

# Thomas P Davis

## List of Publications by Year in descending order

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Version: 2024-02-01

771  
papers

54,822  
citations

905

116  
h-index

3105

187  
g-index

777  
all docs

777  
docs citations

777  
times ranked

38951  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | miR-99b-5p, miR-380-3p, and miR-485-3p are novel chemosensitizing miRNAs in high-risk neuroblastoma. <i>Molecular Therapy</i> , 2022, 30, 1119-1134.   | 8.2  | 5         |
| 2  | Spatio-temporal analysis of nanoparticles in live tumor spheroids impacted by cell origin and density. <i>Journal of Controlled Release</i> , 2022, 341, 661-675.  | 9.9  | 12        |
| 3  | Thiol-responsive lyotropic liquid crystals exhibit triggered phase re-arrangement and hydrogen sulfide (H <sub>2</sub> S) release. <i>Journal of Colloid and Interface Science</i> , 2022, 613, 218-223.   | 9.4  | 0         |
| 4  | Blood–Brain Barrier Transporters: Opportunities for Therapeutic Development in Ischemic Stroke. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1898.   | 4.1  | 26        |
| 5  | Schwann cell endosome CGRP signals elicit periorbital mechanical allodynia in mice. <i>Nature Communications</i> , 2022, 13, 646.  | 12.8 | 57        |
| 6  | Engineering Polymers via Understanding the Effect of Anchoring Groups for Highly Stable Liquid Metal Nanoparticles. <i>ACS Applied Nano Materials</i> , 2022, 5, 5959-5971.  | 5.0  | 24        |
| 7  | Heat-Induced Living Crystallization-Driven Self-Assembly: The Effect of Temperature and Polymer Composition on the Assembly and Disassembly of Poly(2-oxazoline) Nanorods. <i>Macromolecules</i> , 2022, 55, 3650-3660.  | 4.8  | 12        |
| 8  | High-Dose Acetaminophen Alters the Integrity of the Blood–Brain Barrier and Leads to Increased CNS Uptake of Codeine in Rats. <i>Pharmaceutics</i> , 2022, 14, 949.  | 4.5  | 2         |
| 9  | Zwitterionic Amino Acid-Derived Polyacrylates as Smart Materials Exhibiting Cellular Specificity and Therapeutic Activity. <i>Biomacromolecules</i> , 2022, 23, 2374-2387.   | 5.4  | 17        |
| 10 | Regulation of Blood-Brain Barrier Transporters by Transforming Growth Factor- $\beta$ /Activin Receptor-Like Kinase 1 Signaling: Relevance to the Brain Disposition of 3-Hydroxy-3-Methylglutaryl Coenzyme A Reductase Inhibitors (i.e., Statins). <i>Drug Metabolism and Disposition</i> , 2022, 50, 942-956. | 3.3  | 7         |
| 11 | Sustained endosomal release of a neurokinin-1 receptor antagonist from nanostars provides long-lasting relief of chronic pain. <i>Biomaterials</i> , 2022, 285, 121536.  | 11.4 | 16        |
| 12 | Trisulfide linked cholesteryl PEG conjugate attenuates intracellular ROS and collagen-1 production in a breast cancer co-culture model. <i>Biomaterials Science</i> , 2021, 9, 835-846.  | 5.4  | 11        |
| 13 | Transport Properties of Statins by Organic Anion Transporting Polypeptide 1A2 and Regulation by Transforming Growth Factor- $\beta$ Signaling in Human Endothelial Cells. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2021, 376, 148-160.   | 2.5  | 18        |
| 14 | Antifouling Surfaces Enabled by Surface Grafting of Highly Hydrophilic Sulfoxide Polymer Brushes. <i>Biomacromolecules</i> , 2021, 22, 330-339.  | 5.4  | 43        |
| 15 | The Membrane Axis of Alzheimer's Nanomedicine. <i>Advanced NanoBiomed Research</i> , 2021, 1, 2000040.   | 3.6  | 12        |
| 16 | Ex vivo culture of intact human patient derived pancreatic tumour tissue. <i>Scientific Reports</i> , 2021, 11, 1944.  | 3.3  | 27        |
| 17 | <i>In vitro</i> and <i>in vivo</i> models for anti-amyloidosis nanomedicines. <i>Nanoscale Horizons</i> , 2021, 6, 95-119.   | 8.0  | 13        |
| 18 | A lipid-anchored neurokinin 1 receptor antagonist prolongs pain relief by a three-pronged mechanism of action targeting the receptor at the plasma membrane and in endosomes. <i>Journal of Biological Chemistry</i> , 2021, 296, 100345.  | 3.4  | 17        |

