

Doron Lancet

List of Publications by Year in descending order

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116
papers

35,019
citations

41258

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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.	1.1	4
2	Dynamic lipid aptamers: non-polymeric chemical path to early life. <i>Chemical Society Reviews</i> , 2021, 50, 11741-11746.	18.7	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.	2.0	51
4	Self-reproducing catalytic micelles as nanoscopic protocell precursors. <i>Nature Reviews Chemistry</i> , 2021, 5, 870-878.	13.8	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.	2.9	24
7	Introducing PIONEER: a project to harness big data in prostate cancer research. <i>Nature Reviews Urology</i> , 2020, 17, 351-362.	1.9	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.	1.5	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.	1.5	26
15	Twenty Years of "Lipid World" A Fertile Partnership with David Deamer. <i>Life</i> , 2019, 9, 77.	1.1	15
16	Noncoding deletions reveal a gene that is critical for intestinal function. <i>Nature</i> , 2019, 571, 107-111.	13.7	24
17	Protobiotic Systems Chemistry Analyzed by Molecular Dynamics. <i>Life</i> , 2019, 9, 38.	1.1	17
18	Genome analysis and knowledge-driven variant interpretation with TGex. <i>BMC Medical Genomics</i> , 2019, 12, 200.	0.7	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.	1.5	8
20	Systems protobiology: origin of life in lipid catalytic networks. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180159.	1.5	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.	6.5	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, .	1.4	820
23	Next-generation sequencing of patients with congenital anosmia. <i>European Journal of Human Genetics</i> , 2017, 25, 1377-1387.	1.4	16
24	Rational confederation of genes and diseases: NGS interpretation via GeneCards, MalaCards and VarElect. <i>BioMedical Engineering OnLine</i> , 2017, 16, 72.	1.3	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.	1.4	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.	1.4	13
29	The human olfactory transcriptome. <i>BMC Genomics</i> , 2016, 17, 619.	1.2	87
30	VarElect: the phenotype-based variation prioritizer of the GeneCards Suite. <i>BMC Genomics</i> , 2016, 17, 444.	1.2	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.	1.0	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.	0.7	45
33	Identification of a Functional Risk Variant for Pemphigus Vulgaris in the ST18 Gene. <i>PLoS Genetics</i> , 2016, 12, e1006008.	1.5	53
34	PathCards: multi-source consolidation of human biological pathways. <i>Database: the Journal of Biological Databases and Curation</i> , 2015, 2015, .	1.4	216
35	Whole-exome sequencing in undiagnosed genetic diseases: interpreting 119 trios. <i>Genetics in Medicine</i> , 2015, 17, 774-781.	1.1	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.	0.8	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.	3.8	137
42	MalaCards: an integrated compendium for diseases and their annotation. <i>Database: the Journal of Biological Databases and Curation</i> , 2013, 2013, bat018.	1.4	196
43	Non-redundant compendium of human ncRNA genes in GeneCards. <i>Bioinformatics</i> , 2013, 29, 255-261.	1.8	41
44	An Overview of Synergistic Data Tools for Biological Scrutiny. <i>Israel Journal of Chemistry</i> , 2013, 53, 185-198.	1.0	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.	0.7	11
46	HORDE: Comprehensive Resource for Olfactory Receptor Genomics. <i>Methods in Molecular Biology</i> , 2013, 1003, 23-38.	0.4	49
47	Excess Mutual Catalysis Is Required for Effective Evolvability. <i>Artificial Life</i> , 2012, 18, 243-266.	1.0	53
48	Evolutionary Grass Roots for Odor Recognition. <i>Chemical Senses</i> , 2012, 37, 581-584.	1.1	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.	0.8	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.	2.6	147
51	In-silico human genomics with GeneCards. <i>Human Genomics</i> , 2011, 5, 709.	1.4	186
52	Replication of simulated prebiotic amphiphile vesicles controlled by experimental lipid physicochemical properties. <i>Physical Biology</i> , 2011, 8, 066001.	0.8	9
53	Spontaneous chiral symmetry breaking in early molecular networks. <i>Biology Direct</i> , 2010, 5, 38.	1.9	19
54	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

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55	Human olfaction: from genomic variation to phenotypic diversity. Trends in Genetics, 2009, 25, 178-184.	2.9	156
56	Common peptides shed light on evolution of Olfactory Receptors. BMC Evolutionary Biology, 2009, 9, 91.	3.2	7
57	Mutations and Lethality in Simulated Prebiotic Networks. Journal of Molecular Evolution, 2009, 69, 568-578.	0.8	12
58	GeneDecks: Paralog Hunting and Gene-Set Distillation with GeneCards Annotation. OMICS A Journal of Integrative Biology, 2009, 13, 477-487.	1.0	74
59	Coevolution of compositional protocells and their environment. Philosophical Transactions of the Royal Society B: Biological Sciences, 2007, 362, 1813-1819.	1.8	30
60	Genetic Elucidation of Human Hyperosmia to Isovaleric Acid. PLoS Biology, 2007, 5, e284.	2.6	196
61	Question 7: The First Units of Life Were Not Simple Cells. Origins of Life and Evolution of Biospheres, 2007, 37, 429-432.	0.8	20
62	Ancient genomic architecture for mammalian olfactory receptor clusters. Genome Biology, 2006, 7, R88.	13.9	47
63	A probabilistic classifier for olfactory receptor pseudogenes. BMC Bioinformatics, 2006, 7, 393.	1.2	44
64	Widespread ectopic expression of olfactory receptor genes. BMC Genomics, 2006, 7, 121.	1.2	216
65	Compositional complementarity and prebiotic ecology in the origin of life. BioEssays, 2006, 28, 399-412.	1.2	93
66	Genetic Basis of Olfactory Deficits. , 2006, , 101-113.		0
67	Polymer Gard: Computer Simulation of Covalent Bond Formation in Reproducing Molecular Assemblies. Origins of Life and Evolution of Biospheres, 2005, 35, 111-133.	0.8	26
68	Early Systems Biology and Prebiotic Networks. Lecture Notes in Computer Science, 2005, , 14-27.	1.0	11
69	Loss of Olfactory Receptor Genes Coincides with the Acquisition of Full Trichromatic Vision in Primates. PLoS Biology, 2004, 2, e5.	2.6	393
70	Prospects of a Computational Origin of Life Endeavor. Origins of Life and Evolution of Biospheres, 2004, 34, 181-194.	0.8	16
71	Probability rule for chiral recognition. Chirality, 2004, 16, 369-378.	1.3	33
72	Prediction of the odorant binding site of olfactory receptor proteins by human-mouse comparisons. Protein Science, 2004, 13, 240-254.	3.1	143

