Tommaso Mazza

List of Publications by Year in Descending Order

163 papers	2,151 citations	25 h-index	39 g-index
191 ext. papers	2,846 ext. citations	5.8 avg, IF	4.83 L-index

#	Paper	IF	Citations
163	Histone Variant macroH2A1.1 Enhances Nonhomologous End Joining-dependent DNA Double-strand-break Repair and Reprogramming Efficiency of Human iPSCs.. *Stem Cells*, **2022**, 40, 35-48	5.8	0
162	Pathogenic variants of MODY-genes in adult patients with early-onset type 2 diabetes.. *Acta Diabetologica*, **2022**, 1	3.9	0
161	Contribution of rare variants in monogenic diabetes-genes to early-onset type 2 diabetes.. *Diabetes and Metabolism*, **2022**, 101353	5.4	0
160	Beyond COVID-19 pandemic: Topology-aware optimization of vaccination strategy for minimizing virus spreading. *Computational and Structural Biotechnology Journal*, **2022**, 20, 2664-2671	6.8	2
159	Nociceptin/orphanin FQ opioid receptor (NOP) selective ligand MCOPPB links anxiolytic and senolytic effects. *GeroScience*, **2021**, 1	8.9	3
158	COVID-19 Specific Immune Markers Revealed by Single Cell Phenotypic Profiling.. *Biomedicines*, **2021**, 9,	4.8	1
157	Mixed Pulmonary Adenocarcinoma and Atypical Carcinoid: A Report of Two Cases of a Non-codified Entity With Biological Profile.. *Frontiers in Molecular Biosciences*, **2021**, 8, 784876	5.6	
156	Correlating Neuroimaging and CNVs Data: 7 Years of Cytogenomic Microarray Analysis on Patients Affected by Neurodevelopmental Disorders. *Journal of Pediatric Genetics*, **2021**, 10, 292-299	0.7	
155	Gain of function of Malate Dehydrogenase 2 (MDH2) and familial hyperglycemia. *Journal of Clinical Endocrinology and Metabolism*, **2021**,	5.6	1
154	Neuroendocrine-Related Circulating Transcripts in Small-Cell Lung Cancers: Detection Methods and Future Perspectives. *Cancers*, **2021**, 13,	6.6	1
153	Refining the mutational spectrum and gene-phenotype correlates in pontocerebellar hypoplasia: results of a multicentric study. *Journal of Medical Genetics*, **2021**,	5.8	3
152	Phenotypic Variability of a Pathogenic Mutation in an Italian Family Affected by Arrhythmogenic Cardiomyopathy and Juvenile Sudden Death: Considerations From Molecular Autopsy to Sport Restriction. *Frontiers in Cardiovascular Medicine*, **2021**, 8, 635141	5.4	1
151	A Serum Resistin and Multicytokine Inflammatory Pathway Is Linked With and Helps Predict All-cause Death in Diabetes. *Journal of Clinical Endocrinology and Metabolism*, **2021**, 106, e4350-e4359	5.6	1
150	GDF11 rapidly increases lipid accumulation in liver cancer cells through ALK5-dependent signaling. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2021**, 1866, 158920	5	2
149	Systemic depletion of histone macroH2A1.1 boosts hippocampal synaptic plasticity and social behavior in mice. *FASEB Journal*, **2021**, 35, e21793	0.9	3
148	Novel Frameshift Mutation in a Patient Affected by a Syndromic Form of Neurodevelopmental Disorder. *Genes*, **2021**, 12,	4.2	0
147	Expanding the phenotype associated to KMT2A variants: overlapping clinical signs between Wiedemann-Steiner and Rubinstein-Taybi syndromes. *European Journal of Human Genetics*, **2021**, 29, 88-98	5.3	3

146	MitImpact 3: modeling the residue interaction network of the Respiratory Chain subunits. *Nucleic Acids Research*, **2021**, 49, D1282-D1288	20.1	4
145	GDF5 mutation case report and a systematic review of molecular and clinical spectrum: Expanding current knowledge on genotype-phenotype correlations. *Bone*, **2021**, 144, 115803	4.7	2
144	Phenotypic Definition and Genotype-Phenotype Correlates in PMPCA-Related Disease. *Applied Sciences (Switzerland)*, **2021**, 11, 748	2.6	
143	Genome-Wide DNA Methylation Analysis of a Cohort of 41 Patients Affected by Oculo-Auriculo-Vertebral Spectrum (OAVS). *International Journal of Molecular Sciences*, **2021**, 22,	6.3	1
