

DuÅ;an HeseK

List of Publications by Year in descending order

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papers

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101384

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g-index

113
all docs

113
docs citations

113
times ranked

4466
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional structure of the bacterial cell wall peptidoglycan. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4404-4409.	3.3	371
2	How allosteric control of <i>Staphylococcus aureus</i> penicillin binding protein 2a enables methicillin resistance and physiological function. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16808-16813.	3.3	235
3	Synthesis and Characterization of Novel Acyclic, Macrocyclic, and Calix[4]arene Ruthenium(II) Bipyridyl Receptor Molecules That Recognize and Sense Anions. Inorganic Chemistry, 1996, 35, 5868-5879.	1.9	175
4	Mechanism of anchoring of OmpA protein to the cell wall peptidoglycan of the gram-negative bacterial outer membrane. FASEB Journal, 2012, 26, 219-228.	0.2	164
5	Desolvation of a Novel Microporous Hydrogen-Bonded Framework: Characterization by In Situ Single-Crystal and Powder X-ray Diffraction. Angewandte Chemie - International Edition, 1998, 37, 3158-3160.	7.2	114
6	Co-opting the Cell Wall in Fighting Methicillin-Resistant <i>Staphylococcus aureus</i> : Potent Inhibition of PBP 2a by Two Anti-MRSA β -Lactam Antibiotics. Journal of the American Chemical Society, 2008, 130, 9212-9213.	6.6	111
7	Reactions of All <i>Escherichia coli</i> Lytic Transglycosylases with Bacterial Cell Wall. Journal of the American Chemical Society, 2013, 135, 3311-3314.	6.6	111
8	Activation for Catalysis of Penicillin-Binding Protein 2a from Methicillin-Resistant <i>Staphylococcus aureus</i> by Bacterial Cell Wall. Journal of the American Chemical Society, 2005, 127, 2056-2057.	6.6	89
9	Structural insights into the bactericidal mechanism of human peptidoglycan recognition proteins. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 8761-8766.	3.3	87
10	Validation of Matrix Metalloproteinase-9 (MMP-9) as a Novel Target for Treatment of Diabetic Foot Ulcers in Humans and Discovery of a Potent and Selective Small-Molecule MMP-9 Inhibitor That Accelerates Healing. Journal of Medicinal Chemistry, 2018, 61, 8825-8837.	2.9	82
11	A Chemical Biological Strategy to Facilitate Diabetic Wound Healing. ACS Chemical Biology, 2014, 9, 105-110.	1.6	75
12	Anion Recognition Properties of New Upper-Rim Cobaltocenium Calix[4]arene Receptors. Organometallics, 1999, 18, 3933-3943.	1.1	73
13	Recognition of peptidoglycan and β -lactam antibiotics by the extracellular domain of the Ser/Thr protein kinase StkP from <i>Streptococcus pneumoniae</i> . FEBS Letters, 2011, 585, 357-363.	1.3	72
14	Anion Recognition by Redox-Responsive Ditopic Bis-Cobaltocenium Receptor Molecules Including a Novel Calix[4]arene Derivative That Binds a Dicarboxylate Dianion. Organometallics, 1995, 14, 3288-3295.	1.1	67
15	A neutral upper to lower rim linked bis-calix[4]arene receptor that recognises anionic guest species. Tetrahedron Letters, 1995, 36, 767-770.	0.7	63
16	Elucidation of the Molecular Recognition of Bacterial Cell Wall by Modular Pneumococcal Phage Endolysin CPL-1. Journal of Biological Chemistry, 2007, 282, 24990-24999.	1.6	61
17	Total Synthesis of <i>N</i> -Acetylglucosamine-1,6-anhydro- <i>N</i> -acetylmuramylpentapeptide and Evaluation of Its Turnover by AmpD from <i>Escherichia coli</i> . Journal of the American Chemical Society, 2009, 131, 5187-5193.	6.6	61
18	Crystal Structures of Penicillin-Binding Protein 6 from <i>Escherichia coli</i> . Journal of the American Chemical Society, 2009, 131, 14345-14354.	6.6	60

