

Finian James Leeper

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

116
papers

3,238
citations

29
h-index

53
g-index

123
ext. papers

3,558
ext. citations

6.4
avg, IF

4.87
L-index

#	Paper	IF	Citations
116	Revision in the first steps of the biosynthesis of the red antibiotic prodigiosin: use of a synthetic thioester to validate a new intermediate. <i>RSC Chemical Biology</i> , 2021 , 2, 551-555	3	0
115	Mechanistic Insights into Dideoxygenation in Gentamicin Biosynthesis. <i>ACS Catalysis</i> , 2021 , 11, 12274-12283	3.3	1
114	F-C2Am: a targeted imaging agent for detecting tumor cell death in vivo using positron emission tomography. <i>EJNMMI Research</i> , 2020 , 10, 151	3.6	4
113	Substrate Flexibility of the Flavin-Dependent Dihydropyrrole Oxidases PigB and HapB Involved in Antibiotic Prodigiosin Biosynthesis. <i>ChemBioChem</i> , 2020 , 21, 523-530	3.8	7
112	Unexpected enzyme-catalysed [4+2] cycloaddition and rearrangement in polyether antibiotic biosynthesis. <i>Nature Catalysis</i> , 2019 , 2, 1045-1054	36.5	13
111	Dissecting Bottromycin Biosynthesis Using Comparative Untargeted Metabolomics. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9639-43	16.4	51
110	Dissecting Bottromycin Biosynthesis Using Comparative Untargeted Metabolomics. <i>Angewandte Chemie</i> , 2016 , 128, 9791-9795	3.6	3
109	Imaging Glycosylation In Vivo by Metabolic Labeling and Magnetic Resonance Imaging. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 1286-90	16.4	16
108	Imaging Glycosylation In Vivo by Metabolic Labeling and Magnetic Resonance Imaging. <i>Angewandte Chemie</i> , 2016 , 128, 1308-1312	3.6	6
107	Rücktitelbild: Imaging Glycosylation In Vivo by Metabolic Labeling and Magnetic Resonance Imaging (Angew. Chem. 4/2016). <i>Angewandte Chemie</i> , 2016 , 128, 1592-1592	3.6	
106	Biosynthesis of the antifungal haterumalide, oocydin A, in <i>Serratia</i> , and its regulation by quorum sensing, RpoS and Hfq. <i>Environmental Microbiology</i> , 2015 , 17, 2993-3008	5.2	26
105	Diazo group as a new chemical reporter for bioorthogonal labelling of biomolecules. <i>RSC Advances</i> , 2014 , 4, 52241-52244	3.7	17
104	Gold(I)-catalysed synthesis of a furan analogue of thiamine pyrophosphate. <i>Beilstein Journal of Organic Chemistry</i> , 2014 , 10, 2580-5	2.5	7
103	Asymmetric Stetter reactions catalyzed by thiamine diphosphate-dependent enzymes. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 9681-90	5.7	16
102	Structure of a eukaryotic thiaminase I. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 137-42	11.5	9
101	Dual-sugar imaging using isonitrile and azido-based click chemistries. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 7297-300	3.9	39
100	Imaging cell surface glycosylation in vivo using "double click" chemistry. <i>Bioconjugate Chemistry</i> , 2013 , 24, 934-41	6.3	59

