

Charles E Mckenna

List of Publications by Year in descending order

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166
papers

5,540
citations

94433

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all docs

173
docs citations

173
times ranked

5677
citing authors

#	ARTICLE	IF	CITATIONS
1	The facile dealkylation of phosphonic acid dialkyl esters by bromotrimethylsilane. <i>Tetrahedron Letters</i> , 1977, 18, 155-158.	1.4	420
2	The relationship between the chemistry and biological activity of the bisphosphonates. <i>Bone</i> , 2011, 49, 20-33.	2.9	327
3	Synthesis, Biological Evaluation, and Quantitative Structure-Activity Relationship Analysis of New Schiff Bases of Hydroxysemicarbazide as Potential Antitumor Agents. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 410-419.	6.4	254
4	Bromodomains: Structure, function and pharmacology of inhibition. <i>Biochemical Pharmacology</i> , 2016, 106, 1-18.	4.4	186
5	Fluorescent risedronate analogues reveal bisphosphonate uptake by bone marrow monocytes and localization around osteocytes in vivo. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 606-616.	2.8	156
6	Functional selectivity in phosphonate ester dealkylation with bromotrimethylsilane. <i>Journal of the Chemical Society Chemical Communications</i> , 1979, , 739.	2.0	155
7	Real-Time Intravital Imaging Establishes Tumor-Associated Macrophages as the Extraskelatal Target of Bisphosphonate Action in Cancer. <i>Cancer Discovery</i> , 2015, 5, 35-42.	9.4	133
8	Fluorination of methanediphosphonate esters by perchloryl fluoride. Synthesis of fluoromethanediphosphonic acid and difluoromethanediphosphonic acid. <i>Journal of Organic Chemistry</i> , 1981, 46, 4573-4576.	3.2	115
9	Modifying the \hat{I}^2, \hat{I}^3 Leaving-Group Bridging Oxygen Alters Nucleotide Incorporation Efficiency, Fidelity, and the Catalytic Mechanism of DNA Polymerase \hat{I}^2 . <i>Biochemistry</i> , 2007, 46, 461-471.	2.5	99
10	Influence of bone affinity on the skeletal distribution of fluorescently labeled bisphosphonates in vivo. <i>Journal of Bone and Mineral Research</i> , 2012, 27, 835-847.	2.8	92
11	Phosphonocarboxylate inhibitors of Rab geranylgeranyl transferase disrupt the prenylation and membrane localization of Rab proteins in osteoclasts in vitro and in vivo. <i>Bone</i> , 2005, 37, 349-358.	2.9	91
12	RAB26 and RAB3D Are Direct Transcriptional Targets of MIST1 That Regulate Exocrine Granule Maturation. <i>Molecular and Cellular Biology</i> , 2010, 30, 1269-1284.	2.3	88
13	Binary complex crystal structure of DNA polymerase \hat{I}^2 reveals multiple conformations of the templating 8-oxoguanine lesion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 113-118.	7.1	80
14	DNA Polymerase \hat{I}^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.	2.5	79
15	A film bulk acoustic resonator in liquid environments. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, 1911-1916.	2.6	78
16	Design, Synthesis, and Antimicrobial Evaluation of a Novel Bone-Targeting Bisphosphonate-Ciprofloxacin Conjugate for the Treatment of Osteomyelitis Biofilms. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 2326-2343.	6.4	77
17	A vanadium containing nitrogenase preparation: Implications for the role of molybdenum in nitrogen fixation. <i>Biochemical and Biophysical Research Communications</i> , 1970, 41, 1501-1508.	2.1	74
18	Bisphosphonate-induced differential modulation of immune cell function in gingiva and bone marrow <i>in vivo</i> : Role in osteoclast-mediated NK cell activation. <i>Oncotarget</i> , 2015, 6, 20002-20025.	1.8	72

