

Myron F Goodman

List of Publications by Year in descending order

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127
papers

12,229
citations

44444

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129
docs citations

129
times ranked

7298
citing authors

#	ARTICLE	IF	CITATIONS
1	The mRNA tether model for activation-induced deaminase and its relevance for Ig somatic hypermutation and class switch recombination. <i>DNA Repair</i> , 2022, 110, 103271.	1.3	7
2	Genomic landscape of single-stranded DNA gapped intermediates in <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 2022, 50, 937-951.	6.5	10
3	The SOS Error-Prone DNA Polymerase V Mutasome and β -Sliding Clamp Acting in Concert on Undamaged DNA and during Translesion Synthesis. <i>Cells</i> , 2021, 10, 1083.	1.8	4
4	Single-molecule live-cell imaging reveals RecB-dependent function of DNA polymerase IV in double strand break repair. <i>Nucleic Acids Research</i> , 2020, 48, 8490-8508.	6.5	15
5	John W. (Jan) Drake: A Biochemical View of a Geneticist Par Excellence. <i>Genetics</i> , 2020, 216, 827-836.	1.2	0
6	Revealing an Internal Stabilization Deficiency in the DNA Polymerase β K289M Cancer Variant through the Combined Use of Chemical Biology and X-ray Crystallography. <i>Biochemistry</i> , 2020, 59, 955-963.	1.2	0
7	Role of RNase H enzymes in maintaining genome stability in <i>Escherichia coli</i> expressing a steric-gate mutant of pol VICE391. <i>DNA Repair</i> , 2019, 84, 102685.	1.3	7
8	AID-mediated RNA polymerase II transcription-dependent deamination of IgV DNA. <i>Nucleic Acids Research</i> , 2019, 47, 10815-10829.	6.5	23
9	A Transition-State Perspective on Y-Family DNA Polymerase β Fidelity in Comparison with X-Family DNA Polymerases β and β . <i>Biochemistry</i> , 2019, 58, 1764-1773.	1.2	10
10	Random Walk Enzymes: Information Theory, Quantum Isomorphism, and Entropy Dispersion. <i>Journal of Physical Chemistry A</i> , 2019, 123, 3030-3037.	1.1	3
11	Conformational regulation of <i>Escherichia coli</i> DNA polymerase V by RecA and ATP. <i>PLoS Genetics</i> , 2019, 15, e1007956.	1.5	16
12	A pre-catalytic non-covalent step governs DNA polymerase β fidelity. <i>Nucleic Acids Research</i> , 2019, 47, 11839-11849.	6.5	4
13	Mapping Functional Substrate-Enzyme Interactions in the pol β Active Site through Chemical Biology: Structural Responses to Acidity Modification of Incoming dNTPs. <i>Biochemistry</i> , 2018, 57, 3934-3944.	1.2	11
14	Probing DNA Base-Dependent Leaving Group Kinetic Effects on the DNA Polymerase Transition State. <i>Biochemistry</i> , 2018, 57, 3925-3933.	1.2	18
15	DNA polymerase IV primarily operates outside of DNA replication forks in <i>Escherichia coli</i> . <i>PLoS Genetics</i> , 2018, 14, e1007161.	1.5	55
16	Activation-induced deoxycytidine deaminase: Structural basis for favoring WRC hot motif specificities unique among APOBEC family members. <i>DNA Repair</i> , 2017, 54, 8-12.	1.3	15
17	Integrity of immunoglobulin variable regions is supported by GANP during AID-induced somatic hypermutation in germinal center B cells. <i>International Immunology</i> , 2017, 29, 211-220.	1.8	3
18	A Change in the Rate-Determining Step of Polymerization by the K289M DNA Polymerase β Cancer-Associated Variant. <i>Biochemistry</i> , 2017, 56, 2096-2105.	1.2	16

