

Associaçãoprofã€dr Peter J Rutledge

List of Publications by Year in descending order

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86
papers

3,179
citations

236833

25
h-index

161767

54
g-index

98
all docs

98
docs citations

98
times ranked

4450
citing authors

#	ARTICLE	IF	CITATIONS
1	Discovery of microbial natural products by activation of silent biosynthetic gene clusters. <i>Nature Reviews Microbiology</i> , 2015, 13, 509-523.	13.6	762
2	Chemical sensors that incorporate click-derived triazoles. <i>Chemical Society Reviews</i> , 2011, 40, 2848.	18.7	366
3	Metal complexes as a promising source for new antibiotics. <i>Chemical Science</i> , 2020, 11, 2627-2639.	3.7	290
4	The reaction cycle of isopenicillin N synthase observed by X-ray diffraction. <i>Nature</i> , 1999, 401, 721-724.	13.7	212
5	Combined dual-absorption and fluorescence smartphone spectrometers. <i>Optics Letters</i> , 2015, 40, 1737.	1.7	94
6	Lab-in-a-Phone: Smartphone-Based Portable Fluorometer for pH Measurements of Environmental Water. <i>IEEE Sensors Journal</i> , 2015, 15, 5095-5102.	2.4	86
7	A Click Fluorophore Sensor that Can Distinguish Cu ^{II} and Hg ^{II} via Selective Anion-Induced Demetallation. <i>Chemistry - A European Journal</i> , 2011, 17, 2850-2858.	1.7	65
8	Recent Advances in Macrocyclic Fluorescent Probes for Ion Sensing. <i>Molecules</i> , 2017, 22, 200.	1.7	54
9	Inhibition Studies of <i>Mycobacterium tuberculosis</i> Salicylate Synthase (MbtI). <i>ChemMedChem</i> , 2010, 5, 1067-1079.	1.6	50
10	Alternative oxidation by isopenicillin N synthase observed by X-ray diffraction. <i>Chemistry and Biology</i> , 2001, 8, 1231-1237.	6.2	47
11	Nontoxic Metal-Cyclam Complexes, a New Class of Compounds with Potency against Drug-Resistant <i>Mycobacterium tuberculosis</i> . <i>Journal of Medicinal Chemistry</i> , 2016, 59, 5917-5921.	2.9	42
12	Reversing the Triazole Topology in a Cyclam-Triazole-Dye Ligand Gives a 10-Fold Brighter Signal Response to Zn ²⁺ in Aqueous Solution. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 5611-5615.	1.0	41
13	Structural Studies on the Reaction of Isopenicillin N Synthase with the Truncated Substrate Analogues γ -(L- α -aminoadipoyl)-L-cysteinyl-glycine and γ -(L- α -aminoadipoyl)-L-cysteinyl-d-alanine. <i>Biochemistry</i> , 2005, 44, 6619-6628.	1.2	39
14	Recently Discovered Secondary Metabolites from <i>Streptomyces</i> Species. <i>Molecules</i> , 2022, 27, 887.	1.7	37
15	Isopenicillin N Synthase Mediates Thiolate Oxidation to Sulfenate in a Depsipeptide Substrate Analogue: Implications for Oxygen Binding and a Link to Nitrile Hydratase?. <i>Journal of the American Chemical Society</i> , 2008, 130, 10096-10102.	6.6	35
16	Copper, Nickel, and Zinc Cyclam-Amino Acid and Cyclam-Peptide Complexes May Be Synthesized with Click-Chemistry and Are Noncytotoxic. <i>Inorganic Chemistry</i> , 2011, 50, 12823-12835.	1.9	35
17	Structural studies on the reaction of isopenicillin N synthase with the substrate analogue δ -(L- α -aminoadipoyl)-L-cysteinyl-d- α -aminobutyrate. <i>Biochemical Journal</i> , 2003, 372, 687-693.	1.7	34
18	Crystallographic studies on the reaction of isopenicillin N synthase with an unsaturated substrate analogue. <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 1455-1460.	1.5	33