142	When to test fetuses for RASopathies? Proposition from a systematic analysis of 352 multicenter cases and a postnatal cohort. *Genetics in Medicine*, **2021**, 23, 1116-1124	8.1	5
141	Whole Exome Sequencing Reveals a Novel In-Frame Deletion in a Boy with Global Developmental Delay, Absent Speech, Dysmorphic Features, and Cerebral Anomalies. *Genes*, **2021**, 12,	4.2	3
140	MicroRNAs and Long Non-Coding RNAs as Potential Candidates to Target Specific Motifs of SARS-CoV-2. *Non-coding RNA*, **2021**, 7,	7.1	17
139	Germline Alterations in Patients With IBD-associated Colorectal Cancer. *Inflammatory Bowel Diseases*, **2021**,	4.5	1
138	The Histone Variant MacroH2A1 Impacts Circadian Gene Expression and Cell Phenotype in an In Vitro Model of Hepatocellular Carcinoma. *Biomedicines*, **2021**, 9,	4.8	1
137	The recurrent SETBP1 c.2608G > A, p.(Gly870Ser) variant in a patient with Schinzel-Giedion syndrome: an illustrative case of the utility of whole exome sequencing in a critically ill neonate. *Italian Journal of Pediatrics*, **2020**, 46, 74	3.2	3
136	Genomic and physiological resilience in extreme environments are associated with a secure attachment style. *Translational Psychiatry*, **2020**, 10, 185	8.6	4
135	Customised next-generation sequencing multigene panel to screen a large cohort of individuals with chromatin-related disorder. *Journal of Medical Genetics*, **2020**, 57, 760-768	5.8	4
134	Clinical Significance of Circulating miR-1273g-3p and miR-122-5p in Pancreatic Cancer. *Frontiers in Oncology*, **2020**, 10, 44	5.3	12
133	Potential Prognostic Role of Methylation in Non-Small-Cell Lung Cancer. *Cells*, **2020**, 9,	7.9	2
132	Insights into the molecular pathogenesis of cardiospondylocarpofacial syndrome: MAP3K7 c.737-7A□G variant alters the TGF□mediated □SMA cytoskeleton assembly and autophagy. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2020**, 1866, 165742	6.9	1
131	Compound Phenotype Due to Recessive Variants in and Genes Disclosed by an Integrated Approach of SNP-Array and Whole Exome Sequencing. *Genes*, **2020**, 11,	4.2	1
130	New Method for Measuring Angle-Resolved Phases in Photoemission. *Physical Review X*, **2020**, 10,	9.1	6
129	GDF11 induces mild hepatic fibrosis independent of metabolic health. *Aging*, **2020**, 12, 20024-20046	5.6	6

128	Pyntacle: a parallel computing-enabled framework for large-scale network biology analysis. *GigaScience*, **2020**, 9,	7.6	4
127	Double missense mutations in cardiac myosin-binding protein C and myopalladin genes: A case report with diffuse coronary disease, complete atrioventricular block, and progression to dilated cardiomyopathy. *Annals of Noninvasive Electrocardiology*, **2020**, 25, e12687	1.5	4
126	TRIM8 interacts with KIF11 and KIFC1 and controls bipolar spindle formation and chromosomal stability. *Cancer Letters*, **2020**, 473, 98-106	9.9	9
125	A new case of SMABF2 diagnosed in stillbirth expands the prenatal presentation and mutational spectrum of ASCC1. *American Journal of Medical Genetics, Part A*, **2020**, 182, 508-512	2.5	6
124	Prenatal whole exome sequencing detects a new homozygous fukutin (FKTN) mutation in a fetus with an ultrasound suspicion of familial Dandy-Walker malformation. *Molecular Genetics & Genomic Medicine*, **2020**, 8, e1054	2.3	3
123	Loss of histone macroH2A1 in hepatocellular carcinoma cells promotes paracrine-mediated chemoresistance and CD4CD25FoxP3 regulatory T cells activation. *Theranostics*, **2020**, 10, 910-924	12.1	20
122	COL1-related overlap disorder: A novel connective tissue disorder incorporating the osteogenesis imperfecta/Ehlers-Danlos syndrome overlap. *Clinical Genetics*, **2020**, 97, 396-406	4	16
