# Zachary H Houston

List of Publications by Year
in descending order



| 36 | 956 | 430874 18 | 454955 30 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 38 | 38 | 38 | 1475 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Confinement of Therapeutic Enzymes in Selectively Permeable Polymer Vesicles by Polymerization-Induced Self-Assembly (PISA) Reduces Antibody Binding and Proteolytic Susceptibility. ACS Central Science, 2018, 4, 718-723. | 11.3 | 181 |
| 2 | Localised delivery of doxorubicin to prostate cancer cells through a PSMA-targeted hyperbranched polymer theranostic. Biomaterials, 2017, 141, 330-339. | 11.4 | 68 |
| 3 | Efficient synthesis of diverse heterobifunctionalized clickable oligo(ethylene glycol) linkers: potential applications in bioconjugation and targeted drug delivery. Organic and Biomolecular Chemistry, 2013, 11, 1116. | 2.8 | 63 |
| 4 | Overcoming Instability of Antibodyâ€Nanomaterial Conjugates: Next Generation Targeted Nanomedicines Using Bispecific Antibodies. Advanced Healthcare Materials, 2016, 5, 2055-2068. | 7.6 | 52 |
| 5 | Using Peptide Aptamer Targeted Polymers as a Model Nanomedicine for Investigating Drug Distribution in Cancer Nanotheranostics. Molecular Pharmaceutics, 2017, 14, 3539-3549. | 4.6 | 45 |
| 6 | Modulating Targeting of Poly(ethylene glycol) Particles to Tumor Cells Using Bispecific Antibodies. Advanced Healthcare Materials, 2019, 8, e1801607. | 7.6 | 38 |
| 7 | Designed multifunctional polymeric nanomedicines: long-term biodistribution and tumour accumulation of aptamer-targeted nanomaterials. Chemical Communications, 2018, 54, 11538-11541. | 4.1 | 37 |
| 8 | Understanding the Uptake of Nanomedicines at Different Stages of Brain Cancer Using a Modular Nanocarrier Platform and Precision Bispecific Antibodies. ACS Central Science, 2020, 6, 727-738. | 11.3 | 36 |
| 9 | Ultrasound-responsive nanobubbles for enhanced intravitreal drug migration: An ex vivo evaluation. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 136, 102-107. | 4.3 | 35 |
| 10 | Gold Nanocluster-Mediated Cellular Death under Electromagnetic Radiation. ACS Applied Materials & Interfaces, 2017, 9, 41159-41167. | 8.0 | 33 |
| 11 | Controlling the Biological Fate of Micellar Nanoparticles: Balancing Stealth and Targeting. ACS Nano, 2020, 14, 13739-13753. | 14.6 | 30 |
| 12 | A Convenient Route to Diversely Substituted Icosahedral Closomer Nanoscaffolds. Journal of the American Chemical Society, 2011, 133, 12382-12385. | 13.7 | 29 |
| 13 | Understanding the role of colon-specific microparticles based on retrograded starch/pectin in the delivery of chitosan nanoparticles along the gastrointestinal tract. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 158, 371-378. | 4.3 | 27 |
| 14 | In vivo therapeutic evaluation of polymeric nanomedicines: effect of different targeting peptides on therapeutic efficacy against breast cancer. Nanotheranostics, 2018, 2, 360-370. | 5.2 | 23 |
| 15 | Influence of Charge on Hemocompatibility and Immunoreactivity of Polymeric Nanoparticles. ACS Applied Bio Materials, 2018, 1, 756-767. | 4.6 | 23 |
| 16 | Importance of Polymer Length in Fructose-Based Polymeric Micelles for an Enhanced Biological Activity. Macromolecules, 2019, 52, 477-486. | 4.8 | 23 |
