

Jean Peccoud

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

2,971
citations

331670

21
h-index

182427

51
g-index

79
all docs

79
docs citations

79
times ranked

2626
citing authors

#	ARTICLE	IF	CITATIONS
1	Markovian Modeling of Gene-Product Synthesis. <i>Theoretical Population Biology</i> , 1995, 48, 222-234.	1.1	568
2	Superantigens interact with MHC class II molecules outside of the antigen groove. <i>Cell</i> , 1990, 62, 1115-1121.	28.9	452
3	Quantitative modeling of stochastic systems in molecular biology by using stochastic Petri nets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 6750-6755.	7.1	304
4	The Synthetic Biology Open Language (SBOL) provides a community standard for communicating designs in synthetic biology. <i>Nature Biotechnology</i> , 2014, 32, 545-550.	17.5	247
5	Writing DNA with GenoCAD™. <i>Nucleic Acids Research</i> , 2009, 37, W40-W47.	14.5	134
6	Gene synthesis demystified. <i>Trends in Biotechnology</i> , 2009, 27, 63-72.	9.3	129
7	Cyberbiosecurity: From Naive Trust to Risk Awareness. <i>Trends in Biotechnology</i> , 2018, 36, 4-7.	9.3	79
8	A syntactic model to design and verify synthetic genetic constructs derived from standard biological parts. <i>Bioinformatics</i> , 2007, 23, 2760-2767.	4.1	78
9	Cyberbiosecurity: An Emerging New Discipline to Help Safeguard the Bioeconomy. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 39.	4.1	75
10	GenoCAD for iGEM: a grammatical approach to the design of standard-compliant constructs. <i>Nucleic Acids Research</i> , 2010, 38, 2637-2644.	14.5	65
11	Targeted Development of Registries of Biological Parts. <i>PLoS ONE</i> , 2008, 3, e2671.	2.5	63
12	Dynamic partitioning for hybrid simulation of the bistable HIV-1 transactivation network. <i>Bioinformatics</i> , 2006, 22, 2782-2789.	4.1	48
13	Genetic design automation: engineering fantasy or scientific renewal?. <i>Trends in Biotechnology</i> , 2012, 30, 120-126.	9.3	47
14	The Selective Values of Alleles in a Molecular Network Model Are Context Dependent. <i>Genetics</i> , 2004, 166, 1715-1725.	2.9	43
15	A Stochastic Model of the Yeast Cell Cycle Reveals Roles for Feedback Regulation in Limiting Cellular Variability. <i>PLoS Computational Biology</i> , 2016, 12, e1005230.	3.2	42
16	Essential information for synthetic DNA sequences. <i>Nature Biotechnology</i> , 2011, 29, 22-22.	17.5	40
17	Genetic design: rising above the sequence. <i>Trends in Biotechnology</i> , 2008, 26, 538-544.	9.3	29
18	Yeast genetic interaction screens in the age of CRISPR/Cas. <i>Current Genetics</i> , 2019, 65, 307-327.	1.7	29

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19	Modeling Structure-Function Relationships in Synthetic DNA Sequences using Attribute Grammars. <i>PLoS Computational Biology</i> , 2009, 5, e1000529.	3.2	28
20	Stochastic exit from mitosis in budding yeast. <i>Cell Cycle</i> , 2011, 10, 999-1009.	2.6	26
21	Rule-Based Design of Synthetic Transcription Factors in Eukaryotes. <i>ACS Synthetic Biology</i> , 2014, 3, 737-744.	3.8	26
22	Experimental testing of a new integrated model of the budding yeast S^{scptart}transition. <i>Molecular Biology of the Cell</i> , 2015, 26, 3966-3984.	2.1	25
23	Oscillatory Dynamics of Cell Cycle Proteins in Single Yeast Cells Analyzed by Imaging Cytometry. <i>PLoS ONE</i> , 2011, 6, e26272.	2.5	23
24	GraphSpace: stimulating interdisciplinary collaborations in network biology. <i>Bioinformatics</i> , 2017, 33, 3134-3136.	4.1	23
25	<i>Synthetic Biology</i>: fostering the cyber-biological revolution. <i>Synthetic Biology</i> , 2016, 1, ysw001.	2.2	22
26	Estimation of the parameters of a branching process from migrating binomial observations. <i>Advances in Applied Probability</i> , 1998, 30, 948-967.	0.7	21
27	GenoLIB: a database of biological parts derived from a library of common plasmid features. <i>Nucleic Acids Research</i> , 2015, 43, 4823-4832.	14.5	20
28	The Open Insulin Project: A Case Study for "Biohacked"™ Medicines. <i>Trends in Biotechnology</i> , 2018, 36, 1211-1218.	9.3	19
29	Measurement and modeling of transcriptional noise in the cell cycle regulatory network. <i>Cell Cycle</i> , 2013, 12, 3392-3407.	2.6	18
30	Strengths and limitations of the federal guidance on synthetic DNA. <i>Nature Biotechnology</i> , 2011, 29, 208-210.	17.5	15
31	Statistical Estimations of PCR Amplification Rates. , 1998, , 111-128.		15
32	The synthetic futures of vesicular stomatitis virus. <i>Trends in Biotechnology</i> , 2012, 30, 497-498.	9.3	13
33	Sequence verification of synthetic DNA by assembly of sequencing reads. <i>Nucleic Acids Research</i> , 2013, 41, e25-e25.	14.5	13
34	Mobius: an integrated discrete-event modeling environment. <i>Bioinformatics</i> , 2007, 23, 3412-3414.	4.1	12
35	Adaptive Imaging Cytometry to Estimate Parameters of Gene Networks Models in Systems and Synthetic Biology. <i>PLoS ONE</i> , 2014, 9, e107087.	2.5	12
36	Rapid, robust plasmid verification by de novo assembly of short sequencing reads. <i>Nucleic Acids Research</i> , 2020, 48, e106-e106.	14.5	12

