

Associaçãoprofã€dr Peter J Rutledge

List of Publications by Year in descending order

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86
papers

3,179
citations

236925

25
h-index

161849

54
g-index

98
all docs

98
docs citations

98
times ranked

4450
citing authors

#	ARTICLE	IF	CITATIONS
1	Recently Discovered Secondary Metabolites from Streptomyces Species. <i>Molecules</i> , 2022, 27, 887.	3.8	37
2	Yeppoonic acids A–D: 1,2,4-trisubstituted arene carboxylic acid co-metabolites of conglobatin from an Australian Streptomyces sp.. <i>Journal of Antibiotics</i> , 2022, 75, 108-112.	2.0	3
3	Copper(II) complexes of N-propargyl cyclam ligands reveal a range of coordination modes and colours, and unexpected reactivity. <i>Dalton Transactions</i> , 2021, 50, 3931-3942.	3.3	0
4	Isopenicillin N Synthase: Crystallographic Studies. <i>ChemBioChem</i> , 2021, 22, 1687-1705.	2.6	8
5	tele-Substitution Reactions in the Synthesis of a Promising Class of 1,2,4-Triazolo[4,3-a]pyrazine-Based Antimalarials. <i>Journal of Organic Chemistry</i> , 2020, 85, 13438-13452.	3.2	4
6	Chemistry in the Time of COVID-19: Reflections on a Very Unusual Semester. <i>Journal of Chemical Education</i> , 2020, 97, 2928-2934.	2.3	12
7	Conglobatins E: cytotoxic analogues of the C2-symmetric macrodiolide conglobatin. <i>Journal of Antibiotics</i> , 2020, 73, 756-765.	2.0	8
8	Metal complexes as a promising source for new antibiotics. <i>Chemical Science</i> , 2020, 11, 2627-2639.	7.4	290
9	Bengamides display potent activity against drug-resistant Mycobacterium tuberculosis. <i>Scientific Reports</i> , 2019, 9, 14396.	3.3	10
10	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.	2.2	22
11	Antitubercular Bis-Substituted Cyclam Derivatives: Structure–Activity Relationships and in Vivo Studies. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 3595-3608.	6.4	33
12	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.	3.3	11
13	Easy-To-Synthesize Spirocyclic Compounds Possess Remarkable in Vivo Activity against Mycobacterium tuberculosis. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 11327-11340.	6.4	22
14	Selective Displacement of a Scorpionand Triazole Ligand from Metallocyclam Complexes Visualised with NMR Spectroscopy. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 1075-1086.	2.0	4
15	Time-resolved and temperature tuneable measurements of fluorescent intensity using a smartphone fluorimeter. <i>Analyst</i> , 2017, 142, 1953-1961.	3.5	26
16	Cyclobutanone Analogues of β -Lactam Antibiotics: β -Lactamase Inhibitors with Untapped Potential?. <i>ChemBioChem</i> , 2017, 18, 338-351.	2.6	17
17	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.	3.3	14
18	Recent Advances in Macrocyclic Fluorescent Probes for Ion Sensing. <i>Molecules</i> , 2017, 22, 200.	3.8	54

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19	A direct method for the <i>N</i> -tetraalkylation of azamacrocycles. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 2457-2461.	2.2	8
20	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.	6.4	42
21	Synthesis and Evaluation of 1,8-Disubstituted Cyclam/Naphthalimide Conjugates as Probes for Metal Ions. <i>ChemistryOpen</i> , 2016, 5, 375-385.	1.9	18
22	Temperature Controlled Portable Smartphone Fluorimeter. , 2016, , .		4
23	Bend and twist intramolecular charge transfer and emission for selective metal ion sensing. <i>Optical Materials Express</i> , 2015, 5, 2675.	3.0	12
24	Iron complexes of tetramine ligands catalyse allylic hydroxyamination via a nitroso-ene mechanism. <i>Beilstein Journal of Organic Chemistry</i> , 2015, 11, 2549-2556.	2.2	4
25	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.	2.2	26
26	Fluorescent measurements of Zn ²⁺ on a smartphone. , 2015, , .		0
27	Discovery of microbial natural products by activation of silent biosynthetic gene clusters. <i>Nature Reviews Microbiology</i> , 2015, 13, 509-523.	28.6	762
28	Synthesis and structural characterisation of amides from picolinic acid and pyridine-2,6-dicarboxylic acid. <i>Scientific Reports</i> , 2015, 5, 9950.	3.3	16
29	Combined dual-absorption and fluorescence smartphone spectrometers. <i>Optics Letters</i> , 2015, 40, 1737.	3.3	94
30	Early warning smartphone diagnostics for water security and analysis using real-time pH mapping. <i>Photonic Sensors</i> , 2015, 5, 289-297.	5.0	29
31	Absorption and fluorescence spectroscopy on a smartphone. , 2015, , .		1
32	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.	2.0	11
33	Lab-in-a-Phone: Smartphone-Based Portable Fluorometer for pH Measurements of Environmental Water. <i>IEEE Sensors Journal</i> , 2015, 15, 5095-5102.	4.7	86
34	Isopenicillin N Synthase. 2-Oxoglutarate-Dependent Oxygenases, 2015, , 414-424.	0.8	8
35	Centralised and portable network forensics; using smartphone-based diagnostics: Case study; The mapping of tap water pH across Sydney, Australia. , 2014, , .		4
36	The properties and performance of a pH-responsive functionalised nanoparticle. <i>Faraday Discussions</i> , 2014, 175, 171-187.	3.2	3

