

Volker Knoop

List of Publications by Year in descending order

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88
papers

5,663
citations

61945

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82499

72
g-index

89
all docs

89
docs citations

89
times ranked

3717
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards a plant model for enigmatic U α -C RNA editing: the organelle genomes, transcriptomes, editomes and candidate RNA editing factors in the hornwort <i>Anthoceros agrestis</i> . <i>New Phytologist</i> , 2020, 225, 1974-1992.	3.5	57
2	The dual-targeted RNA editing factor AEF1 is universally conserved among angiosperms and reveals only minor adaptations upon loss of its chloroplast or its mitochondrial target. <i>Plant Molecular Biology</i> , 2020, 102, 185-198.	2.0	6
3	The Expansion and Diversification of Pentatricopeptide Repeat RNA-Editing Factors in Plants. <i>Molecular Plant</i> , 2020, 13, 215-230.	3.9	71
4	Plant PPRs Come in Multiple Flavorsâ€”But Why?. <i>Plant and Cell Physiology</i> , 2020, 61, 1685-1686.	1.5	1
5	One C-to-U RNA Editing Site and Two Independently Evolved Editing Factors: Testing Reciprocal Complementation with DYW-Type PPR Proteins from the Moss <i>Physcomitrium</i> (<i>Physcomitrella</i>) <i>patens</i> and the Flowering Plants <i>Macadamia integrifolia</i> and <i>Arabidopsis</i> . <i>Plant Cell</i> , 2020, 32, 2997-3018.	3.1	18
6	A functional twintron, a "zombie" twintrons and a hypermobile group II intron invading itself in plant mitochondria. <i>Nucleic Acids Research</i> , 2020, 48, 2661-2675.	6.5	10
7	Plant-type pentatricopeptide repeat proteins with a DYW domain drive C-to-U RNA editing in <i>Escherichia coli</i> . <i>Communications Biology</i> , 2019, 2, 85.	2.0	88
8	Multifarious Evolutionary Pathways of a Nuclear RNA Editing Factor: Disjunctions in Coevolution of DOT4 and Its Chloroplast Target rpoC1eU488SL. <i>Genome Biology and Evolution</i> , 2019, 11, 798-813.	1.1	11
9	Plant organelle RNA editing and its specificity factors: enhancements of analyses and new database features in PREPACT 3.0. <i>BMC Bioinformatics</i> , 2018, 19, 255.	1.2	77
10	Expected and unexpected evolution of plant RNA editing factors CLB19, CRR28 and RARE1: retention of CLB19 despite a phylogenetically deep loss of its two known editing targets in Poaceae. <i>BMC Evolutionary Biology</i> , 2018, 18, 85.	3.2	20
11	A Single-Target Mitochondrial RNA Editing Factor of <i>Funaria hygrometrica</i> Can Fully Reconstitute RNA Editing at Two Sites in <i>Physcomitrella patens</i> . <i>Plant and Cell Physiology</i> , 2017, 58, 496-507.	1.5	13
12	Convergent Evolution of Fern-Specific Mitochondrial Group II Intron atp1i361g2 and Its Ancient Source Parologue rps3i249g2 and Independent Losses of Intron and RNA Editing among Pteridaceae. <i>Genome Biology and Evolution</i> , 2016, 8, 2505-2519.	1.1	13
13	Reverse U-to-C editing exceeds C-to-U RNA editing in some ferns â€” a monilophyte-wide comparison of chloroplast and mitochondrial RNA editing suggests independent evolution of the two processes in both organelles. <i>BMC Evolutionary Biology</i> , 2016, 16, 134.	3.2	64
14	Frequent chloroplast RNA editing in early-branching flowering plants: pilot studies on angiosperm-wide coexistence of editing sites and their nuclear specificity factors. <i>BMC Evolutionary Biology</i> , 2016, 16, 23.	3.2	50
15	<i>Ginkgo</i> and <i>Welwitschia</i> Mitogenomes Reveal Extreme Contrasts in Gymnosperm Mitochondrial Evolution. <i>Molecular Biology and Evolution</i> , 2016, 33, 1448-1460.	3.5	151
16	The <i>Physarum polycephalum</i> Genome Reveals Extensive Use of Prokaryotic Two-Component and Metazoan-Type Tyrosine Kinase Signaling. <i>Genome Biology and Evolution</i> , 2016, 8, 109-125.	1.1	87
17	Monilophyte mitochondrial rps1 genes carry a unique group II intron that likely originated from an ancient paralog in rpl2. <i>Rna</i> , 2016, 22, 1338-1348.	1.6	11
18	Horsetails are the sister group to all other monilophytes and Marattiales are sister to leptosporangiate ferns. <i>Molecular Phylogenetics and Evolution</i> , 2015, 90, 140-149.	1.2	56