121	microRNA-mRNA network model in patients with achalasia. *Neurogastroenterology and Motility*, **2020**, 32, e13764	4	2
120	Epigenetic Scanning of CpG Sites Uncovers New Molecular-Driven Patterns in Lung Adeno and Squamous Cell Carcinomas. *Antioxidants*, **2020**, 9,	7.1	3
119	Mechanisms of pathogenesis of missense mutations on the KDM6A-H3 interaction in type 2 Kabuki Syndrome. *Computational and Structural Biotechnology Journal*, **2020**, 18, 2033-2042	6.8	3
118	Tracing the mutated HTT and haplotype of the African ancestor who spread Huntington disease into the Middle East. *Genetics in Medicine*, **2020**, 22, 1903-1908	8.1	1
117	Heterozygous nonsense ARX mutation in a family highlights the complexity of clinical and molecular diagnosis in case of chromosomal and single gene disorder co-inheritance. *Molecular Genetics & Genomic Medicine*, **2020**, 8, e1336	2.3	1
116	A Lipidomic Signature Complements Stemness Features Acquisition in Liver Cancer Cells. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	4
115	Incidence and prevalence of Huntington disease (HD) in the Sultanate of Oman: the first Middle East post- service-based study. *Journal of Neurology, Neurosurgery and Psychiatry*, **2020**, 91, 1359-1360	5.5	1
114	Early-Onset Diabetes as Risk Factor for Pancreatic Cancer: miRNA Expression Profiling in Plasma Uncovers a Role for miR-20b-5p, miR-29a, and miR-18a-5p in Diabetes of Recent Diagnosis. *Frontiers in Oncology*, **2020**, 10, 1567	5.3	4
113	Hsa-miR-155-5p Up-Regulation in Breast Cancer and Its Relevance for Treatment With Poly[ADP-Ribose] Polymerase 1 (PARP-1) Inhibitors. *Frontiers in Oncology*, **2020**, 10, 1415	5.3	8
112	Mining potentially actionable kinase gene fusions in cancer cell lines with the KuNG FU database. *Scientific Data*, **2020**, 7, 420	8.2	0
111	Deficiency and haploinsufficiency of histone macroH2A1.1 in mice recapitulate hematopoietic defects of human myelodysplastic syndrome. *Clinical Epigenetics*, **2019**, 11, 121	7.7	13

110	A Multi-Layered Study on Harmonic Oscillations in Mammalian Genomics and Proteomics. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	3
109	Clinical and functional characterization of a novel RASopathy-causing SHOC2 mutation associated with prenatal-onset hypertrophic cardiomyopathy. *Human Mutation*, **2019**, 40, 1046-1056	4.7	6
108	Are Gaming-Enabled Graphic Processing Unit Cards Convenient for Molecular Dynamics Simulation?. *Evolutionary Bioinformatics*, **2019**, 15, 1176934319850144	1.9	9
107	Agenesis of the putamen and globus pallidus caused by recessive mutations in the homeobox gene GSX2. *Brain*, **2019**, 142, 2965-2978	11.2	4
106	Association of a homozygous GCK missense mutation with mild diabetes. *Molecular Genetics & Genomic Medicine*, **2019**, 7, e00728	2.3	4
105	Concurrent chromothripsis events in a case of TP53 depleted acute myeloid leukemia with myelodysplasia-related changes. *Cancer Genetics*, **2019**, 237, 63-68	2.3	2
104	Molecular diagnostic workflow, clinical interpretation of sequence variants, and data repository procedures in 140 individuals with familial cerebral cavernous malformations. *Human Mutation*, **2019**, 40, e24-e36	4.7	2
103	Hsa-miR-210-3p expression in breast cancer and its putative association with worse outcome in patients treated with Docetaxel. *Scientific Reports*, **2019**, 9, 14913	4.9	11
102	The striatal-enriched protein Rhes is a critical modulator of cocaine-induced molecular and behavioral responses. *Scientific Reports*, **2019**, 9, 15294	4.9	5
101	A Role for the Biological Clock in Liver Cancer. *Cancers*, **2019**, 11,	6.6	9
100	Diagnostic and Prognostic Value of Hypermethylation and Its Clinical Significance as a Novel Circulating Cell-Free DNA Biomarker in Colorectal Cancer. *Cancers*, **2019**, 11,	6.6	18
