# Stephen F Badylak

## List of Publications by Year in Descending Order



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| 402 papers | 43,026 citations | 110 h-index | 199 g-index |
| 421 ext. papers | 47,487 ext. citations | 6.8 avg, IF | 7.81 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 402 | Immunomodulatory matrix-bound nanovesicles mitigate acute and chronic pristane-induced rheumatoid arthritis.. *Npj Regenerative Medicine*, **2022**, 7, 13 | 15.8 | 1 |
| 401 | Mapping the acute time course of immune cell infiltration into an ECM hydrogel in a rat model of stroke using F MRI.. *Biomaterials*, **2022**, 282, 121386 | 15.6 | 2 |
| 400 | A liquid fraction of extracellular matrix inhibits glioma cell viability and .. *Oncotarget*, **2022**, 13, 426-438 | 3.3 | |
| 399 | Continuous Microfiber Wire Mandrel-Less Biofabrication for Soft Tissue Engineering Applications.. *Advanced Healthcare Materials*, **2022**, e2102613 | 10.1 | |
| 398 | Disorders of Localized Inflammation in Wound Healing **2021**, 185-198 | | |
| 397 | Optical Biopsy Using a Neural Network to Predict Gene Expression From Photos of Wounds. *Journal of Surgical Research*, **2021**, 270, 547-554 | 2.5 | 0 |
| 396 | Post-Stroke Timing of ECM Hydrogel Implantation Affects Biodegradation and Tissue Restoration. *International Journal of Molecular Sciences*, **2021**, 22, | 6.3 | 2 |
| 395 | ECM hydrogel improves the delivery of PEG microsphere-encapsulated neural stem cells and endothelial cells into tissue cavities caused by stroke. *Brain Research Bulletin*, **2021**, 168, 120-137 | 3.9 | 4 |
| 394 | Human Bronchial Epithelial Cell Growth on Homologous Versus Heterologous Tissue Extracellular Matrix. *Journal of Surgical Research*, **2021**, 263, 215-223 | 2.5 | 1 |
| 393 | Role of 4-hydroxybutyrate in increased resistance to surgical site infections associated with surgical meshes. *Biomaterials*, **2021**, 267, 120493 | 15.6 | 4 |
| 392 | Silver-doped bioactive glass particles for in vivo bone tissue regeneration and enhanced methicillin-resistant Staphylococcus aureus (MRSA) inhibition. *Materials Science and Engineering C*, **2021**, 120, 111693 | 8.3 | 5 |
| 391 | Lipids as regulators of inflammation and tissue regeneration **2021**, 175-193 | | |
| 390 | Extracellular Matrix Patches for Endarterectomy Repair. *Frontiers in Cardiovascular Medicine*, **2021**, 8, 631750 | 5.4 | 1 |
| 389 | Material Characterisation and Stratification of Conjunctival Epithelial Cells on Electrospun Poly(Caprolactone) Fibres Loaded with Decellularised Tissue Matrices. *Pharmaceutics*, **2021**, 13, | 6.4 | 4 |
| 388 | The effect of normal, metaplastic, and neoplastic esophageal extracellular matrix upon macrophage activation. *Journal of Immunology and Regenerative Medicine*, **2021**, 13, | 2.8 | 3 |
| 387 | Immune and Genome Engineering as the Future of Transplantable Tissue.. *New England Journal of Medicine*, **2021**, 385, 2451-2462 | 59.2 | 7 |
| 386 | Single Cell Sequencing Analysis of Lizard Phagocytic Cell Populations and Their Role in Tail Regeneration. *Journal of Immunology and Regenerative Medicine*, **2020**, 8, | 2.8 | 5 |

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| 385 | Targeting the host immune response for tissue engineering and regenerative medicine applications **2020**, 363-368 | | 1 |
| 384 | Ultrasonic cavitation to prepare ECM hydrogels. *Acta Biomaterialia*, **2020**, 108, 77-86 | 10.8 | 7 |
| 383 | Lipidomics and RNA sequencing reveal a novel subpopulation of nanovesicle within extracellular matrix biomaterials. *Science Advances*, **2020**, 6, eaay4361 | 14.3 | 17 |
| 382 | Graft IL-33 regulates infiltrating macrophages to protect against chronic rejection. *Journal of Clinical Investigation*, **2020**, 130, 5397-5412 | 15.9 | 10 |
