Stephen Hilton

List of Publications by Year
in descending order

52 papers	1,276 citations	430874 18 h-index	361022 35 g-index
69 all docs	69 docs citations	69 times ranked	1854 citing authors

#	Article	IF	Citations
1	Development and analysis of a novel loading technique for FDM 3D printed systems: Microwave-assisted impregnation of gastro-retentive PVA capsular devices. International Journal of Pharmaceutics, 2022, 613, 121386.	5.2	8
2	Using the pandemic as a driver for innovation in research. Nature Reviews Methods Primers, 2022, 2, .	21.2	2
3	Extending practical flow chemistry into the undergraduate curriculum via the use of a portable low-cost 3D printed continuous flow system. Journal of Flow Chemistry, 2021, 11, 19-29.	1.9	6
4	Epi-3,6-dithio-2,5-diketopiperazines (ETPs): an overview of synthetic approaches to the ETP core. Progress in Heterocyclic Chemistry, 2021, , 27-105.	0.5	2
5	Selective Modulation of Î±5 GABAA Receptors Exacerbates Aberrant Inhibition at Key Hippocampal Neuronal Circuits in APP Mouse Model of Alzheimerâ€™s Disease. Frontiers in Cellular Neuroscience, 2020, 14, 568194.	3.7	8
6	Design and development of 3D printed catalytically-active stirrers for chemical synthesis. Reaction Chemistry and Engineering, 2020, 5, 853-858.	3.7	24
7	3Dâ€Printed Franz cells â€“ update on optimization of manufacture and evaluation. International Journal of Cosmetic Science, 2020, 42, 415-419.	2.6	3
8	Novel epidithiodiketopiperazines as anti-viral zinc ejectors of the Feline Immunodeficiency Virus (FIV) nucleocapsid protein as a model for HIV infection. Bioorganic and Medicinal Chemistry, 2019, 27, 4174-4184.	3.0	6
9	A Preliminary Investigation of Additive Manufacture to Fabricate Human Nail Plate Surrogates for Pharmaceutical Testing. Pharmaceutics, 2019, 11, 250.	4.5	3
10	Supportingâ€Electrolyteâ€Free Electrochemical Methoxymethylation of Alcohols Using a 3Dâ€Printed Electrosynthesis Continuous Flow Cell System. ChemElectroChem, 2019, 6, 4144-4148.	3.4	35
11	Modular 3D Printed Compressed Air Driven Continuousâ€Flow Systems for Chemical Synthesis. European Journal of Organic Chemistry, 2019, 2019, 3783-3787.	2.4	26
12	Exploration and Development of a Câ€“H-Activated Route to Access the [1,2]Dithiolo[4,3-b]indole-3(4H)-thione Core and Related Derivatives. Synlett, 2019, 30, 156-160.	1.8	3
13	Investigation of the Pentathiepin Functionality as an Inhibitor of Feline Immunodeficiency Virus (FIV) via a Potential Zinc Ejection Mechanism, as a Model for HIV Infection. ChemMedChem, 2019, 14, 454-461.	3.2	9
14	Design, 3D printing and validation of a novel low-cost high-capacity sitting-drop bridge for protein crystallization. Journal of Applied Crystallography, 2019, 52, 171-174.	4.5	3
15	Investigations into inÂsitu Enterococcus faecalis biofilm removal by passive and active sodium hypochlorite irrigation delivered into the lateral canal of a simulated root canal model. International Endodontic Journal, 2018, 51, 649-662.	5.0	29
16	3Dâ€printed Franz type diffusion cells. International Journal of Cosmetic Science, 2018, 40, 604-609.	2.6	7
17	Two strategies to enhance ungual drug permeation from UV-cured films: Incomplete polymerisation to increase drug release and incorporation of chemical enhancers. European Journal of Pharmaceutical Sciences, 2018, 123, 217-227.	4.0	6
18	Physiological signature of a novel potentiator of AMPA receptor signalling. Molecular and Cellular Neurosciences, 2018, 92, 82-92.	2.2	0

