

Timor Baasov

List of Publications by Year in descending order

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5,312
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61984

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times ranked

4166
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#	ARTICLE	IF	CITATIONS
1	Toward Catalytic Antibiotics: Redesign of Fluoroquinolones to Catalytically Fragment Chromosomal DNA. <i>ACS Infectious Diseases</i> , 2021, 7, 608-623.	3.8	5
2	Cross-utilization of β -galactosides and cellobiose in <i>Geobacillus stearothermophilus</i> . <i>Journal of Biological Chemistry</i> , 2020, 295, 10766-10780.	3.4	2
3	Towards Catalytic Antibiotics: Redesign of Aminoglycosides To Catalytically Disable Bacterial Ribosomes. <i>ChemBioChem</i> , 2019, 20, 247-259.	2.6	7
4	Exploring eukaryotic versus prokaryotic ribosomal RNA recognition with aminoglycoside derivatives. <i>MedChemComm</i> , 2018, 9, 503-508.	3.4	7
5	Characterization of new-generation aminoglycoside promoting premature termination codon readthrough in cancer cells. <i>RNA Biology</i> , 2017, 14, 378-388.	3.1	74
6	Covalently linked kanamycin $\hat{=}$ Ciprofloxacin hybrid antibiotics as a tool to fight bacterial resistance. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 2917-2925.	3.0	42
7	Design of Novel Aminoglycoside Derivatives with Enhanced Suppression of Diseases-Causing Nonsense Mutations. <i>ACS Medicinal Chemistry Letters</i> , 2016, 7, 418-423.	2.8	32
8	Targeting Nonsense Mutations in Diseases with Translational Read-Through-Inducing Drugs (TRIDs). <i>BioDrugs</i> , 2016, 30, 49-74.	4.6	82
9	New inducible genetic method reveals critical roles of GABA in the control of feeding and metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3645-3650.	7.1	53
10	A Hybrid Drug Limits Resistance by Evading the Action of the Multiple Antibiotic Resistance Pathway. <i>Molecular Biology and Evolution</i> , 2016, 33, 492-500.	8.9	24
11	Structural basis for selective targeting of leishmanial ribosomes: aminoglycoside derivatives as promising therapeutics. <i>Nucleic Acids Research</i> , 2015, 43, 8601-8613.	14.5	28
12	Carbohydrates: Special Issue in Honor of the 2014 Wolf Prize Laureate in Chemistry, Professor Chi-Huey Wong. <i>Israel Journal of Chemistry</i> , 2015, 55, 253-253.	2.3	0
13	Preliminary crystallographic analysis of Xyn52B2, a GH52 $\hat{=}$ -xylosidase from <i>Geobacillus stearothermophilus</i> T6. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 1675-1682.	0.8	3
14	Designer Aminoglycosides That Selectively Inhibit Cytoplasmic Rather than Mitochondrial Ribosomes Show Decreased Ototoxicity. <i>Journal of Biological Chemistry</i> , 2014, 289, 2318-2330.	3.4	97
15	Therapy Strategies for Usher Syndrome Type 1C in the Retina. <i>Advances in Experimental Medicine and Biology</i> , 2014, 801, 741-747.	1.6	11
16	Synthetic Aminoglycosides Efficiently Suppress Cystic Fibrosis Transmembrane Conductance Regulator Nonsense Mutations and Are Enhanced by Ivacaftor. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2014, 50, 805-816.	2.9	131
17	Long-term nonsense suppression therapy with NB84 moderates MPS IH disease progression. <i>Molecular Genetics and Metabolism</i> , 2014, 111, S50.	1.1	2
18	When proteins start to make sense: fine-tuning of aminoglycosides for PTC suppression therapy. <i>MedChemComm</i> , 2014, 5, 1092-1105.	3.4	40

