

Marc A Ilies

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7513210/publications.pdf>

Version: 2024-02-01

62
papers

2,627
citations

172457

29
h-index

182427

51
g-index

68
all docs

68
docs citations

68
times ranked

2694
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and Retrostructural Analysis of Libraries of AB ₃ and Constitutional Isomeric AB ₂ Phenylpropyl Ether-Based Supramolecular Dendrimers. <i>Journal of the American Chemical Society</i> , 2006, 128, 3324-3334.	13.7	154
2	Carbonic anhydrase inhibitors - Part 49: Synthesis of substituted ureido and thioureido derivatives of aromatic/heterocyclic sulfonamides with increased affinities for isozyme I. <i>European Journal of Medicinal Chemistry</i> , 1998, 33, 83-93.	5.5	152
3	Carbonic Anhydrase Inhibitors: Synthesis of Membrane-Impermeant Low Molecular Weight Sulfonamides Possessing in Vivo Selectivity for the Membrane-Bound versus Cytosolic Isozymes I. <i>Journal of Medicinal Chemistry</i> , 2000, 43, 292-300.	6.4	147
4	Carbonic Anhydrase Inhibitors: Water-Soluble 4-Sulfamoylphenylthioureas as Topical Intraocular Pressure-Lowering Agents with Long-Lasting Effects. <i>Journal of Medicinal Chemistry</i> , 2000, 43, 4884-4892.	6.4	143
5	Carbonic Anhydrase Inhibitors. Inhibition of Tumor-Associated Isozyme IX by Halogenosulfanilamide and Halogenophenylaminobenzolamide Derivatives. <i>Journal of Medicinal Chemistry</i> , 2003, 46, 2187-2196.	6.4	141
6	Carbonic anhydrase inhibitors Part 29 1: Interaction of isozymes I, II and IV with benzolamide-like derivatives. <i>European Journal of Medicinal Chemistry</i> , 1998, 33, 739-751.	5.5	135
7	Carbonic anhydrase inhibitors Part 52. Metal complexes of heterocyclic sulfonamides: A new class of strong topical intraocular pressure-lowering agents in rabbits. <i>European Journal of Medicinal Chemistry</i> , 1998, 33, 247-254.	5.5	131
8	Endothelial Targeting of Antibody-Decorated Polymeric Filomicelles. <i>ACS Nano</i> , 2011, 5, 6991-6999.	14.6	102
9	Carbonic anhydrase inhibitors: aromatic and heterocyclic sulfonamides incorporating adamantyl moieties with strong anticonvulsant activity. <i>Bioorganic and Medicinal Chemistry</i> , 2004, 12, 2717-2726.	3.0	90
10	Formation and Colloidal Stability of DMPC Supported Lipid Bilayers on SiO ₂ Nanobeads. <i>Langmuir</i> , 2010, 26, 12081-12088.	3.5	81
11	Synthetic Nucleic Acid Delivery Systems: Present and Perspectives. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 4091-4130.	6.4	78
12	Heterocyclic Cationic Gemini Surfactants: A Comparative Overview of Their Synthesis, Self-Assembling, Physicochemical, and Biological Properties. <i>Medicinal Research Reviews</i> , 2014, 34, 1-44.	10.5	75
13	Carbonic anhydrase inhibitors Part 53. Synthesis of substituted-pyridinium derivatives of aromatic sulfonamides: The first non-polymeric membrane-impermeable inhibitors with selectivity for isozyme IV. <i>European Journal of Medicinal Chemistry</i> , 1998, 33, 577-594.	5.5	74
14	Carbonic Anhydrase Activators: Design of High Affinity Isozymes I, II, and IV Activators, Incorporating Tri-/Tetrasubstituted-pyridinium-azole Moieties. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 504-510.	6.4	74
15	Pyridinium cationic lipids in gene delivery: an in vitro and in vivo comparison of transfection efficiency versus a tetraalkylammonium congener. <i>Archives of Biochemistry and Biophysics</i> , 2005, 435, 217-226.	3.0	72
16	Cationic Lipids in Gene Delivery: Principles, Vector Design and Therapeutical Applications. <i>Current Pharmaceutical Design</i> , 2002, 8, 2441-2473.	1.9	59
17	Stabilization of Soft Lipid Colloids: Competing Effects of Nanoparticle Decoration and Supported Lipid Bilayer Formation. <i>ACS Nano</i> , 2011, 5, 2619-2628.	14.6	57
18	PEGylated Bis-Sulfonamide Carbonic Anhydrase Inhibitors Can Efficiently Control the Growth of Several Carbonic Anhydrase IX-Expressing Carcinomas. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 5077-5088.	6.4	53

