

David StC Black

List of Publications by Year in descending order

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100
papers

1,622
citations

331670

21
h-index

377865

34
g-index

106
all docs

106
docs citations

106
times ranked

1987
citing authors

#	ARTICLE	IF	CITATIONS
1	A New Era of Antibiotics: The Clinical Potential of Antimicrobial Peptides. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7047.	4.1	235
2	Synthesis, Characterization and Anti-Cancer Activity of Hydrazone Derivatives Incorporating a Quinoline Moiety. <i>Molecules</i> , 2016, 21, 916.	3.8	59
3	Substitution, oxidation and addition reactions at C-7 of activated indoles. <i>Tetrahedron</i> , 1994, 50, 10497-10508.	1.9	53
4	Indole-based novel small molecules for the modulation of bacterial signalling pathways. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 925-937.	2.8	50
5	Design, Synthesis, and Evaluation of Fimbricide-Nitric Oxide Donor Hybrids as Antimicrobial Agents. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 9517-9529.	6.4	47
6	Short Cationic Peptidomimetic Antimicrobials. <i>Antibiotics</i> , 2019, 8, 44.	3.7	46
7	Synthesis of activated 3-substituted indoles: an optimised one-pot procedure. <i>Tetrahedron</i> , 2005, 61, 77-82.	1.9	45
8	An efficient lactamization of fimbrilides to novel 1,5-dihydropyrrol-2-ones. <i>Tetrahedron Letters</i> , 2007, 48, 2287-2290.	1.4	37
9	Synthesis of Pyrroloquinolines as Indole Analogues of Flavonols. <i>Journal of Organic Chemistry</i> , 2002, 67, 2464-2473.	3.2	30
10	Synthesis and biological activity of novel mono-indole and mono-benzofuran inhibitors of bacterial transcription initiation complex formation. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 1763-1775.	3.0	30
11	Design and synthesis of short amphiphilic cationic peptidomimetics based on biphenyl backbone as antibacterial agents. <i>European Journal of Medicinal Chemistry</i> , 2018, 143, 1702-1722.	5.5	29
12	Synthesis and biological evaluation of N-naphthoyl-phenylglyoxamide-based small molecular antimicrobial peptide mimics as novel antimicrobial agents and biofilm inhibitors. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 3623-3637.	2.8	28
13	Synthesis of anti-bacterial peptidomimetics derived from N-acylisatins. <i>Tetrahedron Letters</i> , 2008, 49, 2965-2968.	1.4	27
14	Design, synthesis and evaluation of N-aryl-glyoxamide derivatives as structurally novel bacterial quorum sensing inhibitors. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 680-693.	2.8	27
15	Dihydropyrrolones as bacterial quorum sensing inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019, 29, 1054-1059.	2.2	27
16	Synthesis and Reactivity of 1-Pyrroline-5-carboxylate Ester 1-Oxides. <i>Tetrahedron</i> , 2000, 56, 1889-1897.	1.9	26
17	Synthesis, biological evaluation and structure-activity relationship studies of isoflavene based Mannich bases with potent anti-cancer activity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 5377-5383.	2.2	26
18	Anthranilamide-based Short Peptides Self-Assembled Hydrogels as Antibacterial Agents. <i>Scientific Reports</i> , 2020, 10, 770.	3.3	26

