

Teruo Okano

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

614
papers

47,768
citations

112
h-index

196
g-index

636
ext. papers

51,687
ext. citations

7
avg, IF

7.46
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 614 | Tubular Cardiac Tissue Bioengineered from Multi-Layered Cell Sheets for Use in the Treatment of Heart Failure. <i>Methods in Molecular Biology</i> , 2022 , 227-242 | 1.4 | 1 |
| 613 | Enhancing chondrogenic potential via mesenchymal stem cell sheet multilayering.. <i>Regenerative Therapy</i> , 2021 , 18, 487-496 | 3.7 | 0 |
| 612 | Preservation of heparin-binding EGF-like growth factor activity on heparin-modified poly(-isopropylacrylamide)-grafted surfaces.. <i>RSC Advances</i> , 2021 , 11, 37225-37232 | 3.7 | |
| 611 | Safety and efficacy of human juvenile chondrocyte-derived cell sheets for osteochondral defect treatment. <i>Npj Regenerative Medicine</i> , 2021 , 6, 65 | 15.8 | 2 |
| 610 | Trends in Articular Cartilage Tissue Engineering: 3D Mesenchymal Stem Cell Sheets as Candidates for Engineered Hyaline-Like Cartilage. <i>Cells</i> , 2021 , 10, | 7.9 | 11 |
| 609 | Strategies to address mesenchymal stem/stromal cell heterogeneity in immunomodulatory profiles to improve cell-based therapies. <i>Acta Biomaterialia</i> , 2021 , 133, 114-125 | 10.8 | 5 |
| 608 | 3D cell sheet structure augments mesenchymal stem cell cytokine production. <i>Scientific Reports</i> , 2021 , 11, 8170 | 4.9 | 16 |
| 607 | Terminal cationization of poly(-isopropylacrylamide) brush surfaces facilitates efficient thermoresponsive control of cell adhesion and detachment. <i>Science and Technology of Advanced Materials</i> , 2021 , 22, 481-493 | 7.1 | 5 |
| 606 | Allogeneic mesenchymal stem cell sheet therapy: A new frontier in drug delivery systems. <i>Journal of Controlled Release</i> , 2021 , 330, 696-704 | 11.7 | 8 |
| 605 | Improvement of the therapeutic capacity of insulin-producing cells trans-differentiated from human liver cells using engineered cell sheet. <i>Stem Cell Research and Therapy</i> , 2021 , 12, 3 | 8.3 | 1 |
| 604 | Cell Sorting, Culture, Preconditioning, and Modulation/Cell Aggregates: Sheets. <i>Reference Series in Biomedical Engineering</i> , 2021 , 415-448 | | |
| 603 | Development of alternative gene transfer techniques for and gene therapy in a canine model. <i>Regenerative Therapy</i> , 2021 , 18, 347-354 | 3.7 | 1 |
| 602 | Cell Sheets Restore Secretory Function in Wounded Mouse Submandibular Glands. <i>Cells</i> , 2020 , 9, | 7.9 | 2 |
| 601 | Enhanced mechanical properties and cell separation with thermal control of PIPAAm-brushed polymer-blend microfibers. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 6017-6026 | 7.3 | 12 |
| 600 | Cell sheet tissue engineering for scaffold-free three-dimensional (3D) tissue reconstruction. <i>Methods in Cell Biology</i> , 2020 , 157, 143-167 | 1.8 | 7 |
| 599 | A stable protocol for the fabrication of transplantable human oral mucosal epithelial cell sheets for clinical application. <i>Regenerative Therapy</i> , 2020 , 14, 87-94 | 3.7 | 7 |
| 598 | Stable cell adhesion affects mesenchymal stem cell sheet fabrication: Effects of fetal bovine serum and human platelet lysate. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020 , 14, 741-753 | 4.4 | 5 |

