Wen-Hsiung Li

List of Publications by Citations

353 papers	28,786 citations	82 h-index	159 g-index
364 ext. papers	32,379 ext. citations	8.9 avg, IF	7.13 L-index

#	Paper	IF	Citations
353	The codon Adaptation Index--a measure of directional synonymous codon usage bias, and its potential applications. *Nucleic Acids Research*, **1987**, 15, 1281-95	20.1	2654
352	Unbiased estimation of the rates of synonymous and nonsynonymous substitution. *Journal of Molecular Evolution*, **1993**, 36, 96-9	3.1	933
351	Comparative analysis of the receptor-like kinase family in Arabidopsis and rice. *Plant Cell*, **2004**, 16, 1220-34	11.6	772
350	Role of duplicate genes in genetic robustness against null mutations. *Nature*, **2003**, 421, 63-6	50.4	670
349	An evolutionary perspective on synonymous codon usage in unicellular organisms. *Journal of Molecular Evolution*, **1986**, 24, 28-38	3.1	601
348	Genomic divergences between humans and other hominoids and the effective population size of the common ancestor of humans and chimpanzees. *American Journal of Human Genetics*, **2001**, 68, 444-56	11	570
347	Human polymorphism at microRNAs and microRNA target sites. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 3300-5	11.5	562
346	Mutation rates differ among regions of the mammalian genome. *Nature*, **1989**, 337, 283-5	50.4	523
345	Uncovering small RNA-mediated responses to phosphate deficiency in Arabidopsis by deep sequencing. *Plant Physiology*, **2009**, 151, 2120-32	6.6	520
344	Codon usage in regulatory genes in Escherichia coli does not reflect selection for rare codons. *Nucleic Acids Research*, **1986**, 14, 7737-49	20.1	445
343	Sequence, structure, receptor-binding domains and internal repeats of human apolipoprotein B-100. *Nature*, **1986**, 323, 738-42	50.4	413
342	Pseudogenes as a paradigm of neutral evolution. *Nature*, **1981**, 292, 237-9	50.4	411
341	An evaluation of the molecular clock hypothesis using mammalian DNA sequences. *Journal of Molecular Evolution*, **1987**, 25, 330-42	3.1	373
340	Transposable elements are found in a large number of human protein-coding genes. *Trends in Genetics*, **2001**, 17, 619-21	8.5	350
339	Patterns of nucleotide substitution in pseudogenes and functional genes. *Journal of Molecular Evolution*, **1982**, 18, 360-9	3.1	335
338	Evolutionary analyses of the human genome. *Nature*, **2001**, 409, 847-9	50.4	331
337	Extent of gene duplication in the genomes of Drosophila, nematode, and yeast. *Molecular Biology and Evolution*, **2002**, 19, 256-62	8.3	331

336	The molecular clock runs more slowly in man than in apes and monkeys. *Nature*, **1987**, 326, 93-6	50.4	329
335	Dating the monocot-dicot divergence and the origin of core eudicots using whole chloroplast genomes. *Journal of Molecular Evolution*, **2004**, 58, 424-41	3.1	327
334	Nonrandomness of point mutation as reflected in nucleotide substitutions in pseudogenes and its evolutionary implications. *Journal of Molecular Evolution*, **1984**, 21, 58-71	3.1	303
333	Rates of nucleotide substitution in angiosperm mitochondrial DNA sequences and dates of divergence between Brassica and other angiosperm lineages. *Journal of Molecular Evolution*, **1999**, 48, 597-604	3.1	295
332	Is the guinea-pig a rodent?. *Nature*, **1991**, 351, 649-52	50.4	286
331	Mammalian housekeeping genes evolve more slowly than tissue-specific genes. *Molecular Biology and Evolution*, **2004**, 21, 236-9	8.3	274
330	Expression divergence between duplicate genes. *Trends in Genetics*, **2005**, 21, 602-7	8.5	274
329	Rates of nucleotide substitution in primates and rodents and the generation-time effect hypothesis. *Molecular Phylogenetics and Evolution*, **1996**, 5, 182-7	4.1	268
328	Rapid divergence in expression between duplicate genes inferred from microarray data. *Trends in Genetics*, **2002**, 18, 609-13	8.5	254
327	On the rate of DNA sequence evolution in Drosophila. *Journal of Molecular Evolution*, **1989**, 28, 398-402	3.1	253
326	Extremely high genetic diversity in a single tumor points to prevalence of non-Darwinian cell evolution. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E6496-505	11.5	236
325	High polymorphism at the human melanocortin 1 receptor locus. *Genetics*, **1999**, 151, 1547-57	4	213
324	Linkage disequilibrium in subdivided populations. *Genetics*, **1973**, 75, 213-9	4	213
323	Strong male-driven evolution of DNA sequences in humans and apes. *Nature*, **2002**, 416, 624-6	50.4	194
322	Male-driven evolution of DNA sequences. *Nature*, **1993**, 362, 745-7	50.4	193
321	Models of nearly neutral mutations with particular implications for nonrandom usage of synonymous codons. *Journal of Molecular Evolution*, **1987**, 24, 337-45	3.1	193
320	Structure and evolution of the apolipoprotein multigene family. *Journal of Molecular Biology*, **1986**, 187, 325-40	6.5	193
319	Male-driven evolution. *Current Opinion in Genetics and Development*, **2002**, 12, 650-6	4.9	180

