

Zachary H Houston

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

956
citations

430874

18
h-index

454955

30
g-index

38
all docs

38
docs citations

38
times ranked

1475
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, characterisation and evaluation of hyperbranched N-(2-hydroxypropyl) methacrylamides for transport and delivery in pancreatic cell lines <i>in vitro</i> and <i>in vivo</i> . <i>Biomaterials Science</i> , 2022, 10, 2328-2344.	5.4	3
2	Simultaneous Dual Echo Gadolinium Enhanced MR-PET for Evaluation of PET Tracer Delivery in Altered Pathophysiology. <i>Frontiers in Physics</i> , 2022, 10, .	2.1	0
3	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.	11.4	13
4	Template-Assisted Antibody Assembly: A Versatile Approach for Engineering Functional Antibody Nanoparticles. <i>Chemistry of Materials</i> , 2022, 34, 3694-3704.	6.7	4
5	Pre-targeting of polymeric nanomaterials to balance tumour accumulation and clearance. <i>Chemical Communications</i> , 2022, 58, 7912-7915.	4.1	9
6	Understanding the role of colon-specific microparticles based on retrograded starch/pectin in the delivery of chitosan nanoparticles along the gastrointestinal tract. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021, 158, 371-378.	4.3	27
7	Poly(2-ethyl-2-oxazoline) bottlebrushes: How nanomaterial dimensions can influence biological interactions. <i>European Polymer Journal</i> , 2021, 151, 110447.	5.4	16
8	Evaluation of the <i>in vivo</i> fate of ultrapure alginate in a BALB/c mouse model. <i>Carbohydrate Polymers</i> , 2021, 262, 117947.	10.2	3
9	Oral Delivery of Multicompartment Nanomedicines for Colorectal Cancer Therapeutics: Combining Local/Regional Delivery with Cell-Target Specificity. <i>Advanced Therapeutics</i> , 2020, 3, 1900171.	3.2	10
10	Hyperbranched Poly(2-oxazoline)s and Poly(ethylene glycol): A Structure-Activity Comparison of Biodistribution. <i>Biomacromolecules</i> , 2020, 21, 3318-3331.	5.4	18
11	Controlling the Biological Fate of Micellar Nanoparticles: Balancing Stealth and Targeting. <i>ACS Nano</i> , 2020, 14, 13739-13753.	14.6	30
12	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.	11.3	36
13	Targeted and modular architectural polymers employing bioorthogonal chemistry for quantitative therapeutic delivery. <i>Chemical Science</i> , 2020, 11, 3268-3280.	7.4	22
14	Investigation of the Therapeutic Potential of a Synergistic Delivery System through Dual Controlled Release of Camptothecin-Doxorubicin. <i>Advanced Therapeutics</i> , 2020, 3, 1900202.	3.2	12
15	Direct Comparison of Poly(ethylene glycol) and Phosphorylcholine Drug-Loaded Nanoparticles In Vitro and In Vivo. <i>Biomacromolecules</i> , 2020, 21, 2320-2333.	5.4	14
16	Targeted beta therapy of prostate cancer with ¹⁷⁷ Lu-labelled Miltuximab® antibody against glypican-1 (GPC-1). <i>EJNMMI Research</i> , 2020, 10, 46.	2.5	18
17	Supramolecular Fluorine Magnetic Resonance Spectroscopy Probe Polymer Based on Passerini Bifunctional Monomer. <i>ACS Macro Letters</i> , 2019, 8, 1479-1483.	4.8	13
18	Ultrasound-responsive nanobubbles for enhanced intravitreal drug migration: An <i>ex vivo</i> evaluation. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 136, 102-107.	4.3	35

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19	Modulating Targeting of Poly(ethylene glycol) Particles to Tumor Cells Using Bispecific Antibodies. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801607.	7.6	38
20	Innovative Therapeutic Strategies for Effective Treatment of Brain Metastases. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1280.	4.1	17
21	Importance of Polymer Length in Fructose-Based Polymeric Micelles for an Enhanced Biological Activity. <i>Macromolecules</i> , 2019, 52, 477-486.	4.8	23
22	Modified Organosilica Core-Shell Nanoparticles for Stable pH Sensing in Biological Solutions. <i>ACS Sensors</i> , 2018, 3, 967-975.	7.8	21
23	Design-led 3D visualization of nanomedicines in virtual reality. , 2018, , .		1
24	<i>In vivo</i> therapeutic evaluation of polymeric nanomedicines: effect of different targeting peptides on therapeutic efficacy against breast cancer. <i>Nanotheranostics</i> , 2018, 2, 360-370.	5.2	23
25	Influence of Charge on Hemocompatibility and Immunoreactivity of Polymeric Nanoparticles. <i>ACS Applied Bio Materials</i> , 2018, 1, 756-767.	4.6	23
26	Designed multifunctional polymeric nanomedicines: long-term biodistribution and tumour accumulation of aptamer-targeted nanomaterials. <i>Chemical Communications</i> , 2018, 54, 11538-11541.	4.1	37
27	Confinement of Therapeutic Enzymes in Selectively Permeable Polymer Vesicles by Polymerization-Induced Self-Assembly (PISA) Reduces Antibody Binding and Proteolytic Susceptibility. <i>ACS Central Science</i> , 2018, 4, 718-723.	11.3	181
28	Using Peptide Aptamer Targeted Polymers as a Model Nanomedicine for Investigating Drug Distribution in Cancer Nanotheranostics. <i>Molecular Pharmaceutics</i> , 2017, 14, 3539-3549.	4.6	45
29	Localised delivery of doxorubicin to prostate cancer cells through a PSMA-targeted hyperbranched polymer theranostic. <i>Biomaterials</i> , 2017, 141, 330-339.	11.4	68
30	Gold Nanocluster-Mediated Cellular Death under Electromagnetic Radiation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41159-41167.	8.0	33
31	Overcoming Instability of Antibody-Nanomaterial Conjugates: Next Generation Targeted Nanomedicines Using Bispecific Antibodies. <i>Advanced Healthcare Materials</i> , 2016, 5, 2055-2068.	7.6	52
32	Targeted Nanomaterials: Overcoming Instability of Antibody-Nanomaterial Conjugates: Next Generation Targeted Nanomedicines Using Bispecific Antibodies (<i>Adv. Healthcare Mater.</i> 16/2016). <i>Advanced Healthcare Materials</i> , 2016, 5, 1994-1994.	7.6	2
33	Efficient synthesis of diverse heterobifunctionalized clickable oligo(ethylene glycol) linkers: potential applications in bioconjugation and targeted drug delivery. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 1116.	2.8	63
34	Synthesis of Vertex-Differentiated Icosahedral <i>clos</i> -Boranes: Polyfunctional Scaffolds for Targeted Drug Delivery. <i>Journal of Organic Chemistry</i> , 2012, 77, 11333-11338.	3.2	14
35	A Convenient Route to Diversely Substituted Icosahedral Closomer Nanoscaffolds. <i>Journal of the American Chemical Society</i> , 2011, 133, 12382-12385.	13.7	29
36	Investigation of a Dual siRNA/Chemotherapy Delivery System for Breast Cancer Therapy. <i>ACS Omega</i> , 0, , .	3.5	3