David R Spring

List of Publications by Year in Descending Order

249 papers	13,111 citations	55 h-index	107 g-index
310 ext. papers	14,702 ext. citations	10 avg, IF	6.86 L-index

#	Paper	IF	Citations
249	Energetics of lipid transport by the ABC transporter MsbA is lipid dependent. *Communications Biology*, **2021**, 4, 1379	6.7	3
248	Targeting a Novel KRAS Binding Site: Application of One-Component Stapling of Small (5-6-mer) Peptides. *Journal of Medicinal Chemistry*, **2021**, 64, 17287-17303	8.3	0
247	Downfalls of Chemical Probes Acting at the Kinase ATP-Site: CK2 as a Case Study. *Molecules*, **2021**, 26,	4.8	2
246	Microscopy and chemical analyses reveal flavone-based woolly fibres extrude from micron-sized holes in glandular trichomes of Dionysia tapetodes. *BMC Plant Biology*, **2021**, 21, 258	5.3	0
245	Photocatalytic methods for amino acid modification. *Chemical Society Reviews*, **2021**, 50, 39-57	58.5	31
244	Site-selective modification strategies in antibody-drug conjugates. *Chemical Society Reviews*, **2021**, 50, 1305-1353	58.5	69
243	Peptides as a platform for targeted therapeutics for cancer: peptide-drug conjugates (PDCs). *Chemical Society Reviews*, **2021**, 50, 1480-1494	58.5	41
242	Chemical probes targeting the kinase CK2: a journey outside the catalytic box. *Organic and Biomolecular Chemistry*, **2021**, 19, 4380-4396	3.9	0
241	Rapid and robust cysteine bioconjugation with vinylheteroarenes. *Chemical Science*, **2021**, 12, 9060-9068	9.4	1
240	The multifaceted nature of antimicrobial peptides: current synthetic chemistry approaches and future directions. *Chemical Society Reviews*, **2021**, 50, 7820-7880	58.5	36
239	A dual-enzyme cleavable linker for antibody-drug conjugates. *Chemical Communications*, **2021**, 57, 3457-3460	5.8	6
238	The role of chemical synthesis in developing RiPP antibiotics. *Chemical Society Reviews*, **2021**, 50, 4245-4288	58.5	6
237	Divergent Synthesis of Novel Cylindrocyclophanes that Inhibit Methicillin-Resistant Staphylococcus aureus (MRSA). *ChemMedChem*, **2020**, 15, 1289-1293	3.7	1
236	Demonstration of the utility of DOS-derived fragment libraries for rapid hit derivatisation in a multidirectional fashion. *Chemical Science*, **2020**, 11, 10792-10801	9.4	5
235	An efficient, stereocontrolled and versatile synthetic route to bicyclic partially saturated privileged scaffolds. *Chemical Communications*, **2020**, 56, 6818-6821	5.8	3
234	Diarylethene moiety as an enthalpy-entropy switch: photoisomerizable stapled peptides for modulating p53/MDM2 interaction. *Organic and Biomolecular Chemistry*, **2020**, 18, 5359-5369	3.9	6
233	General dual functionalisation of biomacromolecules via a cysteine bridging strategy. *Organic and Biomolecular Chemistry*, **2020**, 18, 4224-4230	3.9	13

232	Hydroxylated Rotenoids Selectively Inhibit the Proliferation of Prostate Cancer Cells. *Journal of Natural Products*, **2020**, 83, 1829-1845	4.9	4
231	Efficient and selective antibody modification with functionalised divinyltriazines. *Organic and Biomolecular Chemistry*, **2020**, 18, 4739-4743	3.9	11
230	Hotspots API: A Python Package for the Detection of Small Molecule Binding Hotspots and Application to Structure-Based Drug Design. *Journal of Chemical Information and Modeling*, **2020**, 60, 1911-1916	6.1	8