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19	Epidithiodiketopiperazines Inhibit Protein Degradation by Targeting Proteasome Deubiquitinase Rpn11. Cell Chemical Biology, 2018, 25, 1350-1358.e9.	5.2	30
20	Short Total Synthesis of (Â±)â€Î³â€Lycorane by a Sequential Intramolecular Acylal Cyclisation (IAC) and Intramolecular Heck Addition Reaction. Chemistry - A European Journal, 2017, 23, 4750-4755.	3.3	22
21	Frontispiece: Short Total Synthesis of (Â±)â€Î³â€Lycorane by a Sequential Intramolecular Acylal Cyclisation (IAC) and Intramolecular Heck Addition Reaction. Chemistry - A European Journal, 2017, 23, .	3.3	0
22	The effect of sodium hypochlorite concentration and irrigation needle extension on biofilm removal from a simulated root canal model. Australian Endodontic Journal, 2017, 43, 102-109.	1.5	17
23	Patient-specific 3D scanned and 3D printed antimicrobial polycaprolactone wound dressings. International Journal of Pharmaceutics, 2017, 527, 161-170.	5.2	236
24	Investigation to test potential stereolithography materials for development of anin vitroroot canal model. Microscopy Research and Technique, 2017, 80, 202-210.	2.2	11
25	Confocal laser scanning, scanning electron, and transmission electron microscopy investigation of Enterococcus faecalis biofilm degradation using passive and active sodium hypochlorite irrigation within a simulated root canal model. MicrobiologyOpen, 2017, 6, e00455.	3.0	26
26	3Dâ€Printed Polypropylene Continuousâ€Flow Column Reactors: Exploration of Reactor Utility in S_NAr Reactions and the Synthesis of Bicyclic and Tetracyclic Heterocycles. European Journal of Organic Chemistry, 2017, 2017, 6499-6504.	2.4	41
27	Three-Dimensional Printing of a Scalable Molecular Model and Orbital Kit for Organic Chemistry Teaching and Learning. Journal of Chemical Education, 2017, 94, 1265-1271.	2.3	41
28	A novel experimental approach to investigate the effect of different agitation methods using sodium hypochlorite as an irrigant on the rate of bacterial biofilm removal from the wall of a simulated root canal model. Dental Materials, 2016, 32, 1289-1300.	3.5	26
29	Evaluation of Substituted 1,2,3â€Dithiazoles as Inhibitors of the Feline Immunodeficiency Virus (FIV) Nucleocapsid Protein via a Proposed Zinc Ejection Mechanism. ChemMedChem, 2016, 11, 2119-2126.	3.2	20
30	UV-curable gels as topical nail medicines:In vivo residence, anti-fungal efficacy and influence of gel components on their properties. International Journal of Pharmaceutics, 2016, 514, 244-254.	5.2	3
31	Intramolecular Acylal Cyclisation (IAC) as an Efficient Synthetic Strategy towards the Total Synthesis of Erythrina Alkaloid Derivatives. Chemistry - A European Journal, 2015, 21, 13909-13912.	3.3	13
32	A Common Precursor Approach to Structurally Diverse Natural Products: The Synthesis of the Core Structure of (Â±)â€Clausenamide and the Total Synthesis of (Â±)â€Hyalodendrin. European Journal of Organic Chemistry, 2015, 2015, 7438-7442.	2.4	13
33	UV-curable gel formulations: Potential drug carriers for the topical treatment of nail diseases. International Journal of Pharmaceutics, 2015, 492, 177-190.	5.2	19
34	Rapid, simple and inexpensive production of custom 3D printed equipment for large-volume fluorescence microscopy. International Journal of Pharmaceutics, 2015, 494, 651-656.	5.2	30
35	Novel fused tetrathiocines as antivirals that target the nucleocapsid zinc finger containing protein of the feline immunodeficiency virus (FIV) as a model of HIV infection. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 1352-1355.	2.2	16
36	A Radical-Mediated Approach to the Total Synthesis of Fluorinated Marinoquinoline A and Related Tricyclic and Tetracyclic Congeners. Synlett, 2014, 26, 79-83.	1.8	6

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37	Evaluation of the antiviral efficacy of bis[1,2]dithiolo[1,4]thiazines and bis[1,2]dithiolopyrrole derivatives against the nucelocapsid protein of the Feline Immunodeficiency Virus (FIV) as a model for HIV infection. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 2640-2644.	2.2	17
38	Tuneable radical cyclisations: a tin-free approach towards tricyclic and spirocyclic heterocycles via a common precursor. RSC Advances, 2014, 4, 18930-18932.	3.6	9
39	The influence of positional isomerism on G-quadruplex binding and anti-proliferative activity of tetra-substituted naphthalene diimide compounds. Bioorganic and Medicinal Chemistry, 2013, 21, 6162-6170.	3.0	17
40	A Mild and Convenient Base-Catalysed Approach to Disubstituted Epidithiodiketopiperazines. Synlett, 2013, 24, 2563-2566.	1.8	7
41	Identification and characterisation of 2-aminopyridine inhibitors of checkpoint kinase 2. Bioorganic and Medicinal Chemistry, 2010, 18, 707-718.	3.0	50
42	Heteroaryl Radicals Review. Advances in Heterocyclic Chemistry, 2010, , 101-143.	1.7	9
43	Epidithiodiketopiperazines Block the Interaction between Hypoxia-inducible Factor-1Î± (HIF-1Î±) and p300 by a Zinc Ejection Mechanism. Journal of Biological Chemistry, 2009, 284, 26831-26838.	3.4	148
44	A concise approach to the epidithiodiketopiperazine (ETP) core. Tetrahedron Letters, 2006, 47, 2387-2390.	1.4	27
45	Observations on the reactivity of thiyl radicals derived from 3,6-epidithiodiketopiperazine-2,5-diones and related congeners. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 2239-2242.	2.2	16
46	An Expedient Entry into the ?-Mercaptodiketopiperazine Nucleus.. ChemInform, 2005, 36, no.	0.0	0
47	A Convenient Synthesis of 2-Cyano-3-Substituted Indoles.. ChemInform, 2005, 36, no.	0.0	0
48	An Expedient Entry into the Î±-Mercaptodiketopiperazine Nucleus. Synlett, 2004, 2004, 2609-2611.	1.8	0
49	A Convenient Synthesis of 2-Cyano-3-Substituted Indoles. Synlett, 2004, 2004, 2806-2808.	1.8	1
50	A tandem radical approach to the ABCE-rings of the Aspidosperma and Strychnos alkaloids. Chemical Communications, 2001, , 209-210.	4.1	31
51	A New Route to Spirooxindoles. Organic Letters, 2000, 2, 2639-2641.	4.6	183
52	The tandem radical route to indole alkaloids: an unusual rearrangement reaction. Arkivoc, 2000, 2007, 120-128.	0.5	1