| 381 | Host macrophage response to injectable hydrogels derived from ECM and α-helical peptides. *Acta Biomaterialia*, **2020**, 111, 141-152 | 10.8 | 14 |
| 380 | Pancreas whole organ engineering **2020**, 527-536 | | 1 |
| 379 | Extracellular Matrix-Based Biomaterials and Their Influence Upon Cell Behavior. *Annals of Biomedical Engineering*, **2020**, 48, 2132-2153 | 4.7 | 44 |
| 378 | Breast Reconstruction Using a Three-Dimensional Absorbable Mesh Scaffold and Autologous Fat Grafting: A Composite Strategy Based on Tissue-Engineering Principles. *Plastic and Reconstructive Surgery*, **2020**, 146, 409e-413e | 2.7 | 9 |
| 377 | Matrix-Bound Nanovesicles: The Effects of Isolation Method upon Yield, Purity, and Function. *Tissue Engineering - Part C: Methods*, **2020**, 26, 528-540 | 2.9 | 5 |
| 376 | Esophageal extracellular matrix hydrogel mitigates metaplastic change in a dog model of Barrett's esophagus. *Science Advances*, **2020**, 6, eaba4526 | 14.3 | 10 |
| 375 | Matrix bound nanovesicle-associated IL-33 activates a pro-remodeling macrophage phenotype via a non-canonical, ST2-independent pathway. *Journal of Immunology and Regenerative Medicine*, **2019**, 3, 26-35 | 2.8 | 15 |
| 374 | A roadmap for promoting endogenous in situ tissue restoration using inductive bioscaffolds after acute brain injury. *Brain Research Bulletin*, **2019**, 150, 136-149 | 3.9 | 11 |
| 373 | Scaffolds for skeletal muscle tissue engineering **2019**, 245-258 | | 1 |
| 372 | Common Challenges in Tissue Regeneration **2019**, 217-229 | | 2 |
| 371 | 4-Hydroxybutyrate Promotes Endogenous Antimicrobial Peptide Expression in Macrophages. *Tissue Engineering - Part A*, **2019**, 25, 693-706 | 3.9 | 6 |
| 370 | Matrix-bound nanovesicles prevent ischemia-induced retinal ganglion cell axon degeneration and death and preserve visual function. *Scientific Reports*, **2019**, 9, 3482 | 4.9 | 16 |
| 369 | Biologic Scaffolds Composed of Extracellular Matrix for Regenerative Medicine **2019**, 613-626 | | 8 |
| 368 | Acellular Biologic Scaffolds in Regenerative Medicine: Unacceptable Variability with Acceptable Results. *Regenerative Engineering and Translational Medicine*, **2019**, 5, 414-419 | 2.4 | 4 |

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| 367 | Skeletal Muscle Restoration Following Volumetric Muscle Loss: The Therapeutic Effects of a Biologic Surgical Mesh **2019**, 347-353 | | |
| 366 | The challenge of stress incontinence and pelvic organ prolapse: revisiting biologic mesh materials. *Current Opinion in Urology*, **2019**, 29, 437-442 | 2.8 | 7 |
| 365 | Comparison of the host macrophage response to synthetic and biologic surgical meshes used for ventral hernia repair. *Journal of Immunology and Regenerative Medicine*, **2019**, 3, 13-25 | 2.8 | 12 |
| 364 | Human Testis Extracellular Matrix Enhances Human Spermatogonial Stem Cell Survival. *Tissue Engineering - Part A*, **2019**, 25, 663-676 | 3.9 | 15 |
| 363 | Extracellular Matrix Degradation Products Downregulate Neoplastic Esophageal Cell Phenotype. *Tissue Engineering - Part A*, **2019**, 25, 487-498 | 3.9 | 4 |
| 362 | Cytocompatibility and mechanical properties of surgical sealants for cardiovascular applications. *Journal of Thoracic and Cardiovascular Surgery*, **2019**, 157, 176-183 | 1.5 | 15 |
| 361 | Injectable, porous, biohybrid hydrogels incorporating decellularized tissue components for soft tissue applications. *Acta Biomaterialia*, **2018**, 73, 112-126 | 10.8 | 27 |
| 360 | Properties of the Temporomandibular Joint in Growing Pigs. *Journal of Biomechanical Engineering*, **2018**, | 2.1 | 5 |
| 359 | ECM Hydrogels for Regenerative Medicine. *Pancreatic Islet Biology*, **2018**, 27-58 | 0.4 | 6 |