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19	Horizontal Gene Transfer of Chlamydial-Like tRNA Genes into Early Vascular Plant Mitochondria. <i>Molecular Biology and Evolution</i> , 2015, 32, 629-634.	3.5	32
20	Looking for sense in the nonsense: A short review of non-coding organellar DNA elucidating the phylogeny of bryophytes. <i>Bryophyte Diversity and Evolution</i> , 2015, 31, 51.	1.0	5
21	Chloroplast RNA editing going extreme: more than 3400 events of C-to-U editing in the chloroplast transcriptome of the lycophyte <i>Selaginella uncinata</i> . <i>Rna</i> , 2014, 20, 1499-1506.	1.6	98
22	Membrane protein interactions between different <i>Arabidopsis thaliana</i> MRS2-type magnesium transporters are highly permissive. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 2032-2040.	1.4	9
23	Plant mitochondrial genome peculiarities evolving in the earliest vascular plant lineages. <i>Journal of Systematics and Evolution</i> , 2013, 51, 1-12.	1.6	26
24	Magnesium Deficiency Phenotypes Upon Multiple Knockout of <i>Arabidopsis thaliana</i> MRS2 Clade B Genes Can be Ameliorated by Concomitantly Reduced Calcium Supply. <i>Plant and Cell Physiology</i> , 2013, 54, 1118-1131.	1.5	49
25	PREPACT 2.0: Predicting C-to-U and U-to-C RNA Editing in Organelle Genome Sequences with Multiple References and Curated RNA Editing Annotation. <i>Bioinformatics and Biology Insights</i> , 2013, 7, BBI.S11059.	1.0	49
26	A <i>DYW</i> protein knockout in <i>Physcomitrella</i> affects two closely spaced mitochondrial editing sites and causes a severe developmental phenotype. <i>Plant Journal</i> , 2013, 76, 420-432.	2.8	45
27	A survey of PPR proteins identifies <i>DYW</i> domains like those of land plant RNA editing factors in diverse eukaryotes. <i>RNA Biology</i> , 2013, 10, 1549-1556.	1.5	40
28	Seed Plant Mitochondrial Genomes: Complexity Evolving. <i>Advances in Photosynthesis and Respiration</i> , 2012, , 175-200.	1.0	25
29	Nuclear <i>DYW</i> -Type PPR Gene Families Diversify with Increasing RNA Editing Frequencies in Liverwort and Moss Mitochondria. <i>Journal of Molecular Evolution</i> , 2012, 74, 37-51.	0.8	64
30	Exclusive conservation of mitochondrial group II intron nad4i548 among liverworts and its use for phylogenetic studies in this ancient plant clade. <i>Plant Biology</i> , 2012, 14, 382-391.	1.8	7
31	Mitochondrial Genome Evolution in the Plant Lineage. , 2011, , 3-29.		35
32	Extreme RNA Editing in Coding Islands and Abundant Microsatellites in Repeat Sequences of <i>Selaginella moellendorffii</i> Mitochondria: The Root of Frequent Plant mtDNA Recombination in Early Tracheophytes. <i>Genome Biology and Evolution</i> , 2011, 3, 344-358.	1.1	164
33	Assigning <i>DYW</i> -type PPR proteins to RNA editing sites in the funariid mosses <i>Physcomitrella patens</i> and <i>Funaria hygrometrica</i> . <i>Plant Journal</i> , 2011, 67, 370-380.	2.8	46
34	Plant-type mitochondrial RNA editing in the protist <i>Naegleria gruberi</i> : FIGURE 1.. <i>Rna</i> , 2011, 17, 2058-2062.	1.6	36
35	When you can't trust the DNA: RNA editing changes transcript sequences. <i>Cellular and Molecular Life Sciences</i> , 2011, 68, 567-586.	2.4	176
36	RNA-Editing in Pflanzen: dem Editor auf der Spur. <i>Biologie in Unserer Zeit</i> , 2011, 41, 228-229.	0.3	0