99	Familial Hemiplegic Migraine: A New Gene in an Italian Family. *Archives of Clinical and Medical Case Reports*, **2019**, 03,	1.3	2
98	Cardiac valvular Ehlers-Danlos syndrome is a well-defined condition due to recessive null variants in COL1A2. *American Journal of Medical Genetics, Part A*, **2019**, 179, 846-851	2.5	7
97	Novel Variants in Two Italian Patients with Classical-Like Ehlers-Danlos Syndrome. *Genes*, **2019**, 10,	4.2	6
96	Sudden death in mild hypertrophic cardiomyopathy with compound DSG2/DSC2/MYH6 mutations: Revisiting phenotype after genetic assessment in a master runner athlete. *Journal of Electrocardiology*, **2019**, 53, 95-99	1.4	7
95	Genetic characterization of suspected MODY patients in Tunisia by targeted next-generation sequencing. *Acta Diabetologica*, **2019**, 56, 515-523	3.9	9
94	TRIM8-driven transcriptomic profile of neural stem cells identified glioma-related nodal genes and pathways. *Biochimica Et Biophysica Acta - General Subjects*, **2019**, 1863, 491-501	4	17
93	Novel Actin Gene Mutation p.(Ala21Val) Causing Familial Hypertrophic Cardiomyopathy, Myocardial Noncompaction, and Transmural Crypts. Clinical-Pathologic Correlation. *Journal of the American Heart Association*, **2018**, 7,	6	13

92	Association Between MICA Gene Variants and the Risk of Hepatitis C Virus-Induced Hepatocellular Cancer in a Sicilian Population Sample. *OMICS A Journal of Integrative Biology*, **2018**, 22, 274-282	3.8	7
91	Molecular dynamics recipes for genome research. *Briefings in Bioinformatics*, **2018**, 19, 853-862	13.4	14
90	Insights From Molecular Characterization of Adult Patients of Families With Multigenerational Diabetes. *Diabetes*, **2018**, 67, 137-145	0.9	18
89	Induction of cancer cell stemness by depletion of macrohistone H2A1 in hepatocellular carcinoma. *Hepatology*, **2018**, 67, 636-650	11.2	46
88	The Biological Clock: A Pivotal Hub in Non-alcoholic Fatty Liver Disease Pathogenesis. *Frontiers in Physiology*, **2018**, 9, 193	4.6	37
87	Heterozygous missense mutations in NFATC1 are associated with atrioventricular septal defect. *Human Mutation*, **2018**, 39, 1428-1441	4.7	10
86	Sudden cardiac death in J wave syndrome with short QT associated to a novel mutation in Na 1.8 coding gene SCN10A: First case report for a possible pharmacogenomic role. *Journal of Electrocardiology*, **2018**, 51, 809-813	1.4	6
85	Malate Dehydrogenase 2 (MDH2) as a New Diabetogene Causing Hyperglycemia in Families with Multigenerational Diabetes. *Diabetes*, **2018**, 67, 262-OR	0.9	1
84	Food Web Topology and Nested Keystone Species Complexes. *Complexity*, **2018**, 2018, 1-8	1.6	5
83	Mono-ADP-Ribosylhydrolase MACROD2 Is Dispensable for Murine Responses to Metabolic and Genotoxic Insults. *Frontiers in Genetics*, **2018**, 9, 654	4.5	4
82	EphB2 stem-related and EphA2 progression-related miRNA-based networks in progressive stages of CRC evolution: clinical significance and potential miRNA drivers. *Molecular Cancer*, **2018**, 17, 169	42.1	24
81	Establishment of stable iPS-derived human neural stem cell lines suitable for cell therapies. *Cell Death and Disease*, **2018**, 9, 937	9.8	26
80	Biological and clinical manifestations of juvenile Huntington's disease: a retrospective analysis. *Lancet Neurology, The*, **2018**, 17, 986-993	24.1	56
79	Systematic Analysis of Mouse Genome Reveals Distinct Evolutionary and Functional Properties Among Circadian and Ultradian Genes. *Frontiers in Physiology*, **2018**, 9, 1178	4.6	10
78	A novel mutation in CDH11, encoding cadherin-11, cause Branchioskeletogenital (Elsahy-Waters) syndrome. *American Journal of Medical Genetics, Part A*, **2018**, 176, 2028-2033	2.5	4