| 358 | Fetal extracellular matrix nerve wraps locally improve peripheral nerve remodeling after complete transection and direct repair in rat. *Scientific Reports*, **2018**, 8, 4474 | 4.9 | 12 |
| 357 | Immunomodulatory biomaterials. *Current Opinion in Biomedical Engineering*, **2018**, 6, 51-57 | 4.4 | 24 |
| 356 | The Effect of Mechanical Loading Upon Extracellular Matrix Bioscaffold-Mediated Skeletal Muscle Remodeling. *Tissue Engineering - Part A*, **2018**, 24, 34-46 | 3.9 | 31 |
| 355 | Extracellular Matrix Bioscaffolds for Building Gastrointestinal Tissue. *Cellular and Molecular Gastroenterology and Hepatology*, **2018**, 5, 1-13 | 7.9 | 40 |
| 354 | Sutureless nerve repair with ECM bioscaffolds and laser-activated chitosan adhesive. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2018**, 106, 1698-1711 | 3.5 | 5 |
| 353 | Extracellular Matrix Membrane Induces Cementoblastic/Osteogenic Properties of Human Periodontal Ligament Stem Cells. *Frontiers in Physiology*, **2018**, 9, 942 | 4.6 | 12 |
| 352 | Solution fibre spinning technique for the fabrication of tuneable decellularised matrix-laden fibres and fibrous micromembranes. *Acta Biomaterialia*, **2018**, 78, 111-122 | 10.8 | 19 |
| 351 | The impact of sterilization upon extracellular matrix hydrogel structure and function. *Journal of Immunology and Regenerative Medicine*, **2018**, 2, 11-20 | 2.8 | 9 |
| 350 | Nitro-Oleic Acid (NO-OA) Release Enhances Regional Angiogenesis in a Rat Abdominal Wall Defect Model. *Tissue Engineering - Part A*, **2018**, 24, 889-904 | 3.9 | 11 |

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| 349 | Preclinical Animal Models for Temporomandibular Joint Tissue Engineering. *Tissue Engineering - Part B: Reviews*, **2018**, 24, 171-178 | 7.9 | 26 |
| 348 | 2036 Extracellular matrix as a novel approach to glioma therapy. *Journal of Clinical and Translational Science*, **2018**, 2, 11-12 | 0.4 | 78 |
| 347 | Extracellular Matrix for Myocardial Repair. *Advances in Experimental Medicine and Biology*, **2018**, 1098, 151-171 | 3.6 | 7 |
| 346 | Author Accountability in Biomedical Research. *Stem Cells and Development*, **2018**, 27, 1671-1673 | 4.4 | 2 |
| 345 | Biodegradation of ECM hydrogel promotes endogenous brain tissue restoration in a rat model of stroke. *Acta Biomaterialia*, **2018**, 80, 66-84 | 10.8 | 53 |
| 344 | Alarmins of the extracellular space. *Seminars in Immunology*, **2018**, 38, 33-39 | 10.7 | 7 |
| 343 | Extracellular matrix-based materials for regenerative medicine. *Nature Reviews Materials*, **2018**, 3, 159-173 | 73.3 | 335 |
| 342 | Preparation and characterization of a biologic scaffold and hydrogel derived from colonic mucosa. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2017**, 105, 291-306 | 3.5 | 33 |
| 341 | Perivascular extracellular matrix hydrogels mimic native matrix microarchitecture and promote angiogenesis via basic fibroblast growth factor. *Biomaterials*, **2017**, 123, 142-154 | 15.6 | 41 |
| 340 | Extracellular matrix proteins as temporary coating for thin-film neural implants. *Journal of Neural Engineering*, **2017**, 14, 014001 | 5 | 7 |
| 339 | Molecular assessment of collagen denaturation in decellularized tissues using a collagen hybridizing peptide. *Acta Biomaterialia*, **2017**, 53, 268-278 | 10.8 | 69 |
| 338 | The Influence of Extracellular RNA on Cell Behavior in Health, Disease and Regeneration. *Current Pathobiology Reports*, **2017**, 5, 13-22 | 2 | 4 |
| 337 | The effect of cell debris within biologic scaffolds upon the macrophage response. *Journal of Biomedical Materials Research - Part A*, **2017**, 105, 2109-2118 | 5.4 | 40 |
| 336 | Extracellular Matrix Bioscaffolds as Immunomodulatory Biomaterials. *Tissue Engineering - Part A*, **2017**, 23, 1152-1159 | 3.9 | 73 |