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19	DNA Polymerase ϵ Cancer-Associated Variant I260M Exhibits Nonspecific Selectivity toward the β - β' Bridging Group of the Incoming dNTP. <i>Biochemistry</i> , 2017, 56, 5449-5456.	1.2	7
20	Relating DNA base-pairing in aqueous media to DNA polymerase fidelity. <i>Nature Reviews Chemistry</i> , 2017, 1, .	13.8	4
21	Better living with hypermutation. <i>Environmental and Molecular Mutagenesis</i> , 2016, 57, 421-434.	0.9	15
22	Kinetic selection vs. free energy of DNA base pairing in control of polymerase fidelity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E2277-85.	3.3	32
23	Mutations for Worse or Better: Low-Fidelity DNA Synthesis by SOS DNA Polymerase V Is a Tightly Regulated Double-Edged Sword. <i>Biochemistry</i> , 2016, 55, 2309-2318.	1.2	33
24	Tomas Lindahl: 2015 Nobel Laureate. <i>DNA Repair</i> , 2016, 37, A29-A34.	1.3	4
25	Structural analysis of the activation-induced deoxycytidine deaminase required in immunoglobulin diversification. <i>DNA Repair</i> , 2016, 43, 48-56.	1.3	40
26	Insights into the complex levels of regulation imposed on Escherichia coli DNA polymerase V. <i>DNA Repair</i> , 2016, 44, 42-50.	1.3	49
27	Random-walk enzymes. <i>Physical Review E</i> , 2015, 92, 032717.	0.8	7
28	Regulation of Mutagenic DNA Polymerase V Activation in Space and Time. <i>PLoS Genetics</i> , 2015, 11, e1005482.	1.5	86
29	Activation-induced deoxycytidine deaminase (AID) co-transcriptional scanning at single-molecule resolution. <i>Nature Communications</i> , 2015, 6, 10209.	5.8	33
30	Overlapping hotspots in CDRs are critical sites for V region diversification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E728-37.	3.3	62
31	A RecA Protein Surface Required for Activation of DNA Polymerase V. <i>PLoS Genetics</i> , 2015, 11, e1005066.	1.5	32
32	Mutations for Worse or Better: Low Fidelity DNA Synthesis by SOS DNA Polymerase V is a Tightly Regulated Double-Edged Sword. <i>FASEB Journal</i> , 2015, 29, .	0.2	0
33	DNA polymerase V activity is autoregulated by a novel intrinsic DNA-dependent ATPase. <i>ELife</i> , 2014, 3, e02384.	2.8	22
34	Engineering processive DNA polymerases with maximum benefit at minimum cost. <i>Frontiers in Microbiology</i> , 2014, 5, 380.	1.5	14
35	Transition State in DNA Polymerase ϵ Catalysis: Rate-Limiting Chemistry Altered by Base-Pair Configuration. <i>Biochemistry</i> , 2014, 53, 1842-1848.	1.2	29
36	The Discovery of Error-prone DNA Polymerase V and Its Unique Regulation by RecA and ATP. <i>Journal of Biological Chemistry</i> , 2014, 289, 26772-26782.	1.6	13

