Frank Sinner

List of Publications by Year
in descending order

48 papers	4,107 citations	279798 23 h-index	206112 48 g-index
48 all docs	48 docs citations	48 times ranked	8081 citing authors

#	Article	IF	Citations
1	Induction of autophagy by spermidine promotes longevity. Nature Cell Biology, 2009, 11, 1305-1314.	10.3	1,302
2	Regulation of Autophagy by Cytosolic Acetyl-Coenzyme A. Molecular Cell, 2014, 53, 710-725.	9.7	412
3	Restoring polyamines protects from age-induced memory impairment in an autophagy-dependent manner. Nature Neuroscience, 2013, 16, 1453-1460.	14.8	283
4	Alternate Day Fasting Improves Physiological and Molecular Markers of Aging in Healthy, Non-obese Humans. Cell Metabolism, 2019, 30, 462-476.e6.	16.2	256
5	Nucleocytosolic Depletion of the Energy Metabolite Acetyl-Coenzyme A Stimulates Autophagy and Prolongs Lifespan. Cell Metabolism, 2014, 19, 431-444.	16.2	221
6	Î²-Defensin 2 is a responsive biomarker of IL-17Aâ€“driven skin pathology in patients with psoriasis. Journal of Allergy and Clinical Immunology, 2017, 139, 923-932.e8.	2.9	175
7	A New Class of Continuous Polymer Supports Prepared by Ring-Opening Metathesis Polymerization:Â A Straightforward Route to Functionalized Monoliths. Macromolecules, 2000, 33, 5777-5786.	4.8	156
8	Ring-Opening Metathesis Polymerization for the Preparation of Surface-Grafted Polymer Supports. Macromolecules, 2000, 33, 32-39.	4.8	135
9	Dipyridyl Amide-Functionalized Polymers Prepared by Ring-Opening-Metathesis Polymerization (ROMP) for the Selective Extraction of Mercury and Palladium. Journal of the American Chemical Society, 1998, 120, 2790-2797.	13.7	122
10	The flavonoid 4,4â€²-dimethoxychalcone promotes autophagy-dependent longevity across species. Nature Communications, 2019, 10, 651.	12.8	100
11	Dietary spermidine improves cognitive function. Cell Reports, 2021, 35, 108985.	6.4	98
12	Enhanced Doxorubicin Delivery to the Brain Administered Through Glutathione PEGylated Liposomal Doxorubicin (2B3-101) as Compared with Generic Caelyx,Â®/DoxilÂ®â€”A Cerebral Open Flow Microperfusion Pilot Study. Journal of Pharmaceutical Sciences, 2014, 103, 1945-1948.	3.3	87
13	Open Flow Microperfusion as a Dermal Pharmacokinetic Approach to Evaluate Topical Bioequivalence. Clinical Pharmacokinetics, 2017, 56, 91-98.	3.5	67
14	Polyamines in biological samples: Rapid and robust quantification by solid-phase extraction online-coupled to liquid chromatographyâ€“tandem mass spectrometry. Journal of Chromatography A, 2014, 1331, 44-51.	3.7	65
15	Accumulation of Basic Amino Acids at Mitochondria Dictates the Cytotoxicity of Aberrant Ubiquitin. Cell Reports, 2015, 10, 1557-1571.	6.4	52
16	Assessment of Blood-Brain Barrier Function and the Neuroinflammatory Response in the Rat Brain by Using Cerebral Open Flow Microperfusion (cOFM). PLoS ONE, 2014, 9, e98143.	2.5	51
17	Measurement of interstitial insulin in human adipose and muscle tissue under moderate hyperinsulinemia by means of direct interstitial access. American Journal of Physiology - Endocrinology and Metabolism, 2005, 289, E296-E300.	3.5	49
18	Acetyl-coenzyme A. Autophagy, 2014, 10, 1335-1337.	9.1	42