#	ARTICLE	IF	CITATIONS
19	Carbonic anhydrases as disease markers. <i>Expert Opinion on Therapeutic Patents</i> , 2019, 29, 509-533.	5.0	51
20	pH-Sensitive Multiligand Gold Nanoplatform Targeting Carbonic Anhydrase IX Enhances the Delivery of Doxorubicin to Hypoxic Tumor Spheroids and Overcomes the Hypoxia-Induced Chemoresistance. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17792-17808.	8.0	50
21	Ethylene bis-imidazoles are highly potent and selective activators for isozymes VA and VII of carbonic anhydrase, with a potential nootropic effect. <i>Chemical Communications</i> , 2014, 50, 5980-5983.	4.1	48
22	Carbonic Anhydrase Inhibitors: Synthesis of Sulfonamides Incorporating 2, 4, 6- ϵ -Trisubstituted-Pyridinium-Ethylcarboxamido Moieties Possessing Membrane-Impermeability and in Vivo Selectivity for the Membrane-Bound (CA IV) Versus the Cytosolic (CA I and CA II) Isozymes. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2000, 15, 381-401.	0.5	47
23	Modulation of Pyridinium Cationic Lipid-DNA Complex Properties by Pyridinium Gemini Surfactants and Its Impact on Lipoplex Transfection Properties. <i>Molecular Pharmaceutics</i> , 2014, 11, 545-559.	4.6	46
24	Choline Is an Intracellular Messenger Linking Extracellular Stimuli to IP3-Evoked Ca ²⁺ Signals through Sigma-1 Receptors. <i>Cell Reports</i> , 2019, 26, 330-337.e4.	6.4	45
25	SYNTHESIS AND CARBONIC ANHYDRASE INHIBITORY ACTIVITY OF 5-BENZOYLAMIDO- AND 5-(3-NITROBENZOYLAMIDO)- 1,3,4-THIAZAZOLE-2-SULFONAMIDE AND THEIR METAL COMPLEXES. <i>Main Group Metal Chemistry</i> , 1997, 20, .	1.6	43
26	Modifying the Hydrophilic-Hydrophobic Interface of PEG-PCL To Increase Micelle Stability: Preparation of PEG-PBO-PCL Triblock Copolymers, Micelle Formation, and Hydrolysis Kinetics. <i>Macromolecules</i> , 2012, 45, 660-665.	4.8	33
27	An inhibitor-like binding mode of a carbonic anhydrase activator within the active site of isoform II. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 2764-2768.	2.2	31
28	Interfacial engineering of pyridinium gemini surfactants for the generation of synthetic transfection systems. <i>Biomaterials</i> , 2013, 34, 6906-6921.	11.4	30
29	Pyridinium derivatives of histamine are potent activators of cytosolic carbonic anhydrase isoforms I, II and VII. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 2790.	2.8	29
30	Protease inhibitors: synthesis of bacterial collagenase and matrix metalloproteinase inhibitors incorporating arylsulfonylureido and 5-dibenzo-suberenyl/suberyl moieties. <i>Bioorganic and Medicinal Chemistry</i> , 2003, 11, 2227-2239.	3.0	28
31	Carbonic Anhydrases as Potential Targets Against Neurovascular Unit Dysfunction in Alzheimer's Disease and Stroke. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 772278.	3.4	27
32	Crystal Structure of Carbonic Anhydrase II in Complex with an Activating Ligand: Implications in Neuronal Function. <i>Molecular Neurobiology</i> , 2018, 55, 7431-7437.	4.0	26
33	Structural Basis of Nanomolar Inhibition of Tumor-Associated Carbonic Anhydrase IX: X-Ray Crystallographic and Inhibition Study of Lipophilic Inhibitors with Acetazolamide Backbone. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 13064-13075.	6.4	26
34	Therapeutic applications of serine protease inhibitors. <i>Expert Opinion on Therapeutic Patents</i> , 2002, 12, 1181-1214.	5.0	25
35	Pyridinium derivatives of 3-aminobenzenesulfonamide are nanomolar-potent inhibitors of tumor-expressed carbonic anhydrase isozymes CA IX and CA XII. <i>Bioorganic Chemistry</i> , 2020, 103, 104204.	4.1	24
36	Tuning the Self-Assembling of Pyridinium Cationic Lipids for Efficient Gene Delivery into Neuronal Cells. <i>Biomacromolecules</i> , 2013, 14, 2750-2764.	5.4	18

