Emily S Sena

List of Publications by Year
in descending order

75 papers	16,896 citations	50276 46 h-index	74163 75 g-index
86 all docs	86 docs citations	86 times ranked	19882 citing authors

#	Article	IF	Citations
1	Pharmacotherapy for neuropathic pain in adults: a systematic review and meta-analysis. Lancet Neurology, The, 2015, 14, 162-173.	10.2	2,776
2	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. PLoS Biology, 2020, 18, e3000410.	5.6	2,209
3	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. Experimental Physiology, 2020, 105, 1459-1466.	2.0	1,300
4	Reporting animal research: Explanation and elaboration for the ARRIVE guidelines 2.0. PLoS Biology, 2020, 18, e3000411.	5.6	1,069
5	Can Animal Models of Disease Reliably Inform Human Studies?. PLoS Medicine, 2010, 7, e1000245.	8.4	1,026
6	Incidence, prevalence, and predictors of chemotherapy-induced peripheral neuropathy: A systematic review and meta-analysis. Pain, 2014, 155, 2461-2470.	4.2	1,006
7	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research*. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1769-1777.	4.3	546
8	Publication Bias in Reports of Animal Stroke Studies Leads to Major Overstatement of Efficacy. PLoS Biology, 2010, 8, e1000344.	5.6	478
9	Hypothermia in animal models of acute ischaemic stroke: a systematic review and meta-analysis. Brain, 2007, 130, 3063-3074.	7.6	413
10	Meta-analysis of data from animal studies: A practical guide. Journal of Neuroscience Methods, 2014, 221, 92-102.	2.5	372
11	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. British Journal of Pharmacology, 2020, 177, 3617-3624.	5.4	326
12	How can we improve the pre-clinical development of drugs for stroke?. Trends in Neurosciences, 2007, 30, 433-439.	8.6	322
13	Good Laboratory Practice. Stroke, 2009, 40, 221-3.	2.0	292
14	Evidence for the Efficacy of NXY-059 in Experimental Focal Cerebral Ischaemia Is Confounded by Study Quality. Stroke, 2008, 39, 2824-2829.	2.0	279
15	Evaluation of Excess Significance Bias in Animal Studies of Neurological Diseases. PLoS Biology, 2013, 11, e1001609.	5.6	248
16	Risk of Bias in Reports of In Vivo Research: A Focus for Improvement. PLoS Biology, 2015, 13, e1002273.	5.6	240
17	Empirical Evidence of Bias in the Design of Experimental Stroke Studies. Stroke, 2008, 39, 929-934.	2.0	214
18	Systematic Reviews and Meta-Analysis of Preclinical Studies: Why Perform Them and How to Appraise Them Critically. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 737-742.	4.3	209

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19	Reproducibility of preclinical animal research improves with heterogeneity of study samples. PLoS Biology, 2018, 16, e2003693.	5.6	186
20	The ARRIVE guidelines 2.0: updated guidelines for reporting animal research. Journal of Physiology, 2020, 598, 3793-3801.	2.9	177
21	Improving the translational hit of experimental treatments in multiple sclerosis. Multiple Sclerosis Journal, 2010, 16, 1044-1055.	3.0	153
22	Cardiac Stem Cell Treatment in Myocardial Infarction. Circulation Research, 2016, 118, 1223-1232.	4.5	138
23	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. BMC Veterinary Research, 2020, 16, 242.	1.9	136
24	Standardized mean differences cause funnel plot distortion in publication bias assessments. ELife, 2017, 6, .	6.0	131
25	The IMPROVE Guidelines (Ischaemia Models: Procedural Refinements Of in Vivo Experiments). Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 3488-3517.	4.3	128
26	The Usefulness of Systematic Reviews of Animal Experiments for the Design of Preclinical and Clinical Studies. ILAR Journal, 2014, 55, 427-437.	1.8	124
27	Animal models of bone cancer pain: Systematic review and meta-analyses. Pain, 2013, 154, 917-926.	4.2	117
28	The ARRIVE guidelines 2.0: updated guidelines for reporting animal researchThe ARRIVE guidelines 2.0: updated guidelines for reporting animal research. BMJ Open Science, 2020, 44, e100115.	1.7	114
29	Stem Cell Transplantation in Traumatic Spinal Cord Injury: A Systematic Review and Meta-Analysis of Animal Studies. PLoS Biology, 2013, 11, e1001738.	5.6	107
30	Bringing rigour to translational medicine. Nature Reviews Neurology, 2014, 10, 37-43.	10.1	107
31	A randomised controlled trial of an Intervention to Improve Compliance with the ARRIVE guidelines (IICARus). Research Integrity and Peer Review, 2019, 4, 12.	5.2	106
32	Systematic Review and Stratified Meta-analysis of the Efficacy of Interleukin-1 Receptor Antagonist in Animal Models of Stroke. Journal of Stroke and Cerebrovascular Diseases, 2009, 18, 269-276.	1.6	105
33	A Systematic Review and Meta-Analysis of Erythropoietin in Experimental Stroke. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 961-968.	4.3	99
34	Factors Affecting the Apparent Efficacy and Safety of Tissue Plasminogen Activator in Thrombotic Occlusion Models of Stroke: Systematic Review and Meta-Analysis. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 1905-1913.	4.3	96
35	Facilitating healthcare decisions by assessing the certainty in the evidence from preclinical animal studies. PLoS ONE, 2018, 13, e0187271.	2.5	87
36	Systematic Review and Meta-Analysis of the Efficacy of Tirilazad in Experimental Stroke. Stroke, 2007, 38, 388-394.	2.0	81