229	Development of a Novel Cell-Permeable Protein-Protein Interaction Inhibitor for the Polo-box Domain of Polo-like Kinase 1. *ACS Omega*, **2020**, 5, 822-831	3.9	3
228	Fsp-rich and diverse fragments inspired by natural products as a collection to enhance fragment-based drug discovery. *Chemical Communications*, **2020**, 56, 2280-2283	5.8	15
227	Sulfatase-cleavable linkers for antibody-drug conjugates. *Chemical Science*, **2020**, 11, 2375-2380	9.4	22
226	C(sp)-H arylation to construct all-syn cyclobutane-based heterobicyclic systems: a novel fragment collection. *Chemical Communications*, **2020**, 56, 7423-7426	5.8	5
225	Functionalized Double Strain-Promoted Stapled Peptides for Inhibiting the p53-MDM2 Interaction. *ACS Omega*, **2020**, 5, 1157-1169	3.9	5
224	Total synthesis and biological evaluation of simplified aplyronine analogues as synthetically tractable anticancer agents. *Chemical Communications*, **2020**, 56, 1529-1532	5.8	7
223	Expeditious Total Synthesis of Hemiasterlin through a Convergent Multicomponent Strategy and Its Use in Targeted Cancer Therapeutics. *Angewandte Chemie*, **2020**, 132, 23245-23250	3.6	
222	Expeditious Total Synthesis of Hemiasterlin through a Convergent Multicomponent Strategy and Its Use in Targeted Cancer Therapeutics. *Angewandte Chemie - International Edition*, **2020**, 59, 23045-23050	16.4	6
221	Direct Synthesis of N-Functionalized Dipropargylamine Linkers as Models for Use in Peptide Stapling. *Synlett*, **2019**, 30, 2153-2156	2.2	
220	A general approach for the site-selective modification of native proteins, enabling the generation of stable and functional antibody-drug conjugates. *Chemical Science*, **2019**, 10, 694-700	9.4	52
219	Synthesis and Reactivity of a Bis-Strained Alkyne Derived from 1,1'-Biphenyl-2,2',6,6'-tetrol. *ACS Omega*, **2019**, 4, 2160-2167	3.9	2
218	Toolbox of Diverse Linkers for Navigating the Cellular Efficacy Landscape of Stapled Peptides. *ACS Chemical Biology*, **2019**, 14, 526-533	4.9	16
217	Targeted covalent inhibitors of MDM2 using electrophile-bearing stapled peptides. *Chemical Communications*, **2019**, 55, 7914-7917	5.8	12
216	Strategies for the Diversity-Oriented Synthesis of Macrocycles. *Chemical Reviews*, **2019**, 119, 10288-10317	68.1	64
215	Spirocycles as Rigidified sp-Rich Scaffolds for a Fragment Collection. *Organic Letters*, **2019**, 21, 4600-4604	4.2	20

214	Efficient development of stable and highly functionalised peptides targeting the CK2β/CK2α protein-protein interaction. *Chemical Science*, **2019**, 10, 5056-5063	9.4	20
213	Water-soluble, stable and azide-reactive strained dialkynes for biocompatible double strain-promoted click chemistry. *Organic and Biomolecular Chemistry*, **2019**, 17, 8014-8018	3.9	8
212	Cleavable linkers in antibody-drug conjugates. *Chemical Society Reviews*, **2019**, 48, 4361-4374	58.5	156
211	Macrocyclisation and functionalisation of unprotected peptides via divinyltriazine cysteine stapling. *Chemical Communications*, **2019**, 55, 9499-9502	5.8	10
210	Cycloaddition Strategies for the Synthesis of Diverse Heterocyclic Spirocycles for Fragment-Based Drug Discovery. *European Journal of Organic Chemistry*, **2019**, 2019, 5219-5229	3.2	17
209	A cryptic hydrophobic pocket in the polo-box domain of the polo-like kinase PLK1 regulates substrate recognition and mitotic chromosome segregation. *Scientific Reports*, **2019**, 9, 15930	4.9	8