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| 597 | Capillary Networks for Bio-Artificial Three-Dimensional Tissues Fabricated Using Cell Sheet Based Tissue Engineering. <i>International Journal of Molecular Sciences</i> , 2020 , 22, | 6.3 | 2 |
| 596 | Novel therapies using cell sheets engineered from allogeneic mesenchymal stem/stromal cells. <i>Emerging Topics in Life Sciences</i> , 2020 , 4, 677-689 | 3.5 | 5 |
| 595 | Fabrication of hyaline-like cartilage constructs using mesenchymal stem cell sheets. <i>Scientific Reports</i> , 2020 , 10, 20869 | 4.9 | 13 |
| 594 | Water stable nanocoatings of poly(N-isopropylacrylamide)-based block copolymers on culture insert membranes for temperature-controlled cell adhesion. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 7812-7821 | 7.3 | 6 |
| 593 | Femoral Head Chondrocyte Viability at the Cam Deformity in Patients With Femoroacetabular Impingement Syndrome. <i>American Journal of Sports Medicine</i> , 2020 , 48, 3586-3593 | 6.8 | 3 |
| 592 | Evaluation of Multi-Layered Pancreatic Islets and Adipose-Derived Stem Cell Sheets Transplanted on Various Sites for Diabetes Treatment. <i>Cells</i> , 2020 , 9, | 7.9 | 3 |
| 591 | Using cell sheets to regenerate mouse submandibular glands. <i>Npj Regenerative Medicine</i> , 2019 , 4, 16 | 15.8 | 10 |
| 590 | Allogeneic multipotent mesenchymal stromal cell sheet transplantation promotes healthy healing of wounds caused by zoledronate and dexamethasone in canine mandibular bones. <i>Regenerative Therapy</i> , 2019 , 10, 77-83 | 3.7 | 9 |
| 589 | Temperature-responsive culture surfaces for insect cell sheets to fabricate a bioactuator. <i>Advanced Robotics</i> , 2019 , 33, 219-231 | 1.7 | 7 |
| 588 | Cell sheet tissue engineering: Cell sheet preparation, harvesting/manipulation, and transplantation. <i>Journal of Biomedical Materials Research - Part A</i> , 2019 , 107, 955-967 | 5.4 | 81 |
| 587 | Utah@ cell sheet tissue engineering center. <i>Regenerative Therapy</i> , 2019 , 11, 2-4 | 3.7 | 1 |
| 586 | Design of Temperature-Responsive Polymer-Grafted Surfaces for Cell Sheet Preparation and Manipulation. <i>Bulletin of the Chemical Society of Japan</i> , 2019 , 92, 817-824 | 5.1 | 64 |
| 585 | Efficient intrahepatic tumor generation by cell sheet transplantation to fabricate orthotopic hepatocarcinoma-bearing model mice for drug testing. <i>Journal of Biomedical Materials Research - Part A</i> , 2019 , 107, 1071-1079 | 5.4 | 16 |
| 584 | Intelligent Surfaces for Cell Sheet Engineering 2019 , 469-484 | | 2 |
| 583 | Stable and Prolonged Autonomous Oscillation in a Self-Oscillating Polymer Brush Prepared on a Porous Glass Substrate. <i>Langmuir</i> , 2019 , 35, 9794-9801 | 4 | 6 |
| 582 | Human mesenchymal stem cell sheets in xeno-free media for possible allogenic applications. <i>Scientific Reports</i> , 2019 , 9, 14415 | 4.9 | 18 |
| 581 | Fabrication of tissue-engineered cell sheets by automated cell culture equipment. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019 , 13, 2246-2255 | 4.4 | 11 |
| 580 | Biomaterials: Temperature-Responsive Polymer 2019 , 457-470 | | 1 |

