

Doron Lancet

List of Publications by Year in descending order

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116
papers

35,019
citations

41258

49
h-index

26548

107
g-index

119
all docs

119
docs citations

119
times ranked

42244
citing authors

#	ARTICLE	IF	CITATIONS
1	Initial sequencing and analysis of the human genome. <i>Nature</i> , 2001, 409, 860-921.	13.7	21,074
2	The GeneCards Suite: From Gene Data Mining to Disease Genome Sequence Analyses. <i>Current Protocols in Bioinformatics</i> , 2016, 54, 1.30.1-1.30.33.	25.8	2,405
3	GeneCards Version 3: the human gene integrator. <i>Database: the Journal of Biological Databases and Curation</i> , 2010, 2010, baq020-baq020.	1.4	1,257
4	GeneHancer: genome-wide integration of enhancers and target genes in GeneCards. <i>Database: the Journal of Biological Databases and Curation</i> , 2017, 2017, .	1.4	820
5	Odorant-sensitive adenylate cyclase may mediate olfactory reception. <i>Nature</i> , 1985, 316, 255-258.	13.7	577
6	The lipid world. <i>Origins of Life and Evolution of Biospheres</i> , 2001, 31, 119-145.	0.8	514
7	The UDP-N-acetylglucosamine 2-epimerase/N-acetylmannosamine kinase gene is mutated in recessive hereditary inclusion body myopathy. <i>Nature Genetics</i> , 2001, 29, 83-87.	9.4	476
8	MalaCards: an amalgamated human disease compendium with diverse clinical and genetic annotation and structured search. <i>Nucleic Acids Research</i> , 2017, 45, D877-D887.	6.5	398
9	Loss of Olfactory Receptor Genes Coincides with the Acquisition of Full Trichromatic Vision in Primates. <i>PLoS Biology</i> , 2004, 2, e5.	2.6	393
10	Identification of the gene causing mucopolidosis type IV. <i>Nature Genetics</i> , 2000, 26, 118-122.	9.4	354
11	Whole-exome sequencing in undiagnosed genetic diseases: interpreting 119 trios. <i>Genetics in Medicine</i> , 2015, 17, 774-781.	1.1	284
12	Human specific loss of olfactory receptor genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 3324-3327.	3.3	245
13	Widespread ectopic expression of olfactory receptor genes. <i>BMC Genomics</i> , 2006, 7, 121.	1.2	216
14	PathCards: multi-source consolidation of human biological pathways. <i>Database: the Journal of Biological Databases and Curation</i> , 2015, 2015, .	1.4	216
15	Olfactory receptor gene cluster on human chromosome 17: possible duplication of an ancestral receptor repertoire. <i>Human Molecular Genetics</i> , 1994, 3, 229-235.	1.4	201
16	Human Gene-Centric Databases at the Weizmann Institute of Science: GeneCards, UDB, CroW 21 and HORDE. <i>Nucleic Acids Research</i> , 2003, 31, 142-146.	6.5	199
17	The olfactory receptor gene superfamily: data mining, classification, and nomenclature. <i>Mammalian Genome</i> , 2000, 11, 1016-1023.	1.0	196
18	Genetic Elucidation of Human Hyperosmia to Isovaleric Acid. <i>PLoS Biology</i> , 2007, 5, e284.	2.6	196

