

Doron Lancet

List of Publications by Year in descending order

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116
papers

35,019
citations

41344

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docs citations

119
times ranked

42244
citing authors

#	ARTICLE	IF	CITATIONS
1	Micellar Composition Affects Lipid Accretion Kinetics in Molecular Dynamics Simulations: Support for Lipid Network Reproduction. <i>Life</i> , 2022, 12, 955.	2.4	4
2	Dynamic lipid aptamers: non-polymeric chemical path to early life. <i>Chemical Society Reviews</i> , 2021, 50, 11741-11746.	38.1	7
3	GeneCaRNA: A Comprehensive Gene-centric Database of Human Non-coding RNAs in the GeneCards Suite. <i>Journal of Molecular Biology</i> , 2021, 433, 166913.	4.2	51
4	Self-reproducing catalytic micelles as nanoscopic protocell precursors. <i>Nature Reviews Chemistry</i> , 2021, 5, 870-878.	30.2	30
5	The GeneCards Suite. , 2021, , 27-56.		182
6	Rare Variant Burden Analysis within Enhancers Identifies CAV1 as an ALS Risk Gene. <i>Cell Reports</i> , 2020, 33, 108456.	6.4	24
7	Introducing PIONEER: a project to harness big data in prostate cancer research. <i>Nature Reviews Urology</i> , 2020, 17, 351-362.	3.8	18
8	A unified nomenclature for vertebrate olfactory receptors. <i>BMC Evolutionary Biology</i> , 2020, 20, 42.	3.2	28
9	Genome-wide association study identifies 16 genomic regions associated with circulating cytokines at birth. <i>PLoS Genetics</i> , 2020, 16, e1009163.	3.5	12
10	Title is missing!. , 2020, 16, e1009163.		0
11	Title is missing!. , 2020, 16, e1009163.		0
12	Title is missing!. , 2020, 16, e1009163.		0
13	Title is missing!. , 2020, 16, e1009163.		0
14	Enceladus: First Observed Primordial Soup Could Arbitrate Origin-of-Life Debate. <i>Astrobiology</i> , 2019, 19, 1263-1278.	3.0	26
15	Twenty Years of "Lipid World" A Fertile Partnership with David Deamer. <i>Life</i> , 2019, 9, 77.	2.4	15
16	Noncoding deletions reveal a gene that is critical for intestinal function. <i>Nature</i> , 2019, 571, 107-111.	27.8	24
17	Protobiotic Systems Chemistry Analyzed by Molecular Dynamics. <i>Life</i> , 2019, 9, 38.	2.4	17
18	Genome analysis and knowledge-driven variant interpretation with TGex. <i>BMC Medical Genomics</i> , 2019, 12, 200.	1.5	30

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19	Replication of Simulated Prebiotic Amphiphilic Vesicles in a Finite Environment Exhibits Complex Behavior That Includes High Progeny Variability and Competition. <i>Astrobiology</i> , 2018, 18, 419-430.	3.0	8
20	Systems protobiology: origin of life in lipid catalytic networks. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180159.	3.4	102
21	MalaCards: an amalgamated human disease compendium with diverse clinical and genetic annotation and structured search. <i>Nucleic Acids Research</i> , 2017, 45, D877-D887.	14.5	398
22	GeneHancer: genome-wide integration of enhancers and target genes in GeneCards. <i>Database: the Journal of Biological Databases and Curation</i> , 2017, 2017, .	3.0	820
23	Next-generation sequencing of patients with congenital anosmia. <i>European Journal of Human Genetics</i> , 2017, 25, 1377-1387.	2.8	16
24	Rational confederation of genes and diseases: NGS interpretation via GeneCards, MalaCards and VarElect. <i>BioMedical Engineering OnLine</i> , 2017, 16, 72.	2.7	58
25	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
26	Genic insights from integrated human proteomics in GeneCards. <i>Database: the Journal of Biological Databases and Curation</i> , 2016, 2016, baw030.	3.0	145
27	Integrated Identification of Disease-Gene Links and their Utility in Next-Generation Sequencing Interpretation. , 2016, , .		0
28	ORDB, HORDE, ODORactor and other on-line knowledge resources of olfactory receptor-odorant interactions. <i>Database: the Journal of Biological Databases and Curation</i> , 2016, 2016, baw132.	3.0	13
29	The human olfactory transcriptome. <i>BMC Genomics</i> , 2016, 17, 619.	2.8	87
30	VarElect: the phenotype-based variation prioritizer of the GeneCards Suite. <i>BMC Genomics</i> , 2016, 17, 444.	2.8	167
31	GeneAnalytics: An Integrative Gene Set Analysis Tool for Next Generation Sequencing, RNAseq and Microarray Data. <i>OMICS A Journal of Integrative Biology</i> , 2016, 20, 139-151.	2.0	187
32	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.	1.6	45
33	Identification of a Functional Risk Variant for Pemphigus Vulgaris in the ST18 Gene. <i>PLoS Genetics</i> , 2016, 12, e1006008.	3.5	53
34	PathCards: multi-source consolidation of human biological pathways. <i>Database: the Journal of Biological Databases and Curation</i> , 2015, 2015, .	3.0	216
35	Whole-exome sequencing in undiagnosed genetic diseases: interpreting 119 trios. <i>Genetics in Medicine</i> , 2015, 17, 774-781.	2.4	284
36	Composomes. , 2015, , 531-532.		0