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19	Catalytic Reduction of cis-Dimethyldiazene by the [MoFe ₃ S ₄] ³⁺ Clusters. The Four-Electron Reduction of a NN Bond by a Nitrogenase-Relevant Cluster and Implications for the Function of Nitrogenase. <i>Journal of the American Chemical Society</i> , 1997, 119, 1662-1667.	13.7	69
20	Synthesis and Biological Evaluation of $\hat{1}\pm$ -Halogenated Bisphosphonate and Phosphonocarboxylate Analogues of Risedronate. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 5967-5975.	6.4	68
21	Biphasic requirement for geranylgeraniol in hippocampal long-term potentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 11394-11399.	7.1	66
22	Identification of a novel $\langle scp \rangle$ bromodomain inhibitor \hat{e} -sensitive, gene regulatory circuit that controls Rituximab response and tumour growth in aggressive lymphoid cancers. <i>EMBO Molecular Medicine</i> , 2013, 5, 1180-1195.	6.9	64
23	Synthesis, Chiral High Performance Liquid Chromatographic Resolution and Enantiospecific Activity of a Potent New Geranylgeranyl Transferase Inhibitor, 2-Hydroxy-3-imidazo[1,2-a]pyridin-3-yl-2-phosphonopropionic Acid. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 3454-3464.	6.4	57
24	(R)- $\hat{1}^2, \hat{1}^3$ -Fluoromethylene-dGTP-DNA Ternary Complex with DNA Polymerase $\hat{1}^2$. <i>Journal of the American Chemical Society</i> , 2007, 129, 15412-15413.	13.7	54
25	Fluorescently Labeled Risedronate and Related Analogues: \hat{e} Magic Linker \hat{e} Synthesis. <i>Bioconjugate Chemistry</i> , 2008, 19, 2308-2310.	3.6	53
26	Prodrug approaches to improving the oral absorption of antiviral nucleotide analogues. <i>Expert Opinion on Drug Delivery</i> , 2009, 6, 405-420.	5.0	52
27	Synthesis of halogenated phosphonoacetate esters. <i>Journal of Organic Chemistry</i> , 1986, 51, 5467-5471.	3.2	50
28	Phosphonocarboxylates Inhibit the Second Geranylgeranyl Addition by Rab Geranylgeranyl Transferase. <i>Journal of Biological Chemistry</i> , 2009, 284, 6861-6868.	3.4	49
29	Halogenated $\hat{1}^2, \hat{1}^3$ -Methylene- and Ethylidene-dGTP-DNA Ternary Complexes with DNA Polymerase $\hat{1}^2$: Structural Evidence for Stereospecific Binding of the Fluoromethylene Analogues. <i>Journal of the American Chemical Society</i> , 2010, 132, 7617-7625.	13.7	48
30	Equilibrium-dependent bisphosphonate interaction with crystalline bone mineral explains anti-resorptive pharmacokinetics and prevalence of osteonecrosis of the jaw in rats. <i>Bone</i> , 2013, 53, 59-68.	2.9	48
31	Carbonyldiphosphonate, a selective inhibitor of mammalian DNA polymerase $\hat{1}^2$. <i>Biochemistry</i> , 1989, 28, 8270-8274.	2.5	47
32	Fluorescent Bisphosphonate and Carboxyphosphonate Probes: A Versatile Imaging Toolkit for Applications in Bone Biology and Biomedicine. <i>Bioconjugate Chemistry</i> , 2016, 27, 329-340.	3.6	47
33	Sequence Specific Label-Free DNA Sensing Using Film-Bulk-Acoustic-Resonators. <i>IEEE Sensors Journal</i> , 2007, 7, 1587-1588.	4.7	44
34	Synthesis and biological evaluation of fluorinated deoxynucleotide analogs based on bis-(difluoromethylene)triphosphoric acid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 15693-15698.	7.1	44
35	$\hat{1}\pm, \hat{1}^2$ -Difluoromethylene Deoxynucleoside $\hat{1}^2$ -Triphosphates: A Convenient Synthesis of Useful Probes for DNA Polymerase $\hat{1}^2$ Structure and Function. <i>Organic Letters</i> , 2009, 11, 1883-1886.	4.6	43
36	The First Optically Active Polycarbazoles. <i>Macromolecules</i> , 2003, 36, 6956-6958.	4.8	41

