

Gabriele Varani

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56
papers

3,601
citations

29
h-index

60
g-index

178
ext. papers

3,991
ext. citations

10.3
avg, IF

5.35
L-index

#	Paper	IF	Citations
56	Solution structure of an unusually stable RNA hairpin, 5'GGAC(UUCG)GUCC. <i>Nature</i> , 1990 , 346, 680-2	50.4	408
55	Structure of an unusually stable RNA hairpin. <i>Biochemistry</i> , 1991 , 30, 3280-9	3.2	301
54	NMR investigation of RNA structure. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 1996 , 29, 51-127	10.4	299
53	Current topics in RNA-protein recognition: control of specificity and biological function through induced fit and conformational capture. <i>Biochemistry</i> , 2001 , 40, 7947-56	3.2	297
52	Targeting RNA with small-molecule drugs: therapeutic promise and chemical challenges. <i>Accounts of Chemical Research</i> , 2001 , 34, 836-43	24.3	266
51	RNA recognition by RNP proteins during RNA processing. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 1998 , 27, 407-45		250
50	RNA structure and NMR spectroscopy. <i>Quarterly Reviews of Biophysics</i> , 1991 , 24, 479-532	7	224
49	Structure of HIV-1 TAR RNA in the absence of ligands reveals a novel conformation of the trinucleotide bulge. <i>Nucleic Acids Research</i> , 1996 , 24, 3974-81	20.1	207
48	Comprehensive computational design of ordered peptide macrocycles. <i>Science</i> , 2017 , 358, 1461-1466	33.3	96
47	RNA-Protein Intermolecular Recognition. <i>Accounts of Chemical Research</i> , 1997 , 30, 189-195	24.3	79
46	Structure of the acceptor stem of Escherichia coli tRNA Ala: role of the G3.U70 base pair in synthetase recognition. <i>Nucleic Acids Research</i> , 1997 , 25, 2083-90	20.1	73
45	Structure of the polyadenylation regulatory element of the human U1A pre-mRNA 3' untranslated region and interaction with the U1A protein. <i>Biochemistry</i> , 1996 , 35, 2253-67	3.2	72
44	β-sheet secondary structure in amyloid β-peptide drives aggregation and toxicity in Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 8895-8900	11.5	70
43	Refinement of the structure of protein-RNA complexes by residual dipolar coupling analysis. <i>Journal of Biomolecular NMR</i> , 1999 , 14, 149-55	3	64
42	Applications of NMR to structure determination of RNAs large and small. <i>Archives of Biochemistry and Biophysics</i> , 2017 , 628, 42-56	4.1	58
41	Decrypting noncoding RNA interactions, structures, and functional networks. <i>Genome Research</i> , 2019 , 29, 1377-1388	9.7	57
40	Development of Small Molecules with a Noncanonical Binding Mode to HIV-1 Trans Activation Response (TAR) RNA. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 11148-11160	8.3	57

39	Structure based approaches for targeting non-coding RNAs with small molecules. <i>Current Opinion in Structural Biology</i> , 2015 , 30, 79-88	8.1	56
38	Designed β sheet peptides inhibit amyloid formation by targeting toxic oligomers. <i>ELife</i> , 2014 , 3, e01681	8.9	52
37	Structure of a low-population binding intermediate in protein-RNA recognition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7171-6	11.5	46
36	Simple yet functional phosphate-loop proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E11943-E11950	11.5	44
35	A Macrocyclic Peptide Ligand Binds the Oncogenic MicroRNA-21 Precursor and Suppresses Dicer Processing. <i>ACS Chemical Biology</i> , 2017 , 12, 1611-1620	4.9	41
34	Reconstitution of the CstF complex unveils a regulatory role for CstF-50 in recognition of 3' end processing signals. <i>Nucleic Acids Research</i> , 2018 , 46, 493-503	20.1	36
33	Rtr1 is a dual specificity phosphatase that dephosphorylates Tyr1 and Ser5 on the RNA polymerase II CTD. <i>Journal of Molecular Biology</i> , 2014 , 426, 2970-81	6.5	34
32	The Long Noncoding RNA CCAT2 Induces Chromosomal Instability Through BOP1-AURKB Signaling. <i>Gastroenterology</i> , 2020 , 159, 2146-2162.e33	13.3	34
31	Structure and mechanism of a molecular rheostat, an RNA thermometer that modulates immune evasion by <i>Neisseria meningitidis</i> . <i>Nucleic Acids Research</i> , 2016 , 44, 9426-9437	20.1	31
30	Primordial emergence of a nucleic acid-binding protein via phase separation and statistical ornithine-to-arginine conversion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 15731-15739	11.5	30
29	Novel three-dimensional ^1H - ^{13}C - ^{31}P triple resonance experiments for sequential backbone correlations in nucleic acids. <i>Journal of Biomolecular NMR</i> , 1995 , 5, 315-20	3	30
28	Targeted inhibition of oncogenic miR-21 maturation with designed RNA-binding proteins. <i>Nature Chemical Biology</i> , 2016 , 12, 717-23	11.7	29
27	Determination of sugar conformation in large RNA oligonucleotides from analysis of dipole-dipole cross correlated relaxation by solution NMR spectroscopy. <i>Journal of Biomolecular NMR</i> , 1999 , 15, 241-50	3	26
26	Multivalent drug design and inhibition of cholera toxin by specific and transient protein-ligand interactions. <i>Chemical Biology and Drug Design</i> , 2008 , 71, 408-419	2.9	24
25	An ultra-high affinity ligand of HIV-1 TAR reveals the RNA structure recognized by P-TEFb. <i>Nucleic Acids Research</i> , 2019 , 47, 1523-1531	20.1	24
24	Targeting Influenza A Virus RNA Promoter. <i>Chemical Biology and Drug Design</i> , 2015 , 86, 663-73	2.9	22
23	Determination of the structure of the RNA complex of a double-stranded RNA-binding domain from <i>Drosophila</i> Staufen protein. <i>Biopolymers</i> , 1999 , 52, 181-96	2.2	22
22	A promoter-proximal transcript targeted by genetic polymorphism controls E-cadherin silencing in human cancers. <i>Nature Communications</i> , 2017 , 8, 15622	17.4	21

