic Navigation on a Networked Representation of Information. PLoS ONE, 2012, 7, e43694.	2.5	23
40	Ratchet effect on a relativistic particle driven by external forces. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 425205.	2.1	5
41	Species assembly in model ecosystems, I: Analysis of the population model and the invasion dynamics. Journal of Theoretical Biology, 2011, 269, 330-343.	1.7	13
42	Species assembly in model ecosystems, II: Results of the assembly process. Journal of Theoretical Biology, 2011, 269, 344-355.	1.7	8
43	The joker effect: Cooperation driven by destructive agents. Journal of Theoretical Biology, 2011, 279, 113-119.	1.7	44
44	Huge progeny production during the transient of a quasi-species model of viral infection, reproduction and mutation. Mathematical and Computer Modelling, 2011, 54, 1676-1681.	2.0	4
45	Struggle for Space: Viral Extinction through Competition for Cells. Physical Review Letters, 2011, 106, 028104.	7.8	17
46	Disentangling categorical relationships through a graph of co-occurrences. Physical Review E, 2011, 84, 046108.	2.1	23
47	Severe Hindrance of Viral Infection Propagation in Spatially Extended Hosts. PLoS ONE, 2011, 6, e23358.	2.5	11
48	Symmetries shape the current in ratchets induced by a biharmonic driving force. Physical Review E, 2010, 81, 030102.	2.1	35
49	Social Experiments in the Mesoscale: Humans Playing a Spatial Prisoner's Dilemma. PLoS ONE, 2010, 5, e13749.	2.5	187
50	Effect of spatial structure on the evolution of cooperation. Physical Review E, 2009, 80, 046106.	2.1	168
51	Statistical Mechanics of Ecosystem Assembly. Physical Review Letters, 2009, 103, 168101.	7.8	28
52	Phase diagram of a two-dimensional lattice gas model of a ramp system. Journal of Chemical Physics, 2009, 131, 124506.	3.0	24
53	The shared reward dilemma on structured populations. Journal of Economic Interaction and Coordination, 2009, 4, 183-193.	0.7	5
54	Evolutionary game theory: Temporal and spatial effects beyond replicator dynamics. Physics of Life Reviews, 2009, 6, 208-249.	2.8	613

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55	Smectic and columnar ordering in length-polydisperse fluids of parallel hard cylinders. <i>Molecular Physics</i> , 2009, 107, 415-422.	1.7	7
56	Emergence and resilience of cooperation in the spatial prisoner's dilemma via a reward mechanism. <i>Journal of Theoretical Biology</i> , 2008, 250, 475-483.	1.7	86
57	Fundamental-measure density functional for mixtures of parallel hard cylinders. <i>Physical Review E</i> , 2008, 77, 051205.	2.1	25
58	Phase behavior of parallel hard cylinders. <i>Journal of Chemical Physics</i> , 2008, 128, 194901.	3.0	24
59	Fundamental-measure density functional for the fluid of aligned hard hexagons: Further insights in fundamental measure theory. <i>Physical Review E</i> , 2007, 76, 011403.	2.1	6
60	First-principles derivation of density-functional formalism for quenched-annealed systems. <i>Physical Review E</i> , 2006, 74, 041502.	2.1	16
61	Time Scales in Evolutionary Dynamics. <i>Physical Review Letters</i> , 2006, 97, 158701.	7.8	159
62	Altruism may arise from individual selection. <i>Journal of Theoretical Biology</i> , 2005, 235, 233-240.	1.7	100
63	Cluster density functional theory for lattice models based on the theory of Möbius functions. <i>Journal of Physics A</i> , 2005, 38, 7461-7482.	1.6	15
64	Lattice density functional for colloid-polymer mixtures: Comparison of two fundamental measure theories. <i>Physical Review E</i> , 2005, 72, 031405.	2.1	7
