

David E Hibbs

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74
papers

1,731
citations

20
h-index

40
g-index

79
ext. papers

1,994
ext. citations

4.8
avg, IF

4.42
L-index

#	Paper	IF	Citations
74	Hybrid density functional theory for pi-stacking interactions: application to benzenes, pyridines, and DNA bases. <i>Journal of Computational Chemistry</i> , 2006 , 27, 491-504	3.5	226
73	Methods for the detection and identification of pathogenic bacteria: past, present, and future. <i>Chemical Society Reviews</i> , 2017 , 46, 4818-4832	58.5	204
72	Effects of bioisosteric fluorine in synthetic cannabinoid designer drugs JWH-018, AM-2201, UR-144, XLR-11, PB-22, 5F-PB-22, APICA, and STS-135. <i>ACS Chemical Neuroscience</i> , 2015 , 6, 1445-58	5.7	138
71	Novel PPAR-gamma agonists identified from a natural product library: a virtual screening, induced-fit docking and biological assay study. <i>Chemical Biology and Drug Design</i> , 2008 , 71, 57-70	2.9	89
70	7-Hydroxy-benzopyran-4-one derivatives: a novel pharmacophore of peroxisome proliferator-activated receptor alpha and -gamma (PPARalpha and gamma) dual agonists. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 6835-50	8.3	77
69	Calculation of the hydrophobicity of platinum drugs. <i>Journal of Medicinal Chemistry</i> , 2001 , 44, 472-4	8.3	75
68	The synthesis and pharmacological evaluation of adamantane-derived indoles: cannabimimetic drugs of abuse. <i>ACS Chemical Neuroscience</i> , 2013 , 4, 1081-92	5.7	67
67	A novel class of thiosemicarbazones show multi-functional activity for the treatment of Alzheimer's disease. <i>European Journal of Medicinal Chemistry</i> , 2017 , 139, 612-632	6.8	50
66	Experimental and theoretical charge density study of the neurotransmitter taurine. <i>Chemistry - A European Journal</i> , 2003 , 9, 1075-84	4.8	46
65	The experimental electron density in polymorphs A and B of the anti-ulcer drug famotidine. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2004 , 60, 480-7		43
64	Experimental and Theoretical Charge Density Studies of Tetrafluorophthalonitrile and Tetrafluoroisophthalonitrile. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 3663-3672	3.4	43
63	X-N charge density analysis of the hydrogen bonding motif in 1-(2-hydroxy-5-nitrophenyl)ethanone. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 1191-8	3.9	36
62	Spontaneous Adverse Event Reports Associated with Zolpidem in the United States 2003-2012. <i>Journal of Clinical Sleep Medicine</i> , 2017 , 13, 223-234	3.1	35
61	New Delhi metallo-β-lactamase-1: structure, inhibitors and detection of producers. <i>Future Medicinal Chemistry</i> , 2016 , 8, 993-1012	4.1	33
60	Novel diagnostics for point-of-care bacterial detection and identification.. <i>RSC Advances</i> , 2019 , 9, 21486-21497	3.7	29
59	Conformations, energies, and intramolecular hydrogen bonds in dicarboxylic acids: implications for the design of synthetic dicarboxylic acid receptors. <i>Journal of Computational Chemistry</i> , 2005 , 26, 1233-41	3.5	27
58	Potentiating the cellular targeting and anti-tumor activity of Dp44mT via binding to human serum albumin: two saturable mechanisms of Dp44mT uptake by cells. <i>Oncotarget</i> , 2015 , 6, 10374-98	3.3	25