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19	MalaCards: an integrated compendium for diseases and their annotation. Database: the Journal of Biological Databases and Curation, 2013, 2013, bat018.	1.4	196
20	GeneAnalytics: An Integrative Gene Set Analysis Tool for Next Generation Sequencing, RNAseq and Microarray Data. OMICS A Journal of Integrative Biology, 2016, 20, 139-151.	1.0	187
21	In-silico human genomics with GeneCards. Human Genomics, 2011, 5, 709.	1.4	186
22	GeneCards TM 2002: towards a complete, object-oriented, human gene compendium. Bioinformatics, 2002, 18, 1542-1543.	1.8	185
23	The GeneCards Suite. , 2021, , 27-56.		182
24	VarElect: the phenotype-based variation prioritizer of the GeneCards Suite. BMC Genomics, 2016, 17, 444.	1.2	167
25	Olfactory receptors. Current Biology, 1993, 3, 668-674.	1.8	159
26	Human olfaction: from genomic variation to phenotypic diversity. Trends in Genetics, 2009, 25, 178-184.	2.9	156
27	The variable and conserved interfaces of modeled olfactory receptor proteins. Protein Science, 1999, 8, 969-977.	3.1	147
28	Mutation in TECPR2 Reveals a Role for Autophagy in Hereditary Spastic Paraparesis. American Journal of Human Genetics, 2012, 91, 1065-1072.	2.6	147
29	Genic insights from integrated human proteomics in GeneCards. Database: the Journal of Biological Databases and Curation, 2016, 2016, baw030.	1.4	145
30	Prediction of the odorant binding site of olfactory receptor proteins by human-mouse comparisons. Protein Science, 2004, 13, 240-254.	3.1	143
31	Deficiency of Asparagine Synthetase Causes Congenital Microcephaly and a Progressive Form of Encephalopathy. Neuron, 2013, 80, 429-441.	3.8	137
32	Primate Evolution of an Olfactory Receptor Cluster: Diversification by Gene Conversion and Recent Emergence of Pseudogenes. Genomics, 1999, 61, 24-36.	1.3	119
33	Composing life. EMBO Reports, 2000, 1, 217-222.	2.0	119
34	The canine olfactory subgenome. Genomics, 2004, 83, 361-372.	1.3	114
35	Systems protobiology: origin of life in lipid catalytic networks. Journal of the Royal Society Interface, 2018, 15, 20180159.	1.5	102
36	Sequence, Structure, and Evolution of a Complete Human Olfactory Receptor Gene Cluster. Genomics, 2000, 63, 227-245.	1.3	94

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37	Compositional complementarity and prebiotic ecology in the origin of life. <i>BioEssays</i> , 2006, 28, 399-412.	1.2	93
38	Dichotomy of single-nucleotide polymorphism haplotypes in olfactory receptor genes and pseudogenes. <i>Nature Genetics</i> , 2000, 26, 221-224.	9.4	92
39	Title is missing!. <i>Origins of Life and Evolution of Biospheres</i> , 1998, 28, 501-514.	0.8	90
40	The human olfactory transcriptome. <i>BMC Genomics</i> , 2016, 17, 619.	1.2	87
41	MalaCards: A Comprehensive Automatically Mined Database of Human Diseases. <i>Current Protocols in Bioinformatics</i> , 2014, 47, 1.24.1-19.	25.8	84
42	Sequence Analysis in the Olfactory Receptor Gene Cluster on Human Chromosome 17: Recombinatorial Events Affecting Receptor Diversity. <i>Genomics</i> , 1996, 37, 147-160.	1.3	81
43	Mucopolipidosis type IV: Novel MCOLN1 mutations in Jewish and non-Jewish patients and the frequency of the disease in the Ashkenazi Jewish population. <i>Human Mutation</i> , 2001, 17, 397-402.	1.1	74
44	GeneDecks: Paralog Hunting and Gene-Set Distillation with GeneCards Annotation. <i>OMICS A Journal of Integrative Biology</i> , 2009, 13, 477-487.	1.0	74
45	The human olfactory subgenome: from sequence to structure and evolution. <i>Human Genetics</i> , 2001, 108, 1-13.	1.8	61
46	The Molecular Roots of Compositional Inheritance. <i>Journal of Theoretical Biology</i> , 2001, 213, 481-491.	0.8	60
47	Organization and Evolution of Olfactory Receptor Genes on Human Chromosome 11. <i>Genomics</i> , 1998, 53, 56-68.	1.3	58
48	Rational confederation of genes and diseases: NGS interpretation via GeneCards, MalaCards and VarElect. <i>BioMedical Engineering OnLine</i> , 2017, 16, 72.	1.3	58
49	Excess Mutual Catalysis Is Required for Effective Evolvability. <i>Artificial Life</i> , 2012, 18, 243-266.	1.0	53
50	Identification of a Functional Risk Variant for Pemphigus Vulgaris in the ST18 Gene. <i>PLoS Genetics</i> , 2016, 12, e1006008.	1.5	53
51	Evidence for genetic determination in human twins of olfactory thresholds for a standard odorant. <i>Neuroscience Letters</i> , 1992, 141, 115-118.	1.0	52
52	GeneCaRNA: A Comprehensive Gene-centric Database of Human Non-coding RNAs in the GeneCards Suite. <i>Journal of Molecular Biology</i> , 2021, 433, 166913.	2.0	51
53	HORDE: Comprehensive Resource for Olfactory Receptor Genomics. <i>Methods in Molecular Biology</i> , 2013, 1003, 23-38.	0.4	49
54	Ancient genomic architecture for mammalian olfactory receptor clusters. <i>Genome Biology</i> , 2006, 7, R88.	13.9	47