| 335 | Extracellular matrix hydrogels from decellularized tissues: Structure and function. *Acta Biomaterialia*, **2017**, 49, 1-15 | 10.8 | 364 |
| 334 | Matrix-Bound Nanovesicles Recapitulate Extracellular Matrix Effects on Macrophage Phenotype. *Tissue Engineering - Part A*, **2017**, 23, 1283-1294 | 3.9 | 46 |
| 333 | Biomaterials-based In Situ Tissue Engineering. *Current Opinion in Biomedical Engineering*, **2017**, 1, 4-7 | 4.4 | 21 |
| 332 | Urinary bladder extracellular matrix hydrogels and matrix-bound vesicles differentially regulate central nervous system neuron viability and axon growth and branching. *Journal of Biomaterials Applications*, **2017**, 31, 1277-1295 | 2.9 | 26 |

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| 331 | Biologic Scaffolds. *Cold Spring Harbor Perspectives in Medicine*, **2017**, 7, | 5.4 | 43 |
| 330 | The impact of detergents on the tissue decellularization process: A ToF-SIMS study. *Acta Biomaterialia*, **2017**, 50, 207-219 | 10.8 | 104 |
| 329 | Restoring Mucosal Barrier Function and Modifying Macrophage Phenotype with an Extracellular Matrix Hydrogel: Potential Therapy for Ulcerative Colitis. *Journal of Crohnjs and Colitis*, **2017**, 11, 360-368 | 4.5 | 47 |
| 328 | Long-term retention of ECM hydrogel after implantation into a sub-acute stroke cavity reduces lesion volume. *Acta Biomaterialia*, **2017**, 63, 50-63 | 10.8 | 34 |
| 327 | Macrophage phenotype in response to ECM bioscaffolds. *Seminars in Immunology*, **2017**, 29, 2-13 | 10.7 | 84 |
| 326 | Bioscaffold-mediated mucosal remodeling following short-segment colonic mucosal resection. *Journal of Surgical Research*, **2017**, 218, 353-360 | 2.5 | 2 |
| 325 | Implantation of Brain-Derived Extracellular Matrix Enhances Neurological Recovery after Traumatic Brain Injury. *Cell Transplantation*, **2017**, 26, 1224-1234 | 4 | 32 |
| 324 | Regenerative Medicine Approaches for Age-Related Muscle Loss and Sarcopenia: A Mini-Review. *Gerontology*, **2017**, 63, 580-589 | 5.5 | 26 |
| 323 | The extracellular matrix of the gastrointestinal tract: a regenerative medicine platform. *Nature Reviews Gastroenterology and Hepatology*, **2017**, 14, 540-552 | 24.2 | 44 |
| 322 | Diamagnetic chemical exchange saturation transfer (diaCEST) affords magnetic resonance imaging of extracellular matrix hydrogel implantation in a rat model of stroke. *Biomaterials*, **2017**, 113, 176-190 | 15.6 | 24 |
| 321 | Solubilized extracellular matrix bioscaffolds derived from diverse source tissues differentially influence macrophage phenotype. *Journal of Biomedical Materials Research - Part A*, **2017**, 105, 138-147 | 5.4 | 115 |
| 320 | Models for evaluating the immune response to naturally derived biomaterials. *Drug Discovery Today: Disease Models*, **2017**, 24, 5-11 | 1.3 | 1 |
| 319 | Host Response to Implanted Materials and Devices: An Overview **2017**, 1-14 | | 5 |
| 318 | Intestinal stem cell growth and differentiation on a tubular scaffold with evaluation in small and large animals. *Regenerative Medicine*, **2016**, 11, 45-61 | 2.5 | 69 |
| 317 | Immunomodulation and Mobilization of Progenitor Cells by Extracellular Matrix Bioscaffolds for Volumetric Muscle Loss Treatment. *Tissue Engineering - Part A*, **2016**, 22, 1129-1139 | 3.9 | 54 |
| 316 | Bi-layered polyurethane - Extracellular matrix cardiac patch improves ischemic ventricular wall remodeling in a rat model. *Biomaterials*, **2016**, 107, 1-14 | 15.6 | 79 |
| 315 | Electrodiagnostic Evaluation of Individuals Implanted With Extracellular Matrix for the Treatment of Volumetric Muscle Injury: Case Series. *Physical Therapy*, **2016**, 96, 540-9 | 3.3 | 27 |
| 314 | Regenerative Medicine: lessons from Mother Nature. *Regenerative Medicine*, **2016**, 11, 767-775 | 2.5 | 8 |