208	Second-generation CK2α inhibitors targeting the αD pocket. *Chemical Science*, **2018**, 9, 3041-3049	9.4	22
207	Bioinspired Total Synthesis of Bussealin E. *Organic Letters*, **2018**, 20, 1597-1599	6.2	6
206	Stapled peptides as a new technology to investigate protein-protein interactions in human platelets. *Chemical Science*, **2018**, 9, 4638-4643	9.4	26
205	Synthesis of structurally diverse biflavonoids. *Tetrahedron*, **2018**, 74, 5089-5101	2.4	5
204	Studies Towards the Synthesis of the Core of Endiandric Acid H. *Chemistry of Natural Compounds*, **2018**, 54, 289-292	0.7	5
203	Using Peptidomimetics and Constrained Peptides as Valuable Tools for Inhibiting Protein?Protein Interactions. *Molecules*, **2018**, 23,	4.8	49
202	Synthesis of Structurally Diverse N-Substituted Quaternary-Carbon-Containing Small Molecules from αDisubstituted Propargyl Amino Esters. *Chemistry - A European Journal*, **2018**, 24, 13681-13687	4.8	21
201	Novel non-ATP competitive small molecules targeting the CK2 β interface. *Bioorganic and Medicinal Chemistry*, **2018**, 26, 3016-3020	3.4	24
200	Antiplasmodial and trypanocidal activity of violacein and deoxyviolacein produced from synthetic operons. *BMC Biotechnology*, **2018**, 18, 22	3.5	23
199	Two-Component Stapling of Biologically Active and Conformationally Constrained Peptides: Past, Present, and Future. *Advanced Therapeutics*, **2018**, 1, 1800052	4.9	21
198	Semi-syntheses of the 11-hydroxyrotenoids sumatrol and villosinol. *Organic and Biomolecular Chemistry*, **2018**, 16, 6395-6398	3.9	0
197	Chapter 2:The Application of Diversity-oriented Synthesis in Chemical Biology. *Chemical Biology*, **2018**, 8-44	0.4	2

196	Loving the poison: the methylcitrate cycle and bacterial pathogenesis. *Microbiology (United Kingdom)*, **2018**, 164, 251-259	2.9	23
195	Highly reactive bis-cyclooctyne-modified diarylethene for SPAAC-mediated cross-linking. *Organic and Biomolecular Chemistry*, **2018**, 16, 8559-8564	3.9	8
194	Synthesis and biological evaluation of 1,2-disubsubstituted 4-quinolone analogues of sp. natural products. *Beilstein Journal of Organic Chemistry*, **2018**, 14, 2680-2688	2.5	4
193	Recent Applications of Diversity-Oriented Synthesis Toward Novel, 3-Dimensional Fragment Collections. *Frontiers in Chemistry*, **2018**, 6, 460	5	37
192	Macrocyclized Extended Peptides: Inhibiting the Substrate-Recognition Domain of Tankyrase. *Journal of the American Chemical Society*, **2017**, 139, 2245-2256	16.4	44
191	Stereocontrolled semi-syntheses of deguelin and tephrosin. *Organic and Biomolecular Chemistry*, **2017**, 15, 1593-1596	3.9	12
190	Development of Cell-Permeable, Non-Helical Constrained Peptides to Target a Key Protein□Protein Interaction in Ovarian Cancer. *Angewandte Chemie*, **2017**, 129, 539-544	3.6	6
189	A novel complexity-to-diversity strategy for the diversity-oriented synthesis of structurally diverse and complex macrocycles from quinine. *Bioorganic and Medicinal Chemistry*, **2017**, 25, 2825-2843	3.4	11
188	Divergent synthesis of biflavonoids yields novel inhibitors of the aggregation of amyloid □(1-42). *Organic and Biomolecular Chemistry*, **2017**, 15, 4554-4570	3.9	8
187	A fragment-based approach leading to the discovery of a novel binding site and the selective CK2 inhibitor CAM4066. *Bioorganic and Medicinal Chemistry*, **2017**, 25, 3471-3482	3.4	37