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|----|---|------|-----------|
| 19 | Organic Cation Transporter (OCT/OCTN) Expression at Brain Barrier Sites: Focus on CNS Drug Delivery. Handbook of Experimental Pharmacology, 2021, 266, 301-328.   | 1.8  | 14        |
| 20 | Hemagglutinin Functionalized Liposomal Vaccines Enhance Germinal Center and Follicular Helper T Cell Immunity. Advanced Healthcare Materials, 2021, 10, e2002142.   | 7.6  | 27        |
| 21 | Polymeric micelles with anti-virulence activity against Candida albicans in a single- and dual-species biofilm. Drug Delivery and Translational Research, 2021, 11, 1586-1597.                            | 5.8  | 10        |
| 22 | Stroke Treatment With PAR-1 Agents to Decrease Hemorrhagic Transformation. Frontiers in Neurology, 2021, 12, 593582.  | 2.4  | 11        |
| 23 | Serotonin-induced vascular permeability is mediated by transient receptor potential vanilloid 4 in the airways and upper gastrointestinal tract of mice. Laboratory Investigation, 2021, 101, 851-864.    | 3.7  | 8         |
| 24 | Cancer-Associated Fibroblasts in Pancreatic Ductal Adenocarcinoma Determine Response to SLC7A11 Inhibition. Cancer Research, 2021, 81, 3461-3479.   | 0.9  | 62        |
| 25 | Spontaneous formation of $\beta$ -sheet nano-barrels during the early aggregation of Alzheimer's amyloid beta. Nano Today, 2021, 38, 101125.  | 11.9 | 44        |
| 26 | Ultrasmall Molybdenum Disulfide Quantum Dots Cage Alzheimer's Amyloid Beta to Restore Membrane Fluidity. ACS Applied Materials & Interfaces, 2021, 13, 29936-29948.                                       | 8.0  | 22        |
| 27 | Interactions of core cross-linked poly(2-oxazoline) and poly(2-oxazine) micelles with immune cells in human blood. Biomaterials, 2021, 274, 120843.   | 11.4 | 26        |
| 28 | Inhibition of Amyloid Aggregation and Toxicity with Janus Iron Oxide Nanoparticles. Chemistry of Materials, 2021, 33, 6484-6500.  | 6.7  | 25        |
| 29 | Nanotoxicology and nanomedicine: The Yin and Yang of nano-bio interactions for the new decade. Nano Today, 2021, 39, 101184.  | 11.9 | 67        |
| 30 | From influenza to COVID-19: Lipid nanoparticle mRNA vaccines at the frontiers of infectious diseases. Acta Biomaterialia, 2021, 131, 16-40.   | 8.3  | 140       |
| 31 | A Framework of Paracellular Transport via Nanoparticles-Induced Endothelial Leakiness. Advanced Science, 2021, 8, e2102519.   | 11.2 | 22        |
| 32 | Stealth nanorods <i>via</i> the aqueous living crystallisation-driven self-assembly of poly(2-oxazoline)s. Chemical Science, 2021, 12, 7350-7360.   | 7.4  | 35        |
| 33 | Nitroxide-functional PEGylated nanostars arrest cellular oxidative stress and exhibit preferential accumulation in co-cultured breast cancer cells. Journal of Materials Chemistry B, 2021, 9, 7805-7820. | 5.8  | 3         |
| 34 | Amyloid Aggregation under the Lens of Liquid-Liquid Phase Separation. Journal of Physical Chemistry Letters, 2021, 12, 368-378.   | 4.6  | 34        |
| 35 | Intrinsic Green Fluorescent Cross-Linked Poly(ester amide)s by Spontaneous Zwitterionic Copolymerization. Biomacromolecules, 2021, 22, 4794-4804.   | 5.4  | 6         |
| 36 | Engineering macromolecular nanocarriers for local delivery of gaseous signaling molecules. Advanced Drug Delivery Reviews, 2021, 179, 114005.   | 13.7 | 30        |