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19	Dermal PK/PD of a lipophilic topical drug in psoriatic patients by continuous intradermal membrane-free sampling. European Journal of Pharmaceutics and Biopharmaceutics, 2012, 81, 635-641.	4.3	40
20	Secukinumab distributes into dermal interstitial fluid of psoriasis patients as demonstrated by open flow microperfusion. Experimental Dermatology, 2016, 25, 157-159.	2.9	38
21	A comprehensive approach to qualify and validate the essential parameters of an in vitro release test (IVRT) method for acyclovir cream, 5%. International Journal of Pharmaceutics, 2018, 535, 217-227.	5.2	35
22	Cerebral open flow microperfusion: A new in vivo technique for continuous measurement of substance transport across the intact bloodâ€“brain barrier. Clinical and Experimental Pharmacology and Physiology, 2013, 40, 864-871.	1.9	34
23	Chiral Î²-cyclodextrin-based polymer supports prepared via ring-opening metathesis graft-polymerization. Journal of Chromatography A, 2001, 907, 47-56.	3.7	26
24	Enhanced Absorption of Insulin Aspart as the Result of a Dispersed Injection Strategy Tested in a Randomized Trial in Type 1 Diabetic Patients. Diabetes Care, 2013, 36, 780-785.	8.6	22
25	Cerebral open flow microperfusion (cOFM) an innovative interface to brain tissue. Drug Discovery Today: Technologies, 2016, 20, 19-25.	4.0	20
26	Evaluation of norbornene- Î²-cyclodextrin-based monomers and oligomers as chiral selectors by means of nonaqueous capillary electrophoresis. Electrophoresis, 2001, 22, 109-116.	2.4	18
27	Long-Term Implanted cOFM Probe Causes Minimal Tissue Reaction in the Brain. PLoS ONE, 2014, 9, e90221.	2.5	18
28	A histone point mutation that switches on autophagy. Autophagy, 2014, 10, 1143-1145.	9.1	18
29	Kinetics of Clobetasol-17-Propionate in Psoriatic Lesional and Non-Lesional Skin Assessed by Dermal Open Flow Microperfusion with Time and Space Resolution. Pharmaceutical Research, 2016, 33, 2229-2238.	3.5	18
30	Variability of Skin Pharmacokinetic Data: Insights from a Topical Bioequivalence Study Using Dermal Open Flow Microperfusion. Pharmaceutical Research, 2020, 37, 204.	3.5	14
31	Comparison of cerebral Open Flow Microperfusion and Microdialysis when sampling small lipophilic and small hydrophilic substances. Journal of Neuroscience Methods, 2019, 311, 394-401.	2.5	13
32	Autophagy extends lifespan via vacuolar acidification. Microbial Cell, 2014, 1, 160-162.	3.2	13
33	LC/MS/MS analyses of open-flow microperfusion samples quantify eicosanoids in a rat model of skin inflammation. Journal of Lipid Research, 2019, 60, 758-766.	4.2	11
34	Evaluating Dermal Pharmacokinetics and Pharmacodymanic Effect of Soft Topical PDE4 Inhibitors: Open Flow Microperfusion and Skin Biopsies. Pharmaceutical Research, 2020, 37, 243.	3.5	11
35	Open Flow Microperfusion: An Alternative Method to Microdialysis?. AAPS Advances in the Pharmaceutical Sciences Series, 2013, , 283-302.	0.6	10
36	Tailor-made polymer supportsvia metathesis polymerization: concepts and applications. Macromolecular Symposia, 2001, 163, 25-34.	0.7	9

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37	Quantification of acyclovir in dermal interstitial fluid and human serum by ultraâ€highâ€performance liquidâ€“highâ€resolution tandem mass spectrometry for topical bioequivalence evaluation. Biomedical Chromatography, 2018, 32, e4194.	1.7	9
38	Characterizing Cutaneous Drug Delivery Using Open-Flow Microperfusion and Mass Spectrometry Imaging. Molecular Pharmaceutics, 2021, 18, 3063-3072.	4.6	9
39	Modeling non-hereditary mechanisms of Alzheimer disease during apoptosis in yeast. Microbial Cell, 2015, 2, 136-138.	3.2	8
40	Quantification of Basal Insulin Peglispro and Human Insulin in Adipose Tissue Interstitial Fluid by Open-Flow Microperfusion. Diabetes Technology and Therapeutics, 2017, 19, 305-314.	4.4	7
41	Assessment of skin permeability to topically applied drugs by skin impedance and admittance. Physiological Measurement, 2017, 38, N138-N150.	2.1	7
42	Matrix removal in state of the art sample preparation methods for serum by charged aerosol detection and metabolomics-based LC-MS. Analytica Chimica Acta, 2016, 915, 56-63.	5.4	6
43	Comparative in vitro release testing (IVRT) of acyclovir products. International Journal of Pharmaceutics, 2021, 609, 121186.	5.2	6
44	Optimization of topical formulations using a combination of in vitro methods to quantify the transdermal passive diffusion of drugs. International Journal of Pharmaceutics, 2022, 620, 121737.	5.2	6
45	Study protocol for assessing the user acceptance, safety and efficacy of a tablet-based workflow and decision support system with incorporated basal insulin algorithm for glycaemic management in participants with type 2 diabetes receiving home health care: A single-centre, open-label, uncontrolled proof-of-concept study. Contemporary Clinical Trials Communications, 2020, 19, 100620.	1.1	3
46	Insulin Distribution in Human Adipose Tissue via a Novel Insulin Infusion Catheter. Diabetes Technology and Therapeutics, 2019, 21, 740-744.	4.4	2
47	Electronic Diabetes Management System Replaces Paper Insulin Chart: Improved Quality in Diabetes Inpatient Care Processes Due to Digitalization. Journal of Diabetes Science and Technology, 2021, 15, 222-230.	2.2	2
48	Determination of 2H-enrichment of rat brain interstitial fluid and rat plasma by headspace-gas-chromatography â€“ quadrupole-mass-spectrometry. Analytical Biochemistry, 2016, 509, 130-134.	2.4	1