99	Synthesis of 3,4-Disubstituted Pyrroles. A Review. <i>Organic Preparations and Procedures International</i> , 2013 , 45, 171-210	1.1	41
98	Metabolic glycan imaging by isonitrile-tetrazine click chemistry. <i>ChemBioChem</i> , 2013 , 14, 1063-7	3.8	59
97	Synthesis of 3,4-fused cycloalkanopyrroles by 1,3-dipolar cycloaddition. <i>Tetrahedron Letters</i> , 2012 , 53, 819-821	2	17
96	Bacterial biosynthetic gene clusters encoding the anti-cancer haterumalide class of molecules: biogenesis of the broad spectrum antifungal and anti-oomycete compound, oocydin A. <i>Journal of Biological Chemistry</i> , 2012 , 287, 39125-38	5.4	58
95	Copper-free click—a promising tool for pre-targeted PET imaging. <i>Chemical Communications</i> , 2012 , 48, 991-3	5.8	35
94	Probing riboswitch-ligand interactions using thiamine pyrophosphate analogues. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 5924-31	3.9	20
93	Identification and characterisation of the gene cluster for the anti-MRSA antibiotic bottromycin: expanding the biosynthetic diversity of ribosomal peptides. <i>Chemical Science</i> , 2012 , 3, 3516	9.4	59
92	Characterisation of PigC and HapC, the prodigiosin synthetases from <i>Serratia</i> sp. and <i>Hahella chejuensis</i> with potential for biocatalytic production of anticancer agents. <i>Chemical Science</i> , 2012 , 3, 447-454	9.4	25
91	Biosynthesis of Vitamin B12. <i>Handbook of Porphyrin Science</i> , 2012 , 1-81	0.3	3
90	(E,E)-1,5-Cyclooctadiene: a small and fast click-chemistry multitalent. <i>Chemical Communications</i> , 2011 , 47, 7203-5	5.8	23
89	Exploring isonitrile-based click chemistry for ligation with biomolecules. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 7303-5	3.9	76
88	Development and evaluation of new cyclooctynes for cell surface glycan imaging in cancer cells. <i>Chemical Science</i> , 2011 , 2, 932-936	9.4	68
87	Fragment screening against the thiamine pyrophosphate riboswitchthiM. <i>Chemical Science</i> , 2011 , 2, 157-165	9.4	41
86	Identification of novel ligands for thiamine pyrophosphate (TPP) riboswitches. <i>Biochemical Society Transactions</i> , 2011 , 39, 652-7	5.1	17
85	Imaging sialylated tumor cell glycans in vivo. <i>FASEB Journal</i> , 2011 , 25, 2528-37	0.9	75
84	Structural insights into the prereaction state of pyruvate decarboxylase from <i>Zymomonas mobilis</i> . <i>Biochemistry</i> , 2010 , 49, 1727-36	3.2	30
83	Prodiginines and Their Potential Utility as Proapoptotic Anticancer Agents 2010 , 333-366		1
82	A fragment-based approach to identifying ligands for riboswitches. <i>ACS Chemical Biology</i> , 2010 , 5, 355-84.9		42