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|----|--|------|-----------|
| 37 | Graphene quantum dots obstruct the membrane axis of Alzheimer's amyloid beta. <i>Physical Chemistry Chemical Physics</i> , 2021, 24, 86-97.  | 2.8  | 14        |
| 38 | Dynamic Protein Corona of Gold Nanoparticles with an Evolving Morphology. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 58238-58251.                                       | 8.0  | 23        |
| 39 | Mitigation of Amyloidosis with Nanomaterials. <i>Advanced Materials</i> , 2020, 32, e1901690.  | 21.0 | 87        |
| 40 | Polymer-Assisted Magnetic Nanoparticle Assemblies for Biomedical Applications. <i>ACS Applied Bio Materials</i> , 2020, 3, 121-142.  | 4.6  | 51        |
| 41 | Delivery of polymeric nanostars for molecular imaging and endoradiotherapy through the enhanced permeability and retention (EPR) effect. <i>Theranostics</i> , 2020, 10, 567-584.      | 10.0 | 63        |
| 42 | Human Plasma Protein Corona of A $\beta$ Amyloid and Its Impact on Islet Amyloid Polypeptide Cross-Seeding. <i>Biomacromolecules</i> , 2020, 21, 988-998.                              | 5.4  | 15        |
| 43 | Elucidating the effect of sequence and degree of polymerization on antimicrobial properties for block copolymers. <i>Polymer Chemistry</i> , 2020, 11, 84-90.                          | 3.9  | 31        |
| 44 | Functionalization of NaGdF <sub>4</sub> nanoparticles with a dibromomaleimide-terminated polymer for MR/optical imaging of thrombosis. <i>Polymer Chemistry</i> , 2020, 11, 1010-1017. | 3.9  | 4         |
| 45 | Nonionic Water-Soluble and Cytocompatible Poly(amide acrylate)s. <i>Macromolecules</i> , 2020, 53, 693-701.  | 4.8  | 9         |
| 46 | Accelerated Amyloid Beta Pathogenesis by Bacterial Amyloid FapC. <i>Advanced Science</i> , 2020, 7, 2001299.   | 11.2 | 47        |
| 47 | Trisulfide-Bearing PEG Brush Polymers Donate Hydrogen Sulfide and Ameliorate Cellular Oxidative Stress. <i>Biomacromolecules</i> , 2020, 21, 5292-5305.                                | 5.4  | 8         |
| 48 | Biomedical Applications of Liquid Metal Nanoparticles: A Critical Review. <i>Biosensors</i> , 2020, 10, 196.   | 4.7  | 59        |
| 49 | Poly(2-isopropenyl-2-oxazoline) – a structural analogue to poly(vinyl azlactone) with Orthogonal Reactivity. <i>Polymer Chemistry</i> , 2020, 11, 5681-5692.                           | 3.9  | 14        |
| 50 | Amyloidosis inhibition, a new frontier of the protein corona. <i>Nano Today</i> , 2020, 35, 100937.  | 11.9 | 32        |
| 51 | Implications of the Human Gut–Brain and Gut–Cancer Axes for Future Nanomedicine. <i>ACS Nano</i> , 2020, 14, 14391-14416.  | 14.6 | 30        |
| 52 | Structure, Function, and Regulation of the Blood-Brain Barrier Tight Junction in Central Nervous System Disorders. <i>Frontiers in Physiology</i> , 2020, 11, 914.                     | 2.8  | 184       |
| 53 | Regulation of blood–brain barrier integrity by microglia in health and disease: A therapeutic opportunity. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, S6-S24.    | 4.3  | 196       |
| 54 | Cellular Interactions: Cellular Interactions of Liposomes and PISA Nanoparticles during Human Blood Flow in a Microvascular Network (Small 33/2020). <i>Small</i> , 2020, 16, 2070185. | 10.0 | 1         |