186	Development of Cell-Permeable, Non-Helical Constrained Peptides to Target a Key Protein-Protein Interaction in Ovarian Cancer. *Angewandte Chemie - International Edition*, **2017**, 56, 524-529	16.4	35
185	Diversity-oriented synthesis of heterocycles and macrocycles by controlled reactions of oxetanes with □minocarbenes. *Chemical Science*, **2017**, 8, 5713-5720	9.4	30
184	Protein modification alkyne hydrosilylation using a substoichiometric amount of ruthenium(ii) catalyst. *Chemical Science*, **2017**, 8, 3871-3878	9.4	12
183	Stereocontrolled Semisyntheses of Elliptone and 12a□Hydroxyelliptone. *Journal of Natural Products*, **2017**, 80, 2751-2755	4.9	8
182	Identification of new quorum sensing autoinducer binding partners in using photoaffinity probes. *Chemical Science*, **2017**, 8, 7403-7411	9.4	20
181	Computationally-guided optimization of small-molecule inhibitors of the Aurora A kinase-TPX2 protein-protein interaction. *Chemical Communications*, **2017**, 53, 9372-9375	5.8	12
180	Targeting the Genome-Stability Hub Ctf4 by Stapled-Peptide Design. *Angewandte Chemie - International Edition*, **2017**, 56, 12866-12872	16.4	16
179	Targeting the Genome-Stability Hub Ctf4 by Stapled-Peptide Design. *Angewandte Chemie*, **2017**, 129, 13046-13052	3.6	2

178	()-Selective Takai olefination of salicylaldehydes. *Beilstein Journal of Organic Chemistry*, **2017**, 13, 323-328	2.5	3
177	Structural and Functional Characterization of Malate Synthase G from Opportunistic Pathogen Pseudomonas aeruginosa. *Biochemistry*, **2017**, 56, 5539-5549	3.2	5
176	C-H activation: Complex peptides made simple. *Nature Chemistry*, **2016**, 9, 9-10	17.6	2
175	Multiple-parameter Optimization in Drug Discovery: Example of the 5-HT1B GPCR. *Molecular Informatics*, **2016**, 35, 599-605	3.8	2
174	Partially Saturated Bicyclic Heteroaromatics as an sp3-Enriched Fragment Collection. *Angewandte Chemie*, **2016**, 128, 12667-12671	3.6	14
173	Allosteric modulation of AURKA kinase activity by a small-molecule inhibitor of its protein-protein interaction with TPX2. *Scientific Reports*, **2016**, 6, 28528	4.9	43
172	Divergent Synthesis of Quinolone Natural Products from sp. CL38489. *European Journal of Organic Chemistry*, **2016**, 2016, 5799-5802	3.2	12
171	A new quinolone signal (PQS) binding partner: MexG. *Chemical Science*, **2016**, 7, 2553-2562	9.4	25
170	Diversity-Oriented Synthesis of Macrocycle Libraries for Drug Discovery and Chemical Biology. *Synthesis*, **2016**, 48, 1457-1473	2.9	42
169	Divergent Total Syntheses of Flavonoid Natural Products Isolated from Rosa rugosa and Citrus unshiu. *Synlett*, **2016**, 27, 1725-1727	2.2	6
168	Concise synthesis of rare pyrido[1,2-a]pyrimidin-2-ones and related nitrogen-rich bicyclic scaffolds with a ring-junction nitrogen. *Organic and Biomolecular Chemistry*, **2016**, 14, 1031-8	3.9	12
167	An expedient strategy for the diversity-oriented synthesis of macrocyclic compounds with natural product-like characteristics. *Tetrahedron*, **2016**, 72, 3567-3578	2.4	18
166	Discovery of an inhibitor of the production of the Pseudomonas aeruginosa virulence factor pyocyanin in wild-type cells. *Beilstein Journal of Organic Chemistry*, **2016**, 12, 1428-33	2.5	16
165	Combinatorial Synthesis of Structurally Diverse Triazole-Bridged Flavonoid Dimers and Trimers. *Molecules*, **2016**, 21,	4.8	12
164	The Pseudomonas Quinolone Signal (PQS). *Israel Journal of Chemistry*, **2016**, 56, 282-294	3.4	13