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19	Synthetic Peptidoglycan Substrates for Penicillin-Binding Protein 5 of Gram-Negative Bacteria. <i>Journal of Organic Chemistry</i> , 2004, 69, 778-784.	1.7	56
20	Synthetic Peptidoglycan Motifs for Germination of Bacterial Spores. <i>ChemBioChem</i> , 2010, 11, 2525-2529.	1.3	54
21	A Mechanism-Based Inhibitor Targeting the β -Transpeptidase Activity of Bacterial Penicillin-Binding Proteins. <i>Journal of the American Chemical Society</i> , 2003, 125, 16322-16326.	6.6	52
22	Synthesis of a Fragment of Bacterial Cell Wall. <i>Journal of Organic Chemistry</i> , 2004, 69, 2137-2146.	1.7	52
23	Bacterial AmpD at the Crossroads of Peptidoglycan Recycling and Manifestation of Antibiotic Resistance. <i>Journal of the American Chemical Society</i> , 2009, 131, 8742-8743.	6.6	52
24	Diastereoselective Preparation and Characterization of Ruthenium Bis(bipyridine) Sulfoxide Complexes. <i>Inorganic Chemistry</i> , 2000, 39, 317-324.	1.9	51
25	Reactions of the Three AmpD Enzymes of <i>Pseudomonas aeruginosa</i> . <i>Journal of the American Chemical Society</i> , 2013, 135, 4950-4953.	6.6	50
26	From Genome to Proteome to Elucidation of Reactions for All Eleven Known Lytic Transglycosylases from <i>Pseudomonas aeruginosa</i> . <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2735-2739.	7.2	50
27	Crystal Structures of Bacterial Peptidoglycan Amidase AmpD and an Unprecedented Activation Mechanism. <i>Journal of Biological Chemistry</i> , 2011, 286, 31714-31722.	1.6	49
28	Novel Synthetic Routes to Several New, Differentially Substituted Ruthenium Tris(4,4'-disubstituted-2,2'-bipyridine) Complexes. <i>Inorganic Chemistry</i> , 2000, 39, 308-316.	1.9	48
29	Structural and Functional Insights into Peptidoglycan Access for the Lytic Amidase LytA of <i>Streptococcus pneumoniae</i> . <i>MBio</i> , 2014, 5, e01120-13.	1.8	48
30	Three-dimensional QSAR analysis and design of new 1,2,4-oxadiazole antibacterials. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 1011-1015.	1.0	48
31	Active Site Ring-Opening of a Thiirane Moiety and Picomolar Inhibition of Gelatinases. <i>Chemical Biology and Drug Design</i> , 2009, 74, 527-534.	1.5	46
32	Muropeptides in <i>Pseudomonas aeruginosa</i> and their Role as Elicitors of β -Lactam Antibiotic Resistance. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6882-6886.	7.2	43
33	Muropeptide Binding and the X-ray Structure of the Effector Domain of the Transcriptional Regulator AmpR of <i>Pseudomonas aeruginosa</i> . <i>Journal of the American Chemical Society</i> , 2017, 139, 1448-1451.	6.6	42
34	Lytic Transglycosylase MltB of <i>Escherichia coli</i> and Its Role in Recycling of Peptidoglycan Strands of Bacterial Cell Wall. <i>Journal of the American Chemical Society</i> , 2008, 130, 11878-11879.	6.6	41
35	Cell-Wall Remodeling by the Zinc-Protease AmpDh3 from <i>Pseudomonas aeruginosa</i> . <i>Journal of the American Chemical Society</i> , 2013, 135, 12604-12607.	6.6	41
36	Structure and Cell Wall Cleavage by Modular Lytic Transglycosylase MltC of <i>Escherichia coli</i> . <i>ACS Chemical Biology</i> , 2014, 9, 2058-2066.	1.6	41

