

Giovanni Stracquadanio

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

2,490
citations

516710

16
h-index

254184

43
g-index

75
all docs

75
docs citations

75
times ranked

2466
citing authors

#	ARTICLE	IF	CITATIONS
1	Dissecting the heritable risk of breast cancer: From statistical methods to susceptibility genes. <i>Seminars in Cancer Biology</i> , 2021, 72, 175-184.	9.6	10
2	Heritable genetic variants in key cancer genes link cancer risk with anthropometric traits. <i>Journal of Medical Genetics</i> , 2021, 58, 392-399.	3.2	9
3	Germline and Somatic Genetic Variants in the p53 Pathway Interact to Affect Cancer Risk, Progression, and Drug Response. <i>Cancer Research</i> , 2021, 81, 1667-1680.	0.9	32
4	The Landscape of the Heritable Cancer Genome. <i>Cancer Research</i> , 2021, 81, 2588-2599.	0.9	13
5	Mutation landscape of multiple myeloma measurable residual disease: identification of targets for precision medicine. <i>Blood Advances</i> , 2021, , .	5.2	3
6	Design and assembly of DNA molecules using multi-objective optimization. <i>Synthetic Biology</i> , 2021, 6, ysab026.	2.2	2
7	Computer Aided Assembly and Verification of Synthetic Chromosomes. <i>Methods in Molecular Biology</i> , 2021, 2189, 169-181.	0.9	0
8	PyGNA: a unified framework for geneset network analysis. <i>BMC Bioinformatics</i> , 2020, 21, 476.	2.6	0
9	Systematic analysis of the ϵ17 receptor signalosome reveals a robust regulatory feedback loop. <i>EMBO Journal</i> , 2020, 39, e104202.	7.8	16
10	Identification of Molecular Mechanisms Responsible for the Development of Extramedullary Disease in Myeloma and Potential Novel Therapeutic Targets Using Transcriptomic and Exome Profiling. <i>Blood</i> , 2020, 136, 16-17.	1.4	0
11	Stochastic Methods for Global Optimization and Problem Solving. , 2019, , 321-327.		1
12	Technological challenges and milestones for writing genomes. <i>Science</i> , 2019, 366, 310-312.	12.6	50
13	Whole Exome Sequencing of Residual Disease in Multiple Myeloma: Searching for Novel Therapeutic Targets. <i>Blood</i> , 2018, 132, 3175-3175.	1.4	0
14	Design of a synthetic yeast genome. <i>Science</i> , 2017, 355, 1040-1044.	12.6	464
15	“Perfect” designer chromosome V and behavior of a ring derivative. <i>Science</i> , 2017, 355, .	12.6	185
16	Bug mapping and fitness testing of chemically synthesized chromosome X. <i>Science</i> , 2017, 355, .	12.6	173
17	Deep functional analysis of synIII, a 770-kilobase synthetic yeast chromosome. <i>Science</i> , 2017, 355, .	12.6	163
18	Synthesis, debugging, and effects of synthetic chromosome consolidation: synVI and beyond. <i>Science</i> , 2017, 355, .	12.6	184

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19	Low escape-rate genome safeguards with minimal molecular perturbation of <i>Saccharomyces cerevisiae</i> . Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1470-E1479.	7.1	26
20	BioPartsBuilder: a synthetic biology tool for combinatorial assembly of biological parts. Bioinformatics, 2016, 32, 937-939.	4.1	15
21	Pro-survival p53 target genes have evolved clusters of interacting polymorphic response elements that can affect cancer risk. European Journal of Cancer, 2016, 61, S110.	2.8	0
22	Polymorphisms in the p53 pathway are enriched in cancer susceptibility loci and share characteristics with somatic pathway mutations. European Journal of Cancer, 2016, 61, S179.	2.8	0
23	BioPartsDB: a synthetic biology workflow web-application for education and research. Bioinformatics, 2016, 32, 3519-3521.	4.1	5
24	CD44 SNPrs187115: A Novel Biomarker Signature that Predicts Survival in Resectable Pancreatic Ductal Adenocarcinoma. Clinical Cancer Research, 2016, 22, 6069-6077.	7.0	8
25	SCRaMble generates designed combinatorial stochastic diversity in synthetic chromosomes. Genome Research, 2016, 26, 36-49.	5.5	124
26	The importance of p53 pathway genetics in inherited and somatic cancer genomes. Nature Reviews Cancer, 2016, 16, 251-265.	28.4	131
27	Packing equal disks in a unit square: an immunological optimization approach. , 2015, , .		4
28	Automatic Tuning of Algorithms Through Sensitivity Minimization. Lecture Notes in Computer Science, 2015, , 14-25.	1.3	3
29	RANDOM, an Efficient <i>In Vivo</i> Method for Assembling Designed DNA Fragments up to 10 kb Long in <i>Saccharomyces cerevisiae</i> . ACS Synthetic Biology, 2015, 4, 213-220.	3.8	36
30	Intrinsic biocontainment: Multiplex genome safeguards combine transcriptional and recombinational control of essential yeast genes. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1803-1808.	7.1	61
31	Yeast Golden Gate (yGG) for the Efficient Assembly of <i>S. cerevisiae</i> Transcription Units. ACS Synthetic Biology, 2015, 4, 853-859.	3.8	75
32	Optimization Methods and Applications to Microelectronics CAD. Mathematics in Industry, 2015, , 435-451.	0.3	1
33	Total Synthesis of a Functional Designer Eukaryotic Chromosome. Science, 2014, 344, 55-58.	12.6	486
34	Designing Groundwater Supply Systems Using the Mesh Adaptive Basin Hopping Algorithm. , 2014, , 407-421.		0
35	Semiconductor device design using the BiMADS algorithm. Journal of Computational Physics, 2013, 242, 304-320.	3.8	14
36	Bose-Einstein condensation in satisfiability problems. European Journal of Operational Research, 2013, 227, 44-54.	5.7	1