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55	TECPR2 mutations cause a new subtype of familial dysautonomia like hereditary sensory autonomic neuropathy with intellectual disability. <i>European Journal of Paediatric Neurology</i> , 2016, 20, 69-79.	0.7	45
56	A probabilistic classifier for olfactory receptor pseudogenes. <i>BMC Bioinformatics</i> , 2006, 7, 393.	1.2	44
57	Non-redundant compendium of human ncRNA genes in GeneCards. <i>Bioinformatics</i> , 2013, 29, 255-261.	1.8	41
58	Overexpression, Solubilization and Purification of Rat and Human Olfactory Receptors. <i>FEBS Journal</i> , 1996, 238, 28-37.	0.2	37
59	GeneLoc: exon-based integration of human genome maps. <i>Bioinformatics</i> , 2003, 19, i222-i224.	1.8	36
60	Population differences in haplotype structure within a human olfactory receptor gene cluster. <i>Human Molecular Genetics</i> , 2002, 11, 1381-1390.	1.4	35
61	Test of a Statistical Model for Molecular Recognition in Biological Repertoires. <i>Journal of Theoretical Biology</i> , 2002, 216, 327-336.	0.8	35
62	Olfactory Receptor Proteins. Expression, Characterization and Partial Purification. <i>FEBS Journal</i> , 1994, 225, 1157-1168.	0.2	34
63	Mouse-Human Orthology Relationships in an Olfactory Receptor Gene Cluster. <i>Genomics</i> , 2001, 71, 296-306.	1.3	33
64	Probability rule for chiral recognition. <i>Chirality</i> , 2004, 16, 369-378.	1.3	33
65	Multispecies population dynamics of prebiotic compositional assemblies. <i>Journal of Theoretical Biology</i> , 2014, 357, 26-34.	0.8	32
66	Identification and characterization of coding single-nucleotide polymorphisms within a human olfactory receptor gene cluster. <i>Gene</i> , 2000, 260, 87-94.	1.0	30
67	Coevolution of compositional protocells and their environment. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007, 362, 1813-1819.	1.8	30
68	Genome analysis and knowledge-driven variant interpretation with TGex. <i>BMC Medical Genomics</i> , 2019, 12, 200.	0.7	30
69	Self-reproducing catalytic micelles as nanoscopic protocell precursors. <i>Nature Reviews Chemistry</i> , 2021, 5, 870-878.	13.8	30
70	A unified nomenclature for vertebrate olfactory receptors. <i>BMC Evolutionary Biology</i> , 2020, 20, 42.	3.2	28
71	MESOBOTIC EMERGENCE: MOLECULAR AND ENSEMBLE COMPLEXITY IN EARLY EVOLUTION. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2003, 06, 15-35.	0.9	27
72	The strong scent of success. <i>Nature</i> , 1991, 351, 275-276.	13.7	26

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73	Exclusive receptors. <i>Nature</i> , 1994, 372, 321-322.	13.7	26
74	Polymer Gard: Computer Simulation of Covalent Bond Formation in Reproducing Molecular Assemblies. <i>Origins of Life and Evolution of Biospheres</i> , 2005, 35, 111-133.	0.8	26
75	Enceladus: First Observed Primordial Soup Could Arbitrate Origin-of-Life Debate. <i>Astrobiology</i> , 2019, 19, 1263-1278.	1.5	26
76	Noncoding deletions reveal a gene that is critical for intestinal function. <i>Nature</i> , 2019, 571, 107-111.	13.7	24
77	Rare Variant Burden Analysis within Enhancers Identifies CAV1 as an ALS Risk Gene. <i>Cell Reports</i> , 2020, 33, 108456.	2.9	24
78	Emergence of order in small autocatalytic sets maintained far from equilibrium: Application of a probabilistic receptor affinity distribution (RAD) model. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1994, 98, 1166-1169.	0.9	20
79	DEFOG: A Practical Scheme for Deciphering Families of Genes. <i>Genomics</i> , 2002, 80, 295-302.	1.3	20
80	Question 7: The First Units of Life Were Not Simple Cells. <i>Origins of Life and Evolution of Biospheres</i> , 2007, 37, 429-432.	0.8	20
81	Spontaneous chiral symmetry breaking in early molecular networks. <i>Biology Direct</i> , 2010, 5, 38.	1.9	19
82	Introducing PIONEER: a project to harness big data in prostate cancer research. <i>Nature Reviews Urology</i> , 2020, 17, 351-362.	1.9	18
83	Quasispecies in population of compositional assemblies. <i>BMC Evolutionary Biology</i> , 2014, 14, 265.	3.2	17
84	Protobiotic Systems Chemistry Analyzed by Molecular Dynamics. <i>Life</i> , 2019, 9, 38.	1.1	17
85	Genome Dynamics, Evolution, and Protein Modeling in the Olfactory Receptor Gene Superfamily. <i>Annals of the New York Academy of Sciences</i> , 1998, 855, 182-193.	1.8	16
86	Prospects of a Computational Origin of Life Endeavor. <i>Origins of Life and Evolution of Biospheres</i> , 2004, 34, 181-194.	0.8	16
87	Next-generation sequencing of patients with congenital anosmia. <i>European Journal of Human Genetics</i> , 2017, 25, 1377-1387.	1.4	16
88	Hapten-induced allosteric transition in the light chain dimer of an immunoglobulin. <i>Nature</i> , 1977, 269, 827-829.	13.7	15
89	Twenty Years of "Lipid World": A Fertile Partnership with David Deamer. <i>Life</i> , 2019, 9, 77.	1.1	15
90	Molecular biology of olfactory receptors. <i>Essays in Biochemistry</i> , 1998, 33, 93-104.	2.1	15

