Ivan N Shatsky

List of Publications by Year
in descending order

38 papers	2,589 citations	257450 24 h-index	330143 37 g-index
39 all docs	39 docs citations	39 times ranked	2554 citing authors

#	Article	IF	Citations
1	Translation of 5â€² leaders is pervasive in genes resistant to eIF2 repression. ELife, 2015, 4, e03971.	6.0	294
2	Specific Interaction of Eukaryotic Translation Initiation Factor 3 with the 5â€² Nontranslated Regions of Hepatitis C Virus and Classical Swine Fever Virus RNAs. Journal of Virology, 1998, 72, 4775-4782.	3.4	266
3	Eukaryotic translation initiation machinery can operate in a bacterial-like mode without eIF2. Nature Structural and Molecular Biology, 2008, 15, 836-841.	8.2	163
4	GTP-independent tRNA Delivery to the Ribosomal P-site by a Novel Eukaryotic Translation Factor. Journal of Biological Chemistry, 2010, 285, 26779-26787.	3.4	144
5	Insights into the mechanisms of eukaryotic translation gained with ribosome profiling. Nucleic Acids Research, 2017, 45, 513-526.	14.5	124
6	Efficient Translation Initiation Directed by the 900-Nucleotide-Long and GC-Rich 5â€² Untranslated Region of the Human Retrotransposon LINE-1 mRNA Is Strictly Cap Dependent Rather than Internal Ribosome Entry Site Mediated. Molecular and Cellular Biology, 2007, 27, 4685-4697.	2.3	111
7	Oxygen and glucose deprivation induces widespread alterations in mRNA translation within 20Âminutes. Genome Biology, 2015, 16, 90.	8.8	110
8	Cap- and IRES-Independent Scanning Mechanism of Translation Initiation as an Alternative to the Concept of Cellular IRESs. Molecules and Cells, 2010, 30, 285-294.	2.6	103
9	Functional and Structural Similarities between the Internal Ribosome Entry Sites of Hepatitis C Virus and Porcine Teschovirus, a Picornavirus. Journal of Virology, 2004, 78, 4487-4497.	3.4	102
10	Assembly of 48S Translation Initiation Complexesfrom Purified Components with mRNAs That Have Some Base Pairingwithin Their 5â€² UntranslatedRegions. Molecular and Cellular Biology, 2003, 23, 8925-8933.	2.3	82
11	Differential contribution of the m7G-cap to the 5â€² end-dependent translation initiation of mammalian mRNAs. Nucleic Acids Research, 2009, 37, 6135-6147.	14.5	79
12	Cap-Independent Translation: Whatâ€™s in a Name?. Trends in Biochemical Sciences, 2018, 43, 882-895.	7.5	77
13	A Cross-Kingdom Internal Ribosome Entry Site Reveals a Simplified Mode of Internal Ribosome Entry. Molecular and Cellular Biology, 2005, 25, 7879-7888.	2.3	75
14	Unidirectional constant rate motion of the ribosomal scanning particle during eukaryotic translation initiation. Nucleic Acids Research, 2011, 39, 5555-5567.	14.5	71
15	A researcherâ€™s guide to the galaxy of IRESs. Cellular and Molecular Life Sciences, 2017, 74, 1431-1455.	5.4	68
16	Unusual ribosome binding properties of mRNA encoding bacteriophage Î» repressor. Nucleic Acids Research, 1992, 20, 563-571.	14.5	62
17	Conversion of 48S translation preinitiation complexes into 80S initiation complexes as revealed by toeprinting. FEBS Letters, 2003, 533, 99-104.	2.8	62
18	Tma64/eIF2D, Tma20/MCT-1, and Tma22/DENR Recycle Post-termination 40S Subunits InÂVivo. Molecular Cell, 2018, 71, 761-774.e5.	9.7	62

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19	A Leaderless mRNA Can Bind to Mammalian 80S Ribosomes and Direct Polypeptide Synthesis in the Absence of Translation Initiation Factors. Molecular and Cellular Biology, 2006, 26, 3164-3169.	2.3	60
20	A novel mechanism of eukaryotic translation initiation that is neither m7G-cap-, nor IRES-dependent. Nucleic Acids Research, 2013, 41, 1807-1816.	14.5	57
21	Glycyl-tRNA synthetase specifically binds to the poliovirus IRES to activate translation initiation. Nucleic Acids Research, 2012, 40, 5602-5614.	14.5	54
22	Transcriptome-wide studies uncover the diversity of modes of mRNA recruitment to eukaryotic ribosomes. Critical Reviews in Biochemistry and Molecular Biology, 2014, 49, 164-177.	5.2	52
23	Four translation initiation pathways employed by the leaderless mRNA in eukaryotes. Scientific Reports, 2016, 6, 37905.	3.3	40
24	Sliding of a 43S ribosomal complex from the recognized AUG codon triggered by a delay in eIF2-bound GTP hydrolysis. Nucleic Acids Research, 2016, 44, 1882-1893.	14.5	31
25	Unusually efficient CUG initiation of an overlapping reading frame in <i>POLG</i> mRNA yields novel protein POLGARF. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24936-24946.	7.1	30
26	The 5â€² untranslated region of Apafâ€1 mRNA directs translation under apoptosis conditions via a 5â€² endâ€dependent scanning mechanism. FEBS Letters, 2012, 586, 4139-4143.	2.8	25
27	Eukaryotic translation elongation factor 2 (eEF2) catalyzes reverse translocation of the eukaryotic ribosome. Journal of Biological Chemistry, 2018, 293, 5220-5229.	3.4	25
28	Non-AUG translation initiation in mammals. Genome Biology, 2022, 23, 111.	8.8	25
29	Ribosomal leaky scanning through a translated uORF requires eIF4G2. Nucleic Acids Research, 2022, 50, 1111-1127.	14.5	21
30	Pros and cons of pDNA and mRNA transfection to study mRNA translation in mammalian cells. Gene, 2016, 578, 1-6.	2.2	20
31	Does HIV-1 mRNA 5'-untranslated region bear an internal ribosome entry site?. Biochimie, 2016, 121, 228-237.	2.6	18
32	Translation control of mRNAs encoding mammalian translation initiation factors. Gene, 2018, 651, 174-182.	2.2	16
33	Archaeal Translation Initiation Factor aIF2 Can Substitute for Eukaryotic eIF2 in Ribosomal Scanning during Mammalian 48S Complex Formation. Journal of Molecular Biology, 2011, 413, 106-114.	4.2	14
34	eIF4G2 balances its own mRNA translation via a PCBP2-based feedback loop. Rna, 2019, 25, 757-767.	3.5	14
35	Translatome and transcriptome analysis of TMA20 (MCT-1) and TMA64 (eIF2D) knockout yeast strains. Data in Brief, 2019, 23, 103701.	1.0	14
36	A novel uORF-based regulatory mechanism controls translation of the human MDM2 and eIF2D mRNAs during stress. Biochimie, 2019, 157, 92-101.	2.6	12

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37	Ribosome Pausing at Inefficient Codons at the End of the Replicase Coding Region Is Important for Hepatitis C Virus Genome Replication. International Journal of Molecular Sciences, 2020, 21, 6955.	4.1	3
38	Modifications of Ribosome Profiling that Provide New Data on the Translation Regulation. Biochemistry (Moscow), 2021, 86, 1095-1106.	1.5	2