#	ARTICLE	IF	CITATIONS
37	Supersaturated controlled release matrix using amorphous dispersions of glipizide. International Journal of Pharmaceutics, 2016, 511, 957-968.	5.2	18
38	Supported Lipid Bilayer NanoSystems: Stabilization by Undulatory-Protrusion Forces and Destabilization by Lipid Bridging. Langmuir, 2011, 27, 5850-5861.	3.5	17
39	Protease inhibitors. European Journal of Pharmaceutical Sciences, 2000, 11, 69-79.	4.0	16
40	Interfacially Engineered Pyridinium Pseudogemini Surfactants as Versatile and Efficient Supramolecular Delivery Systems for DNA, siRNA, and mRNA. ACS Applied Materials & Interfaces, 2017, 9, 29481-29495.	8.0	13
41	Carbonic Anhydrase Inhibitors. Part 551 Metal Complexes of 1,3,4-Thiadiazole-2-Sulfonamide Derivatives: In Vitro Inhibition Studies With Carbonic Anhydrase Isozymes I, II and IV. Metal-Based Drugs, 1998, 5, 103-114.	3.8	11
42	Potential learning and memory disruptors and enhancers in a simple, 1-day operant task in mice. Behavioural Pharmacology, 2018, 29, 482-492.	1.7	11
43	Carbonic Anhydrase Inhibitors; Phosphoryl-Sulfonamides-A New Class of High Affinity Inhibitors of Isozymes I and II. Journal of Enzyme Inhibition and Medicinal Chemistry, 2000, 15, 297-309.	0.5	9
44	Solid-State Interactions at the Core-Coat Interface: Physicochemical Characterization of Enteric-Coated Omeprazole Pellets Without a Protective Sub-Coat. AAPS PharmSciTech, 2015, 16, 934-943.	3.3	9
45	Carbonic Anhydrase Inhibitors: Synthesis and Inhibition Against Isozymes I, II and IV of Topically Acting Antiglaucoma Sulfonamides Incorporating <i>cis</i> -5-Norbornene- <i>endo</i> -3-Carboxy-2-Carboxamido Moieties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2001, 16, 113-123.	0.5	8
46	Molecular and crystal structure of a self-assembling pyridinium cationic lipid. Journal of Molecular Structure, 2010, 984, 228-231.	3.6	8
47	Pyridinium Amphiphiles in Gene Delivery – Present and Perspectives. ACS Symposium Series, 2011, , 23-38.	0.5	8
48	Efficient and synergetic DNA delivery with pyridinium amphiphiles-gold nanoparticle composite systems having different packing parameters. Chemical Communications, 2016, 52, 60-63.	4.1	8
49	PEG Linker Length Strongly Affects Tumor Cell Killing by PEGylated Carbonic Anhydrase Inhibitors in Hypoxic Carcinomas Expressing Carbonic Anhydrase IX. International Journal of Molecular Sciences, 2021, 22, 1120.	4.1	8
50	A new and efficient synthetic route for the anxiolytic agent CL285032. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 259-261.	2.2	7
51	Enzyme and acid catalyzed degradation of PEG45-b-PBO0,6,9-b-PCL60 micelles: Increased hydrolytic stability by engineering the hydrophilic-hydrophobic interface. Polymer, 2013, 54, 2879-2886.	3.8	6
52	Synthetic Delivery Systems for DNA, siRNA, and mRNA Based on Pyridinium Amphiphiles. ACS Symposium Series, 2017, , 1-34.	0.5	6
53	Evaluation of the Impact of Esterases and Lipases from the Circulatory System against Substrates of Different Lipophilicity. International Journal of Molecular Sciences, 2022, 23, 1262.	4.1	5
54	Carbonic anhydrase inhibitors for the treatment of tumors. , 2019, , 331-365.		3

#	ARTICLE	IF	CITATIONS
55	Protease Inhibitors: Part 4. Synthesis of Weakly Basic Thrombin Inhibitors Incorporating Pyridinium-Sulfanilylamino-guanidine Moieties. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2000, 15, 335-356.	0.5	2
56	New Synthetic Strategies for the Management of Chagas Disease (American Trypanosomiasis). <i>Journal of Medicinal Chemistry</i> , 2014, 57, 296-297.	6.4	1
57	Drug Delivery to Hypoxic Tumors Targeting Carbonic Anhydrase IX. <i>ACS Symposium Series</i> , 2019, , 223-252.	0.5	1
58	178. Structure-Activity Relationships in a Library of Pyridinium Non-Viral Vectors for Gene Delivery. <i>Molecular Therapy</i> , 2006, 13, S69.	8.2	0
59	Interface-Engineered Amphiphilic Block Copolymers with Tuned Enzymatic Resistance for Controlled Delivery of Chemotherapeutic Drugs. <i>ACS Symposium Series</i> , 2017, , 211-229.	0.5	0
60	Efflux pumps, NHE1, monocarboxylate transporters, and ABC transporter subfamily inhibitors. , 2021, , 95-120.		0
61	Potential Model of Carbonic Anhydrase Effects on Learning and Memory. <i>FASEB Journal</i> , 2018, 32, 551.3.	0.5	0
62	Determining Key Carbonic Anhydrase Isozymes Involved in Learning and Memory via Mouse Memory Assays. <i>FASEB Journal</i> , 2018, 32, 551.2.	0.5	0