# Piotr Walczak

## List of Publications by Year in descending order



| 164 | 8,255 | 38742<br>50 | 53230<br>85 |
| --- | --- | --- | --- |
| papers | citations | h-index | g-index |

| 172 | 172 | 172 | 9525 |
| --- | --- | --- | --- |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Dynamic Imaging of Allogeneic Mesenchymal Stem Cells Trafficking to Myocardial Infarction. Circulation, 2005, 112, 1451-1461. | 1.6 | 561 |
| 2 | Artificial reporter gene providing MRI contrast based on proton exchange. Nature Biotechnology, 2007, 25, 217-219. | 17.5 | 379 |
| 3 | Dual-Modality Monitoring of Targeted Intraarterial Delivery of Mesenchymal Stem Cells After Transient Ischemia. Stroke, 2008, 39, 1569-1574. | 2.0 | 371 |
| 4 | Tracking stem cells using magnetic nanoparticles. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2011, 3, 343-355. | 6.1 | 224 |
| 5 | Magnetic resonanceâ€“guided, real-time targeted delivery and imaging of magnetocapsules immunoprotecting pancreatic islet cells. Nature Medicine, 2007, 13, 986-991. | 30.7 | 220 |
| 6 | Instant MR labeling of stem cells using magnetoelectroporation. Magnetic Resonance in Medicine, 2005, 54, 769-774. | 3.0 | 212 |
| 7 | MRI-detectable pH nanosensors incorporated intoÂhydrogels for inÂvivo sensing of transplanted-cell viability. Nature Materials, 2013, 12, 268-275. | 27.5 | 189 |
| 8 | MR tracking of transplanted cells with â€œpositive contrastâ€•using manganese oxide nanoparticles. Magnetic Resonance in Medicine, 2008, 60, 1-7. | 3.0 | 164 |
| 9 | Applicability and limitations of MR tracking of neural stem cells with asymmetric cell division and rapid turnover: The case of the Shiverer dysmyelinated mouse brain. Magnetic Resonance in Medicine, 2007, 58, 261-269. | 3.0 | 160 |
| 10 | The cerebral embolism evoked by intra-arterial delivery of allogeneic bone marrow mesenchymal stem cells in rats is related to cell dose and infusion velocity. Stem Cell Research and Therapy, 2015, 6, 11. | 5.5 | 153 |
| 11 | In vivo â€œhot spotâ€•MR imaging of neural stem cells using fluorinated nanoparticles. Magnetic Resonance in Medicine, 2008, 60, 1506-1511. | 3.0 | 143 |
| 12 | Magnetic Particle Imaging for Real-Time Perfusion Imaging in Acute Stroke. ACS Nano, 2017, 11, 10480-10488. | 14.6 | 142 |
| 13 | Human iPSC-derived blood-brain barrier microvessels: validation of barrier function and endothelial cell behavior. Biomaterials, 2019, 190-191, 24-37. | 11.4 | 141 |
| 14 | A multiphase transitioning peptide hydrogel for suturing ultrasmall vessels. Nature Nanotechnology, 2016, 11, 95-102. | 31.5 | 140 |
| 15 | Cell Size and Velocity of Injection are Major Determinants of the Safety of Intracarotid Stem Cell Transplantation. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 921-927. | 4.3 | 130 |
| 16 | The survival of engrafted neural stem cells within hyaluronic acid hydrogels. Biomaterials, 2013, 34, 5521-5529. | 11.4 | 125 |
| 17 | The dark side of the force â€“ constraints and complications of cell therapies for stroke. Frontiers in Neurology, 2015, 6, 155. | 2.4 | 124 |
| 18 | Human Umbilical Cord Blood Progenitors: The Potential of These Hematopoietic Cells to Become Neural. Stem Cells, 2005, 23, 1560-1570. | 3.2 | 117 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Variable delay multi-pulse train for fast chemical exchange saturation transfer and relayed-nuclear overhauser enhancement MRI. Magnetic Resonance in Medicine, 2014, 71, 1798-1812. | 3.0 | 115 |
| 20 | Quantitative â€œHot-Spotâ€•Imaging of Transplanted Stem Cells Using Superparamagnetic Tracers and Magnetic Particle Imaging. Tomography, 2015, 1, 91-97. | 1.8 | 115 |
| 21 | Noninvasive Detection of Macrophage-Rich Atherosclerotic Plaque in Hyperlipidemic Rabbits Using â€œPositive Contrastâ€•Magnetic Resonance Imaging. Journal of the American College of Cardiology, 2008, 52, 483-491. | 2.8 | 111 |
| 22 | Longâ€term MR cell tracking of neural stem cells grafted in immunocompetent versus immunodeficient mice reveals distinct differences in contrast between live and dead cells. Magnetic Resonance in Medicine, 2011, 65, 564-574. | 3.0 | 105 |
| 23 | In vivo multicolor molecular MR imaging using diamagnetic chemical exchange saturation transfer liposomes. Magnetic Resonance in Medicine, 2012, 67, 1106-1113. | 3.0 | 104 |