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|----|--|------|-----------|
| 55 | The transient receptor potential vanilloid 4 (TRPV4) ion channel mediates protease activated receptor 1 (PAR1)-induced vascular hyperpermeability. Laboratory Investigation, 2020, 100, 1057-1067. | 3.7  | 11        |
| 56 | Amyloidosis: Mitigation of Amyloidosis with Nanomaterials (Adv. Mater. 18/2020). Advanced Materials, 2020, 32, 2070146.  | 21.0 | 2         |
| 57 | Sulfoxide-Containing Polymer-Coated Nanoparticles Demonstrate Minimal Protein Fouling and Improved Blood Circulation. Advanced Science, 2020, 7, 2000406.  | 11.2 | 43        |
| 58 | Elevated amyloidoses of human IAPP and amyloid beta by lipopolysaccharide and their mitigation by carbon quantum dots. Nanoscale, 2020, 12, 12317-12328.   | 5.6  | 23        |
| 59 | Functional NHE1 expression is critical to blood brain barrier integrity and sumatriptan blood to brain uptake. PLoS ONE, 2020, 15, e0227463.   | 2.5  | 8         |
| 60 | Proteins Conjugated with Sulfoxide-Containing Polymers Show Reduced Macrophage Cellular Uptake and Improved Pharmacokinetics. ACS Macro Letters, 2020, 9, 799-805.                                 | 4.8  | 30        |
| 61 | Polymers with Dithiobenzoate End Groups Constitutively Release Hydrogen Sulfide upon Exposure to Cysteine and Homocysteine. ACS Macro Letters, 2020, 9, 553-557.                                   | 4.8  | 11        |
| 62 | H <sub>2</sub> S-Donating trisulfide linkers confer unexpected biological behaviour to poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf  | 5.8  | 7         |
| 63 | Recent advances in molecular imaging of atherosclerotic plaques and thrombosis. Nanoscale, 2020, 12, 8040-8064.  | 5.6  | 38        |
| 64 | pH-Responsive Polymers for Improving the Signal-to-Noise Ratio of Hypoxia PET Imaging with [ <sup>18</sup> F]Fluoromisonidazole. Macromolecular Rapid Communications, 2020, 41, 2000061.           | 3.9  | 4         |
| 65 | Nanomaterial synthesis, an enabler of amyloidosis inhibition against human diseases. Nanoscale, 2020, 12, 14422-14440.   | 5.6  | 22        |
| 66 | Half a century of amyloids: past, present and future. Chemical Society Reviews, 2020, 49, 5473-5509.   | 38.1 | 345       |
| 67 | Cellular Interactions of Liposomes and PISA Nanoparticles during Human Blood Flow in a Microvascular Network. Small, 2020, 16, e2002861.   | 10.0 | 67        |
| 68 | 3K3A-Activated Protein C Variant Does Not Interfere With the Plasma Clot Lysis Activity of Tenecteplase. Stroke, 2020, 51, 2236-2239.  | 2.0  | 1         |
| 69 | Tuning Cellular Interactions of Carboxylic Acid-Side-Chain-Containing Polyacrylates: The Role of Cyanine Dye Label and Side-Chain Type. Biomacromolecules, 2020, 21, 3007-3016.                    | 5.4  | 14        |
| 70 | Design and preclinical evaluation of nanostars for the passive pretargeting of tumor tissue. Nuclear Medicine and Biology, 2020, 84-85, 63-72.   | 0.6  | 16        |
| 71 | Transporter-Mediated Delivery of Small Molecule Drugs to the Brain: A Critical Mechanism That Can Advance Therapeutic Development for Ischemic Stroke. Pharmaceutics, 2020, 12, 154.               | 4.5  | 27        |
| 72 | Multimodal Nanoprobe for Pancreatic Beta Cell Detection and Amyloidosis Mitigation. Chemistry of Materials, 2020, 32, 1080-1088.   | 6.7  | 16        |