81	Thiamin diphosphate in biological chemistry: analogues of thiamin diphosphate in studies of enzymes and riboswitches. <i>FEBS Journal</i> , 2009 , 276, 2905-16	5.7	25
80	Snapshots of catalysis in the E1 subunit of the pyruvate dehydrogenase multienzyme complex. <i>Structure</i> , 2008 , 16, 1860-72	5.2	24
79	Chemoenzymatic synthesis of prodigiosin analogues--exploring the substrate specificity of PigC. <i>Chemical Communications</i> , 2008 , 1862-4	5.8	23
78	Synthesis and biological evaluation of pyrophosphate mimics of thiamine pyrophosphate based on a triazole scaffold. <i>Organic and Biomolecular Chemistry</i> , 2008 , 6, 3561-72	3.9	29
77	Inhibition of pyruvate decarboxylase from <i>Z. mobilis</i> by novel analogues of thiamine pyrophosphate: investigating pyrophosphate mimics. <i>Chemical Communications</i> , 2007 , 960-2	5.8	17
76	Anticancer and immunosuppressive properties of bacterial prodiginines. <i>Future Microbiology</i> , 2007 , 2, 605-18	2.9	153
75	Structure of the branched-chain keto acid decarboxylase (KdcA) from <i>Lactococcus lactis</i> provides insights into the structural basis for the chemoselective and enantioselective carbonylation reaction. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007 , 63, 1217-24		54
74	Molecular mechanism of allosteric substrate activation in a thiamine diphosphate-dependent decarboxylase. <i>Journal of Biological Chemistry</i> , 2007 , 282, 35269-78	5.4	27
73	The biosynthesis and regulation of bacterial prodiginines. <i>Nature Reviews Microbiology</i> , 2006 , 4, 887-99	22.2	354
72	Biosynthesis of the red antibiotic, prodigiosin, in <i>Serratia</i> : identification of a novel 2-methyl-3-n-amylopyrrole (MAP) assembly pathway, definition of the terminal condensing enzyme, and implications for undecylprodigiosin biosynthesis in <i>Streptomyces</i> . <i>Molecular Microbiology</i> , 2005 , 56, 971-89	4.1	167
71	The <i>Serratia</i> gene cluster encoding biosynthesis of the red antibiotic, prodigiosin, shows species- and strain-dependent genome context variation. <i>Microbiology (United Kingdom)</i> , 2004 , 150, 3547-3560	2.9	145
70	Inhibition of thiamin diphosphate dependent enzymes by 3-deazathiamin diphosphate. <i>Organic and Biomolecular Chemistry</i> , 2004 , 2, 1732-41	3.9	30
69	Kinetics of the thiazolium ion-catalyzed benzoin condensation. <i>Journal of Organic Chemistry</i> , 2001 , 66, 5124-31	4.2	115
68	Synthesis of 3-deazathiamine. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2001 , 144-148		25
67	Biosynthesis of Vitamin B12. <i>Topics in Current Chemistry</i> , 1998 , 143-193		15
66	Biosynthesis of porphyrins and related macrocycles. Part 50.1 Synthesis of the N-formyl-dihydro analogue of the spiro-intermediate and its interaction with uroporphyrinogen III synthase. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1998 , 1531-1540		8
65	Biosynthesis of porphyrins and related macrocycles. Part 47.1,2 Synthesis and chemistry of 2H-pyrroles (pyrrolenines) related to the proposed spiro-intermediate for porphyrin biosynthesis. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1998 , 1493-1508		7
64	Synthetic studies relevant to biosynthetic research on vitamin B12. Part 12.1 Modification of the periphery of chlorins and isobacteriochlorins. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1997 , 1105-1116		5

63	Haem d1: stereoselective synthesis of the macrocycle to establish its absolute configuration as 2R,7R1. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1997 , 2123-2138		12
62	The role of His113 and His114 in pyruvate decarboxylase from <i>Zymomonas mobilis</i> . <i>FEBS Journal</i> , 1997 , 248, 63-71		39
61	Synthesis of and asymmetric induction by chiral bicyclic thiazolium salts. <i>Tetrahedron Letters</i> , 1997 , 38, 3611-3614	2	82
60	Synthesis of and asymmetric induction by chiral polycyclic thiazolium salts. <i>Tetrahedron Letters</i> , 1997 , 38, 3615-3618	2	44
59	Synthesis of analogues of porphobilinogen. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1996 , 2633		7
58	Mechanism-based inhibition of 5-aminolaevulinic acid dehydratase from <i>Bacillus subtilis</i> by the 3-thia analogue of the substrate. <i>Chemical Communications</i> , 1996 , 303	5.8	4
57	Interaction of analogues of porphobilinogen with porphobilinogen deaminase. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1996 , 2643		3
56	Biosynthesis of porphyrins and related macrocycles. Part 44. Synthetic and stereochemical studies on the proposed spiro intermediate for biosynthesis of the natural porphyrins. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1996 , 2079		5
55	Biosynthesis of porphyrins and related macrocycles. Part 45. Determination by a novel X-ray method of the absolute configuration of the spiro lactam which inhibits uroporphyrinogen III synthase (cosynthetase). <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1996 , 2091		11
54	Deuterium isotope effects on porphobilinogen synthesis catalysed by 5-aminolaevulinic acid dehydratase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1996 , 6, 1191-1194	2.9	4
53	Approaches to Antibody-Catalyzed Cationic Cyclizations: Chemical Studies of Leaving Groups and Cyclization Modes. <i>Israel Journal of Chemistry</i> , 1996 , 36, 161-169	3-4	1
52	Biosynthesis of porphyrins and related macrocycles, Part 43. Isolation and characterization of intermediates of coenzyme B12 biosynthesis, a cobyrinic acid triamide, the α , γ -diamide and their Co-(5Sdeoxy-5Sadenosyl) derivatives, from <i>Propionibacterium shermanii</i> . <i>Chemistry and Biology</i> , 1995 , 2, 527-533		2
51	Stereocontrolled syntheses of polyhydroxy indolizidines, including 8 α -epi-, 6,8 α -diepi- and 1,6-diepi-castanospermine, starting from malic acid. <i>Tetrahedron Letters</i> , 1995 , 36, 2335-2338	2	24
50	Synthesis of bridged thiazolium salts as models for thiamin. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1995 , 861		11
49	Bridged thiazolium salts as models for thiamin: NMR, crystallographic and molecular mechanics studies. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1995 , 777		2
48	Vitamin B12: Wie das Problem seiner Biosynthese gelöst wurde. <i>Angewandte Chemie</i> , 1995 , 107, 421-452	3,6	22
47	Vitamin B12: How the Problem of Its Biosynthesis Was Solved. <i>Angewandte Chemie International Edition in English</i> , 1995 , 34, 383-411		121
46	Biosynthesis of porphyrins and related macrocycles. Part 42. Pulse labelling experiments concerning the timing of cobalt insertion during vitamin B12 biosynthesis. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1994 , 487		21