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37	Quasispecies in population of compositional assemblies. <i>BMC Evolutionary Biology</i> , 2014, 14, 265.	3.2	17
38	MalaCards: A Comprehensive Automatically-Mined Database of Human Diseases. <i>Current Protocols in Bioinformatics</i> , 2014, 47, 1.24.1-19.	25.8	84
39	Multispecies population dynamics of prebiotic compositional assemblies. <i>Journal of Theoretical Biology</i> , 2014, 357, 26-34.	1.7	32
40	Composomes. , 2014, , 1-2.		0
41	Deficiency of Asparagine Synthetase Causes Congenital Microcephaly and a Progressive Form of Encephalopathy. <i>Neuron</i> , 2013, 80, 429-441.	8.1	137
42	MalaCards: an integrated compendium for diseases and their annotation. <i>Database: the Journal of Biological Databases and Curation</i> , 2013, 2013, bat018.	3.0	196
43	Non-redundant compendium of human ncRNA genes in GeneCards. <i>Bioinformatics</i> , 2013, 29, 255-261.	4.1	41
44	An Overview of Synergistic Data Tools for Biological Scrutiny. <i>Israel Journal of Chemistry</i> , 2013, 53, 185-198.	2.3	5
45	The MATCHIT Automaton: Exploiting Compartmentalization for the Synthesis of Branched Polymers. <i>Computational and Mathematical Methods in Medicine</i> , 2013, 2013, 1-8.	1.3	11
46	HORDE: Comprehensive Resource for Olfactory Receptor Genomics. <i>Methods in Molecular Biology</i> , 2013, 1003, 23-38.	0.9	49
47	Excess Mutual Catalysis Is Required for Effective Evolvability. <i>Artificial Life</i> , 2012, 18, 243-266.	1.3	53
48	Evolutionary Grass Roots for Odor Recognition. <i>Chemical Senses</i> , 2012, 37, 581-584.	2.0	6
49	Is There an Optimal Level of Open-Endedness in Prebiotic Evolution?. <i>Origins of Life and Evolution of Biospheres</i> , 2012, 42, 469-474.	1.9	9
50	Mutation in TECPR2 Reveals a Role for Autophagy in Hereditary Spastic Paraparesis. <i>American Journal of Human Genetics</i> , 2012, 91, 1065-1072.	6.2	147
51	In-silico human genomics with GeneCards. <i>Human Genomics</i> , 2011, 5, 709.	2.9	186
52	Replication of simulated prebiotic amphiphile vesicles controlled by experimental lipid physicochemical properties. <i>Physical Biology</i> , 2011, 8, 066001.	1.8	9
53	Spontaneous chiral symmetry breaking in early molecular networks. <i>Biology Direct</i> , 2010, 5, 38.	4.6	19
54	GeneCards Version 3: the human gene integrator. <i>Database: the Journal of Biological Databases and Curation</i> , 2010, 2010, baq020-baq020.	3.0	1,257