| 24 | Fluorocapsules for Improved Function, Immunoprotection, and Visualization of Cellular Therapeutics with MR, US, and CT Imaging. Radiology, 2011, 258, 182-191. | 7.3 | 100 |
| 25 | Gene expression profiling reveals early cellular responses to intracellular magnetic labeling with superparamagnetic iron oxide nanoparticles. Magnetic Resonance in Medicine, 2010, 63, 1031-1043. | 3.0 | 99 |
| 26 | In Vivo Micro-CT Imaging of Human Mesenchymal Stem Cells Labeled with Gold-Poly-<scp>l</scp>-Lysine Nanocomplexes. Advanced Functional Materials, 2017, 27, 1604213. | 14.9 | 95 |
| 27 | Radiopaque Alginate Microcapsules for X-ray Visualization and Immunoprotection of Cellular Therapeutics. Molecular Pharmaceutics, 2006, 3, 531-538. | 4.6 | 91 |
| 28 | Cell motility of neural stem cells is reduced after SPIOâ€labeling, which is mitigated after exocytosis. Magnetic Resonance in Medicine, 2013, 69, 255-262. | 3.0 | 89 |
| 29 | Monitoring Enzyme Activity Using a Diamagnetic Chemical Exchange Saturation Transfer Magnetic Resonance Imaging Contrast Agent. Journal of the American Chemical Society, 2011, 133, 16326-16329. | 13.7 | 83 |
| 30 | Use of perfluorocarbon nanoparticles for nonâ€invasive multimodal cell tracking of human pancreatic islets. Contrast Media and Molecular Imaging, 2011, 6, 251-259. | 0.8 | 83 |
| 31 | Sensitivity of magnetic resonance imaging of dendritic cells for in vivo tracking of cellular cancer vaccines. International Journal of Cancer, 2006, 120, 978-984. | 5.1 | 82 |
| 32 | Magnetoelectroporation: improved labeling of neural stem cells and leukocytes for cellular magnetic resonance imaging using a single FDA-approved agent. Nanomedicine: Nanotechnology, Biology, and Medicine, 2006, 2, 89-94. | 3.3 | 81 |
| 33 | Transforming Thymidine into a Magnetic Resonance Imaging Probe for Monitoring Gene Expression. Journal of the American Chemical Society, 2013, 135, 1617-1624. | 13.7 | 80 |
| 34 | Intravenous Route of Cell Delivery for Treatment of Neurological Disorders: A Meta-Analysis of Preclinical Results. Stem Cells and Development, 2010, 19, 5-16. | 2.1 | 77 |
| 35 | MR imaging of lineage-restricted neural precursors following transplantation into the adult spinal cord. Experimental Neurology, 2006, 201, 49-59. | 4.1 | 76 |
| 36 | Intra-Arterial Delivery of Cell Therapies for Stroke. Stroke, 2018, 49, 1075-1082. | 2.0 | 75 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Label-free CEST MRI Detection of Citicoline-Liposome Drug Delivery in Ischemic Stroke. Theranostics, 2016, 6, 1588-1600. | 10.0 | 74 |
| 38 | Effect of MOG sensitization on somatosensory evoked potential in Lewis rats. Journal of the Neurological Sciences, 2009, 284, 81-89. | 0.6 | 71 |
| 39 | Personalized nanomedicine advancements for stem cell tracking. Advanced Drug Delivery Reviews, 2012, 64, 1488-1507. | 13.7 | 70 |
| 40 | Stem Cells as an Emerging Paradigm in Stroke 4. Stroke, 2019, 50, 3299-3306. | 2.0 | 68 |
| 41 | Evoked potential and behavioral outcomes for experimental autoimmune encephalomyelitis in Lewis rats. Neurological Sciences, 2010, 31, 595-601. | 1.9 | 65 |
| 42 | Human Protamine-1 as an MRI Reporter Gene Based on Chemical Exchange. ACS Chemical Biology, 2014, 9, 134-138. | 3.4 | 64 |
| 43 | Label-free imaging of gelatin-containing hydrogel scaffolds. Biomaterials, 2015, 42, 144-150. | 11.4 | 64 |
| 44 | Real-time MRI for precise and predictable intra-arterial stem cell delivery to the central nervous system. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 2346-2358. | 4.3 | 63 |
| 45 | Optogenetic-guided cortical plasticity after nerve injury. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8838-8843. | 7.1 | 61 |
| 46 | Human glial-restricted progenitors survive, proliferate, and preserve electrophysiological function in rats with focal inflammatory spinal cord demyelination. Glia, 2011, 59, 499-510. | 4.9 | 59 |
| 47 | Long-Term MRI Cell Tracking after Intraventricular Delivery in a Patient with Global Cerebral Ischemia and Prospects for Magnetic Navigation of Stem Cells within the CSF. PLoS ONE, 2014, 9, e97631. | 2.5 | 55 |
| 48 | Screening of Lactobacillus strains for their ability to bind Benzo(a)pyrene and the mechanism of the process. Food and Chemical Toxicology, 2013, 59, 67-71. | 3.6 | 54 |