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37	Structural Analysis of the Role of <i>Pseudomonas aeruginosa</i> Penicillin-Binding Protein 5 in β -Lactam Resistance. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 3137-3146.	1.4	40
38	Reaction Products and the X-ray Structure of AmpDh2, a Virulence Determinant of <i>Pseudomonas aeruginosa</i> . <i>Journal of the American Chemical Society</i> , 2013, 135, 10318-10321.	6.6	38
39	Lytic transglycosylases LtgA and LtgD perform distinct roles in remodeling, recycling and releasing peptidoglycan in <i>Neisseria gonorrhoeae</i> . <i>Molecular Microbiology</i> , 2016, 102, 865-881.	1.2	38
40	Complications from Dual Roles of Sodium Hydride as a Base and as a Reducing Agent. <i>Journal of Organic Chemistry</i> , 2009, 74, 2567-2570.	1.7	37
41	Inhibitors for Bacterial Cell-Wall Recycling. <i>ACS Medicinal Chemistry Letters</i> , 2012, 3, 238-242.	1.3	36
42	Mechanistic Basis for the Action of New Cephalosporin Antibiotics Effective against Methicillin- and Vancomycin-resistant <i>Staphylococcus aureus</i> . <i>Journal of Biological Chemistry</i> , 2006, 281, 10035-10041.	1.6	35
43	Structure-Activity Relationship for Thiirane-Based Gelatinase Inhibitors. <i>ACS Medicinal Chemistry Letters</i> , 2012, 3, 490-495.	1.3	34
44	The Cell Shape-determining Csd6 Protein from <i>Helicobacter pylori</i> Constitutes a New Family of L,d-Carboxypeptidase. <i>Journal of Biological Chemistry</i> , 2015, 290, 25103-25117.	1.6	34
45	A Potent Gelatinase Inhibitor with Anti-Tumor Invasive Activity and its Metabolic Disposition. <i>Chemical Biology and Drug Design</i> , 2009, 73, 189-202.	1.5	33
46	Thermodynamics of Interactions of Vancomycin and Synthetic Surrogates of Bacterial Cell Wall. <i>Journal of the American Chemical Society</i> , 2006, 128, 7736-7737.	6.6	32
47	Catalytic Spectrum of the Penicillin-Binding Protein 4 of <i>Pseudomonas aeruginosa</i> , a Nexus for the Induction of β -Lactam Antibiotic Resistance. <i>Journal of the American Chemical Society</i> , 2015, 137, 190-200.	6.6	32
48	Exolytic and endolytic turnover of peptidoglycan by lytic transglycosylase Slt of <i>Pseudomonas aeruginosa</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4393-4398.	3.3	31
49	A Practical Synthesis of Nitrocefin. <i>Journal of Organic Chemistry</i> , 2005, 70, 367-369.	1.7	30
50	Substrate recognition and catalysis by LytB, a pneumococcal peptidoglycan hydrolase involved in virulence. <i>Scientific Reports</i> , 2015, 5, 16198.	1.6	30
51	Acid-Promoted Rearrangement of Carbonate Functionality Anchored to the Lower Rim of a Calix[4]arene Skeleton: A New Class of Chiral Calix[4]arene and Its Chiroptical Properties. <i>Organic Letters</i> , 2000, 2, 2237-2240.	2.4	29
52	Allostery, Recognition of Nascent Peptidoglycan, and Cross-linking of the Cell Wall by the Essential Penicillin-Binding Protein 2x of <i>Streptococcus pneumoniae</i> . <i>ACS Chemical Biology</i> , 2018, 13, 694-702.	1.6	29
53	Structural basis of denuded glycan recognition by SPOR domains in bacterial cell division. <i>Nature Communications</i> , 2019, 10, 5567.	5.8	29
54	The first asymmetric synthesis of chiral ruthenium tris(bipyridine) from racemic ruthenium bis(bipyridine) complexes. <i>Tetrahedron Letters</i> , 2000, 41, 2617-2620.	0.7	28