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37	A unique transcriptome: 1782 positions of RNA editing alter 1406 codon identities in mitochondrial mRNAs of the lycophyte <i>Isoetes engelmannii</i> . <i>Nucleic Acids Research</i> , 2011, 39, 2890-2902.	6.5	102
38	Introducing the plant RNA editing prediction and analysis computer tool PREPACT and an update on RNA editing site nomenclature. <i>Current Genetics</i> , 2010, 56, 189-201.	0.8	50
39	Introducing Intron Locus <i>cox1i624</i> for Phylogenetic Analyses in Bryophytes: On the Issue of <i>Takakia</i> as Sister Genus to All Other Extant Mosses. <i>Journal of Molecular Evolution</i> , 2010, 70, 506-518.	0.8	31
40	DYW-type PPR proteins in a heterolobosean protist: Plant RNA editing factors involved in an ancient horizontal gene transfer?. <i>FEBS Letters</i> , 2010, 584, 4287-4291.	1.3	45
41	The phylogeny of mosses – Addressing open issues with a new mitochondrial locus: Group I intron <i>cob1420</i> . <i>Molecular Phylogenetics and Evolution</i> , 2010, 54, 417-426.	1.2	29
42	A Root-Expressed Magnesium Transporter of the <i>MRS2/MGT</i> Gene Family in <i>Arabidopsis thaliana</i> Allows for Growth in Low-Mg ²⁺ Environments. <i>Plant Cell</i> , 2010, 21, 4018-4030.	3.1	154
43	Slugs™ last meals: molecular identification of sequestered chloroplasts from different algal origins in <i>Sacoglossa</i> (Opisthobranchia, Gastropoda). <i>Molecular Ecology Resources</i> , 2010, 10, 968-978.	2.2	50
44	A trans-splicing group I intron and tRNA-hyperediting in the mitochondrial genome of the lycophyte <i>Isoetes engelmannii</i> . <i>Nucleic Acids Research</i> , 2009, 37, 5093-5104.	6.5	139
45	RNA editing: only eleven sites are present in the <i>Physcomitrella patens</i> mitochondrial transcriptome and a universal nomenclature proposal. <i>Molecular Genetics and Genomics</i> , 2009, 281, 473-481.	1.0	103
46	Fifty mosses on five trees: comparing phylogenetic information in three types of non-coding mitochondrial DNA and two chloroplast loci. <i>Plant Systematics and Evolution</i> , 2009, 282, 241-255.	0.3	18
47	Tracing Plant Mitochondrial DNA Evolution: Rearrangements of the Ancient Mitochondrial Gene Cluster <i>trnA-trnT-nad7</i> in Liverwort Phylogeny. <i>Journal of Molecular Evolution</i> , 2008, 66, 621-629.	0.8	19
48	Organellar RNA Editing and Plant-Specific Extensions of Pentatricopeptide Repeat Proteins in <i>Jungmannioid</i> but not in <i>Marchantioid</i> Liverworts. <i>Molecular Biology and Evolution</i> , 2008, 25, 1405-1414.	3.5	90
49	Different Fates of Two Mitochondrial Gene Spacers in Early Land Plant Evolution. <i>International Journal of Plant Sciences</i> , 2007, 168, 709-717.	0.6	20
50	A hypothesis on the identification of the editing enzyme in plant organelles. <i>FEBS Letters</i> , 2007, 581, 4132-4138.	1.3	211
51	Clavicipitaceous Fungi Associated with Ergoline Alkaloid-Containing Convolvulaceae. <i>Journal of Natural Products</i> , 2007, 70, 1955-1960.	1.5	48
52	Evolution of a Pseudogene: Exclusive Survival of a Functional Mitochondrial <i>nad7</i> Gene Supports <i>Haplomitrium</i> as the Earliest Liverwort Lineage and Proposes a Secondary Loss of RNA Editing in <i>Marchantiidae</i> . <i>Molecular Biology and Evolution</i> , 2007, 24, 1068-1074.	3.5	76
53	The deepest divergences in land plants inferred from phylogenomic evidence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 15511-15516.	3.3	579
54	Molecular characterization of a seed transmitted clavicipitaceous fungus occurring on dicotyledoneous plants (Convolvulaceae). <i>Planta</i> , 2006, 224, 533-544.	1.6	73