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37	Meta-Analysis of Pre-Clinical Studies of Early Decompression in Acute Spinal Cord Injury: A Battle of Time and Pressure. PLoS ONE, 2013, 8, e72659.	2.5	81
38	Effect and Reporting Bias of RhoA/ROCK-Blockade Intervention on Locomotor Recovery After Spinal Cord Injury. JAMA Neurology, 2014, 71, 91.	9.0	80
39	Dopamine agonists in animal models of Parkinsonâ€™s disease: A systematic review and meta-analysis. Parkinsonism and Related Disorders, 2011, 17, 313-320.	2.2	72
40	Ensuring transparency and minimization of methodologic bias in preclinical pain research. Pain, 2016, 157, 901-909.	4.2	70
41	Olfactory Ensheathing Cell Transplantation in Experimental Spinal Cord Injury: Effect size and Reporting Bias of 62 Experimental Treatments: A Systematic Review and Meta-Analysis. PLoS Biology, 2016, 14, e1002468.	5.6	70
42	Efficacy of Antidepressants in Animal Models of Ischemic Stroke. Stroke, 2014, 45, 3055-3063.	2.0	65
43	Systematic Review and Meta-Analysis of the Efficacy of Interleukin-1 Receptor Antagonist in Animal Models of Stroke: an Update. Translational Stroke Research, 2016, 7, 395-406.	4.2	64
44	Treatment of intracerebral hemorrhage in animal models: Metaâ€analysis. Annals of Neurology, 2011, 69, 389-399.	5.3	58
45	Animal models of chemotherapy-induced peripheral neuropathy: A machine-assisted systematic review and meta-analysis. PLoS Biology, 2019, 17, e3000243.	5.6	53
46	Drug Repurposing: A Systematic Approach to Evaluate Candidate Oral Neuroprotective Interventions for Secondary Progressive Multiple Sclerosis. PLoS ONE, 2015, 10, e0117705.	2.5	50
47	Systematic Review and Meta-Analysis of Therapeutic Hypothermia in Animal Models of Spinal Cord Injury. PLoS ONE, 2013, 8, e71317.	2.5	48
48	Improving the Efficiency of the Development of Drugs for Stroke. International Journal of Stroke, 2012, 7, 371-377.	5.9	46
49	Systematic review and stratified meta-analysis of the efficacy of RhoA and Rho kinase inhibitors in animal models of ischaemic stroke. Systematic Reviews, 2013, 2, 33.	5.3	43
50	Exercise Reduces Infarct Volume and Facilitates Neurobehavioral Recovery. Neurorehabilitation and Neural Repair, 2014, 28, 800-812.	2.9	43
51	Magnetic Resonance Imaging in Experimental Stroke and Comparison With Histology. Stroke, 2015, 46, 843-851.	2.0	37
52	Revision of the ARRIVE guidelines: rationale and scope. BMJ Open Science, 2018, 2, e000002.	1.7	36
53	Determinants of the Efficacy of Cardiac Ischemic Preconditioning: A Systematic Review and Meta-Analysis of Animal Studies. PLoS ONE, 2015, 10, e0142021.	2.5	36
54	Transparency in the reporting of in vivo pre-clinical pain research: The relevance and implications of the ARRIVE (Animal Research: Reporting In Vivo Experiments) guidelines. Scandinavian Journal of Pain, 2013, 4, 58-62.	1.3	35