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| 579 | Cell Sheet Therapy Applications in Human Clinical Settings 2019 , 71-71 | | |
| 578 | Microfluidic vascular-bed devices for vascularized 3D tissue engineering: tissue engineering on a chip. <i>Biomedical Microdevices</i> , 2019 , 22, 9 | 3.7 | 6 |
| 577 | Combined surgery and chondrocyte cell-sheet transplantation improves clinical and structural outcomes in knee osteoarthritis. <i>Npj Regenerative Medicine</i> , 2019 , 4, 4 | 15.8 | 52 |
| 576 | Phenotypic traits of mesenchymal stem cell sheets fabricated by temperature-responsive cell culture plate: structural characteristics of MSC sheets. <i>Stem Cell Research and Therapy</i> , 2019 , 10, 353 | 8.3 | 21 |
| 575 | Developing palatal bone using human mesenchymal stem cell and stem cells from exfoliated deciduous teeth cell sheets. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019 , 13, 319-327 | 4.4 | 10 |
| 574 | Thermally-triggered fabrication of cell sheets for tissue engineering and regenerative medicine. <i>Advanced Drug Delivery Reviews</i> , 2019 , 138, 276-292 | 18.5 | 45 |
| 573 | In Vivo Periodontium Formation Around Titanium Implants Using Periodontal Ligament Cell Sheet. <i>Tissue Engineering - Part A</i> , 2018 , 24, 1273-1282 | 3.9 | 18 |
| 572 | Poly(N-isopropylacrylamide) based thermoresponsive polymer brushes for bioseparation, cellular tissue fabrication, and nano actuators. <i>Nano Structures Nano Objects</i> , 2018 , 16, 9-23 | 5.6 | 41 |
| 571 | Adult hepatocytes direct liver organogenesis through non-parenchymal cell recruitment in the kidney. <i>Journal of Hepatology</i> , 2018 , 68, 744-753 | 13.4 | 2 |
| 570 | Engineered mesenchymal stem-cell-sheets patches prevents postoperative pancreatic leakage in a rat model. <i>Scientific Reports</i> , 2018 , 8, 360 | 4.9 | 13 |
| 569 | Aspects of the Belousov-Zhabotinsky Reaction inside a Self-Oscillating Polymer Brush. <i>Langmuir</i> , 2018 , 34, 1673-1680 | 4 | 14 |
| 568 | Poly(N-isopropylacrylamide)-based thermoresponsive surfaces provide new types of biomedical applications. <i>Biomaterials</i> , 2018 , 153, 27-48 | 15.6 | 204 |
| 567 | Controlled aggregation behavior of thermoresponsive polymeric micelles by introducing hydrophilic segments as corona components. <i>Journal of Polymer Science Part A</i> , 2018 , 56, 1695-1704 | 2.5 | 20 |
| 566 | Mesenchymal Stem Cell Culture on Poly(N-isopropylacrylamide) Hydrogel with Repeated Thermo-Stimulation. <i>International Journal of Molecular Sciences</i> , 2018 , 19, | 6.3 | 12 |
| 565 | Intra-articular administration of EP2 enhances the articular cartilage repair in a rabbit model. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, 2179-2187 | 4.4 | 1 |
| 564 | Endoscopic Transplantation of Mesenchymal Stem Cell Sheets in Experimental Colitis in Rats. <i>Scientific Reports</i> , 2018 , 8, 11314 | 4.9 | 7 |
| 563 | Effect of Temperature Changes on Serum Protein Adsorption on Thermoresponsive Cell-Culture Surfaces Monitored by A Quartz Crystal Microbalance with Dissipation. <i>International Journal of Molecular Sciences</i> , 2018 , 19, | 6.3 | 14 |
| 562 | Contractile force measurement of human induced pluripotent stem cell-derived cardiac cell sheet-tissue. <i>PLoS ONE</i> , 2018 , 13, e0198026 | 3.7 | 55 |