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|----|--|------|-----|
| 73 | Nanosilver Mitigates Biofilm Formation via FapC Amyloidosis Inhibition. Small, 2020, 16, e1906674.   | 10.0 | 26  |
| 74 | pH-Responsive copolymer micelles to enhance itraconazole efficacy against <i>Candida albicans</i> biofilms. Journal of Materials Chemistry B, 2020, 8, 1672-1681.  | 5.8  | 26  |
| 75 | Stimuli-responsive nano-assemblies for remotely controlled drug delivery. Journal of Controlled Release, 2020, 322, 566-592.   | 9.9  | 107 |
| 76 | Synthesis of biscarboxylic acid functionalised EDTA mimicking polymers and their ability to form Zr( $\text{O}(\text{CH}_2\text{CH}_2\text{O})_2$ ) chelation mediated nanostructures. Polymer Chemistry, 2020, 11, 2799-2810. | 3.9  | 7   |
| 77 | Title is missing!. , 2020, 15, e0227463.   |      | 0   |
| 78 | Title is missing!. , 2020, 15, e0227463.   |      | 0   |
| 79 | Title is missing!. , 2020, 15, e0227463.   |      | 0   |
| 80 | Title is missing!. , 2020, 15, e0227463.   |      | 0   |
| 81 | Controlling Nanomaterial Size and Shape for Biomedical Applications via Polymerization-Induced Self-Assembly. Macromolecular Rapid Communications, 2019, 40, e1800438.   | 3.9  | 136 |
| 82 | Carboxylated Cy5-Labeled Comb Polymers Passively Diffuse the Cell Membrane and Target Mitochondria. ACS Applied Materials & Interfaces, 2019, 11, 31302-31310.   | 8.0  | 34  |
| 83 | Differential Roles of Plasma Protein Corona on Immune Cell Association and Cytokine Secretion of Oligomeric and Fibrillar Beta-Amyloid. Biomacromolecules, 2019, 20, 4208-4217.  | 5.4  | 16  |
| 84 | A pH-responsive nanoparticle targets the neurokinin 1 receptor in endosomes to prevent chronic pain. Nature Nanotechnology, 2019, 14, 1150-1159.   | 31.5 | 103 |
| 85 | Engineering Organic/Inorganic Nanohybrids through RAFT Polymerization for Biomedical Applications. Biomacromolecules, 2019, 20, 4243-4257.   | 5.4  | 35  |
| 86 | Single-Molecular Heteroamyloidosis of Human Islet Amyloid Polypeptide. Nano Letters, 2019, 19, 6535-6546.  | 9.1  | 27  |
| 87 | Inhibition of amyloid beta toxicity in zebrafish with a chaperone-gold nanoparticle dual strategy. Nature Communications, 2019, 10, 3780.  | 12.8 | 132 |
| 88 | Graphene quantum dots rescue protein dysregulation of pancreatic $\beta^2$ -cells exposed to human islet amyloid polypeptide. Nano Research, 2019, 12, 2827-2834.  | 10.4 | 34  |
| 89 | Probing the Aggregation and Immune Response of Human Islet Amyloid Polypeptides with Ligand-Stabilized Gold Nanoparticles. ACS Applied Materials & Interfaces, 2019, 11, 10462-10471.  | 8.0  | 37  |
| 90 | A novel small molecule that kills a subset of MLL-rearranged leukemia cells by inducing mitochondrial dysfunction. Oncogene, 2019, 38, 3824-3842.  | 5.9  | 17  |