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37	Rule-Based Design of Plant Expression Vectors Using GenoCAD. PLoS ONE, 2015, 10, e0132502.	2.5	12
38	The PLOS ONE Synthetic Biology Collection: Six Years and Counting. PLoS ONE, 2012, 7, e43231.	2.5	10
39	ANALYSIS OF THE STABILIZING EFFECT OF ROM ON THE GENETIC NETWORK CONTROLLING COLE1 PLASMID REPLICATION. , 1998, , 65-76.		10
40	Building Block Synthesis Using the Polymerase Chain Assembly Method. Methods in Molecular Biology, 2012, 852, 3-10.	0.9	8
41	A Step-by-Step Introduction to Rule-Based Design of Synthetic Genetic Constructs Using GenoCAD. Methods in Enzymology, 2011, 498, 173-188.	1.0	7
42	If You Can't Measure It, You Can't Manage It. PLoS Computational Biology, 2014, 10, e1003462.	3.2	7
43	Development of a domain-specific genetic language to design Chlamydomonas reinhardtii expression vectors. Bioinformatics, 2014, 30, 251-257.	4.1	7
44	Securing the Exchange of Synthetic Genetic Constructs Using Digital Signatures. ACS Synthetic Biology, 2020, 9, 2656-2664.	3.8	7
45	Automating Molecular Biology: A Question of Communication. Bio/technology, 1995, 13, 741-745.	1.5	6
46	Gene Synthesis. Methods in Molecular Biology, 2012, , .	0.9	6
47	Making Security Viral: Shifting Engineering Biology Culture and Publishing. ACS Synthetic Biology, 2022, 11, 522-527.	3.8	6
48	Probability distribution of the chemical states of a closed system and thermodynamic law of mass action from kinetics: The RNA example. Journal of Chemical Physics, 1997, 107, 2913-2919.	3.0	5
49	GenoCAD Plant Grammar to Design Plant Expression Vectors for Promoter Analysis. Methods in Molecular Biology, 2016, 1482, 219-232.	0.9	5
50	Digital Signatures to Ensure the Authenticity and Integrity of Synthetic DNA Molecules. , 2018, , .		5
51	Challenges and opportunities for strain verification by whole-genome sequencing. Scientific Reports, 2020, 10, 5873.	3.3	5
52	A hybrid stochastic model of the budding yeast cell cycle. Npj Systems Biology and Applications, 2020, 6, 7.	3.0	5
53	Synthesizing DNA molecules with identity-based digital signatures to prevent malicious tampering and enabling source attribution. Journal of Computer Security, 2020, 28, 437-467.	0.8	4
54	CrossPlan: systematic planning of genetic crosses to validate mathematical models. Bioinformatics, 2018, 34, 2237-2244.	4.1	3

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55	Hands-On Introduction to Synthetic Biology for Security Professionals. Trends in Biotechnology, 2019, 37, 1143-1146.	9.3	3
56	Genetic interactions derived from high-throughput phenotyping of 6589 yeast cell cycle mutants. Npj Systems Biology and Applications, 2020, 6, 11.	3.0	3
57	Co-design in synthetic biology: a system-level analysis of the development of an environmental sensing device. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2010, , 385-96.	0.7	3
58	Data sharing policies: share well and you shall be rewarded. Synthetic Biology, 2021, 6, ysab028.	2.2	2
59	CO-DESIGN IN SYNTHETIC BIOLOGY:.. , 2009, , 385-396.		2
60	La PCR quantitative : un nouvel outil pour l'analyse médicale.. Medecine/Sciences, 1993, 9, 1378.	0.2	2
61	Opportunities to apply manufacturing systems analysis techniques in genetic manufacturing systems. Manufacturing Letters, 2017, 13, 34-38.	2.2	1
62	Structure of the TCR-Ag-MHC Complex. , 1992, , 17-23.		1
63	Aspects Ã©atoires de la dynamique de la diffÃ©renciation cellulaire. Medecine/Sciences, 1994, 10, 877.	0.2	1
64	CrossPlan. , 2018, , .		1
65	Intricate loops: A pragmatic approach. BioEssays, 1995, 17, 183-183.	2.5	0
66	Cytoâ€¢IQ: an adaptive cytometer for extracting the noisy dynamics of molecular interactions in live cells. Proceedings of SPIE, 2010, , .	0.8	0
67	A stochastic model for error correction of kinetochore-microtubule attachments in budding yeast. PLoS ONE, 2020, 15, e0236293.	2.5	0
68	PARAMETERIZATION OF A NONLINEAR GENOTYPE TO PHENOTYPE MAP USING MOLECULAR NETWORKS. , 2004, , .		0
69	Des rÃ©seaux de PÃ©tri stochastiques pour les rÃ©seaux gÃ©nÃ©tiques.. Medecine/Sciences, 1998, 14, 991.	0.2	0
70	Cloning forever. The Winnower, 2015, , .	0.0	0