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37	Label-free detection of protein-ligand interactions in real time using micromachined bulk acoustic resonators. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	40
38	Tyrosine-Based 1-(<i>S</i>)-[3-Hydroxy-2-(phosphonomethoxy)propyl]cytosine and -adenine ((<i>S</i>)-HPMPC and (<i>S</i>)-HPMPA) Prodrugs: Synthesis, Stability, Antiviral Activity, and in Vivo Transport Studies. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 5680-5693.	6.4	39
39	Jaw bone marrow-derived osteoclast precursors internalize more bisphosphonate than long-bone marrow precursors. <i>Bone</i> , 2013, 57, 242-251.	2.9	39
40	Selective BET bromodomain inhibition as an antifungal therapeutic strategy. <i>Nature Communications</i> , 2017, 8, 15482.	12.8	37
41	1-(<i>S</i> -Aminobenzyl)-2-naphthol: A New Chiral Auxiliary for the Synthesis of Enantiopure <i>S</i> -Aminophosphonic Acids. <i>Chemistry - A European Journal</i> , 2009, 15, 6718-6722.	3.3	36
42	Bisphosphonates: The role of chemistry in understanding their biological actions and structure-activity relationships, and new directions for their therapeutic use. <i>Bone</i> , 2022, 156, 116289.	2.9	36
43	SYNTHESIS OF <i>S</i> -HALOGENATED METHANEDIPHOSPHONATES 1a, b. Phosphorous and Sulfur and the Related Elements, 1988, 37, 1-12.	0.2	35
44	Bisphosphonate Binding Affinity Affects Drug Distribution in Both Intracortical and Trabecular Bone of Rabbits. <i>Calcified Tissue International</i> , 2012, 90, 202-210.	3.1	35
45	Serine Peptide Phosphoester Prodrugs of Cyclic Cidofovir: Synthesis, Transport, and Antiviral Activity. <i>Molecular Pharmaceutics</i> , 2008, 5, 598-609.	4.6	34
46	Farnesyl pyrophosphate synthase modulators: a patent review (2006 – 2010). <i>Expert Opinion on Therapeutic Patents</i> , 2011, 21, 1433-1451.	5.0	33
47	Microwave-assisted synthesis of nitrogen-containing 1-hydroxymethylbisphosphonate drugs. <i>Tetrahedron Letters</i> , 2011, 52, 2285-2287.	1.4	33
48	Small Molecule Inhibition of SAMHD1 dNTPase by Tetramer Destabilization. <i>Journal of the American Chemical Society</i> , 2014, 136, 9822-9825.	13.7	33
49	Some phosphonic acid analogs as inhibitors of pyrophosphate-dependent phosphofructokinase, a novel target in <i>Toxoplasma gondii</i> . <i>Biochemical Pharmacology</i> , 1995, 49, 105-113.	4.4	32
50	Molecular interactions of nitrogen-containing bisphosphonates within farnesyl diphosphate synthase. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 2679-2687.	1.8	31
51	Synthesis of <i>S</i> -fluorinated phosphonoacetate derivatives using electrophilic fluorine reagents: Perchloryl fluoride versus 1-chloromethyl-4-fluoro-1,4-diazoniabicyclo[2.2.2]octane bis(tetrafluoroborate) (Selectfluor®). <i>Journal of Fluorine Chemistry</i> , 2005, 126, 1467-1475.	1.7	31
52	<i>S</i> , <i>S</i> -CHF- and <i>S</i> , <i>S</i> -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.	13.7	31
53	Host Modulators of H1N1 Cytopathogenicity. <i>PLoS ONE</i> , 2012, 7, e39284.	2.5	31
54	Synthesis of trans, trans- α -farnesene. <i>Journal of Organic Chemistry</i> , 1969, 34, 3789-3791.	3.2	30

