

# Stephen M Mahler

## List of Publications by Year in descending order

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82  
papers

2,034  
citations

257101

24  
h-index

276539

41  
g-index

84  
all docs

84  
docs citations

84  
times ranked

3148  
citing authors

#	ARTICLE	IF	CITATIONS
1	Disease-specific, neurosphere-derived cells as models for brain disorders. <i>DMM Disease Models and Mechanisms</i> , 2010, 3, 785-798.	1.2	175
2	Guiding the Selection of Human Antibodies from Phage Display Repertoires to a Single Epitope of an Antigen. <i>Nature Biotechnology</i> , 1994, 12, 899-903.	9.4	173
3	Phage Display Derived Monoclonal Antibodies: From Bench to Bedside. <i>Frontiers in Immunology</i> , 2020, 11, 1986.	2.2	146
4	Recent Advances in the Generation of Antibody-Nanomaterial Conjugates. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700607.	3.9	88
5	Preparation of optimized lipid-coated calcium phosphate nanoparticles for enhanced in vitro gene delivery to breast cancer cells. <i>Journal of Materials Chemistry B</i> , 2015, 3, 6805-6812.	2.9	77
6	Targeting membrane proteins for antibody discovery using phage display. <i>Scientific Reports</i> , 2016, 6, 26240.	1.6	67
7	Enhanced delivery of siRNA to triple negative breast cancer cells <i>in vitro</i> and <i>in vivo</i> through functionalizing lipid-coated calcium phosphate nanoparticles with dual target ligands. <i>Nanoscale</i> , 2018, 10, 4258-4266.	2.8	64
8	Safety, tolerability, pharmacokinetics, and immunogenicity of a human monoclonal antibody targeting the G glycoprotein of henipaviruses in healthy adults: a first-in-human, randomised, controlled, phase 1 study. <i>Lancet Infectious Diseases</i> , The, 2020, 20, 445-454.	4.6	60
9	Multiplexed SERS Detection of Soluble Cancer Protein Biomarkers with Gold-Silver Alloy Nanoboxes and Nanoyeast Single-Chain Variable Fragments. <i>Analytical Chemistry</i> , 2018, 90, 10377-10384.	3.2	59
10	A concise review of nanoscopic aspects of bioleaching bacteria-mineral interactions. <i>Advances in Colloid and Interface Science</i> , 2014, 212, 45-63.	7.0	52
11	Overcoming Instability of Antibody-Nanomaterial Conjugates: Next Generation Targeted Nanomedicines Using Bispecific Antibodies. <i>Advanced Healthcare Materials</i> , 2016, 5, 2055-2068.	3.9	52
12	A method for rapid, ligation-independent reformatting of recombinant monoclonal antibodies. <i>Journal of Immunological Methods</i> , 2010, 354, 85-90.	0.6	45
13	Material surfaces affect the protein expression patterns of human macrophages: A proteomics approach. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 80A, 895-908.	2.1	40
14	Modulating Targeting of Poly(ethylene glycol) Particles to Tumor Cells Using Bispecific Antibodies. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801607.	3.9	38
15	Quantifying adhesion of acidophilic bioleaching bacteria to silica and pyrite by atomic force microscopy with a bacterial probe. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 115, 229-236.	2.5	37
16	Understanding the Uptake of Nanomedicines at Different Stages of Brain Cancer Using a Modular Nanocarrier Platform and Precision Bispecific Antibodies. <i>ACS Central Science</i> , 2020, 6, 727-738.	5.3	36
17	Nanocell targeting using engineered bispecific antibodies. <i>MAbs</i> , 2015, 7, 53-65.	2.6	33
18	Strategies for Selecting Membrane Protein-Specific Antibodies using Phage Display with Cell-Based Panning. <i>Antibodies</i> , 2017, 6, 10.	1.2	32

