

Chester Drum

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,614
citations

394421

19
h-index

361022

35
g-index

41
all docs

41
docs citations

41
times ranked

2339
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural basis for the activation of anthrax adenyl cyclase exotoxin by calmodulin. <i>Nature</i> , 2002, 415, 396-402.	27.8	388
2	Adaptive Licensing: Taking the Next Step in the Evolution of Drug Approval. <i>Clinical Pharmacology and Therapeutics</i> , 2012, 91, 426-437.	4.7	230
3	In vivo prevention of arterial restenosis with paclitaxel-encapsulated targeted lipid-polymeric nanoparticles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 19347-19352.	7.1	121
4	Ergothioneine, an adaptive antioxidant for the protection of injured tissues? A hypothesis. <i>Biochemical and Biophysical Research Communications</i> , 2016, 470, 245-250.	2.1	89
5	Photo-response behavior of electrospun nanofibers based on spiropyran-cyclodextrin modified polymer. <i>Journal of Materials Chemistry</i> , 2010, 20, 9910.	6.7	61
6	An Extended Conformation of Calmodulin Induces Interactions between the Structural Domains of Adenyl Cyclase from <i>Bacillus anthracis</i> to Promote Catalysis. <i>Journal of Biological Chemistry</i> , 2000, 275, 36334-36340.	3.4	60
7	Multiple Cationic Residues of Anthopleurin B That Determine High Affinity and Channel Isoform Discrimination. <i>Biochemistry</i> , 1995, 34, 8533-8541.	2.5	58
8	Prioritizing Candidates of Post-Myocardial Infarction Heart Failure Using Plasma Proteomics and Single-Cell Transcriptomics. <i>Circulation</i> , 2020, 142, 1408-1421.	1.6	50
9	Component-Specific Analysis of Plasma Protein Corona Formation on Gold Nanoparticles Using Multiplexed Surface Plasmon Resonance. <i>Small</i> , 2016, 12, 1174-1182.	10.0	49
10	Oral administration of protein nanoparticles: An emerging route to disease treatment. <i>Pharmacological Research</i> , 2020, 158, 104685.	7.1	44
11	Redefining IL11 as a regeneration-limiting hepatotoxin and therapeutic target in acetaminophen-induced liver injury. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	44
12	Superstructure based on β -CD self-assembly induced by a small guest molecule. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 1934.	2.8	41
13	Treatment with the MAO-A inhibitor clorgyline elevates monoamine neurotransmitter levels and improves affective phenotypes in a mouse model of Huntington disease. <i>Experimental Neurology</i> , 2016, 278, 4-10.	4.1	38
14	Leucine 18, a Hydrophobic Residue Essential for High Affinity Binding of Anthopleurin B to the Voltage-sensitive Sodium Channel. <i>Journal of Biological Chemistry</i> , 1996, 271, 9422-9428.	3.4	33
15	Differences in the binding sites of two site-3 sodium channel toxins. <i>Pflugers Archiv European Journal of Physiology</i> , 1997, 434, 742-749.	2.8	33
16	The Role of Exposed Tryptophan Residues in the Activity of the Cardiotoxic Polypeptide Anthopleurin B. <i>Journal of Biological Chemistry</i> , 1996, 271, 23828-23835.	3.4	31
17	Structure of anthrax edema factor-calmodulin-adenosine 5-(γ , γ -methylene)-triphosphate complex reveals an alternative mode of ATP binding to the catalytic site. <i>Biochemical and Biophysical Research Communications</i> , 2004, 317, 309-314.	2.1	29
18	Surface protein engineering increases the circulation time of a cell membrane-based nanotherapeutic. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 18, 169-178.	3.3	26