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37	Efficient Behavior of Photosynthetic Organelles via Pareto Optimality, Identifiability, and Sensitivity Analysis. <i>ACS Synthetic Biology</i> , 2013, 2, 274-288.	3.8	10
38	Optimization Approaches for Solving String Selection Problems. <i>SpringerBriefs in Optimization</i> , 2013, , .	0.3	5
39	Mathematical Optimization. <i>SpringerBriefs in Optimization</i> , 2013, , 13-25.	0.3	1
40	String Selection Problems. <i>SpringerBriefs in Optimization</i> , 2013, , 27-49.	0.3	1
41	Biological Sequences. <i>SpringerBriefs in Optimization</i> , 2013, , 1-6.	0.3	0
42	Identification of Sensitive Enzymes in the Photosynthetic Carbon Metabolism. <i>Advances in Experimental Medicine and Biology</i> , 2012, 736, 441-459.	1.6	5
43	A Mesh Adaptive Basin Hopping Method for the Design of Circular Antenna Arrays. <i>Journal of Optimization Theory and Applications</i> , 2012, 155, 1008-1024.	1.5	2
44	Design of Robust Space Trajectories. , 2011, , 341-354.		11
45	Computational energy-based redesign of robust proteins. <i>Computers and Chemical Engineering</i> , 2011, 35, 464-473.	3.8	15
46	Design of robust metabolic pathways. , 2011, , .		12
47	Large Scale Agent-Based Modeling of the Humoral and Cellular Immune Response. <i>Lecture Notes in Computer Science</i> , 2011, , 15-29.	1.3	3
48	Effective design of semiconductor devices using evolutionary-based derivative free optimization. , 2010, , .		1
49	Entropic divergence for population based optimization algorithms. , 2010, , .		4
50	Multi-objective optimization of doping profile in semiconductor design. , 2010, , .		1
51	Robust Bio-active Peptide Prediction Using Multi-objective Optimization. , 2010, , .		6
52	Analysis and Optimization of C3 Photosynthetic Carbon Metabolism. , 2010, , .		11
53	An Information-Theoretic Approach for Clonal Selection Algorithms. <i>Lecture Notes in Computer Science</i> , 2010, , 144-157.	1.3	6
54	An Immunological Algorithm for Doping Profile Optimization in Semiconductors Design. <i>Lecture Notes in Computer Science</i> , 2010, , 213-222.	1.3	2

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55	Nominal-Yield-Area Tradeoff in Automatic Synthesis of Analog Circuits: A Genetic Programming Approach Using Immune-Inspired Operators. , 2009, , .		11
56	A Design-for-Yield Algorithm to Assess and Improve the Structural and Energetic Robustness of Proteins and Drugs. Lecture Notes in Computer Science, 2009, , 245-256.	1.3	2
57	A CLONAL SELECTION ALGORITHM FOR THE AUTOMATIC SYNTHESIS OF LOW-PASS FILTERS. , 2009, , .		0
58	Generalized Pattern Search Algorithm for Peptide Structure Prediction. Biophysical Journal, 2008, 95, 4988-4999.	0.5	33
59	An Advanced Clonal Selection Algorithm with Ad-Hoc Network-Based Hypermutation Operators for Synthesis of Topology and Sizing of Analog Electrical Circuits. Lecture Notes in Computer Science, 2008, , 60-70.	1.3	21
60	New coupled EM and circuit simulation flow for integrated spiral inductor by introducing symbolic simplified expressions. , 2008, , .		5
61	Generalized Pattern Search and Mesh Adaptive Direct Search Algorithms for Protein Structure Prediction. Lecture Notes in Computer Science, 2007, , 183-193.	1.3	3