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19	Antitubercular Bis-Substituted Cyclam Derivatives: Structure-Activity Relationships and in Vivo Studies. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 3595-3608.	2.9	33
20	Interactions of Isopenicillin N Synthase with Cyclopropyl-Containing Substrate Analogues Reveal New Mechanistic Insight. <i>Biochemistry</i> , 2007, 46, 4755-4762.	1.2	31
21	Early warning smartphone diagnostics for water security and analysis using real-time pH mapping. <i>Photonic Sensors</i> , 2015, 5, 289-297.	2.5	29
22	Total synthesis of a novel 2-thiabicyclo[3.2.0]heptan-6-one analogue of penicillin N. <i>Tetrahedron</i> , 2003, 59, 8233-8243.	1.0	27
23	Efficient deprotection of <i>F</i> -BODIPY derivatives: removal of BF ₂ using Brønsted acids. <i>Beilstein Journal of Organic Chemistry</i> , 2015, 11, 37-41.	1.3	26
24	Time-resolved and temperature tuneable measurements of fluorescent intensity using a smartphone fluorimeter. <i>Analyst</i> , 2017, 142, 1953-1961.	1.7	26
25	Active-site-mediated elimination of hydrogen fluoride from a fluorinated substrate analogue by isopenicillin N synthase. <i>Biochemical Journal</i> , 2004, 382, 659-666.	1.7	25
26	A Fluorescent Allosteric Scorpionand-Complex Visualizes a Biological Recognition Event. <i>ChemBioChem</i> , 2013, 14, 224-229.	1.3	24
27	Unexpected Oxidation of a Depsipeptide Substrate Analogue in Crystalline Isopenicillin N Synthase. <i>ChemBioChem</i> , 2006, 7, 351-358.	1.3	22
28	Easy-To-Synthesize Spirocyclic Compounds Possess Remarkable in Vivo Activity against <i>Mycobacterium tuberculosis</i> . <i>Journal of Medicinal Chemistry</i> , 2018, 61, 11327-11340.	2.9	22
29	Nanangenines: drimane sesquiterpenoids as the dominant metabolite cohort of a novel Australian fungus, <i>Aspergillus nanangensis</i> . <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 2631-2643.	1.3	22
30	A device for the high-pressure oxygenation of protein crystals. <i>Analytical Biochemistry</i> , 2002, 308, 265-268.	1.1	21
31	Unique binding of a non-natural L,L-substrate by isopenicillin N synthase. <i>Biochemical and Biophysical Research Communications</i> , 2005, 336, 702-708.	1.0	21
32	A Cyclobutanone Analogue Mimics Penicillin in Binding to Isopenicillin N Synthase. <i>ChemBioChem</i> , 2007, 8, 2003-2007.	1.3	21
33	Boronated phosphonium salts containing arylboronic acid, closo-carborane, or nido-carborane: synthesis, X-ray diffraction, in vitro cytotoxicity, and cellular uptake. <i>Journal of Biological Inorganic Chemistry</i> , 2010, 15, 1305-1318.	1.1	21
34	Neuroprotective peptide-macrocycle conjugates reveal complex structure-activity relationships in their interactions with amyloid β . <i>Metallomics</i> , 2014, 6, 1931-1940.	1.0	20
35	Structural Studies on the Reaction of Isopenicillin N Synthase with a Sterically Demanding Depsipeptide Substrate Analogue. <i>ChemBioChem</i> , 2009, 10, 2025-2031.	1.3	19
36	Investigating the oxidation of alkenes by non-heme iron enzyme mimics. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 7372.	1.5	19