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55	Modifications to the dNTP triphosphate moiety: From mechanistic probes for DNA polymerases to antiviral and anti-cancer drug design. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010, 1804, 1223-1230.	2.3	30
56	Bisphosphonate Uptake in Areas of Tooth Extraction or Periapical Disease. <i>Journal of Oral and Maxillofacial Surgery</i> , 2014, 72, 2461-2468.	1.2	30
57	.alpha.-Diazobenzylphosphonate dianions. <i>Journal of the American Chemical Society</i> , 1976, 98, 7327-7332.	13.7	29
58	Inhibition of herpesvirus and human DNA polymerases by β -halogenated phosphonoacetates. <i>Biochemical Pharmacology</i> , 1987, 36, 3103-3106.	4.4	29
59	Recent Progress in Carbonylphosphonate Chemistry. <i>Topics in Current Chemistry</i> , 2002, , 201-238.	4.0	29
60	Transition State in DNA Polymerase β Catalysis: Rate-Limiting Chemistry Altered by Base-Pair Configuration. <i>Biochemistry</i> , 2014, 53, 1842-1848.	2.5	29
61	Rescue bisphosphonate treatment of alveolar bone improves extraction socket healing and reduces osteonecrosis in zoledronate-treated mice. <i>Bone</i> , 2019, 123, 115-128.	2.9	28
62	Reduction of cyclopropene as criterion of active-site homology between nitrogenase and its Fe-Mo cofactor. <i>Nature</i> , 1979, 280, 611-612.	27.8	26
63	Reduction of Cyclic and Acyclic Diazene Derivatives by <i>Azotobacter vinelandii</i> Nitrogenase: β Diazirine and <i>trans</i> -Dimethyldiazene. <i>Biochemistry</i> , 1996, 35, 4502-4514.	2.5	26
64	Synthesis, stereochemistry and SAR of a series of minodronate analogues as RGGT inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 4820-4826.	5.5	26
65	Stereospecific Formation of a Ternary Complex of (<i>trans</i> - β -Fluoromethylene)dATP with DNA Pol β . <i>ChemBioChem</i> , 2012, 13, 528-530.	2.6	26
66	Evolution of an Amino Acid Based Prodrug Approach: Stay Tuned. <i>Molecular Pharmaceutics</i> , 2013, 10, 445-458.	4.6	26
67	Chemical probes of nitrogenase. 1. Cyclopropene. Nitrogenase-catalyzed reduction to propene and cyclopropane. <i>Journal of the American Chemical Society</i> , 1976, 98, 4657-4659.	13.7	25
68	The preparation and crystal structures of new platinum/phosphonate complexes. <i>Journal of the American Chemical Society</i> , 1988, 110, 7546-7547.	13.7	25
69	Cidofovir peptide conjugates as prodrugs. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 2673-2678.	1.8	25
70	Recent advances in therapeutics and drug delivery for the treatment of inner ear diseases: a patent review (2011-2015). <i>Expert Opinion on Therapeutic Patents</i> , 2017, 27, 191-202.	5.0	25
71	Non-Ototoxic Local Delivery of Bisphosphonate to the Mammalian Cochlea. <i>Otology and Neurotology</i> , 2015, 36, 953-960.	1.3	24
72	Inhibitors of Viral Nucleic Acid Polymerases. <i>ACS Symposium Series</i> , 1989, , 1-16.	0.5	23