163	Discovery of a small-molecule binder of the oncoprotein gankyrin that modulates gankyrin activity in the cell. *Scientific Reports*, **2016**, 6, 23732	4.9	22
162	The reductive cleavage of picolinic amides. *Tetrahedron Letters*, **2016**, 57, 2962-2964	2	19
161	Partially Saturated Bicyclic Heteroaromatics as an sp(3) -Enriched Fragment Collection. *Angewandte Chemie - International Edition*, **2016**, 55, 12479-83	16.4	45

160	Structural and calorimetric studies demonstrate that the hepatocyte nuclear factor 1 (HNF1) transcription factor is imported into the nucleus via a monopartite NLS sequence. *Journal of Structural Biology*, **2016**, 195, 273-281	3.4	4
159	A Multidimensional Diversity-Oriented Synthesis Strategy for Structurally Diverse and Complex Macrocycles. *Angewandte Chemie - International Edition*, **2016**, 55, 11139-43	16.4	34
158	Specific inhibition of CK2 from an anchor outside the active site. *Chemical Science*, **2016**, 7, 6839-6845	9.4	39
157	A Multidimensional Diversity-Oriented Synthesis Strategy for Structurally Diverse and Complex Macrocycles. *Angewandte Chemie*, **2016**, 128, 11305-11309	3.6	4
156	Development of a Multifunctional Benzophenone Linker for Peptide Stapling and Photoaffinity Labelling. *ChemBioChem*, **2016**, 17, 689-92	3.8	17
155	The Synthesis of Quinolone Natural Products from Pseudonocardia sp.. *European Journal of Organic Chemistry*, **2016**, 2016, 434-437	3.2	23
154	Studies towards the synthesis of indolizin-5(3H)-one derivatives and related 6,5-azabicyclic scaffolds by ring-closing metathesis. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 2666-79	3.4	8
153	Divergent and concise total syntheses of dihydrochalcones and 5-deoxyflavones recently isolated from Tacca species and Mimosa diplotricha. *Tetrahedron*, **2015**, 71, 4557-4564	2.4	17
152	A two-component 'double-click' approach to peptide stapling. *Nature Protocols*, **2015**, 10, 585-94	18.8	54
151	Overcoming Chemical, Biological, and Computational Challenges in the Development of Inhibitors Targeting Protein-Protein Interactions. *Chemistry and Biology*, **2015**, 22, 689-703		103
150	The Application of Ligand-Mapping Molecular Dynamics Simulations to the Rational Design of Peptidic Modulators of Protein-Protein Interactions. *Journal of Chemical Theory and Computation*, **2015**, 11, 3199-210	6.4	25
149	Synthesis of a novel polycyclic ring scaffold with antimitotic properties a selective domino Heck-Suzuki reaction. *Chemical Science*, **2015**, 6, 390-396	9.4	15
148	Enantioselective Synthesis of Chromanones via a Peptidic Phosphane Catalyzed Rauhut-Currier Reaction. *Organic Letters*, **2015**, 17, 2462-5	6.2	40
147	A diversity-oriented synthesis strategy enabling the combinatorial-type variation of macrocyclic peptidomimetic scaffolds. *Organic and Biomolecular Chemistry*, **2015**, 13, 4570-80	3.9	34
146	Which microbial factors really are important in Pseudomonas aeruginosa infections?. *Future Microbiology*, **2015**, 10, 1825-36	2.9	32
145	Peptide stapling techniques based on different macrocyclisation chemistries. *Chemical Society Reviews*, **2015**, 44, 91-102	58.5	350
144	New Advances in Diversity-Oriented Synthesis **2015**, 77-101		2
143	Double Strain-Promoted Macrocyclization for the Rapid Selection of Cell-Active Stapled Peptides. *Angewandte Chemie - International Edition*, **2015**, 54, 15410-3	16.4	74