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37	Diketoacid Inhibitors of HIV-1 Integrase: From L-708,906 to Raltegravir and Beyond. <i>Current Medicinal Chemistry</i> , 2012, 19, 1177-1192.	1.2	18
38	l-Proline-derived ligands to mimic the α -His-1-carboxylate TM triad of the non-haem iron oxidase active site. <i>Tetrahedron</i> , 2012, 68, 3231-3236.	1.0	18
39	Synthesis and Evaluation of 1,8-Disubstituted Cyclam/Naphthalimide Conjugates as Probes for Metal Ions. <i>ChemistryOpen</i> , 2016, 5, 375-385.	0.9	18
40	Cyclobutanone Analogues of β -Lactam Antibiotics: β -Lactamase Inhibitors with Untapped Potential?. <i>ChemBioChem</i> , 2017, 18, 338-351.	1.3	17
41	pH-Responsive quantum dots (RQDs) that combine a fluorescent nanoparticle with a pH-sensitive dye. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 25255-25257.	1.3	16
42	Synthesis and structural characterisation of amides from picolinic acid and pyridine-2,6-dicarboxylic acid. <i>Scientific Reports</i> , 2015, 5, 9950.	1.6	16
43	Synthesis, carbohydrate- and DNA-binding studies of cationic 2,2':6''-2,2''-terpyridineplatinum(ii) complexes containing N- and S-donor boronic acid ligands. <i>Dalton Transactions</i> , 2011, 40, 506-513.	1.6	15
44	Mercury binding by ferrocenoyl peptides with sulfur-containing side chains: Electrochemical, spectroscopic and structural studies. <i>Journal of Organometallic Chemistry</i> , 2008, 693, 2869-2876.	0.8	14
45	Terminally Truncated Isopenicillin N Synthase Generates a Dithioester Product: Evidence for a Thioaldehyde Intermediate during Catalysis and a New Mode of Reaction for Non-heme Iron Oxidases. <i>Chemistry - A European Journal</i> , 2017, 23, 12815-12824.	1.7	14
46	Substrate range and enantioselectivity of epoxidation reactions mediated by the ethene-oxidising <i>Mycobacterium</i> strain NBB4. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 1131-1140.	1.7	13
47	Synthesis and electrochemical studies of disubstituted ferrocene/dipeptide conjugates with sulfur-containing side chains. <i>Tetrahedron</i> , 2010, 66, 5653-5659.	1.0	12
48	Design and synthesis of a tetradentate α -3-amine-1-carboxylate TM ligand to mimic the metal binding environment at the non-heme iron(ii) oxidase active site. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 1666.	1.5	12
49	Incorporation of Bulky and Cationic Cyclam-Triazole Moieties into Marimastat Can Generate Potent MMP Inhibitory Activity without Inducing Cytotoxicity. <i>ChemistryOpen</i> , 2013, 2, 99-105.	0.9	12
50	Bend and twist intramolecular charge transfer and emission for selective metal ion sensing. <i>Optical Materials Express</i> , 2015, 5, 2675.	1.6	12
51	Chemistry in the Time of COVID-19: Reflections on a Very Unusual Semester. <i>Journal of Chemical Education</i> , 2020, 97, 2928-2934.	1.1	12
52	Using Click Chemistry to Tune the Properties and the Fluorescence Response Mechanism of Structurally Similar Probes for Metal Ions. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 58-66.	1.0	11
53	Molecular Switches for any pH: A Systematic Study of the Versatile Coordination Behaviour of Cyclam Scorpionands. <i>Chemistry - A European Journal</i> , 2018, 24, 1573-1585.	1.7	11
54	Incorporating a Piperidinyl Group in the Fluorophore Extends the Fluorescence Lifetime of Click-Derived Cyclam-Naphthalimide Conjugates. <i>PLoS ONE</i> , 2014, 9, e100761.	1.1	11