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19	Carbohydrates themed issue. MedChemComm, 2014, 5, 1010-1013.	3.4	0
20	Long-term nonsense suppression therapy moderates MPS I-H disease progression. Molecular Genetics and Metabolism, 2014, 111, 374-381.	1.1	44
21	Foreword "The 17th European Carbohydrate Symposium" EuroCarb17. Carbohydrate Research, 2014, 389, 1.	2.3	0
22	Development of generic immunoassay for the detection of a series of aminoglycosides with 6'-OH group for the treatment of genetic diseases in biological samples. Journal of Pharmaceutical and Biomedical Analysis, 2013, 75, 33-40.	2.8	15
23	Attenuation of Nonsense-Mediated mRNA Decay Enhances In Vivo Nonsense Suppression. PLoS ONE, 2013, 8, e60478.	2.5	89
24	Aminoglycoside-Induced Premature Stop Codon Read-Through of Mucopolysaccharidosis Type I Patient Q70X and W402X Mutations in Cultured Cells. JIMD Reports, 2013, 13, 139-147.	1.5	16
25	Identification of the molecular attributes required for aminoglycoside activity against <i>Leishmania</i> . Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13333-13338.	7.1	31
26	A comparative evaluation of NB30, NB54 and PTC124 in translational read-through efficacy for treatment of an <i>USH1C</i> nonsense mutation. EMBO Molecular Medicine, 2012, 4, 1186-1199.	6.9	95
27	Increased Selectivity toward Cytoplasmic versus Mitochondrial Ribosome Confers Improved Efficiency of Synthetic Aminoglycosides in Fixing Damaged Genes: A Strategy for Treatment of Genetic Diseases Caused by Nonsense Mutations. Journal of Medicinal Chemistry, 2012, 55, 10630-10643.	6.4	57
28	The designer aminoglycoside NB84 significantly reduces glycosaminoglycan accumulation associated with MPS I-H in the <i>Idua-W392X</i> mouse. Molecular Genetics and Metabolism, 2012, 105, 116-125.	1.1	67
29	Repairing faulty genes by aminoglycosides: Identification of new pharmacophore with enhanced suppression of disease-causing nonsense mutations. MedChemComm, 2011, 2, 165.	3.4	21
30	Ex Vivo Treatment with a Novel Synthetic Aminoglycoside NB54 in Primary Fibroblasts from Rett Syndrome Patients Suppresses MECP2 Nonsense Mutations. PLoS ONE, 2011, 6, e20733.	2.5	46
31	Readthrough of nonsense mutations in Rett syndrome: evaluation of novel aminoglycosides and generation of a new mouse model. Journal of Molecular Medicine, 2011, 89, 389-398.	3.9	90
32	Suppression of CFTR premature termination codons and rescue of CFTR protein and function by the synthetic aminoglycoside NB54. Journal of Molecular Medicine, 2011, 89, 1149-1161.	3.9	67
33	Post-transcriptionally Regulated Expression System in Human Xenogeneic Transplantation Models. Molecular Therapy, 2011, 19, 1645-1655.	8.2	7
34	Repairing faulty genes by aminoglycosides: Development of new derivatives of geneticin (G418) with enhanced suppression of diseases-causing nonsense mutations. Bioorganic and Medicinal Chemistry, 2010, 18, 3735-3746.	3.0	118
35	Beneficial Read-Through of a <i>USH1C</i> Nonsense Mutation by Designed Aminoglycoside NB30 in the Retina. , 2010, 51, 6671.		50
36	Dual-acting hybrid antibiotics: a promising strategy to combat bacterial resistance. Expert Opinion on Drug Discovery, 2010, 5, 883-902.	5.0	92