318	The K(A)/K(S) ratio test for assessing the protein-coding potential of genomic regions: an empirical and simulation study. *Genome Research*, **2002**, 12, 198-202	9.7	175
317	Simultaneous amino acid substitutions at antigenic sites drive influenza A hemagglutinin evolution. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 6283-8	11.5	170
316	Transcription factor families have much higher expansion rates in plants than in animals. *Plant Physiology*, **2005**, 139, 18-26	6.6	169
315	Divergence in the spatial pattern of gene expression between human duplicate genes. *Genome Research*, **2003**, 13, 1638-45	9.7	169
314	Rates of synonymous substitution in plant nuclear genes. *Journal of Molecular Evolution*, **1989**, 29, 208-211	3.1	160
313	Duplicate genes increase gene expression diversity within and between species. *Nature Genetics*, **2004**, 36, 577-9	36.3	150
312	Trichromatic vision in prosimians. *Nature*, **1999**, 402, 36	50.4	146
311	Signalling pathway for RKIP and Let-7 regulates and predicts metastatic breast cancer. *EMBO Journal*, **2011**, 30, 4500-14	13	143
310	MicroRNA regulation of human protein protein interaction network. *Rna*, **2007**, 13, 1402-8	5.8	134
309	Accumulation of mutations in sexual and asexual populations. *Genetical Research*, **1987**, 49, 135-46	1.1	133
308	Rate of gene silencing at duplicate loci: a theoretical study and interpretation of data from tetraploid fishes. *Genetics*, **1980**, 95, 237-58	4	132
307	Selective constraints, amino acid composition, and the rate of protein evolution. *Molecular Biology and Evolution*, **2000**, 17, 656-64	8.3	130
306	Larger genetic differences within africans than between Africans and Eurasians. *Genetics*, **2002**, 161, 269-74	4	128
305	Coordinated histone modifications are associated with gene expression variation within and between species. *Genome Research*, **2011**, 21, 590-8	9.7	126
304	Molecular evolution of trichromacy in primates. *Vision Research*, **1998**, 38, 3299-306	2.1	125
303	Chromosome-wide SNPs reveal an ancient origin for Plasmodium falciparum. *Nature*, **2002**, 418, 323-6	50.4	123
302	The size distribution of insertions and deletions in human and rodent pseudogenes suggests the logarithmic gap penalty for sequence alignment. *Journal of Molecular Evolution*, **1995**, 40, 464-73	3.1	123
301	Deletions in processed pseudogenes accumulate faster in rodents than in humans. *Journal of Molecular Evolution*, **1989**, 28, 279-85	3.1	123