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|-----|---|------|-----------|
| 91  | Tuning the Structure, Stability, and Responsivity of Polymeric Arsenical Nanoparticles Using Polythiol Cross-Linkers. <i>Macromolecules</i> , 2019, 52, 992-1003.   | 4.8  | 13        |
| 92  | Intra-articular Treatment of Osteoarthritis with Diclofenac-Conjugated Polymer Reduces Inflammation and Pain. <i>ACS Applied Bio Materials</i> , 2019, 2, 2822-2832.  | 4.6  | 12        |
| 93  | Amphiphilic surface chemistry of fullerenols is necessary for inhibiting the amyloid aggregation of alpha-synuclein NACore. <i>Nanoscale</i> , 2019, 11, 11933-11945.   | 5.6  | 47        |
| 94  | Development of a shape-controlled H <sub>2</sub> S delivery system using epoxide-functional nanoparticles. <i>Journal of Polymer Science Part A</i> , 2019, 57, 1982-1993.  | 2.3  | 7         |
| 95  | Amyloid Self-Assembly of hIAPP8 <sup>20</sup> via the Accumulation of Helical Oligomers, $\beta$ -Helix to $\beta$ -Sheet Transition, and Formation of $\beta$ -Barrel Intermediates. <i>Small</i> , 2019, 15, e1805166.  | 10.0 | 49        |
| 96  | Rapid Assessment of Nanoparticle Extravasation in a Microfluidic Tumor Model. <i>ACS Applied Nano Materials</i> , 2019, 2, 1844-1856.   | 5.0  | 36        |
| 97  | Distribution of insulin in trigeminal nerve and brain after intranasal administration. <i>Scientific Reports</i> , 2019, 9, 2621.   | 3.3  | 72        |
| 98  | Polymeric arsenicals as scaffolds for functional and responsive hydrogels. <i>Journal of Materials Chemistry B</i> , 2019, 7, 4263-4271.  | 5.8  | 4         |
| 99  | Functional Brush Poly(2-ethyl-2-oxazine)s: Synthesis by CROP and RAFT, Thermoresponsiveness and Grafting onto Iron Oxide Nanoparticles. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1800911.  | 3.9  | 23        |
| 100 | Perivascular and Perineural Pathways Involved in Brain Delivery and Distribution of Drugs after Intranasal Administration. <i>Pharmaceutics</i> , 2019, 11, 598.  | 4.5  | 49        |
| 101 | An optimised Cu(0)-RDRP approach for the synthesis of lipidated oligomeric vinyl azlactone: toward a versatile antimicrobial materials screening platform. <i>Journal of Materials Chemistry B</i> , 2019, 7, 6796-6809.  | 5.8  | 11        |
| 102 | &lt;p&gt;Thiol-Reactive Star Polymers Functionalized with Short Ethoxy-Containing Moieties Exhibit Enhanced Uptake in Acute Lymphoblastic Leukemia Cells&lt;/p&gt;. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 9795-9808.  | 6.7  | 8         |
| 103 | Physical and toxicological profiles of human IAPP amyloids and plaques. <i>Science Bulletin</i> , 2019, 64, 26-35.  | 9.0  | 24        |
| 104 | Final Results of the RHAPSODY Trial: A Multi-Center, Phase 2 Trial Using a Continual Reassessment Method to Determine the Safety and Tolerability of 3K3A-APC, A Recombinant Variant of Human Activated Protein C, in Combination with Tissue Plasminogen Activator, Mechanical Thrombectomy or both in Moderate to Severe Acute Ischemic Stroke. <i>Annals of Neurology</i> , 2019, 85, 125-136. | 5.3  | 113       |
| 105 | Vascular dysfunctionâ€”The disregarded partner of Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2019, 15, 158-167.   | 0.8  | 454       |
| 106 | Functional Liquid Metal Nanoparticles Produced by Liquid-Based Nebulization. <i>Advanced Materials Technologies</i> , 2019, 4, 1800420.   | 5.8  | 78        |
| 107 | Nucleation of $\beta$ -rich oligomers and $\beta$ -barrels in the early aggregation of human islet amyloid polypeptide. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019, 1865, 434-444.  | 3.8  | 44        |
| 108 | Synthesis and identification of novel pyridazinylpyrazolone based diazo compounds as inhibitors of human islet amyloid polypeptide aggregation. <i>Bioorganic Chemistry</i> , 2019, 84, 339-346.  | 4.1  | 12        |