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| 561 | Improved Subcutaneous Tumor Generation by Cancer Cell Sheet Transplantation. <i>Anticancer Research</i> , 2018 , 38, 671-676 | 2.3 | 5 |
| 560 | Cell Sorting, Culture, Preconditioning, and Modulation/Cell Aggregates: Sheets 2018 , 1-35 | | |
| 559 | A novel, flexible and automated manufacturing facility for cell-based health care products: Tissue Factory. <i>Regenerative Therapy</i> , 2018 , 9, 89-99 | 3.7 | 18 |
| 558 | Engineered Human Contractile Myofiber Sheets as a Platform for Studies of Skeletal Muscle Physiology. <i>Scientific Reports</i> , 2018 , 8, 13932 | 4.9 | 31 |
| 557 | Design of Temperature-Responsive Cell Culture Surfaces for Cell Sheet-Based Regenerative Therapy and 3D Tissue Fabrication. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1078, 371-393 | 3.6 | 4 |
| 556 | Poly(N-isopropylacrylamide)-Grafted Polydimethylsiloxane Substrate For Controlling Cell Adhesion and Detachment by Dual Stimulation of Temperature and Mechanical Stress. <i>Biomacromolecules</i> , 2018 , 19, 4014-4022 | 6.9 | 17 |
| 555 | Periodontal regeneration with autologous periodontal ligament-derived cell sheets - A safety and efficacy study in ten patients. <i>Regenerative Therapy</i> , 2018 , 9, 38-44 | 3.7 | 84 |
| 554 | Design of Functional Thermoresponsive Polymer Brushes and Their Application to Bioseparation. <i>Kobunshi Ronbunshu</i> , 2018 , 75, 143-154 | 0 | 1 |
| 553 | Temperature-Responsive Cell Culture Surface for Cell-Sheet Tissue Engineering and Its Design to Express Temperature-Dependent Cell Attachment/Detachment Character. <i>Kobunshi Ronbunshu</i> , 2018 , 75, 174-186 | 0 | 2 |
| 552 | The liver surface as a favorable site for islet cell sheet transplantation in type 1 diabetes model mice. <i>Regenerative Therapy</i> , 2018 , 8, 65-72 | 3.7 | 12 |
| 551 | Temperature-responsive Polymers for Tissue Engineering 2018 , 301-312 | | 1 |
| 550 | Endometrial regeneration using cell sheet transplantation techniques in rats facilitates successful fertilization and pregnancy. <i>Fertility and Sterility</i> , 2018 , 110, 172-181.e4 | 4.8 | 14 |
| 549 | Autologous human nasal epithelial cell sheet using temperature-responsive culture insert for transplantation after middle ear surgery. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 1089-1096 | 4.4 | 23 |
| 548 | Three-dimensional functional human myocardial tissues fabricated from induced pluripotent stem cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 926-935 | 4.4 | 44 |
| 547 | Undifferentiated and differentiated adipose-derived stem cells improve nerve regeneration in a rat model of facial nerve defect. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 362-374 | 4.4 | 40 |
| 546 | Fabrication of functional 3D hepatic tissues with polarized hepatocytes by stacking endothelial cell sheets in vitro. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 2071-2080 | 4.4 | 43 |
| 545 | Adipose tissue-derived multi-lineage progenitor cells improve left ventricular dysfunction in porcine ischemic cardiomyopathy model. <i>Journal of Heart and Lung Transplantation</i> , 2017 , 36, 237-239 | 5.8 | 4 |
| 544 | Thicker three-dimensional tissue from a "symbiotic recycling system" combining mammalian cells and algae. <i>Scientific Reports</i> , 2017 , 7, 41594 | 4.9 | 26 |