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55	Effects of MVA85A vaccine on tuberculosis challenge in animals: systematic review. International Journal of Epidemiology, 2015, 44, 1970-1981.	1.9	35
56	From a mouse: systematic analysis reveals limitations of experiments testing interventions in Alzheimer's disease mouse models. Evidence-based Preclinical Medicine, 2016, 3, 12-23.	0.9	34
57	Translational failure of anti-inflammatory compounds for myocardial infarction: a meta-analysis of large animal models. Cardiovascular Research, 2016, 109, 240-248.	3.8	31
58	Edaravone Improves Functional and Structural Outcomes in Animal Models of Focal Cerebral Ischemia: A Systematic Review. International Journal of Stroke, 2014, 9, 101-106.	5.9	28
59	Risk of bias reporting in the recent animal focal cerebral ischaemia literature. Clinical Science, 2017, 131, 2525-2532.	4.3	26
60	Development and uptake of an online systematic review platform: the early years of the CAMARADES Systematic Review Facility (SyRF). BMJ Open Science, 2021, 5, e100103.	1.7	25
61	Outcome heterogeneity and bias in acute experimental spinal cord injury. Neurology, 2019, 93, e40-e51.	1.1	24
62	Insights into therapeutic products, preclinical research models, and clinical trials in cardiac regenerative and reparative medicine: where are we now and the way ahead. Current opinion paper of the ESC Working Group on Cardiovascular Regenerative and Reparative Medicine. Cardiovascular Research, 2021, 117, 1428-1433.	3.8	20
63	The Benefit of Hypothermia in Experimental Ischemic Stroke is Not Affected by Pethidine. International Journal of Stroke, 2013, 8, 180-185.	5.9	13
64	Using Animal Models to Understand Cancer Pain in Humans. Current Pain and Headache Reports, 2014, 18, 423.	2.9	13
65	Optimization of large animal MI models; a systematic analysis of control groups from preclinical studies. Scientific Reports, 2017, 7, 14218.	3.3	8
66	The Missing Medians: Exclusion of Ordinal Data from Meta-Analyses. PLoS ONE, 2015, 10, e0145580.	2.5	8
67	Identifying stroke therapeutics from preclinical models: A protocol for a novel application of network meta-analysis. F1000Research, 2019, 8, 11.	1.6	7
68	Multicenter Evaluation of Geometric Accuracy of MRI Protocols Used in Experimental Stroke. PLoS ONE, 2016, 11, e0162545.	2.5	6
69	Systematic review and meta-analysis of studies in which burrowing behaviour was assessed in rodent models of disease-associated persistent pain. Pain, 2022, 163, 2076-2102.	4.2	6
70	The development of an online database for interventions tested in transgenic mouse models of Alzheimer's disease. Evidence-based Preclinical Medicine, 2015, 2, 20-26.	0.9	5
71	Design of Meta-Analysis Studies. Handbook of Experimental Pharmacology, 2019, 257, 299-317.	1.8	4
72	Inaugural editorial: advancing preclinical and translational research of relevance to medicine. BMJ Open Science, 2018, 1, eined.	1.7	2

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73	A protocol for the systematic review and meta-analysis of thigmotactic behaviour in the open field test in rodent models associated with persistent pain. BMJ Open Science, 2021, 5, e100135.	1.7	2
74	Using median survival in meta-analysis of experimental time-to-event data. Systematic Reviews, 2021, 10, 292.	5.3	2
75	Building a Systematic Online Living Evidence Summary of COVID-19 Research. Journal of the European Association for Health Information and Libraries, 2021, 17, 21-26.	0.2	1