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| 313 | An acellular biologic scaffold treatment for volumetric muscle loss: results of a 13-patient cohort study. *Npj Regenerative Medicine*, **2016**, 1, 16008 | 15.8 | 109 |
| 312 | Matrix-bound nanovesicles within ECM bioscaffolds. *Science Advances*, **2016**, 2, e1600502 | 14.3 | 168 |
| 311 | ECM hydrogel for the treatment of stroke: Characterization of the host cell infiltrate. *Biomaterials*, **2016**, 91, 166-181 | 15.6 | 87 |
| 310 | A panel data set on harvest and perfusion decellularization of porcine rectus abdominis. *Data in Brief*, **2016**, 7, 1375-82 | 1.2 | 4 |
| 309 | Extracellular Matrix as an Inductive Scaffold for Functional Tissue Reconstruction **2016**, 11-29 | | 5 |
| 308 | Mechanisms by which acellular biologic scaffolds promote functional skeletal muscle restoration. *Biomaterials*, **2016**, 103, 128-136 | 15.6 | 49 |
| 307 | Abdominal wall reconstruction by a regionally distinct biocomposite of extracellular matrix digest and a biodegradable elastomer. *Journal of Tissue Engineering and Regenerative Medicine*, **2016**, 10, 748-61 | 4.4 | 21 |
| 306 | Inhibition of COX1/2 alters the host response and reduces ECM scaffold mediated constructive tissue remodeling in a rodent model of skeletal muscle injury. *Acta Biomaterialia*, **2016**, 31, 50-60 | 10.8 | 44 |
| 305 | The effect of terminal sterilization on the material properties and in vivo remodeling of a porcine dermal biologic scaffold. *Acta Biomaterialia*, **2016**, 33, 78-87 | 10.8 | 55 |
| 304 | Perfusion-decellularized skeletal muscle as a three-dimensional scaffold with a vascular network template. *Biomaterials*, **2016**, 89, 114-26 | 15.6 | 86 |
| 303 | Looking Ahead to Engineering Epimorphic Regeneration of a Human Digit or Limb. *Tissue Engineering - Part B: Reviews*, **2016**, 22, 251-62 | 7.9 | 14 |
| 302 | Injectable Extracellular Matrix Hydrogels as Scaffolds for Spinal Cord Injury Repair. *Tissue Engineering - Part A*, **2016**, 22, 306-17 | 3.9 | 100 |
| 301 | Primary tumor microRNA signature predicts recurrence and survival in patients with locally advanced esophageal adenocarcinoma. *Oncotarget*, **2016**, 7, 81281-81291 | 3.3 | 22 |
| 300 | Emerging Implications for Extracellular Matrix-Based Technologies in Vascularized Composite Allotransplantation. *Stem Cells International*, **2016**, 2016, 1541823 | 5 | 6 |
| 299 | Solubilized liver extracellular matrix maintains primary rat hepatocyte phenotype in-vitro. *Journal of Biomedical Materials Research - Part A*, **2016**, 104, 957-65 | 5.4 | 38 |
| 298 | Perspective: Work with, not against, biology. *Nature*, **2016**, 540, S55 | 50.4 | 14 |
| 297 | Biomaterials from Decellularized Tissues **2016**, 190-210 | | 3 |
| 296 | TISSUE REGENERATION. A scaffold immune microenvironment. *Science*, **2016**, 352, 298 | 33.3 | 24 |

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| 295 | Mechanical strength vs. degradation of a biologically-derived surgical mesh over time in a rodent full thickness abdominal wall defect. *Biomaterials*, **2016**, 108, 81-90 | 15.6 | 24 |
| 294 | Extracellular matrix bioscaffolds in tissue remodeling and morphogenesis. *Developmental Dynamics* , **2016**, 245, 351-60 | 2.9 | 125 |
| 293 | Methods of tissue decellularization used for preparation of biologic scaffolds and in vivo relevance. *Methods*, **2015**, 84, 25-34 | 4.6 | 337 |
| 292 | Reprint of: Extracellular matrix as a biological scaffold material: Structure and function. *Acta Biomaterialia*, **2015**, 23 Suppl, S17-26 | 10.8 | 85 |
| 291 | Neuroprotective effects of collagen matrix in rats after traumatic brain injury. *Restorative Neurology and Neuroscience*, **2015**, 33, 95-104 | 2.8 | 4 |