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55	Transport of magnesium and other divalent cations: evolution of the 2-TM-GxN proteins in the MIT superfamily. <i>Molecular Genetics and Genomics</i> , 2005, 274, 205-216.	1.0	128
56	Primary Sooty Mangabey Simian Immunodeficiency Virus and Human Immunodeficiency Virus Type 2 nef Alleles Modulate Cell Surface Expression of Various Human Receptors and Enhance Viral Infectivity and Replication. <i>Journal of Virology</i> , 2005, 79, 10547-10560.	1.5	47
57	Bryophytes and other basal land plants: the mitochondrial perspective. <i>Taxon</i> , 2005, 54, 293-297.	0.4	18
58	Bryophytes and Other Basal Land Plants: The Mitochondrial Perspective. <i>Taxon</i> , 2005, 54, 293.	0.4	15
59	Nef Proteins from Simian Immunodeficiency Virus-Infected Chimpanzees Interact with p21-Activated Kinase 2 and Modulate Cell Surface Expression of Various Human Receptors. <i>Journal of Virology</i> , 2004, 78, 6864-6874.	1.5	46
60	Ancestors of Trans-Splicing Mitochondrial Introns Support Serial Sister Group Relationships of Hornworts and Mosses with Vascular Plants. <i>Molecular Biology and Evolution</i> , 2004, 22, 117-125.	3.5	104
61	The mitochondrial DNA of land plants: peculiarities in phylogenetic perspective. <i>Current Genetics</i> , 2004, 46, 123-39.	0.8	262
62	Divergent Intron Conservation in the Mitochondrial nad2 Gene: Signatures for the Three Bryophyte Classes (Mosses, Liverworts, and Hornworts) and the Lycophytes. <i>Journal of Molecular Evolution</i> , 2002, 55, 265-271.	0.8	36
63	The Mitochondrial nad2 Gene as a Novel Marker Locus for Phylogenetic Analysis of Early Land Plants: A Comparative Analysis in Mosses. <i>Molecular Phylogenetics and Evolution</i> , 2001, 18, 117-126.	1.2	50
64	MitBASE : a comprehensive and integrated mitochondrial DNA database. The present status. <i>Nucleic Acids Research</i> , 2000, 28, 148-152.	6.5	18
65	A member of a novel <i>Arabidopsis thaliana</i> gene family of candidate Mg ²⁺ ion transporters complements a yeast mitochondrial group II intron-splicing mutant. <i>Plant Journal</i> , 2000, 24, 489-501.	2.8	138
66	MitBASE: a comprehensive and integrated mitochondrial DNA database. <i>Nucleic Acids Research</i> , 1999, 27, 128-133.	6.5	17
67	A molecular phylogeny of bryophytes based on nucleotide sequences of the mitochondrial nad5 gene. <i>Plant Systematics and Evolution</i> , 1999, 218, 179-192.	0.3	101
68	Homologues of yeast and bacterial rotenone-insensitive NADH dehydrogenases in higher eukaryotes: two enzymes are present in potato mitochondria. <i>Plant Journal</i> , 1999, 20, 79-87.	2.8	97
69	Plant Mitochondrial RNA Editing. <i>Journal of Molecular Evolution</i> , 1999, 48, 303-312.	0.8	131
70	Complex II subunit 4 (sdh4) homologous sequences in plant mitochondrial genomes. <i>Current Genetics</i> , 1998, 34, 313-317.	0.8	29
71	Trans-splicing group II introns in plant mitochondria: The complete set of cis-arranged homologs in ferns, fern allies, and a hornwort. <i>Rna</i> , 1998, 4, 1599-1609.	1.6	102
72	Evolution of trans-splicing plant mitochondrial introns in pre-Permian times. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 553-558.	3.3	63