300	Evidence from opsin genes rejects nocturnality in ancestral primates. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 14712-6	11.5	122
299	A large number of novel coding small open reading frames in the intergenic regions of the Arabidopsis thaliana genome are transcribed and/or under purifying selection. *Genome Research*, **2007**, 17, 632-40	9.7	120
298	Estimation of confidence in phylogeny: the complete-and-partial bootstrap technique. *Molecular Phylogenetics and Evolution*, **1995**, 4, 44-63	4.1	120
297	Low nucleotide diversity in chimpanzees and bonobos. *Genetics*, **2003**, 164, 1511-8	4	118
296	Slow molecular clocks in Old World monkeys, apes, and humans. *Molecular Biology and Evolution*, **2002**, 19, 2191-8	8.3	115
295	Natural selection on cis and trans regulation in yeasts. *Genome Research*, **2010**, 20, 826-36	9.7	114
294	Distribution of nucleotide differences between two randomly chosen cistrons in a finite population. *Genetics*, **1977**, 85, 331-7	4	113
293	Characterizing regulatory and functional differentiation between maize mesophyll and bundle sheath cells by transcriptomic analysis. *Plant Physiology*, **2012**, 160, 165-77	6.6	111
292	Different evolutionary patterns between young duplicate genes in the human genome. *Genome Biology*, **2003**, 4, R56	18.3	108
291	Coalescing into the 21st century: An overview and prospects of coalescent theory. *Theoretical Population Biology*, **1999**, 56, 1-10	1.2	107
290	Opsin gene and photopigment polymorphism in a prosimian primate. *Vision Research*, **2002**, 42, 11-8	2.1	106
289	Evolutionary diversification of DNA methyltransferases in eukaryotic genomes. *Molecular Biology and Evolution*, **2005**, 22, 1119-28	8.3	104
288	Molecular evolution meets the genomics revolution. *Nature Genetics*, **2003**, 33 Suppl, 255-65	36.3	103
287	Patterns of expansion and expression divergence in the plant polygalacturonase gene family. *Genome Biology*, **2006**, 7, R87	18.3	102
286	Gene essentiality, gene duplicability and protein connectivity in human and mouse. *Trends in Genetics*, **2007**, 23, 375-8	8.5	95
285	Patterns of segmental duplication in the human genome. *Molecular Biology and Evolution*, **2005**, 22, 135-41	8.3	94
284	Stable linkage disequilibrium without epistasis in subdivided populations. *Theoretical Population Biology*, **1974**, 6, 173-83	1.2	92
283	DNA replication timing and selection shape the landscape of nucleotide variation in cancer genomes. *Nature Communications*, **2012**, 3, 1004	17.4	91

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281	Origins and antiquity of X-linked triallelic color vision systems in New World monkeys. *Proceedings of the National Academy of Sciences of the United States of America*, **1998**, 95, 13749-54	11.5	90
280	Molecular systematics of pikas (genus Ochotona) inferred from mitochondrial DNA sequences. *Molecular Phylogenetics and Evolution*, **2000**, 16, 85-95	4.1	87
279	Mouse very-low-density-lipoprotein receptor (VLDLR) cDNA cloning, tissue-specific expression and evolutionary relationship with the low-density-lipoprotein receptor. *FEBS Journal*, **1994**, 224, 975-82		87
278	RNA landscape of evolution for optimal exon and intron discrimination. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 5797-802	11.5	86
277	Organismal complexity, protein complexity, and gene duplicability. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 15661-5	11.5	86
276	Phylogenetic analysis based on rRNA sequences supports the archaebacterial rather than the eocyte tree. *Nature*, **1989**, 339, 145-7	50.4	85
275	Ubiquitin genes as a paradigm of concerted evolution of tandem repeats. *Journal of Molecular Evolution*, **1987**, 25, 58-64	3.1	85
274	Historical contingency in the evolution of primate color vision. *Journal of Human Evolution*, **2003**, 44, 25-45	3.1	83
273	Inconsistency of the Maximum-parsimony Method: the Case of Five Taxa With a Molecular Clock. *Systematic Biology*, **1993**, 42, 113-125	8.4	83
272	Quantitative characterization of the transcriptional regulatory network in the yeast cell cycle. *Bioinformatics*, **2004**, 20, 1914-27	7.2	82
271	Molecular phylogenetic studies of Brassica, rorippa, arabidopsis and allied genera based on the internal transcribed spacer region of 18S-25S rDNA. *Molecular Phylogenetics and Evolution*, **1999**, 13, 455-62	4.1	82
270	Alternative mRNA splicing and differential promoter utilization determine tissue-specific expression of the apolipoprotein B mRNA-editing protein (Apobec1) gene in mice. Structure and evolution of Apobec1 and related nucleoside/nucleotide deaminases. *Journal of Biological Chemistry*, **1995**, 270, 13042-56	5.4	82
269	Evolution of DNA Sequences **1985**, 1-94		82
268	Lowly expressed human microRNA genes evolve rapidly. *Molecular Biology and Evolution*, **2009**, 26, 1195-8	8.3	79
267	What amino acid properties affect protein evolution?. *Journal of Molecular Evolution*, **1998**, 47, 557-64	3.1	79
266	Parallel Evolution between Aromatase and Androgen Receptor in the Animal Kingdom. *Molecular Biology and Evolution*, **2009**, 26, 1191-1191	8.3	78
265	Rate of protein evolution versus fitness effect of gene deletion. *Molecular Biology and Evolution*, **2003**, 20, 772-4	8.3	78