57	Structure-activity relationships of synthetic cannabinoid designer drug RCS-4 and its regioisomers and C4 homologues. <i>Forensic Toxicology</i> , 2015 , 33, 355-366	2.6	23
56	A Carbocyclic Curcumin Inhibits Proliferation of Gram-Positive Bacteria by Targeting FtsZ. <i>Biochemistry</i> , 2017 , 56, 514-524	3.2	21
55	A new orbital-based model for the analysis of experimental molecular charge densities: an application to (Z)-N-methyl-C-phenylnitron. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 1772-8	3.6	21
54	Identification of agents targeting FtsZ assembly. <i>Future Medicinal Chemistry</i> , 2016 , 8, 1111-32	4.1	20
53	The electron density in flavones I. Baicalein. <i>New Journal of Chemistry</i> , 2003 , 27, 1392-1398	3.6	20
52	Experimental and theoretical charge distribution in (Z)-N-methyl-C-phenylnitron. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 1034-40	3.9	20
51	Surveillance for azole resistance in clinical and environmental isolates of <i>Aspergillus fumigatus</i> in Australia and cyp51A homology modelling of azole-resistant isolates. <i>Journal of Antimicrobial Chemotherapy</i> , 2018 , 73, 2347-2351	5.1	20
50	The discovery of novel isoflavone pan peroxisome proliferator-activated receptor agonists. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 766-78	3.4	19
49	Insights into bonding and hydrogen bond directionality in thioacetamide from the experimental charge distribution. <i>Perkin Transactions II RSC</i> , 2002 , 235-239		19
48	An Investigation of the Differential Effects of Ursane Triterpenoids from <i>Centella asiatica</i> , and Their Semisynthetic Analogues, on GABAA Receptors. <i>Chemical Biology and Drug Design</i> , 2016 , 88, 386-97	2.9	17
47	Experimental and theoretical charge density distribution in two ternary cobalt(III) complexes of aromatic amino acids. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 10123-33	2.8	17
46	Design, synthesis and evaluation of halogenated furanone derivatives as quorum sensing inhibitors in <i>Pseudomonas aeruginosa</i> . <i>European Journal of Pharmaceutical Sciences</i> , 2019 , 140, 105058	5.1	16
45	Using Electron Density to Predict Synthion Formation in a 4-Hydroxybenzoic Acid: 4,4'-Bipyridine Cocrystal. <i>Crystal Growth and Design</i> , 2018 , 18, 1786-1798	3.5	16
44	An analysis of the experimental and theoretical charge density distributions of the piroxicam-β-carbacin co-crystal and its constituents. <i>RSC Advances</i> , 2016 , 6, 81578-81590	3.7	15
43	Experimental and theoretical charge density studies of 8-hydroxyquinoline cocrystallized with salicylic acid. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 3420-7	2.8	14
42	Experimental charge density of a potential DHO synthetase inhibitor: dimethyl-trans-2-oxohexahydro-pyrimidine-4,6-dicarboxylate. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 441-7	3.9	14
41	Standardisation of the FAERS database: a systematic approach to manually recoding drug name variants. <i>Pharmacoepidemiology and Drug Safety</i> , 2015 , 24, 731-7	2.6	13
40	A comparison of the experimental and theoretical charge density distributions in two polymorphic modifications of piroxicam. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 28802-28818	3.6	13

39	First Nondiscriminating Translocator Protein Ligands Produced from a Carbazole Scaffold. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 8235-8248	8.3	12
38	Experimental and theoretical charge density distribution in Pigment Yellow 101. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 4677-86	3.6	12
37	T-Cell Antigen Receptor-alpha Chain Transmembrane Peptides: Correlation between Structure and Function. <i>International Journal of Peptide Research and Therapeutics</i> , 2006 , 12, 261-267	2.1	12
36	Identification of dual PPAR α agonists and their effects on lipid metabolism. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 7676-84	3.4	11
35	Comparison of the structure property relationships in LB films of zwitterionic TCNQ adducts. <i>Journal of Materials Chemistry</i> , 2005 , 15, 1437		10
34	Mutations, Extrolite Profiles, and Antifungal Susceptibility in Clinical and Environmental Isolates of the <i>Aspergillus viridinutans</i> Species Complex. <i>Antimicrobial Agents and Chemotherapy</i> , 2019 , 63,	5.9	9
33	The multikinase inhibitor axitinib is a potent inhibitor of human CYP1A2. <i>Biochemical Pharmacology</i> , 2014 , 88, 245-52	6	9
32	Strategies to develop selective CB receptor agonists from indole carboxamide synthetic cannabinoids. <i>European Journal of Medicinal Chemistry</i> , 2019 , 180, 291-309	6.8	8
31	Alanine aminopeptidase-activated fluorogenic probes for the rapid identification of <i>Pseudomonas aeruginosa</i> in clinical samples. <i>RSC Advances</i> , 2016 , 6, 58884-58889	3.7	8
30	Comparison of templates for homology model of α GABAC receptors: More insights to the orthosteric binding site structure and functionality. <i>Journal of Molecular Graphics and Modelling</i> , 2015 , 62, 43-55	2.8	7
29	Kleberbergite, Sb ₄ O ₄ SO ₄ (OH) ₂ : Stability relationships, formation in Nature, and refinement of its structure. <i>American Mineralogist</i> , 2015 , 100, 602-607	2.9	7
28	Experimental and theoretical charge density distribution in a host-guest system: synthetic terephthaloyl receptor complexed to adipic acid. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 5618-28	2.8	7
27	Rapid access to N-(indol-2-yl)amides and N-(indol-3-yl)amides as unexplored pharmacophores. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 576-580	3.9	6
26	Monoclinic Paracetamol vs. Paracetamol-4,4'-Bipyridine Co-Crystal; What Is the Difference? A Charge Density Study. <i>Crystals</i> , 2018 , 8, 46	2.3	6
25	A latent green fluorescent styrylcoumarin probe for the selective growth and detection of Gram negative bacteria. <i>Bioorganic and Medicinal Chemistry</i> , 2018 , 26, 4745-4750	3.4	5
24	Crystal and Molecular Structures of Three Salts of $[Co(R,R-Picchxn)(R-Phe)]_2^{2+}$ (Picchxn=N,N-1-DI(2-Picolyl)-1,2-Diaminocyclohexane; Phe = Phenylalaninato(1)). <i>Journal of Coordination Chemistry</i> , 2003 , 56, 389-395	1.6	5
23	Investigating the Role of Loop C Hydrophilic Residue α 244 on the Binding Site of α GABAC Receptors via Site Mutation and Partial Agonism. <i>PLoS ONE</i> , 2016 , 11, e0156618	3.7	4
22	Structural and compositional variations of basic Cu(II) chlorides in the herbertsmithite and gillardite structure field. <i>Mineralogical Magazine</i> , 2017 , 81, 123-134	1.7	3