- 45 Biosynthesis of vitamin B12: mechanistic studies on the transfer of a methyl group from C-11 to C-12 and incorporation of ¹⁸O. *Journal of the Chemical Society Chemical Communications*, **1994**, 2507 18
- 44 Biosynthesis of vitamin B12: studies of the oxidative and lactone-forming steps by ¹⁸O-labelling. *Journal of the Chemical Society Chemical Communications*, **1994**, 1649 5
- 43 Biosynthesis of vitamin B12: use of specific ¹³C-labelling for structural studies on factor IV. *Journal of the Chemical Society Chemical Communications*, **1994**, 193 9
- 42 Synthesis of α -homonojirimycin and β -homomannojirimycin using the enzyme aldolase. *Journal of the Chemical Society Perkin Transactions 1*, **1994**, 231-234 26
- 41 Design and synthesis of transition-state analogues for a cationic cyclisation. *Journal of the Chemical Society Perkin Transactions 1*, **1994**, 1997 2
- 40 The evidence for a spirocyclic intermediate in the formation of uroporphyrinogen III by cosynthase. *Novartis Foundation Symposium*, **1994**, 180, 111-23; discussion 124-30 4
- 39 Proof that the biosynthesis of vitamin B12 involves a reduction step in an anaerobic as well as an aerobic organism. *Journal of the Chemical Society Chemical Communications*, **1993**, 515 5
- 38 Preparation of [4R-3H]NADH, [4R-3H]NADPH and the corresponding 4S-isomers all with substantial specific activities. *Journal of the Chemical Society Perkin Transactions 1*, **1993**, 1213 4
- 37 Biosynthesis of porphyrins and related macrocycles. Part 40. Synthesis of a spiro-lactam related to the proposed spiro-intermediate for porphyrin biosynthesis: inhibition of cosynthetase. *Journal of the Chemical Society Perkin Transactions 1*, **1993**, 2875 18
- 36 Biosynthesis of porphyrins and related macrocycles. Part 41. Fate of oxygen atoms as precorrin-2 carrying eight labelled carboxyl groups (¹³C¹⁸O₂H) is enzymatically converted into cobyrinic acid. *Journal of the Chemical Society Perkin Transactions 1*, **1993**, 2893 17
- 35 Biosynthesis of vitamin B12: structure of the ester of a new biosynthetic intermediate, precorrin-6y. *Journal of the Chemical Society Chemical Communications*, **1992**, 139 18
- 34 Modified substrates for tetrapyrrole biosynthesis: analogues of porphobilinogen showing unusual inhibition of porphobilinogen deaminase. *Journal of the Chemical Society Chemical Communications*, **1992**, 242 2
- 33 Synthetic studies relevant to biosynthetic research on vitamin B12. Part 10. Construction of the east and west building blocks for synthesis of isobacteriochlorins. *Journal of the Chemical Society Perkin Transactions 1*, **1992**, 2175 7
- 32 Biosynthesis of vitamin B12: stereochemistry of transfer of a hydride equivalent from NADPH by precorrin-6x reductase. *Journal of the Chemical Society Chemical Communications*, **1992**, 306 11
- 31 Biosynthesis of vitamin B12: use of a single ¹³C label in the macrocycle to confirm C-11 methylation in precorrin-6x. *Journal of the Chemical Society Chemical Communications*, **1992**, 138 6
- 30 Biosynthesis of vitamin B12: structural studies on precorrin-8x, an octamethylated intermediate and the structure of its stable tautomer. *Journal of the Chemical Society Chemical Communications*, **1992**, 982 17
- 29 Synthetic studies relevant to biosynthetic research on vitamin B12. Part 11. Modification of the east and west building blocks and study of different assembly methods for synthesis of isobacteriochlorins. *Journal of the Chemical Society Perkin Transactions 1*, **1992**, 2189 4
- 28 The synthesis of a fluorinated analogue of 5-aminolaevulinic acid, a potential inhibitor of porphyrin biosynthesis. *Journal of Fluorine Chemistry*, **1991**, 51, 381-396 2.1 9