| 17 | Targeted and modular architectural polymers employing bioorthogonal chemistry for quantitative therapeutic delivery. Chemical Science, 2020, 11, 3268-3280. | 7.4 | 22 |
| 18 | Modified Organosilica Coreâ€“Shell Nanoparticles for Stable pH Sensing in Biological Solutions. ACS Sensors, 2018, 3, 967-975. | 7.8 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Hyperbranched Poly(2-oxazoline)s and Poly(ethylene glycol): A Structureâ€“Activity Comparison of Biodistribution. Biomacromolecules, 2020, 21, 3318-3331. | 5.4 | 18 |
| 20 | Targeted beta therapy of prostate cancer with 177Lu-labelled MiltuximabÂ® antibody against glypican-1 (GPC-1). EJNMMI Research, 2020, 10, 46. | 2.5 | 18 |
| 21 | Innovative Therapeutic Strategies for Effective Treatment of Brain Metastases. International Journal of Molecular Sciences, 2019, 20, 1280. | 4.1 | 17 |
| 22 | Poly(2-ethyl-2-oxazoline) bottlebrushes: How nanomaterial dimensions can influence biological interactions. European Polymer Journal, 2021, 151, 110447. | 5.4 | 16 |
| 23 | Synthesis of Vertex-Differentiated Icosahedral closo-Boranes: Polyfunctional Scaffolds for Targeted Drug Delivery. Journal of Organic Chemistry, 2012, 77, 11333-11338. | 3.2 | 14 |
| 24 | Direct Comparison of Poly(ethylene glycol) and Phosphorylcholine Drug-Loaded Nanoparticles In Vitro and In Vivo. Biomacromolecules, 2020, 21, 2320-2333. | 5.4 | 14 |
| 25 | Supramolecular Fluorine Magnetic Resonance Spectroscopy Probe Polymer Based on Passerini Bifunctional Monomer. ACS Macro Letters, 2019, 8, 1479-1483. | 4.8 | 13 |
| 26 | Understanding nanomedicine treatment in an aggressive spontaneous brain cancer model at the stage of early blood brain barrier disruption. Biomaterials, 2022, 283, 121416. | 11.4 | 13 |
| 27 | Investigation of the Therapeutic Potential of a Synergistic Delivery System through Dual Controlled Release of Camptothecinâ€“Doxorubicin. Advanced Therapeutics, 2020, 3, 1900202. | 3.2 | 12 |
| 28 | Oral Delivery of Multicompartment Nanomedicines for Colorectal Cancer Therapeutics: Combining Locoâ€Regional Delivery with Cellâ€Target Specificity. Advanced Therapeutics, 2020, 3, 1900171. | 3.2 | 10 |
| 29 | Pre-targeting of polymeric nanomaterials to balance tumour accumulation and clearance. Chemical Communications, 2022, 58, 7912-7915. | 4.1 | 9 |
| 30 | Template-Assisted Antibody Assembly: A Versatile Approach for Engineering Functional Antibody Nanoparticles. Chemistry of Materials, 2022, 34, 3694-3704. | 6.7 | 4 |
| 31 | Evaluation of the in vivo fate of ultrapure alginate in a BALB/c mouse model. Carbohydrate Polymers, 2021, 262, 117947. | 10.2 | 3 |
| 32 | Synthesis, characterisation and evaluation of hyperbranched N-(2-hydroxypropyl) methacrylamides for transport and delivery in pancreatic cell lines in vitro and in vivo. Biomaterials Science, 2022, 10, 2328-2344. | 5.4 | 3 |
| 33 | Investigation of a Dual siRNA/Chemotherapy Delivery System for Breast Cancer Therapy. ACS Omega, 0, , . | 3.5 | 3 |
| 34 | 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. | 7.6 | 2 |
| 35 | Design-led 3D visualization of nanomedicines in virtual reality. , 2018, , . | | 1 |
| 36 | Simultaneous Dual Echo Gadolinium Enhanced MR-PET for Evaluation of PET Tracer Delivery in Altered Pathophysiology. Frontiers in Physics, 2022, 10, . | 2.1 | 0 |