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| 543 | The effects of using vitrified chondrocyte sheets on pain alleviation and articular cartilage repair. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 3437-3444 | 4.4 | 16 |
| 542 | Thermoresponsive polymer-modified microfibers for cell separations. <i>Acta Biomaterialia</i> , 2017 , 53, 81-92 | 10.8 | 28 |
| 541 | Correction: Thermoresponsive-polymer-based materials for temperature-modulated bioanalysis and bioseparations. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 2198 | 7.3 | |
| 540 | On-off affinity binding modulation on thermoresponsive polymer-grafted surfaces for capture and release of proteins and cells. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2017 , 28, 939-957 | 3.5 | 11 |
| 539 | Platelet-activated serum might have a therapeutic effect on damaged articular cartilage. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 3305-3312 | 4.4 | 7 |
| 538 | Micro/nano-imprinted substrates grafted with a thermoresponsive polymer for thermally modulated cell separation. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 5924-5930 | 7.3 | 29 |
| 537 | Local Release of VEGF Using Fiber Mats Enables Effective Transplantation of Layered Cardiomyocyte Sheets. <i>Macromolecular Bioscience</i> , 2017 , 17, 1700073 | 5.5 | 28 |
| 536 | Fabrication of Micropatterned Self-Oscillating Polymer Brush for Direction Control of Chemical Waves. <i>Small</i> , 2017 , 13, 1700041 | 11 | 20 |
| 535 | Xenogeneic transplantation of human adipose-derived stem cell sheets accelerate angiogenesis and the healing of skin wounds in a Zucker Diabetic Fatty rat model of obese diabetes. <i>Regenerative Therapy</i> , 2017 , 6, 65-73 | 3.7 | 9 |
| 534 | Diverse Applications of Nanomedicine. <i>ACS Nano</i> , 2017 , 11, 2313-2381 | 16.7 | 714 |
| 533 | Production of pancreatic progenitor cells from human induced pluripotent stem cells using a three-dimensional suspension bioreactor system. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 3193-3201 | 4.4 | 24 |
| 532 | Hepatocyte Transplantation: Cell Sheet Technology for Liver Cell Transplantation. <i>Current Transplantation Reports</i> , 2017 , 4, 184-192 | 1.5 | 35 |
| 531 | Dynamic electrical behaviour of a thermoresponsive polymer in well-defined poly(N-isopropylacrylamide)-grafted semiconductor devices. <i>RSC Advances</i> , 2017 , 7, 34517-34521 | 3.7 | 5 |
| 530 | Enhanced Therapeutic Effects of Human iPS Cell Derived-Cardiomyocyte by Combined Cell-Sheets with Omental Flap Technique in Porcine Ischemic Cardiomyopathy Model. <i>Scientific Reports</i> , 2017 , 7, 8824 | 4.9 | 59 |
| 529 | Middle ear mucosal regeneration by tissue-engineered cell sheet transplantation. <i>Npj Regenerative Medicine</i> , 2017 , 2, 6 | 15.8 | 66 |
| 528 | Autologous adipose-derived stem cell sheets enhance the strength of intestinal anastomosis. <i>Regenerative Therapy</i> , 2017 , 7, 24-33 | 3.7 | 10 |
| 527 | Creation and Transplantation of an Adipose-derived Stem Cell (ASC) Sheet in a Diabetic Wound-healing Model. <i>Journal of Visualized Experiments</i> , 2017 , | 1.6 | 14 |
| 526 | Bio-implant as a novel restoration for tooth loss. <i>Scientific Reports</i> , 2017 , 7, 7414 | 4.9 | 20 |