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|-----|--|------|-----------|
| 109 | Microfluidic Mass Production of Stabilized and Stealthy Liquid Metal Nanoparticles. <i>Small</i> , 2018, 14, e1800118.   | 10.0 | 117       |
| 110 | Human plasma proteome association and cytotoxicity of nano-graphene oxide grafted with stealth polyethylene glycol and poly(2-ethyl-2-oxazoline). <i>Nanoscale</i> , 2018, 10, 10863-10875.  | 5.6  | 42        |
| 111 | Serum albumin impedes the amyloid aggregation and hemolysis of human islet amyloid polypeptide and alpha synuclein. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 1803-1809.   | 2.6  | 36        |
| 112 | Synthesis, aggregation and responsivity of block copolymers containing organic arsenicals. <i>Polymer Chemistry</i> , 2018, 9, 1551-1556.  | 3.9  | 12        |
| 113 | Overcoming Surfactant-Induced Morphology Instability of Noncrosslinked Diblock Copolymer Nano-Objects Obtained by RAFT Emulsion Polymerization. <i>ACS Macro Letters</i> , 2018, 7, 159-165.   | 4.8  | 38        |
| 114 | Nano-assemblies of cationic mPEG brush block copolymers with gadolinium polyoxotungstate $[Gd(W_5O_{18})_2]^{9-}$ form stable, high relaxivity MRI contrast agents. <i>Nanoscale</i> , 2018, 10, 7270-7280.  | 5.6  | 8         |
| 115 | The effects of particle size, shape, density and flow characteristics on particle margination to vascular walls in cardiovascular diseases. <i>Expert Opinion on Drug Delivery</i> , 2018, 15, 33-45.  | 5.0  | 77        |
| 116 | Nanoscale inhibition of polymorphic and ambidextrous IAPP amyloid aggregation with small molecules. <i>Nano Research</i> , 2018, 11, 3636-3647.  | 10.4 | 35        |
| 117 | Uptake and transcytosis of functionalized superparamagnetic iron oxide nanoparticles in an <i>in vitro</i> blood brain barrier model. <i>Biomaterials Science</i> , 2018, 6, 314-323.  | 5.4  | 36        |
| 118 | Journey to the centre of the cell: Virtual reality immersion into scientific data. <i>Traffic</i> , 2018, 19, 105-110.   | 2.7  | 74        |
| 119 | Loss of Blood-Brain Barrier Integrity in a KCl-Induced Model of Episodic Headache Enhances CNS Drug Delivery. <i>ENeuro</i> , 2018, 5, ENEURO.0116-18.2018.  | 1.9  | 26        |
| 120 | Graphene quantum dots against human IAPP aggregation and toxicity <i>in vivo</i> . <i>Nanoscale</i> , 2018, 10, 19995-20006.   | 5.6  | 100       |
| 121 | Linker chemistry dictates the delivery of a phototoxic organometallic rhenium( <i>III</i> ) complex to human cervical cancer cells from core crosslinked star polymer nanoparticles. <i>Journal of Materials Chemistry B</i> , 2018, 6, 7805-7810. | 5.8  | 9         |
| 122 | Arginine-Rich Manganese Silicate Nanobubbles as a Ferroptosis-Inducing Agent for Tumor-Targeted Theranostics. <i>ACS Nano</i> , 2018, 12, 12380-12392.   | 14.6 | 292       |
| 123 | Bioconjugation and Fluorescence Labeling of Iron Oxide Nanoparticles Grafted with Bromomaleimide-Terminal Polymers. <i>Biomacromolecules</i> , 2018, 19, 4423-4429.  | 5.4  | 32        |
| 124 | Exploiting Macromolecular Design To Optimize the Antibacterial Activity of Alkylated Cationic Oligomers. <i>Biomacromolecules</i> , 2018, 19, 4629-4640.   | 5.4  | 14        |
| 125 | Modulation of Opioid Transport at the Blood-Brain Barrier by Altered ATP-Binding Cassette (ABC) Transporter Expression and Activity. <i>Pharmaceutics</i> , 2018, 10, 192.   | 4.5  | 21        |
| 126 | Acute pain alters P-glycoprotein-containing protein complexes in rat cerebral microvessels: Implications for P-glycoprotein trafficking. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 2209-2222.                               | 4.3  | 14        |



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|-----|---|------|-----------|
| 127 | Mitigating Human IAPP Amyloidogenesis In Vivo with Chiral Silica Nanoribbons. <i>Small</i> , 2018, 14, e1802825.  | 10.0 | 57        |
| 128 | Minimum information reporting in bio‐ nano experimental literature. <i>Nature Nanotechnology</i> , 2018, 13, 777-785.   | 31.5 | 455       |
| 129 | Profiling the Serum Protein Corona of Fibrillar Human Islet Amyloid Polypeptide. <i>ACS Nano</i> , 2018, 12, 6066-6078.   | 14.6 | 39        |
| 130 | Understanding Effects of PAMAM Dendrimer Size and Surface Chemistry on Serum Protein Binding with Discrete Molecular Dynamics Simulations. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11704-11715. | 6.7  | 41        |
| 131 | Nanoparticle‐ proteome <i>in vitro</i> and <i>in vivo</i>. <i>Journal of Materials Chemistry B</i> , 2018, 6, 6026-6041.  | 5.8  | 18        |
| 132 | Biologically Targeted Magnetic Hyperthermia: Potential and Limitations. <i>Frontiers in Pharmacology</i> , 2018, 9, 831.  | 3.5  | 340       |
| 133 | Elucidating the Influences of Size, Surface Chemistry, and Dynamic Flow on Cellular Association of Nanoparticles Made by Polymerization‐induced Self‐Assembly. <i>Small</i> , 2018, 14, e1801702.                   | 10.0 | 67        |
| 134 | Efficient Binding, Protection, and Self-Release of dsRNA in Soil by Linear and Star Cationic Polymers. <i>ACS Macro Letters</i> , 2018, 7, 909-915.   | 4.8  | 28        |
| 135 | Recent advances in the delivery of hydrogen sulfide <i>via</i> a macromolecular approach. <i>Polymer Chemistry</i> , 2018, 9, 4431-4439.  | 3.9  | 39        |
| 136 | In Vivo Mitigation of Amyloidogenesis through Functional‐Pathogenic Double-Protein Coronae. <i>Nano Letters</i> , 2018, 18, 5797-5804.  | 9.1  | 39        |
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