# Yuji Teramura

List of Publications by Year
in descending order



| 102 | 4,384 | 94433 | 114465 |
|---|---|---|---|
| papers | citations | 37 h-index | 63 g-index |

| 104 | 104 | 104 | 4937 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Do Cryopreserved Mesenchymal Stromal Cells Display Impaired Immunomodulatory and Therapeutic Properties?. Stem Cells, 2014, 32, 2430-2442. | 3.2 | 300 |
| 2 | Are Therapeutic Human Mesenchymal Stromal Cells Compatible with Human Blood?. Stem Cells, 2012, 30, 1565-1574. | 3.2 | 281 |
| 3 | Islet-encapsulation in ultra-thin layer-by-layer membranes of poly(vinyl alcohol) anchored to poly(ethylene glycol)â€“lipids in the cell membrane. Biomaterials, 2007, 28, 4818-4825. | 11.4 | 208 |
| 4 | Bioartificial pancreas. Advanced Drug Delivery Reviews, 2010, 62, 827-840. | 13.7 | 167 |
| 5 | Innate immunity activation on biomaterial surfaces: A mechanistic model and coping strategies. Advanced Drug Delivery Reviews, 2011, 63, 1042-1050. | 13.7 | 163 |
| 6 | Cell surface modification with polymers for biomedical studies. Soft Matter, 2010, 6, 1081. | 2.7 | 141 |
| 7 | Single-molecule analysis of epidermal growth factor binding on the surface of living cells. EMBO Journal, 2006, 25, 4215-4222. | 7.8 | 133 |
| 8 | Encapsulation of islets with ultra-thin polyion complex membrane through poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td ( | 11.4 | 131 |
| 9 | Behavior of synthetic polymers immobilized on a cell membrane. Biomaterials, 2008, 29, 1345-1355. | 11.4 | 129 |
| 10 | Dangerous liaisons: complement, coagulation, and kallikrein/kinin crossâ€talk act as a linchpin in the events leading to thromboinflammation. Immunological Reviews, 2016, 274, 245-269. | 6.0 | 124 |
| 11 | Label-free immunosensing for Î±-fetoprotein in human plasma using surface plasmon resonance. Analytical Biochemistry, 2007, 365, 201-207. | 2.4 | 117 |
| 12 | Islets Surface Modification Prevents Blood-Mediated Inflammatory Responses. Bioconjugate Chemistry, 2008, 19, 1389-1395. | 3.6 | 97 |
| 13 | Surface plasmon resonance-based highly sensitive immunosensing for brain natriuretic peptide using nanobeads for signal amplification. Analytical Biochemistry, 2006, 357, 208-215. | 2.4 | 93 |
| 14 | Islet encapsulation with living cells for improvement of biocompatibility. Biomaterials, 2009, 30, 2270-2275. | 11.4 | 93 |
| 15 | Surface Modification of Islets With PEG-Lipid for Improvement of Graft Survival in Intraportal Transplantation. Transplantation, 2009, 88, 624-630. | 1.0 | 90 |
| 16 | Immobilization of urokinase on the islet surface by amphiphilic poly(vinyl alcohol) that carries alkyl side chains. Biomaterials, 2008, 29, 2878-2883. | 11.4 | 81 |
| 17 | Microencapsulation of cells, including islets, within stable ultra-thin membranes of maleimide-conjugated PEG-lipid with multifunctional crosslinkers. Biomaterials, 2013, 34, 2683-2693. | 11.4 | 74 |
| 18 | Control of cell attachment through polyDNA hybridization. Biomaterials, 2010, 31, 2229-2235. | 11.4 | 73 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Improvement of Graft Survival by Surface Modification With Poly(ethylene glycol)-Lipid and Urokinase in Intraportal Islet Transplantation. Transplantation, 2011, 91, 271-278. | 1.0 | 65 |
| 20 | Retention Dynamics of Amphiphilic Polymers PEG-Lipids and PVA-Alkyl on the Cell Surface. ACS Applied Materials & Interfaces, 2010, 2, 1514-1520. | 8.0 | 62 |
| 21 | Co-immobilization of urokinase and thrombomodulin on islet surfaces by poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 | 9.9 | 61 |
