Chester Drum

List of Publications by Year
in descending order

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41	1,614	394421	361022
papers	citations	19 h-index	35 g-index

41	41	41	2339
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bioorthogonal Catalysis for Treatment of Solid Tumors Using Thermostable, Self-Assembling, Single Enzyme Nanoparticles and Natural Product Conversion with Indole-3-acetic Acid. ACS Nano, 2022, 16, 10292-10301.	14.6	9
2	High recovery, pointâ€ofâ€collection plasma separation from blood using electrospun polyacrylonitrile membranes. AICHE Journal, 2021, 67, e17088.	3.6	2
3	Robust Performance of Potentially Functional SNPs in Machine Learning Models for the Prediction of Atorvastatin-Induced Myalgia. Frontiers in Pharmacology, 2021, 12, 605764.	3.5	7
4	Redefining IL11 as a regeneration-limiting hepatotoxin and therapeutic target in acetaminophen-induced liver injury. Science Translational Medicine, 2021, 13, .	12.4	44
5	A general approach to protein folding using thermostable exoshells. Nature Communications, 2021, 12, 5720.	12.8	7
6	Magnetic fields modulate metabolism and gut microbiome in correlation with Pgcâ€1Î± expression: Followâ€up to an in vitro magnetic mitohormetic study. FASEB Journal, 2020, 34, 11143-11167.	0.5	20
7	Predicting the Shapes of Protein Complexes through Collision Cross Section Measurements and Database Searches. Analytical Chemistry, 2020, 92, 12297-12303.	6.5	19
8	Prioritizing Candidates of Postâ€“Myocardial Infarction Heart Failure Using Plasma Proteomics and Single-Cell Transcriptomics. Circulation, 2020, 142, 1408-1421.	1.6	50
9	Oral administration of protein nanoparticles: An emerging route to disease treatment. Pharmacological Research, 2020, 158, 104685.	7.1	44
10	Patients with acute and chronic coronary syndromes have elevated long-term thrombin generation. Journal of Thrombosis and Thrombolysis, 2020, 50, 421-429.	2.1	3
11	Increasing Complexity to Simplify Clinical Care: High Resolution Mass Spectrometry as an Enabler of AI Guided Clinical and Therapeutic Monitoring. Advanced Therapeutics, 2020, 3, 1900163.	3.2	1
12	Surface protein engineering increases the circulation time of a cell membrane-based nanotherapeutic. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 18, 169-178.	3.3	26
13	Sources of variability in quantifying circulating thymosin beta-4: literature review and recommendations. Expert Opinion on Biological Therapy, 2018, 18, 141-147.	3.1	5
14	The Importance of Sex Stratification in Autoimmune Disease Biomarker Research: A Systematic Review. Frontiers in Immunology, 2018, 9, 1208.	4.8	23
15	Thymosin Betaâ€4 Is Elevated in Women With Heart Failure With Preserved Ejection Fraction. Journal of the American Heart Association, 2017, 6, .	3.7	12
16	Direct analysis â€“ no sample preparation â€“ of bioavailable cortisol in human plasma by weak affinity chromatography (WAC). Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2017, 1061-1062, 438-444.	2.3	4
17	Componentâ€Specific Analysis of Plasma Protein Corona Formation on Gold Nanoparticles Using Multiplexed Surface Plasmon Resonance. Small, 2016, 12, 1174-1182.	10.0	49
18	Treatment with the MAO-A inhibitor clorgyline elevates monoamine neurotransmitter levels and improves affective phenotypes in a mouse model of Huntington disease. Experimental Neurology, 2016, 278, 4-10.	4.1	38

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19	Ergothioneine, an adaptive antioxidant for the protection of injured tissues? A hypothesis. Biochemical and Biophysical Research Communications, 2016, 470, 245-250.	2.1	89
20	Microengineering in cardiovascular research: new developments and translational applications. Cardiovascular Research, 2015, 106, 9-18.	3.8	9
21	Quantification of a Cardiac Biomarker in Human Serum Using Extraordinary Optical Transmission (EOT). PLoS ONE, 2015, 10, e0120974.	2.5	12
22	TRIPOD puts prediction models on a firmer footing. Science Translational Medicine, 2015, 7, .	12.4	0
23	System-level prescriptions for adaptive drug licensing. Science Translational Medicine, 2015, 7, .	12.4	0
24	Getting to the Heart of Consciousness. Science Translational Medicine, 2014, 6, .	12.4	0
25	Taking Cancer Cells Out of Circulation. Science Translational Medicine, 2014, 6, .	12.4	0
26	The Ubiquitinase Pathway Takes Center Stage in Viral Myocarditis. Science Translational Medicine, 2014, 6, .	12.4	0
27	Watch Your Leftovers: Remnant Cholesterol Brings Oversized Risk to Cardiovascular Health. Science Translational Medicine, 2014, 6, .	12.4	0
28	Adaptive Licensing: Taking the Next Step in the Evolution of Drug Approval. Clinical Pharmacology and Therapeutics, 2012, 91, 426-437.	4.7	230
29	Superstructure based on Î²-CD self-assembly induced by a small guest molecule. Physical Chemistry Chemical Physics, 2012, 14, 1934.	2.8	41
30	In vivo prevention of arterial restenosis with paclitaxel-encapsulated targeted lipidâ€“polymeric nanoparticles. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19347-19352.	7.1	121
31	Photo-response behavior of electrospun nanofibers based on spiropyran-cyclodextrin modified polymer. Journal of Materials Chemistry, 2010, 20, 9910.	6.7	61
32	Structure of anthrax edema factorâ€“calmodulinâ€“adenosine 5â€²-(Î±,Î²-methylene)-triphosphate complex reveals an alternative mode of ATP binding to the catalytic site. Biochemical and Biophysical Research Communications, 2004, 317, 309-314.	2.1	29
33	Structural basis for the activation of anthrax adenylyl cyclase exotoxin by calmodulin. Nature, 2002, 415, 396-402.	27.8	388
34	Crystallization and preliminary X-ray study of the edema factor exotoxin adenylyl cyclase domain fromBacillus anthracisin the presence of its activator, calmodulin. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 1881-1884.	2.5	22
35	An Extended Conformation of Calmodulin Induces Interactions between the Structural Domains of Adenylyl Cyclase from Bacillus anthracis to Promote Catalysis. Journal of Biological Chemistry, 2000, 275, 36334-36340.	3.4	60
36	Differences in the binding sites of two site-3 sodium channel toxins. Pflugers Archiv European Journal of Physiology, 1997, 434, 742-749.	2.8	33

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37	7 Class III adenylyl cyclases: Regulation and underlying mechanisms. Advances in Second Messenger and Phosphoprotein Research, 1997, 32, 137-151.	4.5	19
38	Role for Pro-13 in Directing High-Affinity Binding of Anthopleurin B to the Voltage-Sensitive Sodium Channelâ€. Biochemistry, 1996, 35, 14157-14164.	2.5	15
39	Leucine 18, a Hydrophobic Residue Essential for High Affinity Binding of Anthopleurin B to the Voltage-sensitive Sodium Channel. Journal of Biological Chemistry, 1996, 271, 9422-9428.	3.4	33
40	The Role of Exposed Tryptophan Residues in the Activity of the Cardiotonic Polypeptide Anthopleurin B. Journal of Biological Chemistry, 1996, 271, 23828-23835.	3.4	31
41	Multiple Cationic Residues of Anthopleurin B That Determine High Affinity and Channel Isoform Discrimination. Biochemistry, 1995, 34, 8533-8541.	2.5	58