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| 525 | Thermoresponsive Polymer Brushes for Thermally Modulated Cell Adhesion and Detachment 2017 , 361-375 | | |
| 524 | The role of Tsukushi (TSK), a small leucine-rich repeat proteoglycan, in bone growth. <i>Regenerative Therapy</i> , 2017 , 7, 98-107 | 3.7 | 10 |
| 523 | Cytological character of mini pig mesenchymal stromal cells from various tissues and the attempt of cell sheet formation. <i>Regenerative Therapy</i> , 2017 , 6, 83-89 | 3.7 | 5 |
| 522 | Characterization of layered chondrocyte sheets created in a co-culture system with synoviocytes in a hypoxic environment. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 2885-2894 | 4.4 | 7 |
| 521 | Treatment of chemically induced oral ulcer using adipose-derived mesenchymal stem cell sheet. <i>Journal of Oral Pathology and Medicine</i> , 2017 , 46, 520-527 | 3.3 | 19 |
| 520 | Oral epithelial cell sheets engraftment for esophageal strictures after endoscopic submucosal dissection of squamous cell carcinoma and airplane transportation. <i>Scientific Reports</i> , 2017 , 7, 17460 | 4.9 | 54 |
| 519 | Functional Thyroid Follicular Cells Differentiation from Human-Induced Pluripotent Stem Cells in Suspension Culture. <i>Frontiers in Endocrinology</i> , 2017 , 8, 103 | 5.7 | 13 |
| 518 | Characterization of chondrocyte sheets prepared using a co-culture method with temperature-responsive culture inserts. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, 486-95 | 4.4 | 28 |
| 517 | Transplantation of cancerous cell sheets effectively generates tumour-bearing model mice. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, E510-E517 | 4.4 | 10 |
| 516 | Thermoresponsive-polymer-based materials for temperature-modulated bioanalysis and bioseparations. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 6381-6397 | 7.3 | 76 |
| 515 | Multipotent mesenchymal stromal cell sheet therapy for bisphosphonate-related osteonecrosis of the jaw in a rat model. <i>Acta Biomaterialia</i> , 2016 , 42, 400-410 | 10.8 | 47 |
| 514 | TRPV-1-mediated elimination of residual iPS cells in bioengineered cardiac cell sheet tissues. <i>Scientific Reports</i> , 2016 , 6, 21747 | 4.9 | 29 |
| 513 | Bioseparation Using Thermoresponsive Polymers 2016 , 220-230 | | |
| 512 | Artificial cilia as autonomous nanoactuators: Design of a gradient self-oscillating polymer brush with controlled unidirectional motion. <i>Science Advances</i> , 2016 , 2, e1600902 | 14.3 | 33 |
| 511 | Thermoresponsive anionic block copolymer brushes with a strongly anionic bottom segment for effective interactions with biomolecules. <i>RSC Advances</i> , 2016 , 6, 93169-93179 | 3.7 | 14 |
| 510 | [OPINION] Fusion of Advanced Technology for DDS. <i>Drug Delivery System</i> , 2016 , 31, 262-262 | 0 | |
| 509 | Preparation of Thermoresponsive Nanostructured Surfaces for Tissue Engineering. <i>Journal of Visualized Experiments</i> , 2016 , e53465 | 1.6 | 1 |
| 508 | A heparin-modified thermoresponsive surface with heparin-binding epidermal growth factor-like growth factor for maintaining hepatic functions and harvesting hepatocyte sheets. <i>Regenerative Therapy</i> , 2016 , 3, 97-106 | 3.7 | 26 |