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55	Human olfaction: from genomic variation to phenotypic diversity. <i>Trends in Genetics</i> , 2009, 25, 178-184.	6.7	156
56	Common peptides shed light on evolution of Olfactory Receptors. <i>BMC Evolutionary Biology</i> , 2009, 9, 91.	3.2	7
57	Mutations and Lethality in Simulated Prebiotic Networks. <i>Journal of Molecular Evolution</i> , 2009, 69, 568-578.	1.8	12
58	GeneDecks: Paralog Hunting and Gene-Set Distillation with GeneCards Annotation. <i>OMICS A Journal of Integrative Biology</i> , 2009, 13, 477-487.	2.0	74
59	Coevolution of compositional protocells and their environment. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007, 362, 1813-1819.	4.0	30
60	Genetic Elucidation of Human Hyperosmia to Isovaleric Acid. <i>PLoS Biology</i> , 2007, 5, e284.	5.6	196
61	Question 7: The First Units of Life Were Not Simple Cells. <i>Origins of Life and Evolution of Biospheres</i> , 2007, 37, 429-432.	1.9	20
62	Ancient genomic architecture for mammalian olfactory receptor clusters. <i>Genome Biology</i> , 2006, 7, R88.	9.6	47
63	A probabilistic classifier for olfactory receptor pseudogenes. <i>BMC Bioinformatics</i> , 2006, 7, 393.	2.6	44
64	Widespread ectopic expression of olfactory receptor genes. <i>BMC Genomics</i> , 2006, 7, 121.	2.8	216
65	Compositional complementarity and prebiotic ecology in the origin of life. <i>BioEssays</i> , 2006, 28, 399-412.	2.5	93
66	Genetic Basis of Olfactory Deficits. , 2006, , 101-113.		0
67	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.	1.9	26
68	Early Systems Biology and Prebiotic Networks. <i>Lecture Notes in Computer Science</i> , 2005, , 14-27.	1.3	11
69	Loss of Olfactory Receptor Genes Coincides with the Acquisition of Full Trichromatic Vision in Primates. <i>PLoS Biology</i> , 2004, 2, e5.	5.6	393
70	Prospects of a Computational Origin of Life Endeavor. <i>Origins of Life and Evolution of Biospheres</i> , 2004, 34, 181-194.	1.9	16
71	Probability rule for chiral recognition. <i>Chirality</i> , 2004, 16, 369-378.	2.6	33
72	Prediction of the odorant binding site of olfactory receptor proteins by human-mouse comparisons. <i>Protein Science</i> , 2004, 13, 240-254.	7.6	143

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73	The canine olfactory subgenome. <i>Genomics</i> , 2004, 83, 361-372.	2.9	114
74	From subgenome analysis to protein structure. <i>Current Opinion in Structural Biology</i> , 2003, 13, 353-358.	5.7	4
75	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.	14.5	199
76	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.	7.1	245
77	MESOBOTIC EMERGENCE: MOLECULAR AND ENSEMBLE COMPLEXITY IN EARLY EVOLUTION. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2003, 06, 15-35.	1.4	27
78	GeneLoc: exon-based integration of human genome maps. <i>Bioinformatics</i> , 2003, 19, i222-i224.	4.1	36
79	Human Olfactory Receptors. , 2003, , 145-147.		0
80	Population differences in haplotype structure within a human olfactory receptor gene cluster. <i>Human Molecular Genetics</i> , 2002, 11, 1381-1390.	2.9	35
81	GeneCards™ 2002: towards a complete, object-oriented, human gene compendium. <i>Bioinformatics</i> , 2002, 18, 1542-1543.	4.1	185
82	DEFOG: A Practical Scheme for Deciphering Families of Genes. <i>Genomics</i> , 2002, 80, 295-302.	2.9	20
83	Test of a Statistical Model for Molecular Recognition in Biological Repertoires. <i>Journal of Theoretical Biology</i> , 2002, 216, 327-336.	1.7	35
84	Mouseâ€™Human Orthology Relationships in an Olfactory Receptor Gene Cluster. <i>Genomics</i> , 2001, 71, 296-306.	2.9	33
85	The human olfactory subgenome: from sequence to structure and evolution. <i>Human Genetics</i> , 2001, 108, 1-13.	3.8	61
86	The Molecular Roots of Compositional Inheritance. <i>Journal of Theoretical Biology</i> , 2001, 213, 481-491.	1.7	60
87	Estimating the Size of the Olfactory Repertoire. <i>Bulletin of Mathematical Biology</i> , 2001, 63, 1063-1078.	1.9	6
88	Mucopolidosis 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.	2.5	74
89	The lipid world. <i>Origins of Life and Evolution of Biospheres</i> , 2001, 31, 119-145.	1.9	514
90	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.	21.4	476