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55	Design and Characterization of a Metalloproteinase Inhibitor-Tethered Resin for the Detection of Active MMPs in Biological Samples. <i>Chemistry and Biology</i> , 2006, 13, 379-386.	6.2	28
56	Catalytic Cycle of the <i>N</i> -Acetylglucosaminidase NagZ from <i>Pseudomonas aeruginosa</i> . <i>Journal of the American Chemical Society</i> , 2017, 139, 6795-6798.	6.6	28
57	Activation by Allostery in Cell-Wall Remodeling by a Modular Membrane-Bound Lytic Transglycosylase from <i>Pseudomonas aeruginosa</i> . <i>Structure</i> , 2016, 24, 1729-1741.	1.6	27
58	Synthesis of an Inhibitor-Tethered Resin for Detection of Active Matrix Metalloproteinases Involved in Disease. <i>Journal of Organic Chemistry</i> , 2006, 71, 5848-5854.	1.7	26
59	Amidase Activity of AmiC Controls Cell Separation and Stem Peptide Release and Is Enhanced by NlpD in <i>Neisseria gonorrhoeae</i> . <i>Journal of Biological Chemistry</i> , 2016, 291, 10916-10933.	1.6	26
60	Structural, CV and IR Spectroscopic Evidences for Preorientation in PET-Active Phthalimido Carboxylic Acids. <i>Organic Letters</i> , 2001, 3, 1593-1596.	2.4	25
61	Lysine N ^ε -Decarboxylation Switch and Activation of the β -Lactam Sensor Domain of BlaR1 Protein of Methicillin-resistant <i>Staphylococcus aureus</i> *. <i>Journal of Biological Chemistry</i> , 2011, 286, 31466-31472.	1.6	25
62	A type VI secretion system delivers a cell wall amidase to target bacterial competitors. <i>Molecular Microbiology</i> , 2020, 114, 308-321.	1.2	25
63	Design and Synthesis of a Structurally Constrained Aminoglycoside. <i>Journal of Organic Chemistry</i> , 2007, 72, 5450-5453.	1.7	22
64	The external PASTA domain of the essential serine/threonine protein kinase PknB regulates mycobacterial growth. <i>Open Biology</i> , 2015, 5, 150025.	1.5	22
65	Structure of Csd3 from <i>Helicobacter pylori</i> , a cell shape-determining metallopeptidase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 675-686.	2.5	21
66	High yield preparation of a novel tetrakis[ruthenium tris(bipyridine)]calix[6]arene derivative with good diastereomeric purity. <i>Tetrahedron: Asymmetry</i> , 1998, 9, 4089-4097.	1.8	20
67	Structural basis for the recognition of muramyltripeptide by <i>Helicobacter pylori</i> Csd4, a D,L-carboxypeptidase controlling the helical cell shape. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 2800-2812.	2.5	20
68	Water-Soluble MMP-9 Inhibitor Reduces Lesion Volume after Severe Traumatic Brain Injury. <i>ACS Chemical Neuroscience</i> , 2015, 6, 1658-1664.	1.7	20
69	Use of Silver Carbonate in the Wittig Reaction. <i>Journal of Organic Chemistry</i> , 2013, 78, 12224-12228.	1.7	19
70	Photochromic Atropisomer Generation and Conformation Determination in a Ruthenium Bis(bipyridine) Phosphonite β -Cyclodextrin System. <i>Journal of the American Chemical Society</i> , 2001, 123, 12232-12237.	6.6	18
71	Regioselective Control of the <i>S</i> _N Ar Amination of 5-Substituted-2,4-Dichloropyrimidines Using Tertiary Amine Nucleophiles. <i>Journal of Organic Chemistry</i> , 2015, 80, 7757-7763.	1.7	18
72	Potential of the activity of β -lactam antibiotics by farnesol and its derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 642-645.	1.0	18

