# Iva Pashkuleva

List of Publications by Year
in descending order

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Influence of Hyaluronan Density on the Behavior of Breast Cancer Cells with Different CD44 Expression. Advanced Healthcare Materials, 2022, 11, e2101309. | 3.9 | 7 |
| 2 | Antithrombotic and hemocompatible properties of nanostructured coatings assembled from block copolymers. Journal of Colloid and Interface Science, 2022, 608, 1608-1618. | 5.0 | 5 |
| 3 | Glycosaminoglycans as polyelectrolytes: implications in bioactivity and assembly of biomedical devices. International Materials Reviews, 2022, 67, 765-795. | 9.4 | 5 |
| 4 | Adhesive and biodegradable membranes made of sustainable catechol-functionalized marine collagen and chitosan. Colloids and Surfaces B: Biointerfaces, 2022, 213, 112409. | 2.5 | 20 |
| 5 | RHAMM expression tunes the response of breast cancer cell lines to hyaluronan. Acta Biomaterialia, 2022, 146, 187-196. | 4.1 | 6 |
| 6 | Co-localization and crosstalk between CD44 and RHAMM depend on hyaluronan presentation. Acta Biomaterialia, 2021, 119, 114-124. | 4.1 | 30 |
| 7 | 3D hydrogel mimics of the tumor microenvironment: the interplay among hyaluronic acid, stem cells and cancer cells. Biomaterials Science, 2021, 9, 252-260. | 2.6 | 13 |
| 8 | Multilayer platform to model the bioactivity of hyaluronic acid in gastric cancer. Materials Science and Engineering C, 2021, 119, 111616. | 3.8 | 7 |
| 9 | Liposomes embedded in layer by layer constructs as simplistic extracellular vesicles transfer model. Materials Science and Engineering C, 2021, 121, 111813. | 3.8 | 7 |
| 10 | Carbohydrate amphiphiles for supramolecular biomaterials: Design, self-assembly, and applications. CheM, 2021, 7, 2943-2964. | 5.8 | 42 |
| 11 | Expanding the Conformational Landscape of Minimalistic Tripeptides by Their <i>O</i>-Glycosylation. Journal of the American Chemical Society, 2021, 143, 19703-19710. | 6.6 | 14 |
| 12 | Hyaluronic Acid of Low Molecular Weight Triggers the Invasive â€œHummingbirdâ€•Phenotype on Gastric Cancer Cells. Advanced Biology, 2020, 4, e2000122. | 3.0 | 8 |
| 13 | Aromatic carbohydrate amphiphile disrupts cancer spheroids and prevents relapse. Nanoscale, 2020, 12, 19088-19092. | 2.8 | 8 |
| 14 | Bactericidal nanopatterns generated by block copolymer self-assembly. Acta Biomaterialia, 2020, 112, 174-181. | 4.1 | 13 |
| 15 | Inhibiting cancer metabolism by aromatic carbohydrate amphiphiles that act as antagonists of the glucose transporter GLUT1. Chemical Science, 2020, 11, 3737-3744. | 3.7 | 21 |
| 16 | Tunable layer-by-layer films containing hyaluronic acid and their interactions with CD44. Journal of Materials Chemistry B, 2020, 8, 3880-3885. | 2.9 | 31 |
| 17 | Bioorthogonal Labeling Reveals Different Expression of Glycans in Mouse Hippocampal Neuron Cultures during Their Development. Molecules, 2020, 25, 795. | 1.7 | 3 |
| 18 | Gelatin microâ€•and nanocapsules obtained via sonochemical method. Journal of Applied Polymer Science, 2020, 137, 49584. | 1.3 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Mineralization of Layer-by-Layer Ultrathin Films Containing Microfluidic-Produced Hydroxyapatite Nanorods. Crystal Growth and Design, 2019, 19, 6351-6359. | 1.4 | 6 |
| 20 | Bioinspired baroplastic glycosaminoglycan sealants for soft tissues. Acta Biomaterialia, 2019, 87, 108-117. | 4.1 | 16 |