142	Double Strain-Promoted Macrocyclization for the Rapid Selection of Cell-Active Stapled Peptides. *Angewandte Chemie*, **2015**, 127, 15630-15633	3.6	20
141	Quantitatively mapping cellular viscosity with detailed organelle information via a designed PET fluorescent probe. *Scientific Reports*, **2014**, 4, 5418	4.9	92
140	How diverse are diversity assessment methods? A comparative analysis and benchmarking of molecular descriptor space. *Journal of Chemical Information and Modeling*, **2014**, 54, 230-42	6.1	53
139	Diversity-oriented synthesis as a tool for identifying new modulators of mitosis. *Nature Communications*, **2014**, 5, 3155	17.4	68
138	Multifunctional supramolecular polymer networks as next-generation consolidants for archaeological wood conservation. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 17743-8	11.5	39
137	Concise Synthesis of Substituted Quinolizin-4-ones by Ring-Closing Metathesis. *European Journal of Organic Chemistry*, **2014**, 2014, 5767-5776	3.2	18
136	Investigating peptide sequence variations for 'double-click' stapled p53 peptides. *Organic and Biomolecular Chemistry*, **2014**, 12, 4074-7	3.9	45
135	High content screening of diverse compound libraries identifies potent modulators of tubulin dynamics. *ACS Medicinal Chemistry Letters*, **2014**, 5, 598-603	4.3	14
134	Toxicity of six plant extracts and two pyridone alkaloids from Ricinus communis against the malaria vector Anopheles gambiae. *Parasites and Vectors*, **2014**, 7, 312	4	27
133	Diversity-oriented synthesis of drug-like macrocyclic scaffolds using an orthogonal organo- and metal catalysis strategy. *Angewandte Chemie - International Edition*, **2014**, 53, 13093-7	16.4	49
132	The use of chlorobenzene as a probe molecule in molecular dynamics simulations. *Journal of Chemical Information and Modeling*, **2014**, 54, 1821-7	6.1	28
131	Arene C-H functionalisation using a removable/modifiable or a traceless directing group strategy. *Chemical Society Reviews*, **2014**, 43, 6906-19	58.5	500
130	Diversity-Oriented Synthesis: Developing New Chemical Tools to Probe and Modulate Biological Systems **2014**, 379-390		2
129	Diversity-Oriented Synthesis of Drug-Like Macrocyclic Scaffolds Using an Orthogonal Organo- and Metal Catalysis Strategy. *Angewandte Chemie*, **2014**, 126, 13309-13313	3.6	19
128	Linear aliphatic dialkynes as alternative linkers for double-click stapling of p53-derived peptides. *ChemBioChem*, **2014**, 15, 2680-3	3.8	36
127	Functionalised staple linkages for modulating the cellular activity of stapled peptides. *Chemical Science*, **2014**, 5, 1804-1809	9.4	147
126	Identification of key residues that confer Rhodobacter sphaeroides LPS activity at horse TLR4/MD-2. *PLoS ONE*, **2014**, 9, e98776	3.7	12
125	A strategy for the diversity-oriented synthesis of macrocyclic scaffolds using multidimensional coupling. *Nature Chemistry*, **2013**, 5, 861-7	17.6	105

124	Combating multidrug-resistant bacteria: current strategies for the discovery of novel antibacterials. *Angewandte Chemie - International Edition*, **2013**, 52, 10706-33	16.4	293
123	Virulence in Pectobacterium atrosepticum is regulated by a coincidence circuit involving quorum sensing and the stress alarmone, (p)ppGpp. *Molecular Microbiology*, **2013**, 90, 457-71	4.1	35