21	Determination of the NMR structure of the complex between U1A protein and its RNA polyadenylation inhibition element. <i>Journal of Biomolecular NMR</i> , 1998 , 11, 59-84	3	21
20	Different phosphoisoforms of RNA polymerase II engage the Rtt103 termination factor in a structurally analogous manner. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E3944-E3953	11.5	18
19	Multimodal Long Noncoding RNA Interaction Networks: Control Panels for Cell Fate Specification. <i>Genetics</i> , 2019 , 213, 1093-1110	4	14
18	The C terminus of Pcf11 forms a novel zinc-finger structure that plays an essential role in mRNA 3'end processing. <i>Rna</i> , 2017 , 23, 98-107	5.8	13
17	Molecular basis for the increased affinity of an RNA recognition motif with re-engineered specificity: A molecular dynamics and enhanced sampling simulations study. <i>PLoS Computational Biology</i> , 2018 , 14, e1006642	5	8
16	Ultraslow Domain Motions in HIV-1 TAR RNA Revealed by Solid-State Deuterium NMR. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 110-117	3.4	7
15	An evolutionarily conserved RNA structure in the functional core of the lincRNA Cyrano. <i>Rna</i> , 2020 , 26, 1234-1246	5.8	7
14	Twenty years of RNA: the discovery of microRNAs. <i>Rna</i> , 2015 , 21, 751-2	5.8	6
13	Structure of the RNA Specialized Translation Initiation Element that Recruits eIF3 to the 5'UTR of c-Jun. <i>Journal of Molecular Biology</i> , 2020 , 432, 1841-1855	6.5	6
12	A Small Cyclic Hairpin Peptide Mimics the Rbfox2 RNA Recognition Motif and Binds to the Precursor miRNA 20b. <i>ChemBioChem</i> , 2019 , 20, 931-939	3.8	4
11	Comparative structure, dynamics and evolution of acyl-carrier proteins from <i>Borrelia burgdorferi</i> , <i>Brucella melitensis</i> and <i>Rickettsia prowazekii</i> . <i>Biochemical Journal</i> , 2020 , 477, 491-508	3.8	3
10	Design of RNA-targeting macrocyclic peptides. <i>Methods in Enzymology</i> , 2019 , 623, 339-372	1.7	2
9	NMR structure of Dengue West Nile viruses stem-loop B: A key cis-acting element for flavivirus replication. <i>Biochemical and Biophysical Research Communications</i> , 2020 , 531, 522-527	3.4	2
8	Efficient NMR Screening Approach to Discover Small Molecule Fragments Binding Structured RNA. <i>ACS Medicinal Chemistry Letters</i> , 2021 , 12, 1253-1260	4.3	2
7	An Allosteric Switch Primes Sequence-Specific DNA Recognition. <i>Cell</i> , 2019 , 176, 4-6	56.2	2
6	RNA Structure 2001 ,		1
5	Genome-wide association studies reveal the role of polymorphisms affecting factor H binding protein expression in host invasion by <i>Neisseria meningitidis</i> . <i>PLoS Pathogens</i> , 2021 , 17, e1009992	7.6	1
4	Determination of the structure of the RNA complex of a double-stranded RNA-binding domain from <i>Drosophila</i> Staufen protein 1999 , 52, 181		1

- 3 Determination of the structure of the RNA complex of a double-stranded RNA-binding domain from *Drosophila* Staufen protein **1999**, 52, 181 1
- 2 Structure, Function, and Biogenesis of Small Nucleolar Ribonucleoprotein Particles **2013**, 117-132
- 1 Structure of a hepatitis C virus IRES RNA motif recognized by translation initiation factor 3. *Biochemical Society Transactions*, **2002**, 30, A18-A18 5.1