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91	ORDB, HORDE, ODORactor and other on-line knowledge resources of olfactory receptor-odorant interactions. Database: the Journal of Biological Databases and Curation, 2016, 2016, baw132.	1.4	13
92	Mutations and Lethality in Simulated Prebiotic Networks. Journal of Molecular Evolution, 2009, 69, 568-578.	0.8	12
93	Genome-wide association study identifies 16 genomic regions associated with circulating cytokines at birth. PLoS Genetics, 2020, 16, e1009163.	1.5	12
94	The MATCHIT Automaton: Exploiting Compartmentalization for the Synthesis of Branched Polymers. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-8.	0.7	11
95	Early Systems Biology and Prebiotic Networks. Lecture Notes in Computer Science, 2005, , 14-27.	1.0	11
96	Replication of simulated prebiotic amphiphile vesicles controlled by experimental lipid physicochemical properties. Physical Biology, 2011, 8, 066001.	0.8	9
97	Is There an Optimal Level of Open-Endedness in Prebiotic Evolution?. Origins of Life and Evolution of Biospheres, 2012, 42, 469-474.	0.8	9
98	Replication of Simulated Prebiotic Amphiphilic Vesicles in a Finite Environment Exhibits Complex Behavior That Includes High Progeny Variability and Competition. Astrobiology, 2018, 18, 419-430.	1.5	8
99	Olfactory Receptors: Transduction, Diversity, Human Psychophysics and Genome Analysis. Novartis Foundation Symposium, 1993, 179, 131-149.	1.2	8
100	Common peptides shed light on evolution of Olfactory Receptors. BMC Evolutionary Biology, 2009, 9, 91.	3.2	7
101	Dynamic lipid aptamers: non-polymeric chemical path to early life. Chemical Society Reviews, 2021, 50, 11741-11746.	18.7	7
102	Estimating the Size of the Olfactory Repertoire. Bulletin of Mathematical Biology, 2001, 63, 1063-1078.	0.9	6
103	Evolutionary Grass Roots for Odor Recognition. Chemical Senses, 2012, 37, 581-584.	1.1	6
104	An Overview of Synergistic Data Tools for Biological Scrutiny. Israel Journal of Chemistry, 2013, 53, 185-198.	1.0	5
105	Good reception in fruitfly antennae. Nature, 1999, 398, 285-287.	13.7	4
106	From subgenome analysis to protein structure. Current Opinion in Structural Biology, 2003, 13, 353-358.	2.6	4
107	Micellar Composition Affects Lipid Accretion Kinetics in Molecular Dynamics Simulations: Support for Lipid Network Reproduction. Life, 2022, 12, 955.	1.1	4
108	Integrated Identification of Disease-Gene Links and their Utility in Next-Generation Sequencing Interpretation. , 2016, , .		0

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109	Human Olfactory Receptors. , 2003, , 145-147.		0
110	Composomes. , 2014, , 1-2.		0
111	Composomes. , 2015, , 531-532.		0
112	Genetic Basis of Olfactory Deficits. , 2006, , 101-113.		0
113	Title is missing!. , 2020, 16, e1009163.		0
114	Title is missing!. , 2020, 16, e1009163.		0
115	Title is missing!. , 2020, 16, e1009163.		0
116	Title is missing!. , 2020, 16, e1009163.		0