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37	Investigating the mechanisms of ribonucleotide excision repair in <i>Escherichia coli</i> . <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2014, 761, 21-33.	0.4	34
38	Preferential D-loop extension by a translesion DNA polymerase underlies error-prone recombination. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 748-755.	3.6	29
39	Translesion DNA Polymerases. <i>Cold Spring Harbor Perspectives in Biology</i> , 2013, 5, a010363-a010363.	2.3	229
40	Competitive Fitness During Feast and Famine: How SOS DNA Polymerases Influence Physiology and Evolution in <i>Escherichia coli</i> . <i>Genetics</i> , 2013, 194, 409-420.	1.2	43
41	AID and APOBEC3G haphazard deamination and mutational diversity. <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 3089-3108.	2.4	23
42	RecA acts as a switch to regulate polymerase occupancy in a moving replication fork. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5410-5415.	3.3	31
43	GANP Interacts with APOBEC3G and Facilitates Its Encapsidation into the Virions To Reduce HIV-1 Infectivity. <i>Journal of Immunology</i> , 2013, 191, 6030-6039.	0.4	7
44	A Biochemical Analysis Linking APOBEC3A to Disparate HIV-1 Restriction and Skin Cancer. <i>Journal of Biological Chemistry</i> , 2013, 288, 29294-29304.	1.6	42
45	DNA polymerases are error-prone at RecA-mediated recombination intermediates. <i>Cell Cycle</i> , 2013, 12, 2558-2563.	1.3	22
46	A Mathematical Model for Scanning and Catalysis on Single-stranded DNA, Illustrated with Activation-induced Deoxycytidine Deaminase. <i>Journal of Biological Chemistry</i> , 2013, 288, 29786-29795.	1.6	25
47	A Structural Basis for the Biochemical Behavior of Activation-induced Deoxycytidine Deaminase Class-switch Recombination-defective Hyper-IgM-2 Mutants. <i>Journal of Biological Chemistry</i> , 2012, 287, 28007-28016.	1.6	29
48	Effect of $\hat{2},\hat{3}$ -CHF- and $\hat{2},\hat{3}$ -CHCl-dGTP Halogen Atom Stereochemistry on the Transition State of DNA Polymerase $\hat{2}$. <i>Biochemistry</i> , 2012, 51, 8491-8501.	1.2	17
49	Single-stranded DNA Scanning and Deamination by APOBEC3G Cytidine Deaminase at Single Molecule Resolution. <i>Journal of Biological Chemistry</i> , 2012, 287, 15826-15835.	1.6	53
50	$\hat{2},\hat{3}$ -CHF- and $\hat{2},\hat{3}$ -CHCl-dGTP Diastereomers: Synthesis, Discrete ³¹ P NMR Signatures, and Absolute Configurations of New Stereochemical Probes for DNA Polymerases. <i>Journal of the American Chemical Society</i> , 2012, 134, 8734-8737.	6.6	31
51	An accidental biochemist. <i>DNA Repair</i> , 2012, 11, 527-536.	1.3	0
52	Simple and efficient purification of <i>Escherichia coli</i> DNA polymerase V: Cofactor requirements for optimal activity and processivity in vitro. <i>DNA Repair</i> , 2012, 11, 431-440.	1.3	33
53	Analysis of a Single-stranded DNA-scanning Process in Which Activation-induced Deoxycytidine Deaminase (AID) Deaminates C to U Haphazardly and Inefficiently to Ensure Mutational Diversity. <i>Journal of Biological Chemistry</i> , 2011, 286, 24931-24942.	1.6	42
54	Structural Model for Deoxycytidine Deamination Mechanisms of the HIV-1 Inactivation Enzyme APOBEC3G. <i>Journal of Biological Chemistry</i> , 2010, 285, 16195-16205.	1.6	114