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37	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.	2.8	16
38	Neuroprotective peptide-macrocycle conjugates reveal complex structure-activity relationships in their interactions with amyloid β . <i>Metallomics</i> , 2014, 6, 1931-1940.	2.4	20
39	Bio-Inspired Nitrile Hydration by Peptidic Ligands Based on L-Cysteine, L-Methionine or L-Penicillamine and Pyridine-2,6-dicarboxylic Acid. <i>Molecules</i> , 2014, 19, 20751-20767.	3.8	7
40	Incorporating a Piperidinyl Group in the Fluorophore Extends the Fluorescence Lifetime of Click-Derived Cyclam-Naphthalimide Conjugates. <i>PLoS ONE</i> , 2014, 9, e100761.	2.5	11
41	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.	3.6	13
42	The crystal structure of isopenicillin N synthase with a dipeptide substrate analogue. <i>Archives of Biochemistry and Biophysics</i> , 2013, 530, 48-53.	3.0	6
43	A Fluorescent Allosteric Scorpionand-Complex Visualizes a Biological Recognition Event. <i>ChemBioChem</i> , 2013, 14, 224-229.	2.6	24
44	The crystal structure of an isopenicillin N synthase complex with an etheral substrate analogue reveals water in the oxygen binding site. <i>FEBS Letters</i> , 2013, 587, 2705-2709.	2.8	6
45	l-Proline derived mimics of the non-haem iron active site catalyse allylic oxidation in acetonitrile solutions. <i>Tetrahedron Letters</i> , 2013, 54, 1236-1238.	1.4	7
46	The Interaction of Isopenicillin N Synthase with Homologated Substrate Analogues (L-Aminoadipoyl)-L-homocysteinyll-D-Xaa Characterised by Protein Crystallography. <i>ChemBioChem</i> , 2013, 14, 599-606.	2.0	5
47	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.	1.9	12
48	Diketoacid Inhibitors of HIV-1 Integrase: From L-708,906 to Raltegravir and Beyond. <i>Current Medicinal Chemistry</i> , 2012, 19, 1177-1192.	2.4	18
49	(2S,4S)-3-Benzoyl-4-benzyl-2-tert-butyl-1,3-oxazolidin-5-one. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o2747-o2747.	0.2	0
50	Investigating the oxidation of alkenes by non-heme iron enzyme mimics. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 7372.	2.8	19
51	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.	2.0	41
52	l-Proline-derived ligands to mimic the ~ 2 -His-1-carboxylate™ triad of the non-haem iron oxidase active site. <i>Tetrahedron</i> , 2012, 68, 3231-3236.	1.9	18
53	A Treasure Hunt for Chemistry. <i>Journal of Chemical Education</i> , 2011, 88, 437-439.	2.3	0
54	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.	4.0	35