77	A single-center study on 140 patients with cerebral cavernous malformations: 28 new pathogenic variants and functional characterization of a PDCD10 large deletion. *Human Mutation*, **2018**, 39, 1885-1900	4.7	11
76	Histone variant macroH2A1 rewires carbohydrate and lipid metabolism of hepatocellular carcinoma cells towards cancer stem cells. *Epigenetics*, **2018**, 13, 829-845	5.7	28
75	Between SCA5 and SCAR14: delineation of the SPTBN2 p.R480W-associated phenotype. *European Journal of Human Genetics*, **2018**, 26, 928-929	5.3	12

74	Dysregulation of EGFR Pathway in EphA2 Cell Subpopulation Significantly Associates with Poor Prognosis in Colorectal Cancer. *Clinical Cancer Research*, **2017**, 23, 159-170	12.9	45
73	Putative TMPRSS3/GJB2 digenic inheritance of hearing loss detected by targeted resequencing. *Molecular and Cellular Probes*, **2017**, 33, 24-27	3.3	4
72	Epigenetically induced ectopic expression of UNCX impairs the proliferation and differentiation of myeloid cells. *Haematologica*, **2017**, 102, 1204-1214	6.6	6
71	Stepwise analysis of MIR9 loci identifies miR-9-5p to be involved in Oestrogen regulated pathways in breast cancer patients. *Scientific Reports*, **2017**, 7, 45283	4.9	31
70	Wnt5a Drives an Invasive Phenotype in Human Glioblastoma Stem-like Cells. *Cancer Research*, **2017**, 77, 996-1007	10.1	54
69	Hypomorphic Recessive Variants in SUFU Impair the Sonic Hedgehog Pathway and Cause Joubert Syndrome with Cranio-facial and Skeletal Defects. *American Journal of Human Genetics*, **2017**, 101, 552-563	11	25
68	Analysis of MTNR1B gene polymorphisms in relationship with IRS2 gene variants, epicardial fat thickness, glucose homeostasis and cognitive performance in the elderly. *Chronobiology International*, **2017**, 34, 1083-1093	3.6	3
67	High-confidence assessment of functional impact of human mitochondrial non-synonymous genome variations by APOGEE. *PLoS Computational Biology*, **2017**, 13, e1005628	5	31
66	A primary tumor gene expression signature identifies a crucial role played by tumor stroma myofibroblasts in lymph node involvement in oral squamous cell carcinoma. *Oncotarget*, **2017**, 8, 104913-104927	3.3	8
65	MicroRNA co-expression networks exhibit increased complexity in pancreatic ductal compared to Vater's papilla adenocarcinoma. *Oncotarget*, **2017**, 8, 105320-105339	3.3	4
64	Identification of p53-target genes in Danio rerio. *Scientific Reports*, **2016**, 6, 32474	4.9	6
63	Mutations in CEP120 cause Joubert syndrome as well as complex ciliopathy phenotypes. *Journal of Medical Genetics*, **2016**, 53, 608-15	5.8	40
62	Very mild features of dysequilibrium syndrome associated with a novel VLDLR missense mutation. *Neurogenetics*, **2016**, 17, 191-5	3	4
61	DNA Hypomethylation and Histone Variant macroH2A1 Synergistically Attenuate Chemotherapy-Induced Senescence to Promote Hepatocellular Carcinoma Progression. *Cancer Research*, **2016**, 76, 594-606	10.1	58
60	The association of variants in PNPLA3 and GRP78 and the risk of developing hepatocellular carcinoma in an Italian population. *Oncotarget*, **2016**, 7, 86791-86802	3.3	12
59	Metabolomic profile in pancreatic cancer patients: a consensus-based approach to identify highly discriminating metabolites. *Oncotarget*, **2016**, 7, 5815-29	3.3	56
58	Development of a metabolites risk score for one-year mortality risk prediction in pancreatic adenocarcinoma patients. *Oncotarget*, **2016**, 7, 8968-78	3.3	16
57	Analysis of clock gene-miRNA correlation networks reveals candidate drivers in colorectal cancer. *Oncotarget*, **2016**, 7, 45444-45461	3.3	15

56	"Fork and bracket" syndrome expands the spectrum of SBF1-related sensory motor polyneuropathies. *Neurology: Genetics*, **2016**, 2, e61	3.8	7