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73	Mitochondrial DNA variations and nuclear RFLPs reflect different genetic similarities among 23 <i>Arabidopsis thaliana</i> ecotypes. <i>Plant Molecular Biology</i> , 1997, 33, 37-45.	2.0	38
74	A tripartite group II intron in mitochondria of an angiosperm plant. <i>Molecular Genetics and Genomics</i> , 1997, 255, 269-276.	2.4	36
75	Interorganellar gene transfer in bryophytes: the functional. <i>Molecular Genetics and Genomics</i> , 1997, 256, 589.	2.4	3
76	<i> copia-, gypsy- and LINE-Like Retrotransposon Fragments in the Mitochondrial Genome of Arabidopsis thaliana</i> . <i>Genetics</i> , 1996, 142, 579-585.	1.2	82
77	The gene for ribosomal protein S10 is present in mitochondria of pea and potato but absent from those of <i>Arabidopsis</i> and <i>Oenothera</i> . <i>Current Genetics</i> , 1995, 27, 559-564.	0.8	42
78	Evidence for a group II intron in <i>Escherichia coli</i> inserted into a highly conserved reading frame associated with mobile DNA sequences. <i>Nucleic Acids Research</i> , 1994, 22, 1167-1171.	6.5	40
79	RNA editing of a conserved reading frame in plant mitochondria increases its similarity to two overlapping reading frames in <i>Escherichia coli</i> . <i>Molecular Genetics and Genomics</i> , 1994, 242, 65-72.	2.4	21
80	On the Identification of Group II Introns in Nucleotide Sequence Data. <i>Journal of Molecular Biology</i> , 1994, 242, 389-396.	2.0	26
81	Promiscuous mitochondrial group II intron sequences in plant nuclear genomes. <i>Journal of Molecular Evolution</i> , 1994, 39, 144-150.	0.8	24
82	The mitochondrial genome on its way to the nucleus: different stages of gene transfer in higher plants. <i>FEBS Letters</i> , 1993, 325, 140-145.	1.3	141
83	The <i>nad4L</i> gene is encoded between exon <i>c</i> of <i>nad5</i> and <i>orf25</i> in the <i>Arabidopsis</i> mitochondrial genome. <i>Molecular Genetics and Genomics</i> , 1992, 236, 33-38.	2.4	30
84	Nucleotide sequences of the mitochondrial genes <i>trnS(TGA)</i> encoding tRNA ^{SerTGA} in <i>Oenothera berteriana</i> and <i>Arabidopsis thaliana</i> . <i>Gene</i> , 1991, 102, 245-247.	1.0	6
85	Expression of the avirulence gene <i>avrBs3</i> from <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> is not under the control of <i>hrp</i> genes and is independent of plant factors. <i>Journal of Bacteriology</i> , 1991, 173, 7142-7150.	1.0	119
86	Distribution of RNA editing sites in <i>Oenothera</i> mitochondrial mRNAs and rRNAs. <i>Current Genetics</i> , 1991, 20, 397-404.	0.8	77
87	A mitochondrial intron sequence in the 5'-flanking region of a plant nuclear lectin gene. <i>Current Genetics</i> , 1991, 20, 423-425.	0.8	20
88	Between DNA and protein - RNA editing in plant mitochondria. <i>Physiologia Plantarum</i> , 1991, 81, 437-445.	2.6	7