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55	Synthesis, carbohydrate- and DNA-binding studies of cationic 2,2':6''',2''':2'''-terpyridineplatinum(ii) complexes containing N- and S-donor boronic acid ligands. Dalton Transactions, 2011, 40, 506-513.	3.3	15
56	The crystal structure of isopenicillin N synthase with γ -(L- α -aminoadipoyl)-L-cysteinyl-D-methionine reveals thioether coordination to iron. Archives of Biochemistry and Biophysics, 2011, 516, 103-107.	3.0	8
57	Chemical sensors that incorporate click-derived triazoles. Chemical Society Reviews, 2011, 40, 2848.	38.1	366
58	A Click Fluorophore Sensor that Can Distinguish Cu ^{II} and Hg ^{II} via Selective Anion-Induced Demetallation. Chemistry - A European Journal, 2011, 17, 2850-2858.	3.3	65
59	Isopenicillin N Synthase Binds γ -(L- α -Aminoadipoyl)-L-Cysteinyl-D-Thiazolidine through both Sulfur Atoms. ChemBioChem, 2011, 12, 1881-1885.		
60	Synthesis, electrochemistry and metal binding properties of monosubstituted ferrocenoyl peptides with thioether-containing sidechains. Journal of Organometallic Chemistry, 2011, 696, 715-721.	1.8	7
61	Polyamide-Scorpion Cyclam Lexitropsins Selectively Bind AT-Rich DNA Independently of the Nature of the Coordinated Metal. PLoS ONE, 2011, 6, e17446.	2.5	9
62	Boronated phosphonium salts containing arylboronic acid, closo-carborane, or nido-carborane: synthesis, X-ray diffraction, in vitro cytotoxicity, and cellular uptake. Journal of Biological Inorganic Chemistry, 2010, 15, 1305-1318.	2.6	21
63	Inhibition Studies of <i>Mycobacterium tuberculosis</i> Salicylate Synthase (MbtI). ChemMedChem, 2010, 5, 1067-1079.	3.2	50
64	Synthesis and electrochemical studies of disubstituted ferrocene/dipeptide conjugates with sulfur-containing side chains. Tetrahedron, 2010, 66, 5653-5659.	1.9	12
65	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.	2.1	8
66	The crystal structure of an LLL-configured depsipeptide substrate analogue bound to isopenicillin N synthase. Organic and Biomolecular Chemistry, 2010, 8, 122-127.	2.8	7
67	Design and synthesis of a tetradentate ω -3-amine-1-carboxylate TM ligand to mimic the metal binding environment at the non-heme iron(ii) oxidase active site. Organic and Biomolecular Chemistry, 2010, 8, 1666.	2.8	12
68	Structural Studies on the Reaction of Isopenicillin N Synthase with a Sterically Demanding Depsipeptide Substrate Analogue. ChemBioChem, 2009, 10, 2025-2031.	2.6	19
69	Mercury binding by ferrocenoyl peptides with sulfur-containing side chains: Electrochemical, spectroscopic and structural studies. Journal of Organometallic Chemistry, 2008, 693, 2869-2876.	1.8	14
70	Isopenicillin N Synthase Mediates Thiolate Oxidation to Sulfenate in a Depsipeptide Substrate Analogue: Implications for Oxygen Binding and a Link to Nitrile Hydratase?. Journal of the American Chemical Society, 2008, 130, 10096-10102.	13.7	35
71	cis-Dihydroxylation of Alkenes by a Non-Heme Iron Enzyme Mimic. Synlett, 2008, 2008, 2172-2174.	1.8	6
72	<i>tert</i> -Butyldimethylsilanol hemihydrate. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, o1174-o1174.	0.2	1

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73	Interactions of Isopenicillin N Synthase with Cyclopropyl-Containing Substrate Analogues Reveal New Mechanistic Insight. <i>Biochemistry</i> , 2007, 46, 4755-4762.	2.5	31
74	A Cyclobutanone Analogue Mimics Penicillin in Binding to Isopenicillin N Synthase. <i>ChemBioChem</i> , 2007, 8, 2003-2007.	2.6	21
75	Unexpected Oxidation of a Depsipeptide Substrate Analogue in Crystalline Isopenicillin N Synthase. <i>ChemBioChem</i> , 2006, 7, 351-358.	2.6	22
76	Design and synthesis of an isopenicillin N synthase mimic. <i>Tetrahedron</i> , 2005, 61, 137-143.	1.9	9
77	Structural Studies on the Reaction of Isopenicillin N Synthase with the Truncated Substrate Analogues δ -(1- α -aminoadipoyl)-l-cysteinyl-glycine and δ -(1- α -aminoadipoyl)-l-cysteinyl-d-alanine. <i>Biochemistry</i> , 2005, 44, 6619-6628.	2.5	39
78	Unique binding of a non-natural l,l,l-substrate by isopenicillin N synthase. <i>Biochemical and Biophysical Research Communications</i> , 2005, 336, 702-708.	2.1	21
79	Active-site-mediated elimination of hydrogen fluoride from a fluorinated substrate analogue by isopenicillin N synthase. <i>Biochemical Journal</i> , 2004, 382, 659-666.	3.7	25
80	Total synthesis of a novel 2-thiabicyclo[3.2.0]heptan-6-one analogue of penicillin N. <i>Tetrahedron</i> , 2003, 59, 8233-8243.	1.9	27
81	Crystallographic studies on the reaction of isopenicillin N synthase with an unsaturated substrate analogue. <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 1455-1460.	2.8	33
82	Structural studies on the reaction of isopenicillin N synthase with the substrate analogue δ -(1- α -aminoadipoyl)-l-cysteinyl-d- α -aminobutyrate. <i>Biochemical Journal</i> , 2003, 372, 687-693.	3.7	34
83	A device for the high-pressure oxygenation of protein crystals. <i>Analytical Biochemistry</i> , 2002, 308, 265-268.	2.4	21
84	Contrasting fates for 6- α -methylpenicillin N upon oxidation by deacetoxycephalosporin C synthase (DAOCS) and deacetoxy/deacetylcephalosporin C synthase (DAOC/DACS). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2001, 11, 2511-2514.	2.2	5
85	Alternative oxidation by isopenicillin N synthase observed by X-ray diffraction. <i>Chemistry and Biology</i> , 2001, 8, 1231-1237.	6.0	47
86	The reaction cycle of isopenicillin N synthase observed by X-ray diffraction. <i>Nature</i> , 1999, 401, 721-724.	27.8	212