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37	Aminoglycosides. <i>Methods in Enzymology</i> , 2010, 478, 437-462.	1.0	24
38	Development of Novel Aminoglycoside (NB54) with Reduced Toxicity and Enhanced Suppression of Disease-Causing Premature Stop Mutations. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 2836-2845.	6.4	169
39	Design, Synthesis, and Evaluation of Novel Fluoroquinolone~Aminoglycoside Hybrid Antibiotics. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 2243-2254.	6.4	131
40	Combined Chemical~Enzymatic Assembly of Aminoglycoside Derivatives with N~C~AHB Side Chain. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 1682-1688.	4.3	8
41	Structure~toxicity relationship of aminoglycosides: Correlation of 2~amine basicity with acute toxicity in pseudo-disaccharide scaffolds. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 8940-8951.	3.0	22
42	Designer aminoglycosides: the race to develop improved antibiotics and compounds for the treatment of human genetic diseases. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 227-239.	2.8	104
43	Aminoglycosides Affect Intracellular <i>Salmonella enterica</i> Serovars Typhimurium and Virchow. <i>Antimicrobial Agents and Chemotherapy</i> , 2008, 52, 920-926.	3.2	44
44	Overexpression and Initial Characterization of the Chromosomal Aminoglycoside 3~O-Phosphotransferase APH(3~)-IIb from <i>Pseudomonas aeruginosa</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2007, 51, 774-776.	3.2	15
45	Differential Selectivity of Natural and Synthetic Aminoglycosides towards the Eukaryotic and Prokaryotic Decoding A Sites. <i>ChemBioChem</i> , 2007, 8, 1700-1709.	2.6	56
46	In vitro and ex vivo suppression by aminoglycosides of PCDH15 nonsense mutations underlying type 1 Usher syndrome. <i>Human Genetics</i> , 2007, 122, 373-381.	3.8	65
47	Redesign of aminoglycosides for treatment of human genetic diseases caused by premature stop mutations. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006, 16, 6310-6315.	2.2	71
48	Branched aminoglycosides: Biochemical studies and antibacterial activity of neomycin B derivatives. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 5797-5807.	3.0	37
49	Dual Effect of Synthetic Aminoglycosides: Antibacterial Activity against <i>Bacillus anthracis</i> and Inhibition of Anthrax Lethal Factor. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 447-452.	13.8	63
50	Biochemical Characterization and Identification of the Catalytic Residues of a Family 43 ~d-Xylosidase from <i>Geobacillus stearothermophilus</i> T-6. <i>Biochemistry</i> , 2005, 44, 387-397.	2.5	93
51	The Use of (E)- and (Z)-Phosphoenol-3-fluoropyruvate as Mechanistic Probes Reveals Significant Differences between the Active Sites of KDO8P and DAHP Synthases. <i>Biochemistry</i> , 2005, 44, 7326-7335.	2.5	8
52	Crystal Structures of <i>Escherichia coli</i> KDO8P Synthase Complexes Reveal the Source of Catalytic Irreversibility. <i>Journal of Molecular Biology</i> , 2005, 351, 641-652.	4.2	14
53	Crystal Structures of <i>Geobacillus stearothermophilus</i> ~Glucuronidase Complexed with Its Substrate and Products. <i>Journal of Biological Chemistry</i> , 2004, 279, 3014-3024.	3.4	62
54	A Reciprocal Single Mutation Affects the Metal Requirement of 3-Deoxy-d-manno-2-octulosonate-8-phosphate (KDO8P) Synthases from <i>Aquifex pyrophilus</i> and <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 45110-45120.	3.4	27