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19	Monoclonal antibody-targeted polymeric nanoparticles for cancer therapy—future prospects. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 1169-1176.	1.6	31
20	Attenuating apoptosis in Chinese hamster ovary cells for improved biopharmaceutical production. <i>Biotechnology and Bioengineering</i> , 2020, 117, 1187-1203.	1.7	31
21	Controlling the Biological Fate of Micellar Nanoparticles: Balancing Stealth and Targeting. <i>ACS Nano</i> , 2020, 14, 13739-13753.	7.3	30
22	Purification of Fab fragments from a monoclonal antibody papain digest by Gradiflow electrophoresis. <i>Protein Expression and Purification</i> , 2003, 32, 246-251.	0.6	28
23	Isolation of serotype-specific antibodies against dengue virus non-structural protein 1 using phage display and application in a multiplexed serotyping assay. <i>PLoS ONE</i> , 2017, 12, e0180669.	1.1	27
24	Multifunctional lipid-coated calcium phosphate nanoplatfoms for complete inhibition of large triple negative breast cancer via targeted combined therapy. <i>Biomaterials</i> , 2019, 216, 119232.	5.7	27
25	Targeting the undruggable: emerging technologies in antibody delivery against intracellular targets. <i>Expert Opinion on Drug Delivery</i> , 2020, 17, 1189-1211.	2.4	24
26	Purification of recombinant human growth hormone from CHO cell culture supernatant by Gradiflow preparative electrophoresis technology. <i>Protein Expression and Purification</i> , 2003, 32, 126-134.	0.6	22
27	Targeted and modular architectural polymers employing bioorthogonal chemistry for quantitative therapeutic delivery. <i>Chemical Science</i> , 2020, 11, 3268-3280.	3.7	22
28	A sensitive and specific ELISA detects methionine sulfoxide-containing apolipoprotein A-I in HDL. <i>Journal of Lipid Research</i> , 2009, 50, 586-594.	2.0	21
29	Studies on regenerating liver and hepatoma plasma membranes—i. lipid and protein composition. <i>International Journal of Biochemistry &amp; Cell Biology</i> , 1988, 20, 605-611.	0.8	20
30	Production and characterization of specific monoclonal antibodies binding the Plasmodium falciparum diagnostic biomarker, histidine-rich protein 2. <i>Malaria Journal</i> , 2014, 13, 277.	0.8	20
31	Analytical strategies for assessing comparability of biosimilars. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 915-922.	1.6	18
32	Studies on regenerating liver and hepatoma plasma membranes—ii. membrane fluidity and enzyme activity. <i>International Journal of Biochemistry &amp; Cell Biology</i> , 1988, 20, 613-619.	0.8	17
33	Differences in adhesion of <i>A. thiooxidans</i> and <i>A. ferrooxidans</i> on chalcopyrite as revealed by atomic force microscopy with bacterial probes. <i>Minerals Engineering</i> , 2014, 61, 9-15.	1.8	17
34	CMRF-56 <sup>+</sup> blood dendritic cells loaded with mRNA induce effective antigen-specific cytotoxic T-lymphocyte responses. <i>Oncolmmunology</i> , 2016, 5, e1168555.	2.1	17
35	Computational Identification of Antibody Epitopes on the Dengue Virus NS1 Protein. <i>Molecules</i> , 2017, 22, 607.	1.7	17
36	Innovative Therapeutic Strategies for Effective Treatment of Brain Metastases. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1280.	1.8	17