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55	GANP-mediated Recruitment of Activation-induced Cytidine Deaminase to Cell Nuclei and to Immunoglobulin Variable Region DNA. <i>Journal of Biological Chemistry</i> , 2010, 285, 23945-23953.	1.6	52
56	A new model for SOS-induced mutagenesis: how RecA protein activates DNA polymerase V. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2010, 45, 171-184.	2.3	129
57	DNA Polymerase Fidelity: Comparing Direct Competition of Right and Wrong dNTP Substrates with Steady State and Pre-Steady State Kinetics. <i>Biochemistry</i> , 2010, 49, 20-28.	1.2	45
58	Halogenated $\hat{2},\hat{3}$ -Methylene- and Ethylidene-dGTP-DNA Ternary Complexes with DNA Polymerase $\hat{2}$: Structural Evidence for Stereospecific Binding of the Fluoromethylene Analogues. <i>Journal of the American Chemical Society</i> , 2010, 132, 7617-7625.	6.6	48
59	Biochemical Basis of Immunological and Retroviral Responses to DNA-targeted Cytosine Deamination by Activation-induced Cytidine Deaminase and APOBEC3G. <i>Journal of Biological Chemistry</i> , 2009, 284, 27761-27765.	1.6	15
60	V-region mutation in vitro, in vivo, and in silico reveal the importance of the enzymatic properties of AID and the sequence environment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 8629-8634.	3.3	37
61	Dissecting APOBEC3G Substrate Specificity by Nucleoside Analog Interference. <i>Journal of Biological Chemistry</i> , 2009, 284, 7047-7058.	1.6	46
62	Stochastic properties of processive cytidine DNA deaminases AID and APOBEC3G. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 583-593.	1.8	43
63	The active form of DNA polymerase V is UmuD $\hat{2}$ C $\hat{2}$ RecA $\hat{2}$ ATP. <i>Nature</i> , 2009, 460, 359-363.	13.7	132
64	Mechanisms of APOBEC3G-catalyzed processive deamination of deoxycytidine on single-stranded DNA. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 454-455.	3.6	25
65	A Computational Study of the Hydrolysis of dGTP Analogues with Halomethylene-Modified Leaving Groups in Solution: Implications for the Mechanism of DNA Polymerases. <i>Biochemistry</i> , 2009, 48, 5963-5971.	1.2	22
66	The prospect of APOBEC3G for the future of HIV therapy. <i>HIV Therapy</i> , 2009, 3, 7-10.	0.6	1
67	DNA Polymerase $\hat{2}$ Fidelity: Halomethylene-Modified Leaving Groups in Pre-Steady-State Kinetic Analysis Reveal Differences at the Chemical Transition State. <i>Biochemistry</i> , 2008, 47, 870-879.	1.2	79
68	The Biochemistry of Somatic Hypermutation. <i>Annual Review of Immunology</i> , 2008, 26, 481-511.	9.5	404
69	Crystal structure of the anti-viral APOBEC3G catalytic domain and functional implications. <i>Nature</i> , 2008, 456, 121-124.	13.7	213
70	A Model for Oligomeric Regulation of APOBEC3G Cytosine Deaminase-dependent Restriction of HIV. <i>Journal of Biological Chemistry</i> , 2008, 283, 13780-13791.	1.6	90
71	Replication Bypass of Interstrand Cross-link Intermediates by <i>Escherichia coli</i> DNA Polymerase IV. <i>Journal of Biological Chemistry</i> , 2008, 283, 27433-27437.	1.6	49
72	Impact of Phosphorylation and Phosphorylation-null Mutants on the Activity and Deamination Specificity of Activation-induced Cytidine Deaminase. <i>Journal of Biological Chemistry</i> , 2008, 283, 17428-17439.	1.6	40