| 22 | Do ABO Blood Group Antigens Hamper the Therapeutic Efficacy of Mesenchymal Stromal Cells?. PLoS ONE, 2014, 9, e85040. | 2.5 | 61 |
| 23 | Hemostatic Effects of Phospholipid Vesicles Carrying Fibrinogen Î³ Chain Dodecapeptide in Vitro and in Vivo. Bioconjugate Chemistry, 2005, 16, 1589-1596. | 3.6 | 60 |
| 24 | Prediction of inflammatory responses induced by biomaterials in contact with human blood using protein fingerprint from plasma. Biomaterials, 2015, 36, 55-65. | 11.4 | 52 |
| 25 | Autoregulation of thromboinflammation on biomaterial surfaces by a multicomponent therapeutic coating. Biomaterials, 2013, 34, 985-994. | 11.4 | 50 |
| 26 | Microencapsulation of Islets with Living Cells Using PolyDNA-PEG-Lipid Conjugate. Bioconjugate Chemistry, 2010, 21, 792-796. | 3.6 | 49 |
| 27 | Layer-by-layer co-immobilization of soluble complement receptor 1 and heparin on islets. Biomaterials, 2011, 32, 6487-6492. | 11.4 | 49 |
| 28 | Rolling properties of rGPIbÎ±-conjugated phospholipid vesicles with different membrane flexibilities on vWf surface under flow conditions. Biochemical and Biophysical Research Communications, 2002, 296, 765-770. | 2.1 | 48 |
| 29 | Islet Surface Modification with Urokinase through DNA Hybridization. Bioconjugate Chemistry, 2011, 22, 673-678. | 3.6 | 40 |
| 30 | Mediation of a non-proteolytic activation of complement component C3 by phospholipid vesicles. Biomaterials, 2014, 35, 3688-3696. | 11.4 | 40 |
| 31 | Stable surface coating of silicone elastomer with phosphorylcholine and organosilane copolymer with cross-linking for repelling proteins. Colloids and Surfaces B: Biointerfaces, 2015, 134, 384-391. | 5.0 | 40 |
| 32 | Prolonged Oxygen-Carrying Ability of Hemoglobin Vesicles by Coencapsulation of Catalase in Vivo. Bioconjugate Chemistry, 2003, 14, 1171-1176. | 3.6 | 39 |
| 33 | Lectin-Tagged Fluorescent Polymeric Nanoparticles for Targeting of Sialic Acid on Living Cells. Biomacromolecules, 2014, 15, 2012-2018. | 5.4 | 39 |
| 34 | Cryopreserved Agarose-Encapsulated Islets As Bioartificial Pancreas: A Feasibility Study. Transplantation, 2009, 87, 29-34. | 1.0 | 38 |
| 35 | Conjugation of Von Willebrand Factor-Binding Domain of Platelet Glycoprotein IbÎ± to Size-Controlled Albumin Microspheres. Biomacromolecules, 2000, 1, 290-295. | 5.4 | 37 |
| 36 | Fibrinogen-Conjugated Albumin Polymers and Their Interaction with Platelets under Flow Conditions. Biomacromolecules, 2001, 2, 1192-1197. | 5.4 | 37 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Cells immobilized on patterns printed in DNA by an inkjet printer. Biomaterials, 2011, 32, 3596-3602. | 11.4 | 37 |
| 38 | Immobilization of soluble complement receptor 1 on islets. Biomaterials, 2011, 32, 4539-4545. | 11.4 | 37 |
| 39 | Cell surface modification with ssDNAâ€“PEGâ€“lipid for analysing intercellular interactions between different cells. Biomaterials, 2015, 48, 119-128. | 11.4 | 37 |
| 40 | Interaction of poly(ethylene glycol)-conjugated phospholipids with supported lipid membranes and their influence on protein adsorption. Science and Technology of Advanced Materials, 2016, 17, 677-684. | 6.1 | 37 |
| 41 | Function of fibrinogen Î³-chain dodecapeptide-conjugated latex beads under flow. Biochemical and Biophysical Research Communications, 2003, 312, 773-779. | 2.1 | 36 |
| 42 | Effect of Hb-Encapsulation with Vesicles on H2O2 Reaction and Lipid Peroxidation. Bioconjugate Chemistry, 2002, 13, 1302-1308. | 3.6 | 35 |
| 43 | Ratiometric fluorescence imaging of cell surface pH by poly(ethylene glycol)-phospholipid conjugated with fluorescein isothiocyanate. Scientific Reports, 2017, 7, 17484. | 3.3 | 34 |