| 21 | Minimalistic supramolecular proteoglycan mimics by co-assembly of aromatic peptide and carbohydrate amphiphiles. Chemical Science, 2019, 10, 2385-2390. | 3.7 | 60 |
| 22 | Sweet building blocks for self-assembling biomaterials with molecular recognition. , 2018, , 79-94. | | 2 |
| 23 | Molecular weight of surface immobilized hyaluronic acid influences CD44-mediated binding of gastric cancer cells. Scientific Reports, 2018, 8, 16058. | 1.6 | 47 |
| 24 | Redox-Responsive Micellar Nanoparticles from Glycosaminoglycans for CD44 Targeted Drug Delivery. Biomacromolecules, 2018, 19, 2991-2999. | 2.6 | 26 |
| 25 | Tuning the Stiffness of Surfaces by Assembling Genetically Engineered Polypeptides with Tailored Amino Acid Sequence. Biomacromolecules, 2018, 19, 3401-3411. | 2.6 | 6 |
| 26 | Starâ€Like Glycosaminoglycans with Superior Bioactivity Assemble with Proteins into Microfibers. Chemistry - A European Journal, 2018, 24, 14341-14345. | 1.7 | 7 |
| 27 | Hydrogel Nanomaterials for Cancer Diagnosis and Therapy. , 2018, , 170-183. | | 3 |
| 28 | Sulfation of Glycosaminoglycans and Its Implications in Human Health and Disorders. Annual Review of Biomedical Engineering, 2017, 19, 1-26. | 5.7 | 227 |
| 29 | Extracellular matrix-inspired assembly of glycosaminoglycanâ€"collagen fibers. Journal of Materials Chemistry B, 2017, 5, 3103-3106. | 2.9 | 19 |
| 30 | The Key Role of Sulfation and Branching on Fucoidan Antitumor Activity. Macromolecular Bioscience, 2017, 17, 1600340. | 2.1 | 76 |
| 31 | Design of protein delivery systems by mimicking extracellular mechanisms for protection of growth factors. Acta Biomaterialia, 2017, 63, 283-293. | 4.1 | 21 |
| 32 | Biomimetics: Sulfated Alginate as a Mimic of Sulfated Glycosaminoglycans: Binding of Growth Factors and Effect on Stem Cell Behavior (Adv. Biosys. 7/2017). Advanced Biology, 2017, 1, . | 3.0 | 0 |
| 33 | Sulfated Alginate as a Mimic of Sulfated Glycosaminoglycans: Binding of Growth Factors and Effect on Stem Cell Behavior. Advanced Biology, 2017, 1, e1700043. | 3.0 | 34 |
| 34 | Modulating cell adhesion to polybutylene succinate biotextile constructs for tissue engineering applications. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 2853-2863. | 1.3 | 13 |
| 35 | Influence of different surface modification treatments on silk biotextiles for tissue engineering applications. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 496-507. | 1.6 | 19 |
| 36 | Influence of the sulfation degree of glycosaminoglycans on their multilayer assembly with poly-l-lysine. Colloids and Surfaces B: Biointerfaces, 2016, 145, 567-575. | 2.5 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Surfaces Mimicking Glycosaminoglycans Trigger Different Response of Stem Cells via Distinct Fibronectin Adsorption and Reorganization. ACS Applied Materials & Interfaces, 2016, 8, 28428-28436. | 4.0 | 7 |
| 38 | Bacteria-responsive multilayer coatings comprising polycationic nanospheres for bacteria biofilm prevention on urinary catheters. Acta Biomaterialia, 2016, 33, 203-212. | 4.1 | 84 |
| 39 | Functionality of surface-coupled oxidised glycosaminoglycans towards fibroblast adhesion. Journal of Bioactive and Compatible Polymers, 2016, 31, 191-207. | 0.8 | 13 |
| 40 | Following the enzymatic digestion of chondroitin sulfate by a simple GPC analysis. Analytica Chimica Acta, 2015, 885, 207-213. | 2.6 | 19 |