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73	Hypermethylation at A/T Sites during G ^A -U Mismatch Repair in Vitro by Human B-cell Lysates. <i>Journal of Biological Chemistry</i> , 2008, 283, 31754-31762.	1.6	13
74	AID-initiated Purposeful Mutations in Immunoglobulin Genes. <i>Advances in Immunology</i> , 2007, 94, 127-155.	1.1	36
75	DNA deaminases AID and APOBEC3G act processively on single-stranded DNA. <i>DNA Repair</i> , 2007, 6, 689-692.	1.3	25
76	DNA polymerase β catalytic efficiency mirrors the Asn279-dCTP H-bonding strength. <i>FEBS Letters</i> , 2007, 581, 775-780.	1.3	25
77	Modifying the β , γ Leaving-Group Bridging Oxygen Alters Nucleotide Incorporation Efficiency, Fidelity, and the Catalytic Mechanism of DNA Polymerase β . <i>Biochemistry</i> , 2007, 46, 461-471.	1.2	99
78	(R)- β , γ -Fluoromethylene-dGTP-DNA Ternary Complex with DNA Polymerase β . <i>Journal of the American Chemical Society</i> , 2007, 129, 15412-15413.	6.6	54
79	Lessons from 50 years of SOS DNA-damage-induced mutagenesis. <i>Nature Reviews Molecular Cell Biology</i> , 2007, 8, 587-594.	16.1	95
80	The APOBEC-2 crystal structure and functional implications for the deaminase AID. <i>Nature</i> , 2007, 445, 447-451.	13.7	191
81	APOBEC3G DNA deaminase acts processively 3' to 5' on single-stranded DNA. <i>Nature Structural and Molecular Biology</i> , 2006, 13, 392-399.	3.6	263
82	RecA acts in trans to allow replication of damaged DNA by DNA polymerase V. <i>Nature</i> , 2006, 442, 883-887.	13.7	97
83	Roles of DNA Polymerase V and RecA Protein in SOS Damage-Induced Mutation. <i>Chemical Reviews</i> , 2006, 106, 406-419.	23.0	68
84	First AID (Activation-induced Cytidine Deaminase) Is Needed to Produce High Affinity Isotype-switched Antibodies. <i>Journal of Biological Chemistry</i> , 2006, 281, 16833-16836.	1.6	13
85	Computer simulations of protein functions: Searching for the molecular origin of the replication fidelity of DNA polymerases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 6819-6824.	3.3	103
86	Identifying protein-protein interactions in somatic hypermutation. <i>Journal of Experimental Medicine</i> , 2005, 201, 493-496.	4.2	5
87	Reward versus Risk: DNA Cytidine Deaminases Triggering Immunity and Disease. <i>Biochemistry</i> , 2005, 44, 2703-2715.	1.2	69
88	DNA Polymerase V and RecA Protein, a Minimal Mutasome. <i>Molecular Cell</i> , 2005, 17, 561-572.	4.5	98
89	Methylation protects cytidines from AID-mediated deamination. <i>Molecular Immunology</i> , 2005, 42, 599-604.	1.0	71
90	Biochemical Analysis of Hypermethylational Targeting by Wild Type and Mutant Activation-induced Cytidine Deaminase. <i>Journal of Biological Chemistry</i> , 2004, 279, 51612-51621.	1.6	138

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91	Competitive processivity-clamp usage by DNA polymerases during DNA replication and repair. <i>EMBO Journal</i> , 2003, 22, 6408-6418.	3.5	106
92	Computer Simulation of the Chemical Catalysis of DNA Polymerases: Discriminating between Alternative Nucleotide Insertion Mechanisms for T7 DNA Polymerase. <i>Journal of the American Chemical Society</i> , 2003, 125, 8163-8177.	6.6	145
93	Computer simulation studies of the fidelity of DNA polymerases. <i>Biopolymers</i> , 2003, 68, 286-299.	1.2	39
94	Processive AID-catalysed cytosine deamination on single-stranded DNA simulates somatic hypermutation. <i>Nature</i> , 2003, 424, 103-107.	13.7	591
95	<i>Escherichia coli</i> DNA Polymerase V Subunit Exchange. <i>Journal of Biological Chemistry</i> , 2003, 278, 52546-52550.	1.6	20
96	Activation-induced cytidine deaminase deaminates deoxycytidine on single-stranded DNA but requires the action of RNase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 4102-4107.	3.3	619
97	SOS-induced DNA polymerases enhance long-term survival and evolutionary fitness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 8737-8741.	3.3	180
98	Two distinct modes of RecA action are required for DNA polymerase V-catalyzed translesion synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 11061-11066.	3.3	51
99	Molecular Dynamics Free-Energy Simulations of the Binding Contribution to the Fidelity of T7 DNA Polymerase. <i>Journal of Physical Chemistry B</i> , 2002, 106, 5754-5760.	1.2	31
100	Error-Prone Repair DNA Polymerases in Prokaryotes and Eukaryotes. <i>Annual Review of Biochemistry</i> , 2002, 71, 17-50.	5.0	679
101	The Y-Family of DNA Polymerases. <i>Molecular Cell</i> , 2001, 8, 7-8.	4.5	798
102	A sliding clamp monkey wrench. , 2001, 8, 829-831.		4
103	Crystal structure of a DinB family error-prone DNA polymerase from <i>Sulfolobus solfataricus</i> . <i>Nature Structural Biology</i> , 2001, 8, 984-989.	9.7	165
104	A model for SOS-lesion-targeted mutations in <i>Escherichia coli</i> . <i>Nature</i> , 2001, 409, 366-370.	13.7	114
105	The importance of repairing stalled replication forks. <i>Nature</i> , 2000, 404, 37-41.	13.7	1,008
106	Roles of <i>E. coli</i> DNA polymerases IV and V in lesion-targeted and untargeted SOS mutagenesis. <i>Nature</i> , 2000, 404, 1014-1018.	13.7	415
107	The expanding polymerase universe. <i>Nature Reviews Molecular Cell Biology</i> , 2000, 1, 101-109.	16.1	152
108	Error-Prone Candidates Vie for Somatic Mutation. <i>Journal of Experimental Medicine</i> , 2000, 192, F27-F30.	4.2	63