55	Gene expression of muscular and neuronal pathways is cooperatively dysregulated in patients with idiopathic achalasia. *Scientific Reports*, **2016**, 6, 31549	4.9	19
54	Inflammatory Bowel Disease Meets Systems Biology: A Multi-Omics Challenge and Frontier. *OMICS A Journal of Integrative Biology*, **2016**, 20, 692-698	3.8	13
53	Clinical, neuroradiological and molecular characterization of cerebellar dysplasia with cysts (Poretti-Boltshauser syndrome). *European Journal of Human Genetics*, **2016**, 24, 1262-7	5.3	32
52	Multifaceted enrichment analysis of RNA-RNA crosstalk reveals cooperating micro-societies in human colorectal cancer. *Nucleic Acids Research*, **2016**, 44, 4025-36	20.1	9
51	A Broad Overview of Computational Methods for Predicting the Pathophysiological Effects of Non-synonymous Variants. *Methods in Molecular Biology*, **2016**, 1415, 423-40	1.4	6
50	MitImpact: an exhaustive collection of pre-computed pathogenicity predictions of human mitochondrial non-synonymous variants. *Human Mutation*, **2015**, 36, E2413-22	4.7	42
49	Oral-facial-digital syndrome type VI: is C5orf42 really the major gene?. *Human Genetics*, **2015**, 134, 123-66	6.3	24
48	Infantile and childhood onset PLA2G6-associated neurodegeneration in a large North African cohort. *European Journal of Neurology*, **2015**, 22, 178-86	6	19
47	t(15;21) translocations leading to the concurrent downregulation of RUNX1 and its transcription factor partner genes SIN3A and TCF12 in myeloid disorders. *Molecular Cancer*, **2015**, 14, 211	42.1	9
46	Functional genome-wide siRNA screen identifies KIAA0586 as mutated in Joubert syndrome. *ELife*, **2015**, 4, e06602	8.9	49
45	Loss-of-Function Mutations in APPL1 in Familial Diabetes Mellitus. *American Journal of Human Genetics*, **2015**, 97, 177-85	11	91
44	Functional Impact of Autophagy-Related Genes on the Homeostasis and Dynamics of Pancreatic Cancer Cell Lines. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2015**, 12, 667-78	3	6
43	The biological clock and the molecular basis of lysosomal storage diseases. *JIMD Reports*, **2015**, 18, 93-105	2.9	5
42	Fasting cycles potentiate the efficacy of gemcitabine treatment in in vitro and in vivo pancreatic cancer models. *Oncotarget*, **2015**, 6, 18545-57	3.3	50
41	Age-related obesity and type 2 diabetes dysregulate neuronal associated genes and proteins in humans. *Oncotarget*, **2015**, 6, 29818-32	3.3	9
40	Impact of genetic polymorphisms on the pathogenesis of idiopathic achalasia: Association with IL33 gene variant. *Human Immunology*, **2014**, 75, 364-9	2.3	8
39	Mutations in B9D1 and MKS1 cause mild Joubert syndrome: expanding the genetic overlap with the lethal ciliopathy Meckel syndrome. *Orphanet Journal of Rare Diseases*, **2014**, 9, 72	4.2	47

38	SIRT1-metabolite binding histone macroH2A1.1 protects hepatocytes against lipid accumulation. *Aging*, **2014**, 6, 35-47	5.6	43
37	Statistical Model Checking of Membrane Systems with Peripheral Proteins: Quantifying the Role of Estrogen in Cellular Mitosis and DNA Damage. *Emergence, Complexity and Computation*, **2014**, 43-63	0.1	1
36	TMS follow-up study in patients with vascular cognitive impairment-no dementia. *Neuroscience Letters*, **2013**, 534, 155-9	3.3	27
35	Congruency in the prediction of pathogenic missense mutations: state-of-the-art web-based tools. *Briefings in Bioinformatics*, **2013**, 14, 448-59	13.4	65
34	Affinity analysis of differentially expressed genes in hepatocytes expressing HCV core genotype 1b or 3a. *BioSystems*, **2013**, 114, 64-8	1.9	2
33	Estimating the global density of graphs by a sparseness index. *Applied Mathematics and Computation*, **2013**, 224, 346-357	2.7	5
32	A solid quality-control analysis of AB SOLiD short-read sequencing data. *Briefings in Bioinformatics*, **2013**, 14, 684-95	13.4	7