| 44 | Thromboinflammation in Therapeutic Medicine. Advances in Experimental Medicine and Biology, 2015, 865, 3-17. | 1.6 | 33 |
| 45 | The non-invasive cell surface modification of hepatocytes with PEG-lipid derivatives. Biomaterials, 2012, 33, 821-828. | 11.4 | 31 |
| 46 | Complement inhibition in biomaterial- and biosurface-induced thromboinflammation. Seminars in Immunology, 2016, 28, 268-277. | 5.6 | 31 |
| 47 | Validation of an MPC Polymer Coating to Attenuate Surfaceâ€Induced Crosstalk between the Complement and Coagulation Systems in Whole Blood in In Vitro and In Vivo Models. Macromolecular Bioscience, 2019, 19, e1800485. | 4.1 | 27 |
| 48 | Immobilization of the soluble domain of human complement receptor 1 on agarose-encapsulated islets for the prevention of complement activation. Biomaterials, 2010, 31, 8847-8853. | 11.4 | 26 |
| 49 | Cell Adhesion Induced Using Surface Modification with Cell-Penetrating Peptide-Conjugated Poly(ethylene glycol)-Lipid: A New Cell Glue for 3D Cell-Based Structures. ACS Applied Materials & Interfaces, 2017, 9, 244-254. | 8.0 | 26 |
| 50 | Hemostatic effects of polymerized albumin particles bearing rGPIa/IIa in thrombocytopenic mice. Biochemical and Biophysical Research Communications, 2003, 306, 256-260. | 2.1 | 25 |
| 51 | Systemic Administration of Hemoglobin Vesicle Elevates Tumor Tissue Oxygen Tension and Modifies Tumor Response to Irradiation. Journal of Surgical Research, 2009, 151, 48-54. | 1.6 | 25 |
| 52 | Harnessing hyaluronic acid-based nanoparticles for combination therapy: A novel approach for suppressing systemic inflammation and to promote antitumor macrophage polarization. Carbohydrate Polymers, 2021, 254, 117291. | 10.2 | 25 |
| 53 | A novel strategy to tag matrix metalloproteinases-positive cells for in vivo imaging of invasive and metastatic activity of tumor cells. Journal of Controlled Release, 2010, 144, 109-114. | 9.9 | 24 |
| 54 | Immobilization of anticoagulant-loaded liposomes on cell surfaces by DNA hybridization. Biomaterials, 2011, 32, 7971-7977. | 11.4 | 24 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Heparinization of cell surfaces with short peptide-conjugated PEG-lipid regulates thromboinflammation in transplantation of human MSCs and hepatocytes. Acta Biomaterialia, 2016, 35, 194-205. | 8.3 | 24 |
| 56 | Transplantation of Co-aggregates of Sertoli Cells and Islet Cells Into Liver Without Immunosuppression. Transplantation, 2014, 97, 287-293. | 1.0 | 23 |
| 57 | A human whole-blood model to study the activation of innate immunity system triggered by nanoparticles as a demonstrator for toxicity. Science and Technology of Advanced Materials, 2019, 20, 688-698. | 6.1 | 23 |
| 58 | Promotion of cell membrane fusion by cell-cell attachment through cell surface modification with functional peptide-PEG-lipids. Biomaterials, 2020, 253, 120113. | 11.4 | 23 |
| 59 | Highly efficient cryopreservation of human induced pluripotent stem cells using a dimethyl sulfoxide-free solution. International Journal of Developmental Biology, 2011, 55, 305-311. | 0.6 | 22 |
| 60 | Influence of molecular weight of PEG chain on interaction between streptavidin and biotinâ€“PEG-conjugated phospholipids studied with QCM-D. Acta Biomaterialia, 2016, 30, 135-143. | 8.3 | 22 |
| 61 | The role and regulation of complement activation as part of the thromboinflammation elicited in cell therapies. Molecular Immunology, 2014, 61, 185-190. | 2.2 | 21 |
| 62 | Development of a micro biochip integrated traveling wave micropumps and surface plasmon resonance imaging sensors. Microsystem Technologies, 2007, 13, 1391-1396. | 2.0 | 19 |