27	Biosynthesis of vitamin B12: the site of reduction of precorrin-6x. <i>Journal of the Chemical Society Chemical Communications</i> , 1991 , 976		15
26	Biosynthesis of vitamin B12: incorporation of (11S)-[11-2H1-] and (11R)-[11-2H1]porphobilinogen into sirohydrochlorin and 2,7,20-trimethylisobacteriochlorin. <i>Journal of the Chemical Society Chemical Communications</i> , 1990 , 1125		2
25	Biosynthesis of the pigments of life: mechanistic studies on the conversion of porphobilinogen to uroporphyrinogen III. <i>Chemical Reviews</i> , 1990 , 90, 1261-1274	68.1	77
24	Biosynthesis of porphyrins and related macrocycles. Part 35. Discovery of a novel dipyrrolic cofactor essential for the catalytic action of hydroxymethylbilane synthase (porphobilinogen deaminase). <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1990 , 1979		9
23	Stereospecific nucleophilic ring-opening of a deuteriated cyclopropylcarbinol. <i>Tetrahedron Letters</i> , 1989 , 30, 5017-5020	2	4
22	Synthetic studies relevant to biosynthetic research on vitamin B12. Part 9. Synthesis of 20-methyl and 20-cyano isobacteriochlorins. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1989 , 265		21
21	Biosynthesis of porphyrins and related macrocycles. Part 34. Synthesis and properties of S-pyrrolylmethylcysteinyl and β -N-pyrrolylmethyllysyl peptides. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1989 , 1943-1956		12
20	Syntheses relevant to vitamin B12 biosynthesis: the malate route to (U)-ring-B imide and synthesis of the 2,7,20-trimethylisobacteriochlorin. <i>Journal of the Chemical Society Chemical Communications</i> , 1989 , 1116-1119		2
19	Synthesis and structure of bridged thiazolium salts. <i>Tetrahedron Letters</i> , 1988 , 29, 1325-1328	2	5
18	Biosynthesis of porphyrins and related macrocycles. Part 30. Synthesis of the macrocycle of the spiro system proposed as an intermediate generated by cosynthetase. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1988 , 1187		21
17	Biosynthesis of porphyrins and related macrocycles. Part 29. Synthesis and chemistry of 2,2-disubstituted 2H-pyrroles (pyrrolenines). <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1987 , 2027		26
16	Biosynthesis of the natural porphyrins: proof that hydroxymethylbilane synthase (porphobilinogen deaminase) uses a novel binding group in its catalytic action. <i>Journal of the Chemical Society Chemical Communications</i> , 1987 , 1762		57
15	Biosynthesis of the indolizidine alkaloid, cyclizidine. <i>Journal of the Chemical Society Chemical Communications</i> , 1987 , 505		10
14	Biosynthesis of porphyrins and related, macrocycles. Part 28. Development of a pulse labelling method to determine the C-methylation sequence for vitamin B12. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1987 , 1689		27
13	Stereochemical studies on porphyrin a: assignment of the absolute configuration of a model porphyrin by degradation. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1986 , 1565		9
12	Syntheses relevant to vitamin B12 biosynthesis: synthesis of sirohydrochlorin and of its octamethyl ester. <i>Journal of the Chemical Society Chemical Communications</i> , 1985 , 1061		13
11	The spiro intermediate proposed for biosynthesis of the natural porphyrins: synthesis and properties of its macrocycle. <i>Journal of the Chemical Society Chemical Communications</i> , 1985 , 1294		15
10	Biomimetic syntheses of polyketide aromatics from pyrylium salts. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1984 , 1035		13