21	Tubulin-Binding 3,5-Bis(styryl)pyrazoles as Lead Compounds for the Treatment of Castration-Resistant Prostate Cancer. <i>Molecular Pharmacology</i> , 2020 , 97, 409-422	4.3	3
20	Tricyclic heterocycles display diverse sensitivity to the A147T TSPO polymorphism. <i>European Journal of Medicinal Chemistry</i> , 2020 , 207, 112725	6.8	3
19	Exploring the Binding of Barbitol to a Synthetic Macrocyclic Receptor. A Charge Density Study. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 3031-3044	2.8	2
18	A Selective, Dual Emission β -Alanine Aminopeptidase Activated Fluorescent Probe for the Detection of Ca^{2+} , pH , and NO_2^- . <i>Molecules</i> , 2019 , 24,	4.8	2
17	Investigations of amide bond variation and biaryl modification in analogues of μ nAChR agonist SEN12333. <i>European Journal of Medicinal Chemistry</i> , 2014 , 84, 200-5	6.8	2
16	Quantum-Chemical Design of Cryptand-like Ditopic Salt Binders. <i>Journal of Chemical Theory and Computation</i> , 2006 , 2, 354-63	6.4	2
15	Structure-activity relationships of valine, -leucine, and phenylalanine amino acid-derived synthetic cannabinoid receptor agonists related to ADB-BUTINACA, APP-BUTINACA, and ADB-P7AICA.. <i>RSC Medicinal Chemistry</i> , 2022 , 13, 156-174	3.5	2
14	Exploring the Solubility of the Carbamazepine β accharin Cocrystal: A Charge Density Study. <i>Crystal Growth and Design</i> , 2018 ,	3.5	2
13	Analyzing Hydration Differences in Cocrystal Polymorphs: High-Resolution X-ray Investigation of Caffeine β Glutaric Acid Cocrystals. <i>Crystal Growth and Design</i> , 2021 , 21, 4456-4467	3.5	2
12	Delivering anion transporters to lipid bilayers in water. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 9624-9628	3.9	1
11	Understanding Hygroscopicity of Theophylline a Novel Cocrystal Polymorph: A Charge Density Study. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 9736-9756	2.8	1
10	The Antifungal and Synergistic Effect of Bisphosphonates in. <i>Antimicrobial Agents and Chemotherapy</i> , 2021 , 65,	5.9	1
9	The discovery of a potent and selective pyrazolo-[2,3-e]-[1,2,4]-triazine cannabinoid type 2 receptor agonist. <i>European Journal of Medicinal Chemistry</i> , 2021 , 210, 113087	6.8	1
8	Enhanced skin retention and permeation of a novel peptide via structural modification, chemical enhancement, and microneedles. <i>International Journal of Pharmaceutics</i> , 2021 , 606, 120868	6.5	1
7	An experimental and theoretical charge density study of theophylline and malonic acid cocrystallization. <i>RSC Advances</i> , 2022 , 12, 15670-15684	3.7	1
6	Roles of hydrophilic residues in GABA binding site of GABA-A receptor explain the addition/inhibition effects of competitive ligands.. <i>Neurochemistry International</i> , 2021 , 153, 105258	4.4	0
5	NNL-3: A Synthetic Intermediate or a New Class of Hydroxybenzotriazole Esters with Cannabinoid Receptor Activity?. <i>ACS Chemical Neuroscience</i> , 2021 , 12, 4020-4036	5.7	0
4	PHYTOTHERAPY PHARMACOPHORES FOR MAJOR CELLULAR DRUG TARGETS 2015 , 268-311		

3 PHYTOTHERAPIES AS NEW DRUG SOURCES **2015**, 330-369

2 Gelsaite, $\text{BiMo}_6(2\text{Bx})\text{Mo}_5+6\text{xO}_7(\text{OH})\cdot\text{H}_2\text{O}$ (0 ≤ x ≤ 0.4), a new mineral from Su Senargiu (CA), Sardinia, Italy, and a second occurrence from Kingsgate, New England, Australia. *American Mineralogist*, **2011**, 96, 268-273 2.9

1 Drug Targets for Biologics **2020**, 71-88