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55	Bengamides display potent activity against drug-resistant Mycobacterium tuberculosis. Scientific Reports, 2019, 9, 14396.	1.6	10
56	Design and synthesis of an isopenicillin N synthase mimic. Tetrahedron, 2005, 61, 137-143.	1.0	9
57	Polyamide-Scorpion Cyclam Lexitropsins Selectively Bind AT-Rich DNA Independently of the Nature of the Coordinated Metal. PLoS ONE, 2011, 6, e17446.	1.1	9
58	Crystallographic studies on the binding of selectively deuterated LLD- and LLL-substrate epimers by isopenicillin N synthase. Biochemical and Biophysical Research Communications, 2010, 398, 659-664.	1.0	8
59	The crystal structure of isopenicillin N synthase with $\hat{\gamma}$ -(L- $\hat{\alpha}$ -aminoadipoyl)-L-cysteinyl-D-methionine reveals thioether coordination to iron. Archives of Biochemistry and Biophysics, 2011, 516, 103-107.	1.4	8
60	Isopenicillin N Synthase Binds $\hat{\gamma}$ -(L- $\hat{\alpha}$ -Aminoadipoyl)-L-Cysteinyl-D-Thioalloisoleucine through both Sulfur Atoms. ChemBioChem, 2011, 12, 1881-1885.		8
61	A direct method for the <i>N</i> -tetraalkylation of azamacrocycles. Beilstein Journal of Organic Chemistry, 2016, 12, 2457-2461.	1.3	8
62	Conglobatins B $\hat{\alpha}$ E: cytotoxic analogues of the C2-symmetric macrodiolide conglobatin. Journal of Antibiotics, 2020, 73, 756-765.	1.0	8
63	Isopenicillin N Synthase: Crystallographic Studies. ChemBioChem, 2021, 22, 1687-1705.	1.3	8
64	Isopenicillin N Synthase. 2-Oxoglutarate-Dependent Oxygenases, 2015, , 414-424.	0.8	8
65	The crystal structure of an <i>lll</i> -configured depsipeptide substrate analogue bound to isopenicillin N synthase. Organic and Biomolecular Chemistry, 2010, 8, 122-127.	1.5	7
66	Synthesis, electrochemistry and metal binding properties of monosubstituted ferrocenoyl peptides with thioether-containing sidechains. Journal of Organometallic Chemistry, 2011, 696, 715-721.	0.8	7
67	L-Proline derived mimics of the non-haem iron active site catalyse allylic oxidation in acetonitrile solutions. Tetrahedron Letters, 2013, 54, 1236-1238.	0.7	7
68	Bio-Inspired Nitrile Hydration by Peptidic Ligands Based on L-Cysteine, L-Methionine or L-Penicillamine and Pyridine-2,6-dicarboxylic Acid. Molecules, 2014, 19, 20751-20767.	1.7	7
69	cis-Dihydroxylation of Alkenes by a Non-Heme Iron Enzyme Mimic. Synlett, 2008, 2008, 2172-2174.	1.0	6
70	The crystal structure of isopenicillin N synthase with a dipeptide substrate analogue. Archives of Biochemistry and Biophysics, 2013, 530, 48-53.	1.4	6
71	The crystal structure of an isopenicillin N synthase complex with an ethereal substrate analogue reveals water in the oxygen binding site. FEBS Letters, 2013, 587, 2705-2709.	1.3	6
72	Contrasting fates for 6- $\hat{\alpha}$ -methylpenicillin N upon oxidation by deacetoxycephalosporin C synthase (DAOCS) and deacetoxy/deacetylcephalosporin C synthase (DAOC/DACS). Bioorganic and Medicinal Chemistry Letters, 2001, 11, 2511-2514.	1.0	5

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73	The Interaction of Isopenicillin N Synthase with Homologated Substrate Analogues γ -Aminoacyl-homocysteinyld-Xaa Characterised by Protein Crystallography. ChemBioChem, 2013, 14, 599-606.		5
74	Centralised and portable network forensics; using smartphone-based diagnostics: Case study; The mapping of tap water pH across Sydney, Australia. , 2014, , .		4
75	Iron complexes of tetramine ligands catalyse allylic hydroxyamination via a nitroso-ene mechanism. Beilstein Journal of Organic Chemistry, 2015, 11, 2549-2556.	1.3	4
76	Selective Displacement of a Scorpion and Triazole Ligand from Metallocyclam Complexes Visualised with NMR Spectroscopy. European Journal of Inorganic Chemistry, 2017, 2017, 1075-1086.	1.0	4
77	<i>tele</i> -Substitution Reactions in the Synthesis of a Promising Class of 1,2,4-Triazolo[4,3- <i>a</i>]pyrazine-Based Antimalarials. Journal of Organic Chemistry, 2020, 85, 13438-13452.	1.7	4
78	Temperature Controlled Portable Smartphone Fluorimeter. , 2016, , .		4
79	The properties and performance of a pH-responsive functionalised nanoparticle. Faraday Discussions, 2014, 175, 171-187.	1.6	3
80	Yeppoonic acids A-D: 1,2,4-trisubstituted arene carboxylic acid co-metabolites of conglobatin from an Australian Streptomyces sp.. Journal of Antibiotics, 2022, 75, 108-112.	1.0	3
81	<i>tert</i> -Butyldimethylsilanol hemihydrate. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, o1174-o1174.	0.2	1
82	Absorption and fluorescence spectroscopy on a smartphone. , 2015, , .		1
83	A Treasure Hunt for Chemistry. Journal of Chemical Education, 2011, 88, 437-439.	1.1	0
84	(2S,4S)-3-Benzoyl-4-benzyl-2-tert-butyl-1,3-oxazolidin-5-one. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, o2747-o2747.	0.2	0
85	Fluorescent measurements of Zn ²⁺ on a smartphone. , 2015, , .		0
86	Copper(II) complexes of <i>N</i> -propargyl cyclam ligands reveal a range of coordination modes and colours, and unexpected reactivity. Dalton Transactions, 2021, 50, 3931-3942.	1.6	0