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55	Synthesis and evaluation of a mechanism-based inhibitor of KDO8P synthase. <i>Carbohydrate Research</i> , 2004, 339, 385-392.	2.3	29
56	Crystal structure and snapshots along the reaction pathway of a family 51 $\hat{\alpha}$ -L-arabinofuranosidase. <i>EMBO Journal</i> , 2003, 22, 4922-4932.	7.8	127
57	Cloning, expression, and biochemical characterization of 3-deoxy-d-manno-2-octulosonate-8-phosphate (KDO8P) synthase from the hyperthermophilic bacterium <i>Aquifex pyrophilus</i> . <i>Extremophiles</i> , 2003, 7, 471-481.	2.3	13
58	Binding of the natural substrates and products to KDO8P synthase: 31P and 13C solution NMR characterization. <i>Bioorganic Chemistry</i> , 2003, 31, 306-321.	4.1	5
59	Crystallization and preliminary X-ray analysis of a family 51 glycoside hydrolase, the $\hat{\alpha}$ -L-arabinofuranosidase from <i>Geobacillus stearothermophilus</i> T-6. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 913-915.	2.5	12
60	Detailed Kinetic Analysis of a Family 52 Glycoside Hydrolase: $\hat{\alpha}$ -Xylosidase from <i>Geobacillus stearothermophilus</i> . <i>Biochemistry</i> , 2003, 42, 10528-10536.	2.5	54
61	Biotransformations of propenylbenzenes by an <i>Arthrobacter</i> sp. and its t-anethole blocked mutants. <i>Journal of Biotechnology</i> , 2003, 105, 61-70.	3.8	43
62	A New Class of Branched Aminoglycosides: Pseudo-Pentasaccharide Derivatives of Neomycin B. <i>Organic Letters</i> , 2003, 5, 3575-3578.	4.6	56
63	A Snapshot of Enzyme Catalysis Using Electrospray Ionization Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2003, 125, 9938-9939.	13.7	64
64	Inhibition Mode of a Bisubstrate Inhibitor of KDO8P Synthase: A Frequency-Selective REDOR Solid-State and Solution NMR Characterization. <i>Journal of the American Chemical Society</i> , 2003, 125, 4662-4669.	13.7	33
65	Identification of the Catalytic Residues in Family 52 Glycoside Hydrolase, a $\hat{\alpha}$ -Xylosidase from <i>Geobacillus stearothermophilus</i> T-6. <i>Journal of Biological Chemistry</i> , 2003, 278, 26742-26749.	3.4	53
66	The trans-Anethole Degradation Pathway in an <i>Arthrobacter</i> sp.. <i>Journal of Biological Chemistry</i> , 2002, 277, 11866-11872.	3.4	34
67	Detailed Kinetic Analysis and Identification of the Nucleophile in $\hat{\alpha}$ -L-Arabinofuranosidase from <i>Geobacillus stearothermophilus</i> T-6, a Family 51 Glycoside Hydrolase. <i>Journal of Biological Chemistry</i> , 2002, 277, 43667-43673.	3.4	83
68	One-Pot Synthesis of Glucosamine Oligosaccharides. <i>Organic Letters</i> , 2002, 4, 281-283.	4.6	62
69	The identification of the acid-base catalyst of $\hat{\alpha}$ -arabinofuranosidase from <i>Geobacillus stearothermophilus</i> T-6, a family 51 glycoside hydrolase. <i>FEBS Letters</i> , 2002, 514, 163-167.	2.8	72
70	Methyl 2,3-dideoxy-2-S-methylmercurio-2-thio- $\hat{\alpha}$ -D-manno-oct-2-ulopyranosonate-(2,6). <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2002, 58, m450-m452.	0.4	1
71	Stereochemistry of family 52 glycosyl hydrolases: a $\hat{\alpha}$ -xylosidase from <i>Bacillus stearothermophilus</i> T-6 is a retaining enzyme. <i>FEBS Letters</i> , 2001, 495, 39-43.	2.8	41
72	Glutamic acid 160 is the acid-base catalyst of $\hat{\alpha}$ -xylosidase from <i>Bacillus stearothermophilus</i> T-6: a family 39 glycoside hydrolase. <i>FEBS Letters</i> , 2001, 495, 115-119.	2.8	36