| 63 | Current status of ischemic stroke treatment: From thrombolysis to potential regenerative medicine. Regenerative Therapy, 2021, 18, 408-417. | 3.0 | 19 |
| 64 | Cryopreservation of primate embryonic stem cells with chemically-defined solution without Me2SO. Cryobiology, 2010, 60, 159-164. | 0.7 | 18 |
| 65 | Cell Surface Engineering for Regulation of Immune Reactions in Cell Therapy. Advances in Experimental Medicine and Biology, 2015, 865, 189-209. | 1.6 | 17 |
| 66 | Immobilization of Sertoli cells on islets of Langerhans. Biomaterials Science, 2013, 1, 315-321. | 5.4 | 16 |
| 67 | Nano-structural comparison of 2-methacryloyloxyethyl phosphorylcholine- and ethylene glycol-based surface modification for preventing protein and cell adhesion. Colloids and Surfaces B: Biointerfaces, 2017, 159, 655-661. | 5.0 | 16 |
| 68 | Rapid and highly efficient capture and release of cancer cells using polymeric microfibers immobilized with enzyme-cleavable peptides. Acta Biomaterialia, 2018, 67, 32-41. | 8.3 | 16 |
| 69 | Cellular Response to Non-contacting Nanoscale Sublayer: Cells Sense Several Nanometer Mechanical Property. ACS Applied Materials & Interfaces, 2016, 8, 10710-10716. | 8.0 | 14 |
| 70 | Potential of Cell Surface Engineering with Biocompatible Polymers for Biomedical Applications. Langmuir, 2020, 36, 12088-12106. | 3.5 | 14 |
| 71 | Modification of human MSC surface with oligopeptideâ€PEGâ€lipids for selective binding to activated endothelium. Journal of Biomedical Materials Research - Part A, 2019, 107, 1779-1792. | 4.0 | 13 |
| 72 | Kinetic analyses of disulfide formation between thiol groups attached to linear poly(acrylamide). Journal of Polymer Science Part A, 2011, 49, 671-679. | 2.3 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Gene transfer device utilizing micron-spiked electrodes produced by the self-organization phenomenon of Fe-alloy. Lab on A Chip, 2008, 8, 1104. | 6.0 | 10 |
| 74 | Synthesis of poly(2-methacryloyloxyethyl phosphorylcholine)-conjugated lipids and their characterization and surface properties of modified liposomes for protein interactions. Biomaterials Science, 2021, 9, 5854-5867. | 5.4 | 10 |
| 75 | Fast and selective cell isolation from blood sample by microfiber fabric system with vacuum aspiration. Science and Technology of Advanced Materials, 2016, 17, 807-815. | 6.1 | 9 |
| 76 | Enhancing Detection Sensitivity of ZnO-Based Infrared Plasmonic Sensors Using Capped Dielectric Ga<sub>2</sub>O<sub>3</sub> Layers for Real-Time Monitoring of Biological Interactions. ACS Applied Bio Materials, 2020, 3, 6331-6342. | 4.6 | 9 |
| 77 | Effect of liposome surface modification with water-soluble phospholipid polymer chain-conjugated lipids on interaction with human plasma proteins. Journal of Materials Chemistry B, 2022, 10, 2512-2522. | 5.8 | 9 |
| 78 | Pluronic Micelle-Mediated Tissue Factor Silencing Enhances Hemocompatibility, Stemness, Differentiation Potential, and Paracrine Signaling of Mesenchymal Stem Cells. Biomacromolecules, 2021, 22, 1980-1989. | 5.4 | 9 |
| 79 | Optimization of Islet Microencapsulation with Thin Polymer Membranes for Long-Term Stability. Micromachines, 2019, 10, 755. | 2.9 | 8 |
| 80 | Quantitative evaluation of the impact of artificial cell adhesion via DNA hybridization on E-cadherin-mediated cell adhesion. APL Bioengineering, 2020, 4, 016103. | 6.2 | 8 |
| 81 | A Collagen-Binding Mimetic of Neural Cell Adhesion Molecule. Bioconjugate Chemistry, 2008, 19, 1119-1123. | 3.6 | 7 |
| 82 | Cell Surface Functionalization with Heparinâ€Conjugated Lipid to Suppress Blood Activation. Advanced Functional Materials, 2021, 31, 2008167. | 14.9 | 7 |