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37	Recombinant Antibody Engineering Enables Reversible Binding for Continuous Protein Biosensing. <i>ACS Sensors</i> , 2021, 6, 764-776.	4.0	17
38	BioPEGylation of Polyhydroxyalkanoates: Influence on Properties and Satellite-Stem Cell Cycle. <i>Biomacromolecules</i> , 2008, 9, 2719-2726.	2.6	16
39	Nanoyeast and Other Cell Envelope Compositions for Protein Studies and Biosensor Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 30649-30664.	4.0	16
40	Cloning and expression of human V-genes derived from phage display libraries as fully assembled human anti-TNF $\alpha$ monoclonal antibodies. <i>Immunotechnology: an International Journal of Immunological Engineering</i> , 1997, 3, 31-43.	2.4	15
41	Clonal selection of high producing, stably transfected HEK293 cell lines utilizing modified, high-throughput FACS screening. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 935-941.	1.6	15
42	Perfusion culture of Chinese Hamster Ovary cells for bioprocessing applications. <i>Critical Reviews in Biotechnology</i> , 2022, 42, 1099-1115.	5.1	15
43	Bridging the gap. <i>MAbs</i> , 2011, 3, 440-452.	2.6	14
44	Modeling apoptosis resistance in CHO cells with CRISPR-mediated knockouts of Bak1, Bax, and Bok. <i>Biotechnology and Bioengineering</i> , 2022, 119, 1380-1391.	1.7	14
45	Desensitization of adenylate cyclase and cyclic AMP flux during the early stages of liver regeneration. <i>Journal of Cellular Physiology</i> , 1988, 136, 88-94.	2.0	13
46	An EGFR targeting nanoparticle self assembled from a thermoresponsive polymer. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 1222-1229.	1.6	13
47	Understanding nanomedicine treatment in an aggressive spontaneous brain cancer model at the stage of early blood brain barrier disruption. <i>Biomaterials</i> , 2022, 283, 121416.	5.7	13
48	Development of a protein nanoparticle platform for targeting EGFR expressing cancer cells. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 1230-1236.	1.6	12
49	Effect of energy source, salt concentration and loading force on colloidal interactions between <i>Acidithiobacillus ferrooxidans</i> cells and mineral surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 132, 271-280.	2.5	12
50	Targeting mesothelin receptors with drug-loaded bacterial nanocells suppresses human mesothelioma tumour growth in mouse xenograft models. <i>PLoS ONE</i> , 2017, 12, e0186137.	1.1	12
51	Biosensing made easy with PEG-targeted bi-specific antibodies. <i>Chemical Communications</i> , 2016, 52, 5730-5733.	2.2	11
52	Insights into the interfacial structure-function of poly(ethylene glycol)-decorated peptide-stabilised nanoscale emulsions. <i>Soft Matter</i> , 2017, 13, 7953-7961.	1.2	11
53	Safety of biologics therapy: Monoclonal antibodies, cytokines, fusion proteins, hormones, enzymes, coagulation proteins, vaccines, botulinum toxins. <i>MAbs</i> , 2017, 9, 885-888.	2.6	9
54	Wavelength-Dependent Fluorescent Immunosensors via Incorporation of Polarity Indicators near the Binding Interface of Antibody Fragments. <i>Analytical Chemistry</i> , 2019, 91, 7631-7638.	3.2	9