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19	Preparation, characterization and in vitro biological evaluation of (1:2) phenoxodiol- β -cyclodextrin complex. <i>Carbohydrate Polymers</i> , 2017, 165, 444-454.	10.2	24
20	Synthesis, quorum sensing inhibition and docking studies of 1,5-dihydropyrrol-2-ones. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 7366-7377.	3.0	23
21	Synthesis and biological evaluation of 2,5-di(7-indolyl)-1,3,4-oxadiazoles, and 2- and 7-indolyl 2-(1,3,4-thiadiazolyl)ketones as antimicrobials. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 1672-1679.	3.0	22
22	Guanidine functionalized anthranilamides as effective antibacterials with biofilm disruption activity. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 5871-5888.	2.8	22
23	Reaction of some 4,6-dimethoxyindoles with nitric acid: nitration and oxidative dimerisation. <i>Tetrahedron</i> , 2005, 61, 853-861.	1.9	21
24	A versatile synthetic route to 11H-indolo[3,2-c]isoquinolines. <i>Tetrahedron Letters</i> , 2009, 50, 5628-5630.	1.4	21
25	The Mosaic of Rottlerin. <i>Journal of Organic Chemistry</i> , 2015, 80, 10668-10674.	3.2	21
26	Regioselective reactivity of some 5,7-dimethoxyindoles. <i>Tetrahedron</i> , 2005, 61, 4989-5004.	1.9	20
27	Synthesis of indolocyclotrivenatrylenes. <i>Tetrahedron</i> , 2009, 65, 5977-5983.	1.9	20
28	Amphipathic guanidine-embedded glyoxamide-based peptidomimetics as novel antibacterial agents and biofilm disruptors. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 2033-2051.	2.8	20
29	Design and Synthesis of Lactams Derived from Mucochloric and Mucobromic Acids as <i>Pseudomonas aeruginosa</i> Quorum Sensing Inhibitors. <i>Molecules</i> , 2018, 23, 1106.	3.8	20
30	Synthesis of mixed heterocalixarenes from benzofuranyl methanols and activated indoles. <i>Chemical Communications</i> , 2002, , 810-811.	4.1	18
31	Synthesis and biological evaluation of novel acyclic and cyclic glyoxamide based derivatives as bacterial quorum sensing and biofilm inhibitors. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 5743-5755.	2.8	18
32	Design, synthesis and biological evaluation of 1,2,3-triazole based 2-aminobenzimidazoles as novel inhibitors of LasR dependent quorum sensing in <i>Pseudomonas aeruginosa</i> . <i>RSC Advances</i> , 2019, 9, 29273-29292.	3.6	17
33	Synthesis and anticancer evaluation of 3-substituted quinolin-4-ones and 2,3-dihydroquinolin-4-ones. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 105-115.	3.0	16
34	A new calix[4]arene based molecular probe for selective and sensitive detection of CN ⁻ ions in aqueous media. <i>New Journal of Chemistry</i> , 2014, 38, 2763-2765.	2.8	16
35	Glyoxylamide-based self-assembly hydrogels for sustained ciprofloxacin delivery. <i>Journal of Materials Chemistry B</i> , 2018, 6, 6089-6098.	5.8	16
36	The nitration of some 4,6-dimethoxyindoles. <i>Tetrahedron</i> , 2004, 60, 10779-10786.	1.9	15

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37	Synthesis of indolo[2,3-c]quinolines from 3-arylindole-2-ketoximes. <i>Tetrahedron</i> , 2007, 63, 6713-6719.	1.9	15
38	Thioether-linked dihydropyrrol-2-one analogues as PqsR antagonists against antibiotic resistant <i>Pseudomonas aeruginosa</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2021, 31, 115967.	3.0	15
39	Acid-catalysed reactions of activated benzofuranylmethanols: formation of calixbenzofurans. <i>Tetrahedron</i> , 2002, 58, 5125-5134.	1.9	14
40	Facile ring-opening of N-acylisatins for the development of novel peptidomimetics. <i>Tetrahedron</i> , 2011, 67, 7603-7610.	1.9	14
41	From indole to pyrrole, furan, thiophene and pyridine: Search for novel small molecule inhibitors of bacterial transcription initiation complex formation. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 1171-1182.	3.0	14
42	Synthesis of brominated novel N-heterocycles: new scaffolds for antimicrobial discovery. <i>Tetrahedron</i> , 2016, 72, 539-546.	1.9	14
43	Synthesis of antimicrobial glucosamides as bacterial quorum sensing mechanism inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 1183-1194.	3.0	14
44	Dual-Action Biomaterial Surfaces with Quorum Sensing Inhibitor and Nitric Oxide To Reduce Bacterial Colonization. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 4174-4182.	5.2	14
45	Orthogonal Syntheses of β^3 -Carbolinone and Spiro[pyrrolidinone-3,3 β^2]indole Derivatives in One Pot through Reaction Telescoping. <i>Journal of Organic Chemistry</i> , 2021, 86, 5234-5244.	3.2	14
46	Mechanism-controlled regioselective synthesis of indolyl benzo[b]carbazoles. <i>Tetrahedron Letters</i> , 1999, 40, 6653-6656.	1.4	13
47	Synthesis of tethered indoles in the search for conformationally controlled calixindoles: an indole 3-substituent tether. <i>Tetrahedron</i> , 2001, 57, 2203-2211.	1.9	13
48	Effective synthetic routes to activated pyrrolo[3,2,1-hi]indoles. <i>Tetrahedron</i> , 2008, 64, 11603-11610.	1.9	13
49	Bromination of 4,6-dimethoxyindoles. <i>Tetrahedron</i> , 2012, 68, 8163-8171.	1.9	13
50	Design, Synthesis and Biological Evaluation of <i>N</i> -Sulfonylphenyl glyoxamide-Based Antimicrobial Peptide Mimics as Novel Antimicrobial Agents. <i>ChemistrySelect</i> , 2017, 2, 3452-3461.	1.5	12
51	Design, Synthesis and Biological Evaluation of Triazole-Containing 2-Phenylindole and Salicylic Acid as Quorum Sensing Inhibitors Against <i>Pseudomonas aeruginosa</i> . <i>ChemistrySelect</i> , 2018, 3, 9170-9180.	1.5	12
52	Novel Seleno- and Thio-Urea Containing Dihydropyrrol-2-One Analogues as Antibacterial Agents. <i>Antibiotics</i> , 2021, 10, 321.	3.7	12
53	Indole-based mono- and poly-nuclear acyclic chelating systems: syntheses and selected transition metal complexes. <i>Dalton Transactions RSC</i> , 2001, , 1948-1958.	2.3	11
54	Some electrophilic reactivity studies of di-(2-indolyl)dibenzofurans and di-(2-indolyl)carbazoles. <i>Tetrahedron</i> , 2014, 70, 9601-9614.	1.9	11