65	Density Functional Theory for General Hard-Core Lattice Gases. <i>Physical Review Letters</i> , 2004, 93, 130603.	7.8	32
66	Phase diagrams of Zwanzig models: The effect of polydispersity. <i>Journal of Chemical Physics</i> , 2003, 118, 10164-10173.	3.0	35
67	Phase behavior of hard-core lattice gases: A fundamental measure approach. <i>Journal of Chemical Physics</i> , 2003, 119, 10832-10843.	3.0	35
68	Density functional theory for nearest-neighbor exclusion lattice gases in two and three dimensions. <i>Physical Review E</i> , 2003, 68, 066120.	2.1	23
69	Apparent phase transitions in finite one-dimensional sine-Gordon lattices. <i>Physical Review E</i> , 2003, 67, 046108.	2.1	11
70	Phase transition analogous to Bose-Einstein condensation in systems of noninteracting surfactant aggregates. <i>Physical Review E</i> , 2002, 65, 031406.	2.1	17
71	Enhancement by Polydispersity of the Biaxial Nematic Phase in a Mixture of Hard Rods and Plates. <i>Physical Review Letters</i> , 2002, 89, 185701.	7.8	40
72	Elusiveness of Fluid-Fluid Demixing in Additive Hard-Core Mixtures. <i>Physical Review Letters</i> , 2002, 89, 145701.	7.8	28

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73	A theorem on the absence of phase transitions in one-dimensional growth models with on-site periodic potentials. <i>Journal of Physics A</i> , 2002, 35, 2373-2377.	1.6	12
74	Continuous phase transition in polydisperse hard-sphere mixture. <i>Journal of Chemical Physics</i> , 2001, 115, 963-969.	3.0	9
75	Phase behaviour of very asymmetric binary mixtures. <i>Journal of Physics Condensed Matter</i> , 2000, 12, A109-A114.	1.8	1
76	Phase equilibria in the polydisperse Zwanzig model of hard rods. <i>Journal of Chemical Physics</i> , 2000, 113, 5817-5829.	3.0	44
77	A density functional approach to depletion interaction. <i>Journal of Physics Condensed Matter</i> , 1999, 11, 10107-10118.	1.8	7
78	Optimal packing of polydisperse hard-sphere fluids. <i>Journal of Chemical Physics</i> , 1999, 110, 5318-5324.	3.0	28
79	Fundamental measure theory for mixtures of parallel hard cubes. II. Phase behavior of the one-component fluid and of the binary mixture. <i>Journal of Chemical Physics</i> , 1999, 111, 317-327.	3.0	33
80	Phase behavior of additive binary mixtures in the limit of infinite asymmetry. <i>Physical Review E</i> , 1998, 58, R4080-R4083.	2.1	21
81	Dimensional Crossover of the Fundamental-Measure Functional for Parallel Hard Cubes. <i>Physical Review Letters</i> , 1997, 78, 3681-3684.	7.8	93
82	Fundamental measure theory for mixtures of parallel hard cubes. I. General formalism. <i>Journal of Chemical Physics</i> , 1997, 107, 6379-6389.	3.0	69
83	Fluid Mixtures of Parallel Hard Cubes. <i>Physical Review Letters</i> , 1996, 76, 3742-3745.	7.8	80
84	Random versus deterministic two-dimensional traffic flow models. <i>Physical Review E</i> , 1995, 51, R835-R838.	2.1	30
85	Theoretical approach to two-dimensional traffic flow models. <i>Physical Review E</i> , 1995, 51, 175-187.	2.1	61
86	Phase transitions in two-dimensional traffic-flow models. <i>Physical Review E</i> , 1993, 48, R4175-R4178.	2.1	162
87	Orientational freezing within the effective liquid approach. , 1993, , 209-219.		0
88	Isotropic-nematic transition of D-dimensional hard convex bodies within the effective-liquid approach. <i>Physical Review A</i> , 1992, 45, 7395-7412.	2.5	8
89	Effective-liquid approach to the generalized Onsager theories of the isotropic-nematic transition of hard convex bodies. <i>Physical Review A</i> , 1991, 44, 5306-5309.	2.5	15