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73	Î±-Azido Bisphosphonates: Synthesis and Nucleotide Analogues. <i>Journal of Organic Chemistry</i> , 2011, 76, 5132-5136.	3.2	23
74	An Improved Synthesis of Tetraalkyl Diazomethylenediphosphonates and Alkyl Diazo(dialkoxyphosphoryl)acetates. <i>Synthesis</i> , 1991, 1991, 405-406.	2.3	22
75	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.	2.5	22
76	Serine Side Chain-Linked Peptidomimetic Conjugates of Cyclic HPMPC and HPMPA: Synthesis and Interaction with hPEPT1. <i>Molecular Pharmaceutics</i> , 2010, 7, 2349-2361.	4.6	22
77	Removal of matrix-bound zoledronate prevents post-extraction osteonecrosis of the jaw by rescuing osteoclast function. <i>Bone</i> , 2018, 110, 141-149.	2.9	22
78	Regeneration of Cochlear Synapses by Systemic Administration of a Bisphosphonate. <i>Frontiers in Molecular Neuroscience</i> , 2020, 13, 87.	2.9	22
79	Development of oral osteomucosal tissue constructs in vitro and localization of fluorescently-labeled bisphosphonates to hard and soft tissue. <i>International Journal of Molecular Medicine</i> , 2014, 34, 559-563.	4.0	21
80	Bisphosphonates for delivering drugs to bone. <i>British Journal of Pharmacology</i> , 2021, 178, 2008-2025.	5.4	21
81	Stereoselective synthesis of enantiopure cyclic Î±-aminophosphonic acids: Direct observation of inversion at phosphorus in phosphonate ester silyldealkylation by bromotrimethylsilane. <i>Heteroatom Chemistry</i> , 2008, 19, 575-582.	0.7	20
82	Rab-geranylgeranyl transferase regulates glucose-stimulated insulin secretion from pancreatic Î² cells. <i>Islets</i> , 2012, 4, 354-358.	1.8	20
83	Bisphosphonate-Linked TrkB Agonist: Cochlea-Targeted Delivery of a Neurotrophic Agent as a Strategy for the Treatment of Hearing Loss. <i>Bioconjugate Chemistry</i> , 2018, 29, 1240-1250.	3.6	20
84	Endocytotic Uptake of Zoledronic Acid by Tubular Cells May Explain Its Renal Effects in Cancer Patients Receiving High Doses of the Compound. <i>PLoS ONE</i> , 2015, 10, e0121861.	2.5	19
85	USC-087 protects Syrian hamsters against lethal challenge with human species C adenoviruses. <i>Antiviral Research</i> , 2018, 153, 1-9.	4.1	19
86	Diketopyrrolopyrrole Bisphosphonate Conjugate: A New Fluorescent Probe for In Vitro Bone Imaging. <i>Chemistry - A European Journal</i> , 2019, 25, 3617-3626.	3.3	19
87	Control of Chiral Ordering in Aggregated Poly{3-(S)-[2-methylbutyl]thiophene} by a Doping-Dedoping Process. <i>Journal of the American Chemical Society</i> , 2003, 125, 7878-7881.	13.7	18
88	Probing DNA Base-Dependent Leaving Group Kinetic Effects on the DNA Polymerase Transition State. <i>Biochemistry</i> , 2018, 57, 3925-3933.	2.5	18
89	Synthesis and biological activation of an ethylene glycol-linked amino acid conjugate of cyclic cidofovir. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 583-586.	2.2	17
90	Complexation of bisphosphonates with ytterbium(III): Application of phosphate and ATP detection assay based on Yb ³⁺ -pyrocatechol violet. <i>Journal of Inorganic Biochemistry</i> , 2009, 103, 1652-1657.	3.5	17