9	Biosynthesis of the polyketide antibiotic ICI139603 in <i>Streptomyces longisporoflavus</i> : assignment of the ^{13}C n.m.r. spectrum by two-dimensional methods, and determination of the origin of the carbon atoms. <i>Journal of the Chemical Society Chemical Communications</i> , 1984 , 1301		18
8	Biosynthesis of the polyether antibiotic ICI139603 in <i>Streptomyces longisporoflavus</i> : investigation of deuterium retention after incorporation of $\text{CD}_3^{13}\text{CO}_2\text{H}$, $^{13}\text{CD}_3\text{CO}_2\text{H}$, and $\text{CH}_3\text{CD}_2^{13}\text{CO}_2\text{H}$ using ^2H n.m.r. and edited ^{13}C n.m.r. spectra. <i>Journal of the Chemical Society Chemical Communications</i> , 1984 , 1302		11
7	Stereoisomers of tetrahydrothiamin pyrophosphate, potent inhibitors of the pyruvate dehydrogenase multienzyme complex from <i>Escherichia coli</i> . <i>Biochemistry</i> , 1983 , 22, 150-7	3.2	37
6	The Stereochemistry and Conformation of the Diastereomers of Tetrahydrothiamin. <i>Heterocycles</i> , 1983 , 20, 65	0.8	2
5	Rubrofusarin biosynthesis in <i>Fusarium culmorum</i> : incorporation of $^{13}\text{CH}_3^{13}\text{CO}_2\text{H}$ and $\text{CD}_3^{13}\text{CO}_2\text{H}$ into the polyketide naphthalene nucleus. <i>Journal of the Chemical Society Chemical Communications</i> , 1982 , 911		9
4	Biosynthesis of the quinolizidine alkaloids. Incorporation of ^3H -piperideine into matrine. <i>Canadian Journal of Chemistry</i> , 1981 , 59, 106-115	0.9	16
3	Triacetic acid lactone and 2,6-dimethyl- ^3H -pyrone as polyketide synthons: syntheses of torachryson and eleutherinol derivatives. <i>Journal of the Chemical Society Chemical Communications</i> , 1979 , 206-207		13
2	Biomimetic syntheses of heptaketide metabolites: alternariol and a derivative of rubrofusarin. <i>Journal of the Chemical Society Chemical Communications</i> , 1978 , 406		8
1	Prodrugs of pyrophosphates and bisphosphonates: disguising phosphorus oxyanions. <i>RSC Medicinal Chemistry</i> ,	3.5	1