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73	The canine olfactory subgenome. <i>Genomics</i> , 2004, 83, 361-372.	1.3	114
74	From subgenome analysis to protein structure. <i>Current Opinion in Structural Biology</i> , 2003, 13, 353-358.	2.6	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.	6.5	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.	3.3	245
77	MESOBIOTIC 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
78	GeneLoc: exon-based integration of human genome maps. <i>Bioinformatics</i> , 2003, 19, i222-i224.	1.8	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.	1.4	35
81	GeneCards™ 2002: towards a complete, object-oriented, human gene compendium. <i>Bioinformatics</i> , 2002, 18, 1542-1543.	1.8	185
82	DEFOG: A Practical Scheme for Deciphering Families of Genes. <i>Genomics</i> , 2002, 80, 295-302.	1.3	20
83	Test of a Statistical Model for Molecular Recognition in Biological Repertoires. <i>Journal of Theoretical Biology</i> , 2002, 216, 327-336.	0.8	35
84	Mouseâ€™Human Orthology Relationships in an Olfactory Receptor Gene Cluster. <i>Genomics</i> , 2001, 71, 296-306.	1.3	33
85	The human olfactory subgenome: from sequence to structure and evolution. <i>Human Genetics</i> , 2001, 108, 1-13.	1.8	61
86	The Molecular Roots of Compositional Inheritance. <i>Journal of Theoretical Biology</i> , 2001, 213, 481-491.	0.8	60
87	Estimating the Size of the Olfactory Repertoire. <i>Bulletin of Mathematical Biology</i> , 2001, 63, 1063-1078.	0.9	6
88	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
89	The lipid world. <i>Origins of Life and Evolution of Biospheres</i> , 2001, 31, 119-145.	0.8	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.	9.4	476

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91	Initial sequencing and analysis of the human genome. <i>Nature</i> , 2001, 409, 860-921.	13.7	21,074
92	Identification of the gene causing mucopolidosis type IV. <i>Nature Genetics</i> , 2000, 26, 118-122.	9.4	354
93	Dichotomy of single-nucleotide polymorphism haplotypes in olfactory receptor genes and pseudogenes. <i>Nature Genetics</i> , 2000, 26, 221-224.	9.4	92
94	Composing life. <i>EMBO Reports</i> , 2000, 1, 217-222.	2.0	119
95	The olfactory receptor gene superfamily: data mining, classification, and nomenclature. <i>Mammalian Genome</i> , 2000, 11, 1016-1023.	1.0	196
96	Sequence, Structure, and Evolution of a Complete Human Olfactory Receptor Gene Cluster. <i>Genomics</i> , 2000, 63, 227-245.	1.3	94
97	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
98	Good reception in fruitfly antennae. <i>Nature</i> , 1999, 398, 285-287.	13.7	4
99	The variable and conserved interfaces of modeled olfactory receptor proteins. <i>Protein Science</i> , 1999, 8, 969-977.	3.1	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.	1.3	119
101	Title is missing!. <i>Origins of Life and Evolution of Biospheres</i> , 1998, 28, 501-514.	0.8	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.	1.8	16
103	Organization and Evolution of Olfactory Receptor Genes on Human Chromosome 11. <i>Genomics</i> , 1998, 53, 56-68.	1.3	58
104	Molecular biology of olfactory receptors. <i>Essays in Biochemistry</i> , 1998, 33, 93-104.	2.1	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.	1.3	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.	1.4	201
108	Exclusive receptors. <i>Nature</i> , 1994, 372, 321-322.	13.7	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.	1.8	159
112	Olfactory Receptors: Transduction, Diversity, Human Psychophysics and Genome Analysis. Novartis Foundation Symposium, 1993, 179, 131-149.	1.2	8
113	Evidence for genetic determination in human twins of olfactory thresholds for a standard odorant. Neuroscience Letters, 1992, 141, 115-118.	1.0	52
114	The strong scent of success. Nature, 1991, 351, 275-276.	13.7	26
115	Odorant-sensitive adenylate cyclase may mediate olfactory reception. Nature, 1985, 316, 255-258.	13.7	577
116	Hapten-induced allosteric transition in the light chain dimer of an immunoglobulin. Nature, 1977, 269, 827-829.	13.7	15