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| 507 | Transplantation of tissue-engineered cell sheets for stricture prevention after endoscopic submucosal dissection of the oesophagus. <i>United European Gastroenterology Journal</i> , 2016 , 4, 741-753 | 5.3 | 24 |
| 506 | Facial nerve regeneration using basic fibroblast growth factor-impregnated gelatin microspheres in a rat model. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, E559-E567 | 4.4 | 30 |
| 505 | In vivo vascularization of cell sheets provided better long-term tissue survival than injection of cell suspension. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, 700-10 | 4.4 | 31 |
| 504 | Cell/tissue processing information system for regenerative medicine. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, 908-915 | 4.4 | 3 |
| 503 | Peritoneal cell sheets composed of mesothelial cells and fibroblasts prevent intra-abdominal adhesion formation in a rat model. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, 855-866 | 4.4 | 20 |
| 502 | Middle ear mucosal regeneration with three-dimensionally tissue-engineered autologous middle ear cell sheets in rabbit model. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, E188-94 | 4.4 | 19 |
| 501 | Assessment of the Safety of Chondrocyte Sheet Implantation for Cartilage Regeneration. <i>Tissue Engineering - Part C: Methods</i> , 2016 , 22, 59-68 | 2.9 | 6 |
| 500 | Characterization of rabbit limbal epithelial side population cells using RNA sequencing and single-cell qRT-PCR. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 473, 704-9 | 3.4 | 5 |
| 499 | Temperature-responsive molecular recognition chromatography using phenylalanine and tryptophan derived polymer modified silica beads. <i>Analyst, The</i> , 2016 , 141, 910-7 | 5 | 29 |
| 498 | Allogeneic Transplantation of Periodontal Ligament-Derived Multipotent Mesenchymal Stromal Cell Sheets in Canine Critical-Size Supra-Alveolar Periodontal Defect Model. <i>BioResearch Open Access</i> , 2016 , 5, 22-36 | 2.4 | 41 |
| 497 | Tracing behavior of endothelial cells promotes vascular network formation. <i>Microvascular Research</i> , 2016 , 105, 125-31 | 3.7 | 2 |
| 496 | Cell Sheet Tissue Engineering for Heart Failure 2016 , 19-24 | | 5 |
| 495 | Cell Sheet Technologies 2016 , 97-113 | | |
| 494 | Protein Adsorption on Hybrids of Thermoresponsive Polymers and Single-Walled Carbon Nanotubes. <i>International Journal of Polymer Science</i> , 2016 , 2016, 1-5 | 2.4 | 2 |
| 493 | ZBTB16 as a Downstream Target Gene of Osterix Regulates Osteoblastogenesis of Human Multipotent Mesenchymal Stromal Cells. <i>Journal of Cellular Biochemistry</i> , 2016 , 117, 2423-34 | 4.7 | 18 |
| 492 | A Facile Method for Preparing Temperature-Responsive Cell Culture Surfaces by Using a Thioxanthone Photoinitiator Immobilized on a Polystyrene Surface. <i>ChemNanoMat</i> , 2016 , 2, 454-460 | 3.5 | 17 |
| 491 | Endothelial colony-forming cells for preparing prevascular three-dimensional cell-dense tissues using cell-sheet engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, 739-47 | 4.4 | 12 |
| 490 | Human Neural Tissue Construct Fabrication Based on Scaffold-Free Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2016 , 5, 1931-8 | 10.1 | 27 |

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| 489 | Design of Tetra-arm PEG-crosslinked Thermoresponsive Hydrogel for 3D Cell Culture. <i>Analytical Sciences</i> , 2016 , 32, 1203-1205 | 1.7 | 10 |
| 488 | ECM-mimicking thermoresponsive surface for manipulating hepatocyte sheets with maintenance of hepatic functions 2016 , | | 1 |
| 487 | Brush biopsy of human oral mucosal epithelial cells as a quality control of the cell source for fabrication of transplantable epithelial cell sheets for regenerative medicine. <i>Regenerative Therapy</i> , 2016 , 4, 71-77 | 3.7 | 7 |
| 486 | Removal of excess polymer from a suspension containing hybrids of thermoresponsive polymer and carbon nanotubes using aggregation phenomenon. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 095003 | 1.4 | 1 |
| 485 | Cardiac fibroblast-derived VCAM-1 enhances cardiomyocyte proliferation for fabrication of bioengineered cardiac tissue. <i>Regenerative Therapy</i> , 2016 , 4, 92-102 | 3.7 | 16 |
| 484 | Protein separations via thermally responsive ionic block copolymer brush layers. <i>RSC Advances</i> , 2016 , 6, 26254-26263 | 3.7 | 30 |
| 483 | The effect of tendon stem/progenitor cell (TSC) sheet on the early tendon healing in a rat Achilles tendon injury model. <i>Acta Biomaterialia</i> , 2016 , 42, 136-146 | 10.8 | 39 |
| 482 | The effect of transplantation of nasal mucosal epithelial cell sheets after middle ear surgery in a rabbit model. <i>Biomaterials</i> , 2015 , 42, 87-93 | 15.6 | 26 |
| 481 | β -Microglobulin is an appropriate reference gene for RT-PCR-based gene expression analysis of hematopoietic stem cells. <i>Regenerative Therapy</i> , 2015 , 1, 91-97 | 3.7 | 14 |
| 480 | A chemically defined culture medium containing Rho kinase inhibitor Y-27632 for the fabrication of stratified squamous epithelial cell grafts. <i>Biochemical and Biophysical Research Communications</i> , 2015 , 460, 123-9 | 3.4 | 7 |
| 479 | Xenotransplantation of Bone Marrow-Derived Human Mesenchymal Stem Cell Sheets Attenuates Left Ventricular Remodeling in a Porcine Ischemic Cardiomyopathy Model. <i>Tissue Engineering - Part A</i> , 2015 , 21, 2272-80 | 3.9 | 19 |
| 478 | A Method for Performing Islet Transplantation Using Tissue-Engineered Sheets of Islets and Mesenchymal Stem Cells. <i>Tissue Engineering - Part C: Methods</i> , 2015 , 21, 1205-15 | 2.9 | 29 |
| 477 | Measurement of the dynamic behavior of thin poly(N-isopropylacrylamide) hydrogels and their phase transition temperatures measured using reflectometric interference spectroscopy. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1 | 2.3 | 9 |
| 476 | Endoscopic cell sheet transplantation device developed by using a 3-dimensional printer and its feasibility evaluation in a porcine model. <i>Gastrointestinal Endoscopy</i> , 2015 , 82, 147-52 | 5.2 | 21 |
| 475 | Allogeneic Transplantation of an Adipose-Derived Stem Cell Sheet Combined With Artificial Skin Accelerates Wound Healing in a Rat Wound Model of Type 2 Diabetes and Obesity. <i>Diabetes</i> , 2015 , 64, 2723-34 | 0.9 | 110 |
| 474 | Effects of terminal group and chain length on temperature-responsive chromatography utilizing poly(N-isopropylacrylamide) synthesized via RAFT polymerization. <i>RSC Advances</i> , 2015 , 5, 73217-73224 | 3.7 | 15 |
| 473 | Design of Self-Oscillating Polymer Brushes and Control of the Dynamic Behaviors. <i>Chemistry of Materials</i> , 2015 , 27, 7395-7402 | 9.6 | 21 |
| 472 | Studies of the humoral factors produced by layered chondrocyte sheets. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015 , 9, 24-30 | 4.4 | 33 |