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19	The Importance of Sex Stratification in Autoimmune Disease Biomarker Research: A Systematic Review. <i>Frontiers in Immunology</i> , 2018, 9, 1208.	4.8	23
20	Crystallization and preliminary X-ray study of the edema factor exotoxin adenylyl cyclase domain from <i>Bacillus anthracis</i> in the presence of its activator, calmodulin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 1881-1884.	2.5	22
21	Magnetic fields modulate metabolism and gut microbiome in correlation with <i>PGC-1α</i> expression: Follow-up to an in vitro magnetic mitohormetic study. <i>FASEB Journal</i> , 2020, 34, 11143-11167.	0.5	20
22	Predicting the Shapes of Protein Complexes through Collision Cross Section Measurements and Database Searches. <i>Analytical Chemistry</i> , 2020, 92, 12297-12303.	6.5	19
23	7 Class III adenylyl cyclases: Regulation and underlying mechanisms. <i>Advances in Second Messenger and Phosphoprotein Research</i> , 1997, 32, 137-151.	4.5	19
24	Role for Pro-13 in Directing High-Affinity Binding of Anthopleurin B to the Voltage-Sensitive Sodium Channel. <i>Biochemistry</i> , 1996, 35, 14157-14164.	2.5	15
25	Thymosin Beta-4 Is Elevated in Women With Heart Failure With Preserved Ejection Fraction. <i>Journal of the American Heart Association</i> , 2017, 6, .	3.7	12
26	Quantification of a Cardiac Biomarker in Human Serum Using Extraordinary Optical Transmission (EOT). <i>PLoS ONE</i> , 2015, 10, e0120974.	2.5	12
27	Microengineering in cardiovascular research: new developments and translational applications. <i>Cardiovascular Research</i> , 2015, 106, 9-18.	3.8	9
28	Bioorthogonal Catalysis for Treatment of Solid Tumors Using Thermostable, Self-Assembling, Single Enzyme Nanoparticles and Natural Product Conversion with Indole-3-acetic Acid. <i>ACS Nano</i> , 2022, 16, 10292-10301.	14.6	9
29	Robust Performance of Potentially Functional SNPs in Machine Learning Models for the Prediction of Atorvastatin-Induced Myalgia. <i>Frontiers in Pharmacology</i> , 2021, 12, 605764.	3.5	7
30	A general approach to protein folding using thermostable exoshells. <i>Nature Communications</i> , 2021, 12, 5720.	12.8	7
31	Sources of variability in quantifying circulating thymosin beta-4: literature review and recommendations. <i>Expert Opinion on Biological Therapy</i> , 2018, 18, 141-147.	3.1	5
32	Direct analysis “no sample preparation” of bioavailable cortisol in human plasma by weak affinity chromatography (WAC). <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1061-1062, 438-444.	2.3	4
33	Patients with acute and chronic coronary syndromes have elevated long-term thrombin generation. <i>Journal of Thrombosis and Thrombolysis</i> , 2020, 50, 421-429.	2.1	3
34	High recovery, point-of-care collection plasma separation from blood using electrospun polyacrylonitrile membranes. <i>AIChE Journal</i> , 2021, 67, e17088.	3.6	2
35	Increasing Complexity to Simplify Clinical Care: High Resolution Mass Spectrometry as an Enabler of AI Guided Clinical and Therapeutic Monitoring. <i>Advanced Therapeutics</i> , 2020, 3, 1900163.	3.2	1
36	Getting to the Heart of Consciousness. <i>Science Translational Medicine</i> , 2014, 6, .	12.4	0

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37	Taking Cancer Cells Out of Circulation. Science Translational Medicine, 2014, 6, .	12.4	0
38	The Ubiquitinase Pathway Takes Center Stage in Viral Myocarditis. Science Translational Medicine, 2014, 6, .	12.4	0
39	Watch Your Leftovers: Remnant Cholesterol Brings Oversized Risk to Cardiovascular Health. Science Translational Medicine, 2014, 6, .	12.4	0
40	TRIPOD puts prediction models on a firmer footing. Science Translational Medicine, 2015, 7, .	12.4	0
41	System-level prescriptions for adaptive drug licensing. Science Translational Medicine, 2015, 7, .	12.4	0