| 290 | Composite ECM-alginate microfibers produced by microfluidics as scaffolds with biomineralization potential. *Materials Science and Engineering C*, **2015**, 56, 141-53 | 8.3 | 31 |
| 289 | Factors Which Affect the Host Response to Biomaterials **2015**, 1-12 | | 4 |
| 288 | Regenerative Medicine Strategies for Esophageal Repair. *Tissue Engineering - Part B: Reviews*, **2015**, 21, 393-410 | 7.9 | 27 |
| 287 | Strategies for skeletal muscle tissue engineering: seed vs. soil. *Journal of Materials Chemistry B*, **2015**, 3, 7881-7895 | 7.3 | 11 |
| 286 | A Rodent Model to Evaluate the Tissue Response to a Biological Scaffold When Adjacent to a Synthetic Material. *Tissue Engineering - Part A*, **2015**, 21, 2526-35 | 3.9 | 2 |
| 285 | Concentration-dependent rheological properties of ECM hydrogel for intracerebral delivery to a stroke cavity. *Acta Biomaterialia*, **2015**, 27, 116-130 | 10.8 | 95 |
| 284 | Tissue-Specific Effects of Esophageal Extracellular Matrix. *Tissue Engineering - Part A*, **2015**, 21, 2293-300 | 3.9 | 54 |
| 283 | The host response to allogeneic and xenogeneic biological scaffold materials. *Journal of Tissue Engineering and Regenerative Medicine*, **2015**, 9, 504-11 | 4.4 | 84 |
| 282 | Biologic scaffolds for regenerative medicine: mechanisms of in vivo remodeling. *Annals of Biomedical Engineering*, **2015**, 43, 577-92 | 4.7 | 143 |
| 281 | Regional variations in the histology of porcine skin. *Tissue Engineering - Part C: Methods*, **2015**, 21, 373-84 | 2.9 | 29 |
| 280 | Predicting in vivo responses to biomaterials via combined in vitro and in silico analysis. *Tissue Engineering - Part C: Methods*, **2015**, 21, 148-59 | 2.9 | 35 |
| 279 | Histologic characterization of acellular dermal matrices in a porcine model of tissue expander breast reconstruction. *Tissue Engineering - Part A*, **2015**, 21, 35-44 | 3.9 | 37 |
| 278 | Decellularization and cell seeding of whole liver biologic scaffolds composed of extracellular matrix. *Journal of Clinical and Experimental Hepatology*, **2015**, 5, 69-80 | 4.1 | 72 |

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| 277 | Naturally derived and synthetic scaffolds for skeletal muscle reconstruction. *Advanced Drug Delivery Reviews*, **2015**, 84, 208-21 | 18.5 | 151 |
| 276 | Solubilized extracellular matrix from brain and urinary bladder elicits distinct functional and phenotypic responses in macrophages. *Biomaterials*, **2015**, 46, 131-40 | 15.6 | 58 |
| 275 | The Use of Biologic Scaffolds in the Treatment of Chronic Nonhealing Wounds. *Advances in Wound Care*, **2015**, 4, 490-500 | 4.8 | 94 |
| 274 | MicroRNA signature characterizes primary tumors that metastasize in an esophageal adenocarcinoma rat model. *PLoS ONE*, **2015**, 10, e0122375 | 3.7 | 11 |
| 273 | Strategies for functional bioscaffold-based skeletal muscle reconstruction. *Annals of Translational Medicine*, **2015**, 3, 256 | 3.2 | 4 |
| 272 | Decellularized allogeneic and xenogeneic tissue as a bioscaffold for regenerative medicine: factors that influence the host response. *Annals of Biomedical Engineering*, **2014**, 42, 1517-27 | 4.7 | 195 |
| 271 | An acellular biologic scaffold promotes skeletal muscle formation in mice and humans with volumetric muscle loss. *Science Translational Medicine*, **2014**, 6, 234ra58 | 17.5 | 313 |
| 270 | Biologic Scaffolds Composed of Extracellular Matrix as a Natural Material for Wound Healing **2014**, 111-124 | | |
| 269 | Fabrication and characterization of bioactive and antibacterial composites for dental applications. *Acta Biomaterialia*, **2014**, 10, 3723-32 | 10.8 | 79 |
| 268 | Natural Biomaterials for Regenerative Medicine Applications **2014**, 101-112 | | 8 |