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55	A bispecific T cell engager targeting Glypican-1 redirects T cell cytolytic activity to kill prostate cancer cells. <i>BMC Cancer</i> , 2020, 20, 1214.	1.1	9
56	Expression proteomics of olfactory ensheathing cells. <i>Journal of Chemical Technology and Biotechnology</i> , 2008, 83, 473-481.	1.6	8
57	Retooling phage display with electrohydrodynamic nanomixing and nanopore sequencing. <i>Lab on A Chip</i> , 2019, 19, 4083-4092.	3.1	8
58	Coagulation factor IX analysis in bioreactor cell culture supernatant predicts quality of the purified product. <i>Communications Biology</i> , 2021, 4, 390.	2.0	8
59	Title is missing!. <i>Biotechnology Letters</i> , 1998, 12, 485-489.	0.5	7
60	Functional domain analysis of SOX18 transcription factor using a single-chain variable fragment-based approach. <i>MAbs</i> , 2018, 10, 596-606.	2.6	7
61	Cell-free pipeline for discovery of thermotolerant xylanases and endo -1,4- $\beta$ -glucanases. <i>Journal of Biotechnology</i> , 2017, 259, 191-198.	1.9	6
62	Fractionation of follicle stimulating hormone charge isoforms in their native form by preparative electrophoresis technology. <i>Journal of Biotechnology</i> , 2006, 122, 73-85.	1.9	5
63	Purification of monoclonal antibodies from cell culture supernatants by Gradiflow <sup>®</sup> electrophoresis technology. <i>Journal of Chemical Technology and Biotechnology</i> , 2006, 81, 445-453.	1.6	5
64	Advances in Drug Delivery. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 1167-1168.	1.6	5
65	Beyond Antibodies: Development of a Novel Protein Scaffold Based on Human Chaperonin 10. <i>Scientific Reports</i> , 2016, 6, 37348.	1.6	5
66	Omics driven discoveries of gene targets for apoptosis attenuation in CHO cells. <i>Biotechnology and Bioengineering</i> , 2021, 118, 481-490.	1.7	5
67	The Application of Emerging Technologies in Genomics and Proteomics to Drug Development. <i>Journal of Pharmacy Practice and Research</i> , 2003, 33, 7-11.	0.5	4
68	Expression and characterisation of recombinant human CD48 and isolation of a human anti-CD48 monoclonal antibody by phage display. <i>Journal of Chemical Technology and Biotechnology</i> , 2005, 80, 782-795.	1.6	4
69	The macrophage-biomaterial interface: a proteomic analysis of the conditioned medium environment. <i>Journal of Chemical Technology and Biotechnology</i> , 2008, 83, 482-495.	1.6	4
70	Comparison and evaluation of immobilization methods for preparing bacterial probes using acidophilic bioleaching bacteria <i>Acidithiobacillus thiooxidans</i> for AFM studies. <i>Journal of Microbiological Methods</i> , 2014, 102, 12-14.	0.7	4
71	Engineering death resistance in CHO cells for improved perfusion culture. <i>MAbs</i> , 2022, 14, .	2.6	4
72	Canine CD117-Specific Antibodies with Diverse Binding Properties Isolated from a Phage Display Library Using Cell-Based Biopanning. <i>Antibodies</i> , 2019, 8, 15.	1.2	3

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73	Biologics and the emergence of biosimilars: innovation driving global opportunity. Journal of Chemical Technology and Biotechnology, 2011, 86, 893-894.	1.6	2
74	Disease-Modifying Anti-Rheumatic Drugs. , 2015, , 1-13.		2
75	Targeted Nanomaterials: Overcoming Instability of Antibody-Nanomaterial Conjugates: Next Generation Targeted Nanomedicines Using Bispecific Antibodies (Adv. Healthcare Mater. 16/2016). Advanced Healthcare Materials, 2016, 5, 1994-1994.	3.9	2
76	Selection of Antibodies to Transiently Expressed Membrane Proteins Using Phage Display. Methods in Molecular Biology, 2018, 1827, 179-195.	0.4	2
77	Aggregates in blood filter chambers used from the plasma donations of anti-D donors: evaluation for monoclonal antibody discovery using phage display. Blood Transfusion, 2021, 19, 64-72.	0.3	2
78	Biological activity and metabolic clearance of recombinant human follicle stimulating hormone produced in Sp2/0 myeloma cells. Cytotechnology, 1996, 21, 171-182.	0.7	0
79	In Focus: Stem cell and tissue engineering applications in regenerative medicine. Journal of Chemical Technology and Biotechnology, 2008, 83, 395-396.	1.6	0
80	Production and characterisation of recombinant human chaperonin 10 for treatment of inflammatory disease. Process Biochemistry, 2015, 50, 1669-1679.	1.8	0
81	Biosimilars approved for treatment of inflammatory rheumatological diseases. International Journal of Rheumatic Diseases, 2016, 19, 1043-1048.	0.9	0
82	Disease-Modifying Antirheumatic Drugs: Overview. , 2016, , 464-475.		0