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73	A Synthetic Pentasaccharide with GTPase Activity. <i>Organic Letters</i> , 2001, 3, 4311-4314.	4.6	19
74	Crystal Structures of KDO8P Synthase in Its Binary Complexes with the Substrate Phosphoenolpyruvate and with a Mechanism-Based Inhibitor. <i>Biochemistry</i> , 2001, 40, 6326-6334.	2.5	50
75	Biochemical characterization and identification of catalytic residues in β -glucuronidase from <i>Bacillus stearothermophilus</i> T-6. <i>FEBS Journal</i> , 2001, 268, 3006-3016.	0.2	51
76	Catalytic Mechanism of 3-Deoxy-D-manno-2-octulosonate-8-phosphate Synthase. <i>Current Organic Chemistry</i> , 2001, 5, 127-138.	1.6	7
77	Towards a new class of synthetic antibacterials acting on lipopolysaccharide biosynthesis. <i>Drug Development Research</i> , 2000, 50, 416-424.	2.9	8
78	Direct Identification of Enzyme Active Site Residues by Solid-State REDOR NMR: Application to KDO8P Synthase. <i>Journal of the American Chemical Society</i> , 2000, 122, 2649-2650.	13.7	15
79	Structural and Mechanistic Investigation of 3-Deoxy-d-manno-octulosonate-8-phosphate Synthase by Solid-State REDOR NMR. <i>Biochemistry</i> , 2000, 39, 14865-14876.	2.5	24
80	Family of thiomeric derivatives of sugars: Synthesis, fungicidal/herbicidal activity, and application to the X-ray structure determination of the corresponding enzymes. <i>Israel Journal of Chemistry</i> , 2000, 40, 177-188.	2.3	8
81	Overproduction and characterization of seleno-methionine xylanase T-6. <i>Journal of Biotechnology</i> , 2000, 78, 83-86.	3.8	26
82	Towards the development of novel antibiotics: synthesis and evaluation of a mechanism-based inhibitor of Kdo8P synthase. <i>Bioorganic and Medicinal Chemistry</i> , 1999, 7, 2671-2682.	3.0	49
83	Programmable One-Pot Oligosaccharide Synthesis. <i>Journal of the American Chemical Society</i> , 1999, 121, 734-753.	13.7	817
84	Catalytic Mechanism of Kdo8P Synthase: Transient Kinetic Studies and Evaluation of a Putative Reaction Intermediate. <i>Biochemistry</i> , 1998, 37, 16390-16399.	2.5	48
85	First Nonenzymatic Synthesis of Kdo8P through a Mechanism Similar to That Suggested for the Enzyme Kdo8P Synthase. <i>Journal of Organic Chemistry</i> , 1997, 62, 794-804.	3.2	11
86	Catalytic mechanism of KDO8P synthase: synthesis and evaluation of a putative reaction intermediate. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1997, 7, 2457-2462.	2.2	15
87	Synthesis and evaluation of putative oxocarbenium intermediate mimic in the KDO8P synthase-catalyzed reaction as a tool for the design of potent inhibitors for lipopolysaccharide biosynthesis. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1997, 7, 2469-2472.	2.2	17
88	Catalytic mechanism of KDO8P synthase. Pre-steady-state kinetic analysis using rapid chemical quench flow methods. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1997, 7, 2463-2468.	2.2	17
89	An efficient chemical-enzymatic synthesis of 4-nitrophenyl β -xylobioside: a chromogenic substrate for xylanases. <i>Carbohydrate Research</i> , 1997, 304, 111-115.	2.3	28
90	A new model for the stereoselective construction of the Kdo structure through a mechanism similar to that suggested for the enzyme Kdo8P synthase. <i>Tetrahedron Letters</i> , 1996, 37, 3545-3548.	1.4	4