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91	Effect of \hat{I}^2, \hat{I}^3 -CHF- and \hat{I}^2, \hat{I}^3 -CHCl-dGTP Halogen Atom Stereochemistry on the Transition State of DNA Polymerase \hat{I}^2 . <i>Biochemistry</i> , 2012, 51, 8491-8501.	2.5	17
92	Reactions of cyclopropenes with molybdenum(II) and tungsten(II) carbonyl complexes: formation of coordinated vinylketene. <i>Inorganic Chemistry</i> , 1985, 24, 1383-1388.	4.0	16
93	\hat{I}^\pm -Keto phosphonoacetates. <i>Journal of the Chemical Society Chemical Communications</i> , 1989, , 246-247.	2.0	16
94	.alpha.-Halo [(phenylphosphinyl)methyl]phosphonates as specific inhibitors of Na ⁺ -gradient-dependent Na ⁺ -phosphate cotransport across renal brush border membrane. <i>Journal of Medicinal Chemistry</i> , 1992, 35, 4885-4892.	6.4	16
95	Synthesis and Characterization of Novel Fluorescent Nitrogen-Containing Bisphosphonate Imaging Probes for Bone Active Drugs. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2011, 186, 970-971.	1.6	16
96	A Change in the Rate-Determining Step of Polymerization by the K289M DNA Polymerase \hat{I}^2 Cancer-Associated Variant. <i>Biochemistry</i> , 2017, 56, 2096-2105.	2.5	16
97	Synthesis of oligodeoxyribonucleoside phosphorothioates using Lawesson's Reagent for the Sulfur Transfer Step. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002, 12, 1643-1645.	2.2	15
98	Synthesis, transport and antiviral activity of Ala \hat{I}^\pm -Ser and Val \hat{I}^\pm -Ser prodrugs of cidofovir. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 4045-4049.	2.2	15
99	Teriparatide attenuates scarring around murine cranial bone allograft via modulation of angiogenesis. <i>Bone</i> , 2017, 97, 192-200.	2.9	15
100	"Troika Acids": Synthesis, Structure, and Fragmentation Pathways of Novel .alpha.-(Hydroxyimino)phosphonoacetic Acids. <i>Journal of the American Chemical Society</i> , 1995, 117, 7285-7286.	13.7	14
101	Metal complexation chemistry used for phosphate and nucleotide determination: an investigation of the Yb ³⁺ -pyrocatechol violet sensor. <i>Journal of Biological Inorganic Chemistry</i> , 2008, 13, 1291-1299.	2.6	13
102	5 \hat{I}^\pm - \hat{I}^2, \hat{I}^3 -CHF-ATP Diastereomers: Synthesis and Fluorine-Mediated Selective Binding by c-Src Protein Kinase. <i>Organic Letters</i> , 2015, 17, 1624-1627.	4.6	13
103	Remarkably Stereospecific Utilization of ATP \hat{I}^\pm, \hat{I}^2 -Halomethylene Analogues by Protein Kinases. <i>Journal of the American Chemical Society</i> , 2017, 139, 7701-7704.	13.7	13
104	Chemistry of Bisphosphonates. , 2020, , 551-564.		13
105	Design and Synthesis of Cathepsin-K-Activated Osteoadsorptive Fluorogenic Sentinel (OFS) Probes for Detecting Early Osteoclastic Bone Resorption in a Multiple Myeloma Mouse Model. <i>Bioconjugate Chemistry</i> , 2021, 32, 916-927.	3.6	13
106	Oxiranylidene-2,2-bis(phosphonate): Unambiguous Synthesis, Hydrolysis to 1,2-Dihydroxyethylidene-1,1-bis(phosphonate), and Identification as the Primary Product from Mild Na ₂ WO ₄ /H ₂ O ₂ Oxidation of Ethenylidene-1,1-bis(phosphonate). <i>Journal of Organic Chemistry</i> , 1995, 60, 7080-7081.	3.2	12
107	Synthetic Approaches to Biologically Active Bisphosphonates and Phosphonocarboxylates. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1999, 144, 313-316.	1.6	12
108	A new approach to the synthesis of benzylidene derivatives of 1-(\hat{I}^\pm -aminobenzyl)-2-naphthols (Betti) Tj ETQq0 0 0 ggBT/Overlock 10 Tf	1.6	12