| 267 | Biocompatibility and Immune Response to Biomaterials **2014**, 151-162 | | 1 |
| 266 | Extracellular matrix as an inductive scaffold for functional tissue reconstruction. *Translational Research*, **2014**, 163, 268-85 | 11 | 287 |
| 265 | Fractionation of an ECM hydrogel into structural and soluble components reveals distinctive roles in regulating macrophage behavior. *Biomaterials Science*, **2014**, 2, 1521-34 | 7.4 | 57 |
| 264 | ECM hydrogel coating mitigates the chronic inflammatory response to polypropylene mesh. *Biomaterials*, **2014**, 35, 8585-95 | 15.6 | 113 |
| 263 | The promotion of a constructive macrophage phenotype by solubilized extracellular matrix. *Biomaterials*, **2014**, 35, 8605-12 | 15.6 | 162 |
| 262 | Biologic scaffold for CNS repair. *Regenerative Medicine*, **2014**, 9, 367-83 | 2.5 | 34 |
| 261 | In vivo degradation of 14C-labeled porcine dermis biologic scaffold. *Biomaterials*, **2014**, 35, 8297-304 | 15.6 | 35 |
| 260 | Patch esophagoplasty: esophageal reconstruction using biologic scaffolds. *Annals of Thoracic Surgery*, **2014**, 97, 283-8 | 2.7 | 74 |

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| 259 | Biomaterials for tissue engineering applications. *Seminars in Pediatric Surgery*, **2014**, 23, 112-8 | 2.1 | 102 |
| 258 | Macrophage polarization in response to ECM coated polypropylene mesh. *Biomaterials*, **2014**, 35, 6838-49 | 8.6 | 149 |
| 257 | An assay to quantify chemotactic properties of degradation products from extracellular matrix. *Methods in Molecular Biology*, **2014**, 1202, 103-10 | 1.4 | 9 |
| 256 | Extracellular Matrix as a Bioscaffold for Tissue Engineering **2014**, 149-175 | | 3 |
| 255 | Tissue engineering and regenerative medicine approaches to enhance the functional response to skeletal muscle injury. *Anatomical Record*, **2014**, 297, 51-64 | 2.1 | 48 |
| 254 | The Role of the Host Immune Response in Tissue Engineering and Regenerative Medicine **2014**, 497-509 | | 5 |
| 253 | Rethinking regenerative medicine: a macrophage-centered approach. *Frontiers in Immunology*, **2014** , 5, 510 | 8.4 | 120 |
| 252 | In vivo assessment of a biological occluder for NOTES gastrotomy closure. *Surgical Laparoscopy, Endoscopy and Percutaneous Techniques*, **2014**, 24, 322-6 | 1.3 | |
| 251 | Targeted rehabilitation after extracellular matrix scaffold transplantation for the treatment of volumetric muscle loss. *American Journal of Physical Medicine and Rehabilitation*, **2014**, 93, S79-87 | 2.6 | 47 |
| 250 | Polypropylene surgical mesh coated with extracellular matrix mitigates the host foreign body response. *Journal of Biomedical Materials Research - Part A*, **2014**, 102, 234-46 | 5.4 | 84 |
| 249 | Effects of biologic scaffolds on human stem cells and implications for CNS tissue engineering. *Tissue Engineering - Part A*, **2014**, 20, 313-23 | 3.9 | 71 |
| 248 | The effect of detergents on the basement membrane complex of a biologic scaffold material. *Acta Biomaterialia*, **2014**, 10, 183-93 | 10.8 | 124 |
| 247 | Role of the extracellular matrix in whole organ engineering. *Journal of Cellular Physiology*, **2014**, 229, 984-9 | 7 | 78 |
| 246 | Neuromuscular Tissue Engineering **2014**, 1-24 | | |
| 245 | Quantitative multispectral imaging of Herovici's polychrome for the assessment of collagen content and tissue remodelling. *Journal of Tissue Engineering and Regenerative Medicine*, **2013**, 7, 139-48 | 4.4 | 43 |
| 244 | Hydrogels derived from demineralized and decellularized bone extracellular matrix. *Acta Biomaterialia*, **2013**, 9, 7865-73 | 10.8 | 166 |
| 243 | An in vivo model system for evaluation of the host response to biomaterials. *Methods in Molecular Biology*, **2013**, 1037, 3-25 | 1.4 | 13 |