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109	Molecular Mechanism and Energetics of Clamp Assembly in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2000, 275, 28413-28420.	1.6	57
110	Purposeful mutations. <i>Nature</i> , 1998, 395, 221-223.	13.7	14
111	Modulation of RecA Nucleoprotein Function by the Mutagenic UmuD ² C Protein Complex. <i>Journal of Biological Chemistry</i> , 1998, 273, 32384-32387.	1.6	41
112	DNA Polymerase Fidelity: From Genetics Toward a Biochemical Understanding. <i>Genetics</i> , 1998, 148, 1475-1482.	1.2	110
113	Fidelity of <i>Escherichia coli</i> DNA Polymerase III Holoenzyme. <i>Journal of Biological Chemistry</i> , 1997, 272, 27919-27930.	1.6	117
114	Spectroscopic and Calorimetric Characterizations of DNA Duplexes Containing 2-Aminopurine. <i>Biochemistry</i> , 1996, 35, 12329-12337.	1.2	172
115	Stability of intrastrand hairpin structures formed by the CAG/CTG class of DNA triplet repeats associated with neurological diseases. <i>Nucleic Acids Research</i> , 1996, 24, 1992-1998.	6.5	113
116	Purification of a Soluble UmuD ² C Complex from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 1996, 271, 10767-10774.	1.6	105
117	Analysis of mutational changes at the HLA locus in single human sperm. <i>Human Mutation</i> , 1995, 6, 303-310.	1.1	24
118	Enthalpy-Entropy Compensation in DNA Melting Thermodynamics. <i>Journal of Biological Chemistry</i> , 1995, 270, 746-750.	1.6	96
119	[19] Gel fidelity assay measuring nucleotide misinsertion, exonucleolytic proofreading, and lesion bypass efficiencies. <i>Methods in Enzymology</i> , 1995, 262, 232-256.	0.4	218
120	Pre-Steady-State Kinetic Analysis of Sequence-Dependent Nucleotide Excision by the 3'-Exonuclease Activity of Bacteriophage T4 DNA Polymerase. <i>Biochemistry</i> , 1994, 33, 7576-7586.	1.2	121
121	Biochemical Basis of DNA Replication Fidelity. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 1993, 28, 83-126.	2.3	428
122	Fidelity Mechanisms in DNA Replication. <i>Annual Review of Biochemistry</i> , 1991, 60, 477-511.	5.0	714
123	Mutation induced by DNA damage: a many protein affair. <i>Mutation Research DNA Repair</i> , 1990, 236, 301-311.	3.8	111
124	Preparation of Imino and Amino N-15 Enriched 2-Aminopurine Deoxynucleoside. <i>Nucleosides & Nucleotides</i> , 1989, 8, 23-34.	0.5	11
125	Asymmetry in forming 2-aminopurine- \hat{A} -hydroxymethylcytosine heteroduplexes; a model giving misincorporation frequencies and rounds of DNA replication from base-pair populations in vivo. <i>Journal of Molecular Biology</i> , 1979, 135, 1-22.	2.0	22
126	Laser-induced rate processes in gases: Dynamics of polyatomic systems. <i>Journal of Chemical Physics</i> , 1976, 65, 5052-5061.	1.2	76

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127	A model for laser isotope separation in SF6. Journal of Chemical Physics, 1976, 65, 5062-5067.	1.2	63