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91	Initial sequencing and analysis of the human genome. <i>Nature</i> , 2001, 409, 860-921.	27.8	21,074
92	Identification of the gene causing mucopolidosis type IV. <i>Nature Genetics</i> , 2000, 26, 118-122.	21.4	354
93	Dichotomy of single-nucleotide polymorphism haplotypes in olfactory receptor genes and pseudogenes. <i>Nature Genetics</i> , 2000, 26, 221-224.	21.4	92
94	Composing life. <i>EMBO Reports</i> , 2000, 1, 217-222.	4.5	119
95	The olfactory receptor gene superfamily: data mining, classification, and nomenclature. <i>Mammalian Genome</i> , 2000, 11, 1016-1023.	2.2	196
96	Sequence, Structure, and Evolution of a Complete Human Olfactory Receptor Gene Cluster. <i>Genomics</i> , 2000, 63, 227-245.	2.9	94
97	Identification and characterization of coding single-nucleotide polymorphisms within a human olfactory receptor gene cluster. <i>Gene</i> , 2000, 260, 87-94.	2.2	30
98	Good reception in fruitfly antennae. <i>Nature</i> , 1999, 398, 285-287.	27.8	4
99	The variable and conserved interfaces of modeled olfactory receptor proteins. <i>Protein Science</i> , 1999, 8, 969-977.	7.6	147
100	Primate Evolution of an Olfactory Receptor Cluster: Diversification by Gene Conversion and Recent Emergence of Pseudogenes. <i>Genomics</i> , 1999, 61, 24-36.	2.9	119
101	Title is missing!. <i>Origins of Life and Evolution of Biospheres</i> , 1998, 28, 501-514.	1.9	90
102	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.	3.8	16
103	Organization and Evolution of Olfactory Receptor Genes on Human Chromosome 11. <i>Genomics</i> , 1998, 53, 56-68.	2.9	58
104	Molecular biology of olfactory receptors. <i>Essays in Biochemistry</i> , 1998, 33, 93-104.	4.7	15
105	Sequence Analysis in the Olfactory Receptor Gene Cluster on Human Chromosome 17: Recombinatorial Events Affecting Receptor Diversity. <i>Genomics</i> , 1996, 37, 147-160.	2.9	81
106	Overexpression, Solubilization and Purification of Rat and Human Olfactory Receptors. <i>FEBS Journal</i> , 1996, 238, 28-37.	0.2	37
107	Olfactory receptor gene cluster on human chromosome 17: possible duplication of an ancestral receptor repertoire. <i>Human Molecular Genetics</i> , 1994, 3, 229-235.	2.9	201
108	Exclusive receptors. <i>Nature</i> , 1994, 372, 321-322.	27.8	26

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109	Olfactory Receptor Proteins. Expression, Characterization and Partial Purification. FEBS Journal, 1994, 225, 1157-1168.	0.2	34
110	Emergence of order in small autocatalytic sets maintained far from equilibrium: Application of a probabilistic receptor affinity distribution (RAD) model. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1994, 98, 1166-1169.	0.9	20
111	Olfactory receptors. Current Biology, 1993, 3, 668-674.	3.9	159
112	Olfactory Receptors: Transduction, Diversity, Human Psychophysics and Genome Analysis. Novartis Foundation Symposium, 1993, 179, 131-149.	1.1	8
113	Evidence for genetic determination in human twins of olfactory thresholds for a standard odorant. Neuroscience Letters, 1992, 141, 115-118.	2.1	52
114	The strong scent of success. Nature, 1991, 351, 275-276.	27.8	26
115	Odorant-sensitive adenylate cyclase may mediate olfactory reception. Nature, 1985, 316, 255-258.	27.8	577
116	Hapten-induced allosteric transition in the light chain dimer of an immunoglobulin. Nature, 1977, 269, 827-829.	27.8	15