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73	Selective MMP-9 Inhibitor (<i>R</i>)-ND-336 Alone or in Combination with Linezolid Accelerates Wound Healing in Infected Diabetic Mice. ACS Pharmacology and Translational Science, 2021, 4, 107-117.	2.5	17
74	Structural Basis of the Heterodimer Formation between Cell Shape-Determining Proteins Csd1 and Csd2 from Helicobacter pylori. PLoS ONE, 2016, 11, e0164243.	1.1	17
75	Turnover of Bacterial Cell Wall by SltB3, a Multidomain Lytic Transglycosylase of <i>Pseudomonas aeruginosa</i>. ACS Chemical Biology, 2016, 11, 1525-1531.	1.6	16
76	Regiospecific Syntheses of 6Î±-(1R-Hydroxyoctyl)penicillanic Acid and 6Î²-(1R-Hydroxyoctyl)penicillanic Acid as Mechanistic Probes of Class D Î²-Lactamases. Organic Letters, 2009, 11, 2515-2518.	2.4	15
77	Hyperbaric oxygen therapy accelerates wound healing in diabetic mice by decreasing active matrix metalloproteinase-9. Wound Repair and Regeneration, 2020, 28, 194-201.	1.5	15
78	Conformational Switching in the Thermal and Photochemical Synthesis of cis- and trans-Ruthenium Bis(bipyridine) Sulfoxide Complexes. Chemistry Letters, 1999, 28, 109-110.	0.7	14
79	Atropisomer and Diastereomer Generation and Control in Ruthenium Bis(bipyridine) Phosphonite Complexes. Journal of the American Chemical Society, 2000, 122, 10236-10237.	6.6	14
80	The crystal structure of the major pneumococcal autolysin LytA in complex with a large peptidoglycan fragment reveals the pivotal role of glycans for lytic activity. Molecular Microbiology, 2016, 101, 954-967.	1.2	14
81	Peptidoglycan reshaping by a noncanonical peptidase for helical cell shape in Campylobacter jejuni. Nature Communications, 2020, 11, 458.	5.8	14
82	Ligand Selective Monosubstitution with Complete Enantiomeric Retention in Ruthenium Bis(bipyridine) Complexes. Inorganic Chemistry, 2001, 40, 2478-2479.	1.9	13
83	Synthesis, Kinetic Characterization and Metabolism of Diastereomeric 2-((4-(Phenoxyphenylsulfonyl)ethyl)thiiran-2-yl)ethanes as Potent Gelatinase and MT1-MMP Inhibitors. Chemical Biology and Drug Design, 2009, 74, 535-546.	1.5	13
84	Sulfonylation-Induced N-to O-Acetyl Migration in 2-Acetamidoethanol Derivatives. Journal of Organic Chemistry, 2010, 75, 3515-3517.	1.7	12
85	Synthesis and NMR Characterization of (<i>Z</i>,<i>Z</i>,<i>Z</i>,<i>Z</i>,<i>E</i>,<i>E</i>)-Heptaprenol. Journal of the American Chemical Society, 2012, 134, 13881-13888.	6.6	12
86	Deciphering the Nature of Enzymatic Modifications of Bacterial Cell Walls. ChemBioChem, 2017, 18, 1696-1702.	1.3	12
87	New [f]-Fused Theophyllines via Intramolecular Nucleophilic Addition of Alkyl (E)-4-[(8-Substituted)theophyllin-7-yl]-2-butenolate. Synthesis, 1991, 1991, 625-628.	1.2	11
88	Expression of active matrix metalloproteinase-9 as a likely contributor to the clinical failure of acclerastide in treatment of diabetic foot ulcers. European Journal of Pharmacology, 2018, 834, 77-83.	1.7	11
89	Catalytic Cycle of Glycoside Hydrolase BglX from <i>Pseudomonas aeruginosa</i> and Its Implications for Biofilm Formation. ACS Chemical Biology, 2020, 15, 189-196.	1.6	11
90	The Natural Product Essramycin and Three of Its Isomers Are Devoid of Antibacterial Activity. Journal of Natural Products, 2016, 79, 1219-1222.	1.5	9