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55	Formation of C-Amido-calix[3]indoles from 2- and 7-Indolylglyoxylamides. <i>Tetrahedron</i> , 2000, 56, 8513-8524.	1.9	10
56	Synthesis of new di-(3-indolyl)arenes. <i>Tetrahedron</i> , 2012, 68, 7429-7434.	1.9	10
57	Novel colorimetric anion sensors based on N-acetylglyoxylic amides containing nitrophenyl signalling units. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 121, 662-669.	3.9	10
58	Design, Synthesis and Biological Evaluation of Biphenylglyoxamide-Based Small Molecular Antimicrobial Peptide Mimics as Antibacterial Agents. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6789.	4.1	10
59	Self-assembly of alkyl N-acetylglyoxylic amides of varying chain lengths. <i>CrystEngComm</i> , 2012, 14, 7345.	2.6	9
60	Design, synthesis, and characterisation of glyoxylamide-based short peptides as self-assembled gels. <i>New Journal of Chemistry</i> , 2017, 41, 13462-13471.	2.8	9
61	Synthesis of Dextran-Phenoxodiol and Evaluation of Its Physical Stability and Biological Activity. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 183.	4.1	8
62	Synthesis of isoflavene-thiosemicarbazone hybrids and evaluation of their anti-tumor activity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 2454-2458.	2.2	7
63	A General Synthesis of 7-Phenyl-7,13-dihydro-8H-benzo[6,7]azepino[3,2-c]quinolin-8-ones. <i>Synlett</i> , 2019, 30, 567-572.	1.8	7
64	Design, Synthesis and Biological Evaluation of Novel Anthraniloyl-AMP Mimics as PQS Biosynthesis Inhibitors Against <i>Pseudomonas aeruginosa</i> Resistance. <i>Molecules</i> , 2020, 25, 3103.	3.8	7
65	Bioinspired Polydopamine Coatings Facilitate Attachment of Antimicrobial Peptidomimetics with Broad-Spectrum Antibacterial Activity. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2952.	4.1	7
66	Synthesis and evaluation of deep cavity imidazolyl calix[n]arenes. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2011, 71, 169-178.	1.6	6
67	New lower rim looped calix[4]arene for ratiometric and chromogenic recognition of Cu ²⁺ . <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2014, 80, 201-207.	1.6	6
68	Polyphenylglyoxamide-Based Amphiphilic Small Molecular Peptidomimetics as Antibacterial Agents with Anti-Biofilm Activity. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7344.	4.1	6
69	Cholic Acid-Based Antimicrobial Peptide Mimics as Antibacterial Agents. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4623.	4.1	6
70	Synthesis, anti-cancer and anti-inflammatory activity of novel 2-substituted isoflavenes. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 5182-5193.	3.0	5
71	Copper-mediated Chan-Evans-Lam N-arylation of 5-methylene-4-aryl-1,5-dihydro-2H-pyrrol-2-one derivatives. <i>Tetrahedron Letters</i> , 2018, 59, 811-814.	1.4	5
72	The Role of Orientation of Surface Bound Dihydropyrrol-2-ones (DHP) on Biological Activity. <i>Molecules</i> , 2019, 24, 2676.	3.8	5