| 41 | Adhesion of Adipose-Derived Mesenchymal Stem Cells to Glycosaminoglycan Surfaces with Different Protein Patterns. ACS Applied Materials & Interfaces, 2015, 7, 10034-10043. | 4.0 | 13 |
| 42 | Biomimetic supramolecular designs for the controlled release of growth factors in bone regeneration. Advanced Drug Delivery Reviews, 2015, 94, 63-76. | 6.6 | 80 |
| 43 | Controlling Cancer Cell Fate Using Localized Biocatalytic Self-Assembly of an Aromatic Carbohydrate Amphiphile. Journal of the American Chemical Society, 2015, 137, 576-579. | 6.6 | 260 |
| 44 | Research Highlights: Highlights from the latest articles in nanomedicine. Nanomedicine, 2014, 9, 573-576. | 1.7 | 0 |
| 45 | Tunable nano-carriers from clicked glycosaminoglycan block copolymers. Journal of Materials Chemistry B, 2014, 2, 4177-4184. | 2.9 | 23 |
| 46 | Functional biopolymer-based matrices for modulation of chronic wound enzyme activities. Acta Biomaterialia, 2013, 9, 5216-5225. | 4.1 | 32 |
| 47 | Surface microstructuring and protein patterning using hyaluronan derivatives. Microelectronic Engineering, 2013, 106, 21-26. | 1.1 | 3 |
| 48 | Probing the biofunctionality of biotinylated hyaluronan and chondroitin sulfate by hyaluronidase degradation and aggrecan interaction. Acta Biomaterialia, 2013, 9, 8158-8166. | 4.1 | 36 |
| 49 | Interactions between Exogenous FGF-2 and Sulfonic Groups: in Situ Characterization and Impact on the Morphology of Human Adipose-Derived Stem Cells. Langmuir, 2013, 29, 7983-7992. | 1.6 | 26 |
| 50 | New biotextiles for tissue engineering: Development, characterization and in vitro cellular viability. Acta Biomaterialia, 2013, 9, 8167-8181. | 4.1 | 65 |
| 51 | GAGs-thiolated chitosan assemblies for chronic wounds treatment: control of enzyme activity and cell attachment. Journal of Materials Chemistry, 2012, 22, 19438. | 6.7 | 27 |
| 52 | Sulfonic groups induce formation of filopodia in mesenchymal stem cells. Journal of Materials Chemistry, 2012, 22, 7172. | 6.7 | 25 |
| 53 | Bioactive glass/polymer composite scaffolds mimicking bone tissue. Journal of Biomedical Materials Research - Part A, 2012, 100A, 2654-2667. | 2.1 | 115 |
| 54 | Synthesis and functionalization of superparamagnetic poly- É› -caprolactone microparticles for the selective isolation of subpopulations of human adipose-derived stem cells. Journal of the Royal Society Interface, 2011, 8, 896-908. | 1.5 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Sugars: burden or biomaterials of the future?. Journal of Materials Chemistry, 2010, 20, 8803. | 6.7 | 28 |
| 56 | Surface modification of starch based biomaterials by oxygen plasma or UV-irradiation. Journal of Materials Science: Materials in Medicine, 2010, 21, 21-32. | 1.7 | 48 |
| 57 | A new route to produce starchâ€based fiber mesh scaffolds by wet spinning and subsequent surface modification as a way to improve cell attachment and proliferation. Journal of Biomedical Materials Research - Part A, 2010, 92A, 369-377. | 2.1 | 58 |
| 58 | Temperature as a Single Onâ€Off Parameter Controlling Nanoparticles Growing, Stabilization and Fast Disentanglement. Advanced Materials, 2010, 22, 4288-4292. | 11.1 | 3 |
| 59 | Highly porous and interconnected starch-based scaffolds: Production, characterization and surface modification. Materials Science and Engineering C, 2010, 30, 981-989. | 3.8 | 25 |