122	Die Bekämpfung multiresistenter Bakterien: aktuelle Strategien zur Entdeckung neuer Antibiotika. *Angewandte Chemie*, **2013**, 125, 10904-10932	3.6	59
121	Concise copper-catalyzed synthesis of tricyclic biaryl ether-linked aza-heterocyclic ring systems. *Organic Letters*, **2013**, 15, 5448-51	6.2	22
120	Surface swarming motility by Pectobacterium atrosepticum is a latent phenotype that requires O antigen and is regulated by quorum sensing. *Microbiology (United Kingdom)*, **2013**, 159, 2375-2385	2.9	18
119	Towards drugging the "undruggable": enhancing the scaffold diversity of synthetic small molecule screening collections using diversity-oriented synthesis **2013**, 1,		6
118	Mild and Efficient Synthesis of Benzo-Fused Seven- and Eight-membered Ring Lactams: A Convenient Approach to Biologically Interesting Chemotypes. *Synthetic Communications*, **2013**, 43, 1508-1516	1.7	10
117	A lysosome-targetable fluorescent probe for imaging hydrogen sulfide in living cells. *Organic Letters*, **2013**, 15, 2310-3	6.2	263
116	Ligand binding kinetics of the quorum sensing regulator PqsR. *Biochemistry*, **2013**, 52, 4433-8	3.2	8
115	The Basics of Diversity-Oriented Synthesis **2013**, 1-26		7
114	Chemical library screening approaches to aid the design of protein–protein inhibitors **2013**, 32-45		
113	Dynamic Combinatorial Chemistry with Novel Dithiol Building Blocks: Towards New Structurally Diverse and Adaptive Screening Collections. *Synlett*, **2013**, 24, 765-769	2.2	4
112	Design and synthesis of a biotinylated chemical probe for detecting the molecular targets of an inhibitor of the production of the Pseudomonas aeruginosa virulence factor pyocyanin. *Molecules*, **2013**, 18, 11783-96	4.8	10
111	A concise total synthesis of deoxyschizandrin and exploration of its antiproliferative effects and those of structurally related derivatives. *Chemistry - A European Journal*, **2012**, 18, 3193-8	4.8	11
110	The effect of humidity on the ozonolysis of unsaturated compounds in aerosol particles. *Physical Chemistry Chemical Physics*, **2012**, 14, 8023-31	3.6	27
109	Inhibition of the production of the Pseudomonas aeruginosa virulence factor pyocyanin in wild-type cells by quorum sensing autoinducer-mimics. *Organic and Biomolecular Chemistry*, **2012**, 10, 8452-64	3.9	57
108	Synthesis and biological profiling of tellimagrandin I and analogues reveals that the medium ring can significantly modulate biological activity. *Organic and Biomolecular Chemistry*, **2012**, 10, 2590-3	3.9	35
107	Two-directional synthesis as a tool for diversity-oriented synthesis: Synthesis of alkaloid scaffolds. *Beilstein Journal of Organic Chemistry*, **2012**, 8, 850-60	2.5	19

106	Diversity-oriented synthesis: producing chemical tools for dissecting biology. *Chemical Society Reviews*, **2012**, 41, 4444-56	58.5	339
105	A two-directional strategy for the diversity-oriented synthesis of macrocyclic scaffolds. *Organic and Biomolecular Chemistry*, **2012**, 10, 7545-51	3.9	32
104	Using Ligand-Mapping Simulations to Design a Ligand Selectively Targeting a Cryptic Surface Pocket of Polo-Like Kinase 1. *Angewandte Chemie*, **2012**, 124, 10225-10228	3.6	6
103	Using ligand-mapping simulations to design a ligand selectively targeting a cryptic surface pocket of polo-like kinase 1. *Angewandte Chemie - International Edition*, **2012**, 51, 10078-81	16.4	60