| 83 | A hybrid of cells and pancreatic islets toward a new bioartificial pancreas. Regenerative Therapy, 2016, 3, 68-74. | 3.0 | 6 |
| 84 | Influence of cell adhesive molecules attached onto PEG-lipid-modified fluid surfaces on cell adhesion. Colloids and Surfaces B: Biointerfaces, 2019, 175, 375-383. | 5.0 | 6 |
| 85 | Identification of Metal-Binding Peptides and Their Conjugation onto Nanoparticles of Superparamagnetic Iron Oxides and Liposomes. ACS Applied Materials & Interfaces, 2020, 12, 24623-24634. | 8.0 | 5 |
| 86 | Exogenous Cell Surface Modification with Cell Penetrating Peptide-Conjugated Lipids Causes Spontaneous Cell Adhesion. ACS Applied Bio Materials, 2021, 4, 4598-4606. | 4.6 | 5 |
| 87 | Induction of Spontaneous Liposome Adsorption by Exogenous Surface Modification with Cell-Penetrating Peptide-Conjugated Lipids. Langmuir, 2021, 37, 9711-9723. | 3.5 | 5 |
| 88 | Quartz Crystal Microbalance. , 2018, , 509-520. | | 4 |
| 89 | Poly(2-aminoethyl methacrylate)-based polyampholyte brush surface with carboxylic groups to improve blood compatibility. Journal of Biomaterials Science, Polymer Edition, 2020, 31, 679-693. | 3.5 | 4 |
| 90 | Combination of two antithrombogenic methodologies for preventing thrombus formation on a poly(ether ether ketone) substrate. Colloids and Surfaces B: Biointerfaces, 2020, 192, 111021. | 5.0 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Synthesis of Multiacyl Poly(ethylene glycol) for the Conjugation of Cytochrome c to Phospholipid Vesicle. Bioconjugate Chemistry, 2000, 11, 815-821. | 3.6 | 3 |
| 92 | Phospholipid Polymer Hydrogel Matrices with Dually Immobilized Cytokines for Accelerating Secretion of the Extracellular Matrix by Encapsulated Cells. Macromolecular Bioscience, 2020, 20, 2000114. | 4.1 | 3 |
| 93 | Induction of mesenchymal stem cell differentiation by co-culturing with mature cells in double-layered 2-methacryloyloxyethyl phosphorylcholine polymer hydrogel matrices. Journal of Materials Chemistry B, 2021, , . | 5.8 | 3 |
| 94 | Enhancement of Cell Adhesion on a Phosphorylcholine-Based Surface through the Interaction with DNA Mediated by Ca<sup>2+</sup> Ions. Journal of Physical Chemistry B, 2016, 120, 12272-12278. | 2.6 | 2 |
| 95 | Enhancement of intercellular interaction between iPSC-derived neural progenitor cells and activated endothelial cells using cell surface modification with functional oligopeptides. Biomaterials Science, 2022, 10, 925-938. | 5.4 | 2 |
| 96 | Preparation of Magnetic Hydrogel Microparticles with Cationic Surfaces and Their Cell-Assembling Performance. ACS Biomaterials Science and Engineering, 2021, 7, 5107-5117. | 5.2 | 1 |
| 97 | A Robust Method to Store Complement C3 With Superior Ability to Maintain the Native Structure and Function of the Protein. Frontiers in Immunology, 2022, 13, 891994. | 4.8 | 1 |
| 98 | Agarose Hydrogel Beads for Treating Diabetes. , 2016, , 463-477. | | 0 |
| 99 | Design and Application of Cell Glue. Kobunshi Ronbunshu, 2018, 75, 103-115. | 0.2 | 0 |
| 100 | Membrane-anchored ratiometric fluorescent probe forvisualizing the extracellular juxtamembrane pH. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2019, 92, JKP-13. | 0.0 | 0 |
| 101 | Cell surface pH imaging using a membrane-anchored ratiometric fluorescence probe: Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overl<br>for Annual Meeting of the Japanese Pharmacological Society, 2019, 92, 2-S14-1. | 0.0 | 0 |
| 102 | Functional Materials for Cellular Surface Modification and its Progress in Biomedical Application. Membrane, 2022, 47, 137-146. | 0.0 | 0 |