

William J Welsh

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

708
citations

759233

12
h-index

713466

21
g-index

21
all docs

21
docs citations

21
times ranked

1107
citing authors

#	ARTICLE	IF	CITATIONS
1	Shape Signatures: A New Approach to Computer-Aided Ligand- and Receptor-Based Drug Design. <i>Journal of Medicinal Chemistry</i> , 2003, 46, 5674-5690.	6.4	122
2	Phase-Transition Microneedle Patches for Efficient and Accurate Transdermal Delivery of Insulin. <i>Advanced Functional Materials</i> , 2015, 25, 4633-4641.	14.9	106
3	Stepping into the omics era: Opportunities and challenges for biomaterials science and engineering. <i>Acta Biomaterialia</i> , 2016, 34, 133-142.	8.3	88
4	Micellar and structural stability of nanoscale amphiphilic polymers: Implications for anti-atherosclerotic bioactivity. <i>Biomaterials</i> , 2016, 84, 230-240.	11.4	74
5	Evolving Carbapenemases: Can Medicinal Chemists Advance One Step Ahead of the Coming Storm?. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 3013-3027.	6.4	55
6	Tartaric acid-based amphiphilic macromolecules with ether linkages exhibit enhanced repression of oxidized low density lipoprotein uptake. <i>Biomaterials</i> , 2015, 53, 32-39.	11.4	42
7	3D-QSAR Comparative Molecular Field Analysis on Opioid Receptor Antagonists: Pooling Data from Different Studies. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 1620-1629.	6.4	36
8	A Novel High-Throughput Approach to Measure Hydroxyl Radicals Induced by Airborne Particulate Matter. <i>International Journal of Environmental Research and Public Health</i> , 2015, 12, 13678-13695.	2.6	28
9	Virtual Screening and Experimental Testing of B1 Metallo- β -lactamase Inhibitors. <i>Journal of Chemical Information and Modeling</i> , 2018, 58, 1902-1914.	5.4	26
10	Novel Virtual Screening Approach for the Discovery of Human Tyrosinase Inhibitors. <i>PLoS ONE</i> , 2014, 9, e112788.	2.5	23
11	Elucidating the Role of Residue 67 in IMP-Type Metallo- β -Lactamase Evolution. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 7299-7307.	3.2	19
12	Novel delta opioid receptor agonists exhibit differential stimulation of signaling pathways. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 6442-6450.	3.0	14
13	Comprehensive 3D-QSAR Model Predicts Binding Affinity of Structurally Diverse Sigma 1 Receptor Ligands. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 486-497.	5.4	12
14	Niclosamide is a Negative Allosteric Modulator of Group I Metabotropic Glutamate Receptors: Implications for Neuropathic Pain. <i>Pharmaceutical Research</i> , 2016, 33, 3044-3056.	3.5	11
15	High dimensional model representation constructed by support vector regression. I. Independent variables with known probability distributions. <i>Journal of Mathematical Chemistry</i> , 2017, 55, 278-303.	1.5	10
16	3D-QSAR comparative molecular field analysis on delta opioid receptor agonist SNC80 and its analogs. <i>Journal of Molecular Graphics and Modelling</i> , 2005, 24, 25-33.	2.4	9
17	Avalanche for shape and feature-based virtual screening with 3D alignment. <i>Journal of Computer-Aided Molecular Design</i> , 2015, 29, 1015-1024.	2.9	9
18	Novel Sigma 1 Receptor Antagonists as Potential Therapeutics for Pain Management. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 890-904.	6.4	9

#	ARTICLE	IF	CITATIONS
19	Experimental Design of Formulations Utilizing High Dimensional Model Representation. Journal of Physical Chemistry A, 2015, 119, 8237-8249.	2.5	8
20	Polyester monomers lack ability to bind and activate both androgenic and estrogenic receptors as determined by In Vitro and In Silico methods. Food and Chemical Toxicology, 2015, 75, 128-138.	3.6	4
21	QSAR-Based Computational Approaches to Accelerate the Discovery of Sigma-2 Receptor (S2R) Ligands as Therapeutic Drugs. Molecules, 2021, 26, 5270.	3.8	3