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91	Conformational analyses of thiirane-based gelatinase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 3064-3067.	1.0	8
92	A new method of preparation of β -amino derivatives of furan. <i>Collection of Czechoslovak Chemical Communications</i> , 1979, 44, 3301-3307.	1.0	7
93	The conversion of 5-nitrofurfuryl derivatives into 5-aminofurfurylidene malonodinitrile. <i>Collection of Czechoslovak Chemical Communications</i> , 1980, 45, 752-754.	1.0	7
94	1,3-Dipolar cycloaddition reactions of 7-alkenyl- or 7-alkynyl-8-azidomethyltheophyllines. <i>Collection of Czechoslovak Chemical Communications</i> , 1988, 53, 319-328.	1.0	6
95	Synthesis, coordination and redox properties of a novel tetrathiafulvalene tetra(benzo-15-crown-5)ether ligand. <i>Polyhedron</i> , 1995, 14, 1327-1332.	1.0	6
96	Opening of the furan ring in 5-azido-2-furaldehyde. <i>Collection of Czechoslovak Chemical Communications</i> , 1980, 45, 150-154.	1.0	5
97	Synthetic Efforts in Preparations of Components of the Bacterial Cell Wall. <i>ACS Symposium Series</i> , 2008, , 54-78.	0.5	5
98	Facile Preparation of a Highly Functionalized Tetrahydropyran by Catalytic Hydrogenation of an Oxazoline. <i>Journal of Organic Chemistry</i> , 2008, 73, 7349-7352.	1.7	5
99	From Genome to Proteome to Elucidation of Reactions for All Eleven Known Lytic Transglycosylases from <i>Pseudomonas aeruginosa</i> . <i>Angewandte Chemie</i> , 2017, 129, 2779-2783.	1.6	5
100	Synthesis and shift-reagent-assisted full NMR assignment of bacterial (Z,E)-undecaprenol. <i>Chemical Communications</i> , 2017, 53, 12774-12777.	2.2	5
101	3,7-Dialkyl-8-alkyl- or -aryl-3,7-dihydropurine-2,6-diones. <i>Collection of Czechoslovak Chemical Communications</i> , 1990, 55, 2257-2269.	1.0	4
102	Acid catalysed condensation reactions of 1,3-dihydroxybenzene with new redox-active metallocene aldehydes. <i>Journal of Organometallic Chemistry</i> , 1996, 511, 207-215.	0.8	4
103	Side Reaction of Significance in Preparation of Peptide- or Peptidomimetic-Based Hydroxamate Enzyme Inhibitors. <i>Journal of Organic Chemistry</i> , 2006, 71, 2885-2887.	1.7	3
104	Muropeptides in <i>Pseudomonas aeruginosa</i> and their Role as Elicitors of β -Lactamase Antibiotic Resistance. <i>Angewandte Chemie</i> , 2016, 128, 6996-7000.	1.6	3
105	Turnover Chemistry and Structural Characterization of the Cj0843c Lytic Transglycosylase of <i>Campylobacter jejuni</i> . <i>Biochemistry</i> , 2021, 60, 1133-1144.	1.2	3
106	The Formation of Spiro-bridged Dimers of Cyclooctane-1,2-dicarbonyl Compounds via Domino Aldol-Cycloalkylation. <i>Heterocycles</i> , 2002, 57, 741.	0.4	2
107	Key side products due to reactivity of dimethylmaleoyl moiety as amine protective group. <i>Chemical Papers</i> , 2009, 63, 592-597.	1.0	2
108	Integrative structural biology of the penicillin-binding protein-1 from <i>Staphylococcus aureus</i> , an essential component of the divisome machinery. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 5392-5405.	1.9	2

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109	Synthesis of New [1,3]Diazaheterocyclo[2',1':2,3][1,3,5]thiadiazino[4,5-f]purine Ring Systems. Collection of Czechoslovak Chemical Communications, 1996, 61, 1642-1646.	1.0	1
110	Controlled Specific Ligand Substitution and Chiroptical Properties of Ruthenium Bis(bipyridine) Nitrosoarene Complexes. Bulletin of the Chemical Society of Japan, 2002, 75, 335-338.	2.0	1
111	Enantiomers of a selective gelatinase inhibitor: (R)- and (S)-2-[(4-phenoxyphenyl)sulfonylmethyl]thiirane. Acta Crystallographica Section C, Structural Chemistry, 2014, 70, 1003-1006.	0.2	1
112	Ensemble of Pinanones from the Permanganate Oxidation of Myrtenal. Journal of Organic Chemistry, 2016, 81, 5705-5709.	1.7	1
113	Turnover chemistry and structural characterization of the Cj0843c lytic transglycosylase of Campylobacter jejuni. FASEB Journal, 2021, 35, .	0.2	0