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109	Puromycin-sensitive aminopeptidase: An antiviral prodrug activating enzyme. <i>Antiviral Research</i> , 2010, 85, 482-489.	4.1	12
110	Synthesis and HIV-1 Reverse Transcriptase Inhibition Activity of Functionalized Pyrophosphate Analogues. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1993, 76, 139-142.	1.6	11
111	Carbonylbisphosphonate and (diazomethylene)bisphosphonate analogues of AZT 5'-diphosphate. <i>Bioorganic Chemistry</i> , 2002, 30, 383-395.	4.1	11
112	Quantification of foscarnet with chromogenic and fluorogenic chemosensors: indicator displacement assays based on metal ion coordination with a catechol ligand moiety. <i>New Journal of Chemistry</i> , 2011, 35, 2877.	2.8	11
113	Reduction of Fluorinated Cyclopropene by Nitrogenase. <i>Journal of the American Chemical Society</i> , 2013, 135, 10346-10352.	13.7	11
114	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.	2.5	11
115	Farnesyl pyrophosphate synthase enantiospecificity with a chiral risedronate analog, [6,7-dihydro-5H-cyclopenta[c]pyridin-7-yl(hydroxy)methylene]bis(phosphonic acid) (NE-10501): Synthetic, structural, and modeling studies. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 2878-2882.	2.2	10
116	Two Scaffolds from Two Flips: $(\hat{1}, \hat{2})/(\hat{2}, \hat{3})$ CH ₂ /NH Met-Im Analogues of dTTP. <i>Organic Letters</i> , 2015, 17, 2586-2589.	4.6	10
117	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.	2.5	10
118	Bisphosphonates in dentistry: Historical perspectives, adverse effects, and novel applications. <i>Bone</i> , 2021, 147, 115933.	2.9	10
119	Development of Bisphosphonate-Conjugated Antibiotics to Overcome Pharmacodynamic Limitations of Local Therapy: Initial Results with Carbamate Linked Sitafloxacin and Tedizolid. <i>Antibiotics</i> , 2021, 10, 732.	3.7	10
120	Synthesis of a Novel Bisphosphonic Acid Alkene Monomer. <i>Synthetic Communications</i> , 2010, 40, 3577-3584.	2.1	9
121	A Novel Small Molecule Neurotrophin-3 Analogue Promotes Inner Ear Neurite Outgrowth and Synaptogenesis In vitro. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 666706.	3.7	8
122	Anomeric Fatty Acid Functionalization Prevents Nonenzymatic <i>S</i> -Glycosylation by Monosaccharide Metabolic Chemical Reporters. <i>ACS Chemical Biology</i> , 2021, 16, 1924-1929.	3.4	8
123	Unique and independent parameters (UIP) formulation for thermodynamic models of complex protein-ligand systems. <i>Biophysical Chemistry</i> , 1992, 45, 171-179.	2.8	7
124	E-(hydroxyimino)(hydroxymethoxyphosphinyl)acetic acid: Synthesis and pH-dependent fragmentation. <i>Tetrahedron Letters</i> , 1995, 36, 9437-9440.	1.4	7
125	DNA Polymerase β Cancer-Associated Variant I260M Exhibits Nonspecific Selectivity toward the β -Bridging Group of the Incoming dNTP. <i>Biochemistry</i> , 2017, 56, 5449-5456.	2.5	7
126	A convenient apparatus and tracking dye for anaerobic analytical polyacrylamide-gel electrophoresis. <i>Analytical Biochemistry</i> , 1977, 83, 337-345.	2.4	6

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127	$\hat{I}\pm$ -Cl- $\hat{I}\pm$ -Br-phosphonoacetic acid is a potent and selective inhibitor of Na ⁺ /Pi cotransport across renal cortical brush border membrane. <i>Biochemical and Biophysical Research Communications</i> , 1988, 153, 1152-1158.	2.1	6
128	Simple and Conjugate Bifunctional Thiophosphonates: Synthesis and Potential as Anti-Viral Agents. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1993, 74, 469-470.	1.6	6
129	(E/Z) stereoisomer assignment by ¹³ C NMR in trifunctional phosphonate $\hat{I}\pm$ -oximes and $\hat{I}\pm$ -arylhdrazones. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, .	2.0	6
130	Protonation of cyclopropene complexes of platinum(0) and the reduction of cyclopropene by nitrogenases. <i>Inorganica Chimica Acta</i> , 1998, 280, 193-201.	2.4	6
131	Synthesis and stability studies of phosphonoformate $\hat{I}\pm$ amino acid conjugates: a new class of slowly releasing foscarnet prodrugs. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004, 14, 1787-1790.	2.2	6
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