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73	Hydrogen Bonding in Glyoxylamides. <i>Molecular Crystals and Liquid Crystals</i> , 2005, 440, 141-146.	0.9	4
74	SYNTHESIS OF OCTANDRENOLONE, FLEMICULOSIN, (Â±)-3-DEOXY-MS-II AND LAXICHALCONE. <i>Organic Preparations and Procedures International</i> , 2006, 38, 94-99.	1.3	4
75	Substituent effects in solid-state assembly of activated benzotriazoles. <i>CrystEngComm</i> , 2019, 21, 835-842.	2.6	4
76	Transition Towards Antibiotic Hybrid Vehicles: The Next Generation Antibacterials. <i>Current Medicinal Chemistry</i> , 2023, 30, 104-125.	2.4	4
77	A New Strategy for Calixindole Formation: Synthesis of a Calix[3]indole with 2,2; 7,2; 7,7-Methylene Linkages and a New Calix[4]indole with 2,2; 7,2; 7,7; 2,7-Methylene Linkages. <i>Synlett</i> , 2012, 24, 24-28.	1.8	3
78	Synthesis of Semi-Calix[4]indoles Containing Combinations of Direct Links and Methylene Linkages. <i>Synlett</i> , 2013, 24, 1497-1500.	1.8	3
79	The Mosaic of Rottlerin: The Sequel. <i>Journal of Natural Products</i> , 2019, 82, 1190-1199.	3.0	3
80	Synthesis, Characterization and Biological Evaluation of Novel Dihydropyranoindoles Improving the Anticancer Effects of HDAC Inhibitors. <i>Molecules</i> , 2020, 25, 1377.	3.8	3
81	Inhibitors of bacterial RNA polymerase transcription complex. <i>Bioorganic Chemistry</i> , 2022, 118, 105481.	4.1	3
82	Synthesis of Alkyne-Substituted Dihydropyrrolones as Bacterial Quorum-Sensing Inhibitors of <i>Pseudomonas aeruginosa</i> . <i>Antibiotics</i> , 2022, 11, 151.	3.7	3
83	Synthesis of 5-(7-Indolyl)oxazoles and 2,5-di-(7-Indolyl)oxazoles. <i>Tetrahedron</i> , 2013, 69, 2193-2198.	1.9	2
84	Synthesis of a Variety of Activated Pyrrolo[3,2,1-ij]quinolines. <i>Synthesis</i> , 2019, 51, 1989-1994.	2.3	2
85	Synthesis of Bis-Glyoxylamide Peptidomimetics Derived from Bis-N-acetylisatins Linked at C5 by a Methylene or Oxygen Bridge. <i>Molecules</i> , 2019, 24, 4343.	3.8	2
86	A facile synthesis of meta- and para-terphenylglyoxamide-based peptidomimetics. <i>Tetrahedron Letters</i> , 2020, 61, 152560.	1.4	2
87	Natural Product Rottlerin Derivatives Targeting Quorum Sensing. <i>Molecules</i> , 2021, 26, 3745.	3.8	2
88	Molecular basis of biodiversity, conservation, and sustained innovative utilization (IUPAC Technical) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.9	2
89	Enantioselective Metal Catalyzed Oxidation Processes. , 0, , 219-229.		1
90	Some reactions of 6,8-dimethoxy pyrrolo[3,2,1-hi]indoles. <i>Tetrahedron</i> , 2009, 65, 2059-2066.	1.9	1

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91	Rules for abbreviation of protecting groups (IUPAC Technical Report). Pure and Applied Chemistry, 2012, 85, 307-313.	1.9	1
92	Efficient Access to Chromeno[4,3-b]quinolines Related to Dependensin. Synlett, 2017, 28, 1979-1983.	1.8	1
93	Synthesis and Characterisation of Novel Tricyclic and Tetracyclic Furoindoles: Biological Evaluation as SAHA Enhancer against Neuroblastoma and Breast Cancer Cells. Molecules, 2021, 26, 5745.	3.8	1
94	Fluorinated quorum sensing inhibitors: enhancement of potency through conformational control. Organic and Biomolecular Chemistry, 2021, 19, 9629-9636.	2.8	1
95	The International Council for Science. Chemistry International, 2014, 36, .	0.3	1
96	Synthesis of mixed cyclotriveratrylenes. Tetrahedron, 2012, 68, 1862-1868.	1.9	0
97	A General Synthesis of Benzoazepinoindoles – A New Class of Heterocycles. Synlett, 2019, 30, 2081-2085.	1.8	0
98	Synthesis of a Novel Library of 1-Substituted Pyrido[1,2-a]benzimidazoles. Australian Journal of Chemistry, 2020, 73, 1208.	0.9	0
99	Synthesis of 3-indolylimines from 3-acetamido-2-phenylindole. Tetrahedron, 2020, 76, 131224.	1.9	0
100	PAC Natural Products: A Story Six Decades in the Making. Chemistry International, 2020, 42, 24-28.	0.3	0