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91	1-(Dihydroxyphosphinyl)vinyl phosphate: The phosphonate analogue of phosphoenolpyruvate is a pH-dependent substrate of Kdo8P synthase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1996, 6, 2901-2906.	2.2	12
92	Synthesis, Inhibition, and Acid-Catalyzed Hydrolysis Studies of Model Compounds of the Proposed Intermediate in the Kdo8P-Synthase-Catalyzed Reaction. <i>Journal of the American Chemical Society</i> , 1995, 117, 6165-6174.	13.7	37
93	Synthesis of novel phosphonate analogue of Kdo as a tool for the design of potent inhibitors for lipopolysaccharide biosynthesis. <i>Tetrahedron Letters</i> , 1994, 35, 5077-5080.	1.4	8
94	Towards the synthesis of the putative reaction intermediate in the Kdo8P synthase-catalyzed reaction. Synthesis and evaluation of 3-deoxy-manno-2-octulosonate-2-phosphate. <i>Tetrahedron Letters</i> , 1994, 35, 3179-3182.	1.4	9
95	Stereochemistry of the KDO8P synthase. An efficient synthesis of the 3-fluoro analogues of KDO8P. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1993, 3, 1577-1582.	2.2	61
96	Insight into the catalytic mechanism of KDO8P synthase. Synthesis and evaluation of the isosteric phosphonate mimic of the putative cyclic intermediate. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1993, 3, 1583-1588.	2.2	32
97	A combined chemical-enzymatic synthesis of a new phosphoramidate analogue of phosphoenolpyruvate. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1993, 3, 1615-1618.	2.2	5
98	Catalytic mechanism of 3-deoxy-d-manno-2-octulosonate-8-phosphate synthase. The use of synthetic analogues to probe the structure of the putative reaction intermediate. <i>FEBS Journal</i> , 1993, 217, 991-999.	0.2	44
99	Mechanistic studies of 3-deoxy-d-manno-2-octulosonate-8-phosphate synthase from <i>Escherichia coli</i> . <i>FEBS Journal</i> , 1992, 208, 443-449.	0.2	52
100	Anomeric specificity of 3-deoxy-D-manno-2-octulosonate 8-phosphate phosphatase from <i>Escherichia coli</i> . <i>Journal of the American Chemical Society</i> , 1990, 112, 4972-4974.	13.7	13
101	Factors affecting the C:N stretching in protonated retinal Schiff base: a model study for bacteriorhodopsin and visual pigments. <i>Biochemistry</i> , 1987, 26, 3210-3217.	2.5	166
102	Probing the binding site of bacteriorhodopsin with a fluorescent chromophore. <i>Journal of the American Chemical Society</i> , 1987, 109, 1594-1596.	13.7	18
103	Interactions between protonated retinal schiff base and various counter ions: A study by two-dimensional NOE NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 1987, 25, 21-24.	1.9	1
104	Alteration of pKa of the bacteriorhodopsin protonated Schiff base. A study with model compounds. <i>Biochemistry</i> , 1986, 25, 5249-5258.	2.5	90
105	On the Absorption Maxima of Protonated Retinal Schiff Bases. An Interaction with External Charges. <i>Israel Journal of Chemistry</i> , 1985, 25, 53-55.	2.3	4
106	Model compounds for the study of spectroscopic properties of visual pigments and bacteriorhodopsin. <i>Journal of the American Chemical Society</i> , 1985, 107, 7524-7533.	13.7	77
107	C ¹³ C Stretching Frequencies in Model Compounds of the Protonated Retinal Schiff Base. <i>Angewandte Chemie International Edition in English</i> , 1984, 23, 803-804.	4.4	5
108	C=C Stretching Frequencies in Modellverbindungen der Protonierten Schiff-Base des Retinals. <i>Angewandte Chemie</i> , 1984, 96, 786-787.	2.0	3

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109	Factors affecting the rate of thermal isomerization of 13-cis-bacteriorhodopsin to all trans. Journal of the American Chemical Society, 1984, 106, 6840-6841.	13.7	30
110	On the binding site of bacteriorhodopsin. A study with artificial pigments. Journal of the American Chemical Society, 1984, 106, 2435-2437.	13.7	27
111	A blue shift of protonated retinal schiff base. A model study for bacteriorhodopsin. Tetrahedron Letters, 1983, 24, 1745-1748.	1.4	8
112	A remarkable blue shift of retinal protonated Schiff base due to electrostatic interaction of positive charges. Journal of the Chemical Society Chemical Communications, 1983, , 77.	2.0	3
113	Photochemistry of thioanhydrides. Photofragmentation of -1,2-dihydrophthalic thioanhydrides. Tetrahedron Letters, 1982, 23, 1373-1376.	1.4	6