102	Design, synthesis and biological evaluation of non-natural modulators of quorum sensing in Pseudomonas aeruginosa. *Organic and Biomolecular Chemistry*, **2012**, 10, 6032-44	3.9	56
101	Coumarin-derived transformable fluorescent sensor for Zn2+. *Chemical Communications*, **2012**, 48, 4764-66	6.8	135
100	Applications of small molecule activators and inhibitors of quorum sensing in Gram-negative bacteria. *Trends in Microbiology*, **2012**, 20, 449-58	12.4	155
99	Microwave-assisted preparation of the quorum-sensing molecule 2-heptyl-3-hydroxy-4(1H)-quinolone and structurally related analogs. *Nature Protocols*, **2012**, 7, 1184-92	18.8	16
98	Palladium-catalysed cross-coupling of organosilicon reagents. *Chemical Society Reviews*, **2012**, 41, 1845-66	58.5	270
97	Palladium-catalysed cross-coupling of vinyldisiloxanes with benzylic and allylic halides and sulfonates. *Chemistry - A European Journal*, **2012**, 18, 8774-9	4.8	20
96	Synthesis of Highly Substituted Symmetrical 1,3-Dienes via Organocuprate Oxidation. *Synlett*, **2012**, 2012, 298-300	2.2	2
95	Microwave and flow syntheses of Pseudomonas quinolone signal (PQS) and analogues. *Organic and Biomolecular Chemistry*, **2011**, 9, 57-61	3.9	44
94	Rational methods for the selection of diverse screening compounds. *ACS Chemical Biology*, **2011**, 6, 208-17	4.9	80
93	Controlling the contents of microdroplets by exploiting the permeability of PDMS. *Lab on A Chip*, **2011**, 11, 1132-7	7.2	30
92	Quorum sensing in Gram-negative bacteria: small-molecule modulation of AHL and AI-2 quorum sensing pathways. *Chemical Reviews*, **2011**, 111, 28-67	68.1	438
91	Chemical genetics. *Chemical Society Reviews*, **2011**, 40, 4332-45	58.5	100
90	Importance of relative humidity in the oxidative ageing of organic aerosols: case study of the ozonolysis of maleic acid aerosol. *Atmospheric Chemistry and Physics*, **2011**, 11, 12181-12195	6.8	30
89	The Serratia LuxR family regulator CarR 39006 activates transcription independently of cognate quorum sensing signals. *Molecular Microbiology*, **2011**, 80, 1120-31	4.1	12

88	Structure of a Blinkin-BUBR1 complex reveals an interaction crucial for kinetochore-mitotic checkpoint regulation via an unanticipated binding Site. *Structure*, **2011**, 19, 1691-700	5.2	58
87	Structure of a Blinkin-BUBR1 Complex Reveals an Interaction Crucial for Kinetochore-Mitotic Checkpoint Regulation via an Unanticipated Binding Site. *Structure*, **2011**, 19, 1895	5.2	78
86	PNA to DNA to microarray decoding facilitates ligand discovery. *Chemistry and Biology*, **2011**, 18, 1209-10		2
85	Fluorescent sensing and discrimination of ATP and ADP based on a unique sandwich assembly of pyrene-adenine-pyrene. *Chemistry - an Asian Journal*, **2011**, 6, 2114-22	4.5	54
84	Diversity-Oriented Synthesis **2011**, 131-150		2
83	Novel and efficient copper-catalysed synthesis of nitrogen-linked medium-ring biaryls. *Chemistry - A European Journal*, **2011**, 17, 2981-6	4.8	16
82	Induction-driven stabilization of the anion-π interaction in electron-rich aromatics as the key to fluoride inclusion in imidazolium-cage receptors. *Chemistry - A European Journal*, **2011**, 17, 1163-70	4.8	144
81	Aryl-aryl bond formation by the fluoride-free cross-coupling of aryldisiloxanes with aryl bromides. *Chemistry - A European Journal*, **2011**, 17, 13230-9	4.8	12
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