| 242 | Effect of an inductive hydrogel composed of urinary bladder matrix upon functional recovery following traumatic brain injury. *Tissue Engineering - Part A*, **2013**, 19, 1909-18 | 3.9 | 43 |

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| 241 | Perfusion-decellularized pancreas as a natural 3D scaffold for pancreatic tissue and whole organ engineering. *Biomaterials*, **2013**, 34, 6760-72 | 15.6 | 207 |
| 240 | Lessons from developmental biology for regenerative medicine. *Birth Defects Research Part C: Embryo Today Reviews*, **2013**, 99, 149-59 | | 6 |
| 239 | Bone marrow-derived cells participate in the long-term remodeling in a mouse model of esophageal reconstruction. *Journal of Surgical Research*, **2013**, 182, e1-7 | 2.5 | 22 |
| 238 | Expanded applications, shifting paradigms and an improved understanding of host-biomaterial interactions. *Acta Biomaterialia*, **2013**, 9, 4948-55 | 10.8 | 174 |
| 237 | Hydrogels derived from central nervous system extracellular matrix. *Biomaterials*, **2013**, 34, 1033-40 | 15.6 | 201 |
| 236 | Equine cellular therapy--from stall to bench to bedside?. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2013**, 83, 103-13 | 4.6 | 29 |
| 235 | Prevention of seroma formation with TissuGlu surgical adhesive in a canine abdominoplasty model: long term clinical and histologic studies. *Journal of Plastic, Reconstructive and Aesthetic Surgery*, **2013**, 66, 414-22 | 1.7 | 19 |
| 234 | Preparation and characterization of a biologic scaffold from esophageal mucosa. *Biomaterials*, **2013**, 34, 6729-37 | 15.6 | 60 |
| 233 | Extracellular matrix scaffolds for cartilage and bone regeneration. *Trends in Biotechnology*, **2013**, 31, 169-76 | 15.1 | 379 |
| 232 | Tissue Engineering with Decellularized Tissues **2013**, 1316-1331 | | 4 |
| 231 | Human NELL1 protein augments constructive tissue remodeling with biologic scaffolds. *Cells Tissues Organs*, **2013**, 198, 249-65 | 2.1 | 5 |
| 230 | Bioengineering solutions for neural repair and recovery in stroke. *Current Opinion in Neurology*, **2013**, 26, 626-31 | 7.1 | 16 |
| 229 | Neurorestorative effect of urinary bladder matrix-mediated neural stem cell transplantation following traumatic brain injury in rats. *CNS and Neurological Disorders - Drug Targets*, **2013**, 12, 413-425 | 2.6 | 25 |
| 228 | Biologic scaffolds for musculotendinous tissue repair. *European Cells and Materials*, **2013**, 25, 130-43 | 4.3 | 47 |
| 227 | Invited commentary. *Annals of Thoracic Surgery*, **2012**, 93, 1093 | 2.7 | |
| 226 | Damage associated molecular patterns within xenogeneic biologic scaffolds and their effects on host remodeling. *Biomaterials*, **2012**, 33, 91-101 | 15.6 | 71 |
| 225 | Consequences of ineffective decellularization of biologic scaffolds on the host response. *Biomaterials*, **2012**, 33, 1771-81 | 15.6 | 417 |
| 224 | Non-invasive imaging of transplanted human neural stem cells and ECM scaffold remodeling in the stroke-damaged rat brain by (19)F- and diffusion-MRI. *Biomaterials*, **2012**, 33, 2858-71 | 15.6 | 143 |

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| 223 | Biologic scaffold composed of skeletal muscle extracellular matrix. *Biomaterials*, **2012**, 33, 2916-25 | 15.6 | 200 |
| 222 | Biologic scaffolds composed of central nervous system extracellular matrix. *Biomaterials*, **2012**, 33, 3539-47 | 15.6 | 183 |
| 221 | Macrophage polarization: an opportunity for improved outcomes in biomaterials and regenerative medicine. *Biomaterials*, **2012**, 33, 3792-802 | 15.6 | 595 |
| 220 | The effect of source animal age upon the in vivo remodeling characteristics of an extracellular matrix scaffold. *Biomaterials*, **2012**, 33, 5524-33 | 15.6 | 93 |
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