264	Statistical methods for identifying yeast cell cycle transcription factors. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 13532-7	11.5	78
263	Down-Regulation of Cytokinin Oxidase 2 Expression Increases Tiller Number and Improves Rice Yield. *Rice*, **2015**, 8, 36	5.8	77
262	Antroquinonol from ethanolic extract of mycelium of Antrodia cinnamomea protects hepatic cells from ethanol-induced oxidative stress through Nrf-2 activation. *Journal of Ethnopharmacology*, **2011**, 136, 168-77	5	77
261	Drift variances of heterozygosity and genetic distance in transient states. *Genetical Research*, **1975**, 25, 229-48	1.1	76
260	Maintenance of Genetic Variability under the Joint Effect of Mutation, Selection and Random Drift. *Genetics*, **1978**, 90, 349-82	4	76
259	Proportion of solvent-exposed amino acids in a protein and rate of protein evolution. *Molecular Biology and Evolution*, **2007**, 24, 1005-11	8.3	73
258	Molecular evolution of bat color vision genes. *Molecular Biology and Evolution*, **2004**, 21, 295-302	8.3	73
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255	Signatures of domain shuffling in the human genome. *Genome Research*, **2002**, 12, 1642-50	9.7	71
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253	Gene admixture in the silk road region of China: evidence from mtDNA and melanocortin 1 receptor polymorphism. *Genes and Genetic Systems*, **2000**, 75, 173-8	1.4	71
252	The chicken frizzle feather is due to an Ekeratin (KRT75) mutation that causes a defective rachis. *PLoS Genetics*, **2012**, 8, e1002748	6	70
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250	Multidimensional scaling for large genomic data sets. *BMC Bioinformatics*, **2008**, 9, 179	3.6	69
249	Protein function, connectivity, and duplicability in yeast. *Molecular Biology and Evolution*, **2006**, 23, 30-9	8.3	69
248	Evolution of the hominoid semenogelin genes, the major proteins of ejaculated semen. *Journal of Molecular Evolution*, **2003**, 57, 261-70	3.1	69
247	Studying tumorigenesis through network evolution and somatic mutational perturbations in the cancer interactome. *Molecular Biology and Evolution*, **2014**, 31, 2156-69	8.3	68

246	Evolution of paired domains: isolation and sequencing of jellyfish and hydra Pax genes related to Pax-5 and Pax-6. *Proceedings of the National Academy of Sciences of the United States of America*, **1997**, 94, 5156-61	11.5	67
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243	Evolution of the yeast protein interaction network. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 12820-4	11.5	66
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241	Human SNPs reveal no evidence of frequent positive selection. *Molecular Biology and Evolution*, **2005**, 22, 2504-7	8.3	65
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239	Assembling a cellulase cocktail and a cellodextrin transporter into a yeast host for CBP ethanol production. *Biotechnology for Biofuels*, **2013**, 6, 19	7.8	62
238	Origins, lineage-specific expansions, and multiple losses of tyrosine kinases in eukaryotes. *Molecular Biology and Evolution*, **2004**, 21, 828-40	8.3	62
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235	Expansion of hexose transporter genes was associated with the evolution of aerobic fermentation in yeasts. *Molecular Biology and Evolution*, **2011**, 28, 131-42	8.3	60
234	Directional mutational pressure affects the amino acid composition and hydrophobicity of proteins in bacteria. *Genetica*, **1998**, 102/103, 383-391	1.5	60
233	Comparative methods for the analysis of gene-expression evolution: an example using yeast functional genomic data. *Molecular Biology and Evolution*, **2005**, 22, 40-50	8.3	60
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229	Intragenic spatial patterns of codon usage bias in prokaryotic and eukaryotic genomes. *Genetics*, **2004**, 168, 2245-60	4	59

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222	Transcriptome dynamics of developing maize leaves and genomewide prediction of cis elements and their cognate transcription factors. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E2477-86	11.5	53
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215	Inheritance of gene expression level and selective constraints on trans- and cis-regulatory changes in yeast. *Molecular Biology and Evolution*, **2013**, 30, 2121-33	8.3	51
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204	The genetic basis of evolutionary change in gene expression levels. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2010**, 365, 2581-90	5.8	47
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180	Metabolic engineering a yeast to produce astaxanthin. *Bioresource Technology*, **2017**, 245, 899-905	11	36
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177	Distribution of nucleotide differences between two randomly chosen cistrons in a subdivided population: the finite island model. *Theoretical Population Biology*, **1976**, 10, 303-8	1.2	36
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2	Behavioral and brain- transcriptomic synchronization between the two opponents of a fighting pair of the fish Betta splendens **2020**, 16, e1008831	
1	Behavioral and brain- transcriptomic synchronization between the two opponents of a fighting pair of the fish Betta splendens **2020**, 16, e1008831	