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|-----|---|------|-----|
| 471 | Rapid fabrication system for three-dimensional tissues using cell sheet engineering and centrifugation. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 3825-33 | 5.4 | 11 |
| 470 | Thermoresponsive hydrophobic copolymer brushes modified porous monolithic silica for high-resolution bioseparation. <i>RSC Advances</i> , 2015 , 5, 66155-66167 | 3.7 | 33 |
| 469 | Cell Sheets for Periodontal Tissue Engineering. <i>Current Oral Health Reports</i> , 2015 , 2, 252-256 | 1.2 | 11 |
| 468 | Regenerative therapy by fusion of medicine and engineering: First-in-human clinical trials with induced pluripotent stem cells and cell sheet technology: A report of the Symposium of Regenerative Medicine for Patients. <i>Regenerative Therapy</i> , 2015 , 2, 2-5 | 3.7 | 5 |
| 467 | Controlling shape and position of vascular formation in engineered tissues by arbitrary assembly of endothelial cells. <i>Biofabrication</i> , 2015 , 7, 045006 | 10.5 | 12 |
| 466 | Construction of three-dimensional vascularized cardiac tissue with cell sheet engineering. <i>Journal of Controlled Release</i> , 2015 , 205, 83-8 | 11.7 | 83 |
| 465 | Application of regenerative medical technology using tissue-engineered cell sheets for endoscopic submucosal dissection of esophageal neoplasms. <i>Digestive Endoscopy</i> , 2015 , 27, 182-8 | 3.7 | 34 |
| 464 | Control of swelling/Deswelling behavior of a self-oscillating gel by designing the chemical structure. <i>RSC Advances</i> , 2015 , 5, 5781-5787 | 3.7 | 32 |
| 463 | Remodeling of epithelial cells and basement membranes in a corneal deficiency model with long-term follow-up. <i>Laboratory Investigation</i> , 2015 , 95, 168-79 | 5.9 | 8 |
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