| 60 | Plasma-induced polymerization as a tool for surface functionalization of polymer scaffolds for bone tissue engineering: An in vitro study. Acta Biomaterialia, 2010, 6, 3704-3712. | 4.1 | 51 |
| 61 | Controlling Cell Behavior Through the Design of Polymer Surfaces. Small, 2010, 6, 2208-2220. | 5.2 | 289 |
| 62 | Hydrophobicâˆ’Electrostatic Balance Driving the LCST Offset Aggregationâˆ’Redissolution Behavior of <i>N</i>-Alkylacrylamide-Based Ionic Terpolymers. Langmuir, 2010, 26, 5934-5941. | 1.6 | 25 |
| 63 | Surface phosphorylation of chitosan significantly improves osteoblastcell viability, attachment and proliferation. Journal of Materials Chemistry, 2010, 20, 483-491. | 6.7 | 59 |
| 64 | Surface Modification of Electrospun Polycaprolactone Nanofiber Meshes by Plasma Treatment to Enhance Biological Performance. Small, 2009, 5, 1195-1206. | 5.2 | 244 |
| 65 | Surface-modified 3D starch-based scaffold for improved endothelialization for bone tissue engineering. Journal of Materials Chemistry, 2009, 19, 4091. | 6.7 | 35 |
| 66 | Surface Structural Investigation of Starchâ€Based Biomaterials. Macromolecular Bioscience, 2008, 8, 210-219. | 2.1 | 29 |
| 67 | Plasma Surface Modification of Chitosan Membranes: Characterization and Preliminary Cell Response Studies. Macromolecular Bioscience, 2008, 8, 568-576. | 2.1 | 131 |
| 68 | The Effect of Chitosan on the In Vitro Biological Performance of Chitosanâˆ’Poly(butylene succinate) Blends. Biomacromolecules, 2008, 9, 1139-1145. | 2.6 | 54 |
| 69 | Surface modification for natural-based biomedical polymers. , 2008, , 165-192. | | 1 |
| 70 | Effect of chitosan membrane surface modification via plasma induced polymerization on the adhesion of osteoblast-like cells. Journal of Materials Chemistry, 2007, 17, 4064. | 6.7 | 112 |
| 71 | Water Absorption and Degradation Characteristics of Chitosan-Based Polyesters and Hydroxyapatite Composites. Macromolecular Bioscience, 2007, 7, 354-363. | 2.1 | 97 |
| 72 | Surface modification of starch based blends using potassium permanganate-nitric acid system and its effect on the adhesion and proliferation of osteoblast-like cells. Journal of Materials Science: Materials in Medicine, 2005, 16, 81-92. | 1.7 | 44 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Learning from Nature How to Design Biomimetic Calcium-Phosphate Coatings. , 2004, , 123-150. | | 1 |
| 74 | Effect of Processing Conditions on Mechanical Properties of Pretreated Gelatin Samples. International Journal of Polymeric Materials and Polymeric Biomaterials, 2002, 51, 103-132. | 1.8 | 4 |
| 75 | Surface Treatments and Pre-Calcification Routes to Enhance Cell Adhesion and Proliferation. , 2002, , 183-217. | | 4 |
| 76 | Synthesis and Stereochemistry of 1,2,4,5-tetraarylimidazolidines. Journal of Chemical Research, 2001, 2001, 457-459. | 0.6 | 1 |
| 77 | Phase-transfer Catalysed Reactions of Mono- and disubstituted N-(benzylidene)-benzylamines with cinnamic acid derivatives. Journal of Chemical Research, 2000, 2000, 103-105. | 0.6 | 2 |
| 78 | A SIMPLE AND EFFICIENT SYNTHESIS OF Î³-AMINOBUTYRIC ACID (GABA) DERIVATIVES. Organic Preparations and Procedures International, 1999, 31, 232-236. | 0.6 | 9 |
| 79 | Preparation of Ethyl Esters of Protected 3-Aryl-2,3-Diaminopropanoic Acids by Reaction of Ethyl N-(Diphenylmethylene)glycinate and Azomethines<sup>1</sup>. Synthetic Communications, 1997, 27, 1849-1856. | 1.1 | 6 |