31	Circadian transcriptome analysis in human fibroblasts from Hunter syndrome and impact of iduronate-2-sulfatase treatment. *BMC Medical Genomics*, **2013**, 6, 37	3.7	14
30	Multi-Sided Compression Performance Assessment of ABI SOLiD WES Data. *Algorithms*, **2013**, 6, 309-318	1.8	1
29	HbA1c levels in patients with gestational diabetes mellitus: Relationship with pre-pregnancy BMI and pregnancy outcome. *Journal of Endocrinological Investigation*, **2013**, 36, 1038-45	5.2	6
28	High performance computational systems biology. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2012**, 9, 641-2	3	
27	Mirna expression profiles identify drivers in colorectal and pancreatic cancers. *PLoS ONE*, **2012**, 7, e33663	3.7	116
26	Modeling and Simulation of Smart and Green Computing Systems. *Computer*, **2012**, 45, 22-23	1.6	1
25	AURA: Atlas of UTR Regulatory Activity. *Bioinformatics*, **2012**, 28, 142-4	7.2	20
24	The Relevance of Topology in Parallel Simulation of Biological Networks. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2012**, 9, 911-923	3	7
23	Functional variants of the HMGA1 gene and type 2 diabetes mellitus. *JAMA - Journal of the American Medical Association*, **2011**, 305, 903-12	27.4	72
22	Stability Analysis of Biological Network Topologies during Stochastic Simulation **2011**,		2
21	Estimating the divisibility of complex biological networks by sparseness indices. *Briefings in Bioinformatics*, **2010**, 11, 364-74	13.4	9

20	A (Natural) Computing Perspective on Cellular Processes **2010**, 115-140		1
19	Predicting the Effects of Parameters Changes in Stochastic Models through Parallel Synthetic Experiments and Multivariate Analysis **2010**,		2
18	Snazer: the simulations and networks analyzer. *BMC Systems Biology*, **2010**, 4, 1	3.5	98
17	Fastest parallel molecular algorithms for the elliptic curve discrete logarithm problem over GF(2n) **2009**,		1
16	Cell Cycle and Tumor Growth in Membrane Systems with Peripheral Proteins. *Electronic Notes in Theoretical Computer Science*, **2009**, 227, 127-141	0.7	4
15	Studying Irreversible Transitions in a Model of Cell Cycle Regulation. *Electronic Notes in Theoretical Computer Science*, **2009**, 232, 39-53	0.7	8
14	Taming the complexity of biological pathways through parallel computing. *Briefings in Bioinformatics*, **2009**, 10, 278-88	13.4	24
13	On Parallel Stochastic Simulation of Diffusive Systems. *Lecture Notes in Computer Science*, **2008**, 191-210	0.9	21
12	Using ontologies for preprocessing and mining spectra data on the Grid. *Future Generation Computer Systems*, **2007**, 23, 55-60	7.5	17
11	Cyto-Sim: a formal language model and stochastic simulator of membrane-enclosed biochemical processes. *Bioinformatics*, **2007**, 23, 2800-2	7.2	26
10	Stochastic Simulation as an Effective Cell Analysis Tool **2007**, 427-432		
9	Towards a Complete Covering of SBML Functionalities **2007**, 353-366		3
8	On the Preprocessing of Mass Spectrometry Proteomics Data. *Lecture Notes in Computer Science*, **2006**, 127-131	0.9	3
7	Managing ontologies for Grid computing. *Multiagent and Grid Systems*, **2006**, 2, 29-44	0.5	4
6	Mitotic Oscillators as MP Graphs. *Lecture Notes in Computer Science*, **2006**, 382-394	0.9	7
5	Algorithms and databases in bioinformatics: towards a proteomic ontology **2005**,		2
4	Mass Spectrometry Data Analysis for Early Detection of Inherited Breast Cancer **2005**, 21-28		
3	Using PROTEUS for Modeling Data Mining Analysis of Proteomics Experiments on the Grid. *Lecture Notes in Computer Science*, **2004**, 232-243	0.9	

2	Preprocessing of mass spectrometry proteomics data on the grid	7
1	Efficient Parallel Statistical Model Checking of Biochemical Networks. *Electronic Proceedings in Theoretical Computer Science, EPTCS*,14, 47-61	9