| 49 | Use of MR Cell Tracking to Evaluate Targeting of Glial Precursor Cells to Inflammatory Tissue by Exploiting the Very Late Antigen-4 Docking Receptor. Radiology, 2012, 265, 175-185. | 7.3 | 52 |
| 50 | Hydrogel-based scaffolds to support intrathecal stem cell transplantation as a gateway to the spinal cord: clinical needs, biomaterials, and imaging technologies. Npj Regenerative Medicine, 2018, 3, 8. | 5.2 | 51 |
| 51 | Genetic Engineering of Mesenchymal Stem Cells to Induce Their Migration and Survival. Stem Cells International, 2016, 2016, 1-9. | 2.5 | 50 |
| 52 | A Distinct Advantage to Intraarterial Delivery of <sup>89</sup>Zr-Bevacizumab in PET Imaging of Mice With and Without Osmotic Opening of the Bloodâ€"Brain Barrier. Journal of Nuclear Medicine, 2019, 60, 617-622. | 5.0 | 49 |
| 53 | Comparison of red-shifted firefly luciferase Ppy RE9 and conventional Luc2 as bioluminescence imaging reporter genes for <italic>in vivo</italic> imaging of stem cells. Journal of Biomedical Optics, 2012, 17, 016004. | 2.6 | 47 |
| 54 | Do hematopoietic cells exposed to a neurogenic environment mimic properties of endogenous neural precursors?. Journal of Neuroscience Research, 2004, 76, 244-254. | 2.9 | 46 |

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|---|---|---|---|
| 55 | In Vivo Imaging of Composite Hydrogel Scaffold Degradation Using CEST MRI and Twoâ€Color NIR Imaging. Advanced Functional Materials, 2019, 29, 1903753. | 14.9 | 45 |
| 56 | PCR detection of cytK gene in Bacillus cereus group strains isolated from food samples. Journal of Microbiological Methods, 2013, 95, 295-301. | 1.6 | 44 |
| 57 | Modeling hyperosmotic bloodâ€“brain barrier opening within human tissue-engineered in vitro brain microvessels. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1517-1532. | 4.3 | 43 |
| 58 | Genetic engineering of stem cells for enhanced therapy. Acta Neurobiologiae Experimentalis, 2013, 73, 1-18. | 0.7 | 41 |
| 59 | The Role of Noninvasive Cellular Imaging in Developing Cell-Based Therapies for Neurodegenerative Disorders. Neurodegenerative Diseases, 2007, 4, 306-313. | 1.4 | 40 |
| 60 | Predicting and optimizing the territory of bloodâ€“brain barrier opening by superselective intra-arterial cerebral infusion under dynamic susceptibility contrast MRI guidance. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 569-575. | 4.3 | 40 |
| 61 | Immunomodulation by Transplanted Human Embryonic Stem Cellâ€Derived Oligodendroglial Progenitors in Experimental Autoimmune Encephalomyelitis. Stem Cells, 2012, 30, 2820-2829. | 3.2 | 38 |
| 62 | Transplanted adipose-derived stem cells can be short-lived yet accelerate healing of acid-burn skin wounds: a multimodal imaging study. Scientific Reports, 2017, 7, 4644. | 3.3 | 38 |
| 63 | Transplanted human glial-restricted progenitors can rescue the survival of dysmyelinated mice independent of the production of mature, compact myelin. Experimental Neurology, 2017, 291, 74-86. | 4.1 | 35 |
| 64 | Optimization of osmotic blood-brain barrier opening to enable intravital microscopy studies on drug delivery in mouse cortex. Journal of Controlled Release, 2020, 317, 312-321. | 9.9 | 35 |
| 65 | Survival of Neural Progenitors Allografted into the CNS of Immunocompetent Recipients is Highly Dependent on Transplantation Site. Cell Transplantation, 2014, 23, 253-262. | 2.5 | 34 |
| 66 | Feasibility of concurrent dual contrast enhancement using CEST contrast agents and superparamagnetic iron oxide particles. Magnetic Resonance in Medicine, 2009, 61, 970-974. | 3.0 | 33 |
| 67 | PET imaging of distinct brain uptake of a nanobody and similarly-sized PAMAM dendrimers after intra-arterial administration. European Journal of Nuclear Medicine and Molecular Imaging, 2019, 46, 1940-1951. | 6.4 | 33 |
| 68 | Nanostructure-specific X-ray tomography reveals myelin levels, integrity and axon orientations in mouse and human nervous tissue. Nature Communications, 2021, 12, 2941. | 12.8 | 33 |
| 69 | Porous tantalum and tantalum oxide nanoparticles for regenerative medicine. Acta Neurobiologiae Experimentalis, 2014, 74, 188-96. | 0.7 | 33 |
| 70 | Long-term cultured human umbilical cord neural-like cells transplanted into the striatum of NOD SCID mice. Brain Research Bulletin, 2007, 74, 155-163. | 3.0 | 31 |
| 71 | X-Ray-Visible Microcapsules Containing Mesenchymal Stem Cells Improve Hind Limb Perfusion in a Rabbit Model of Peripheral Arterial Disease. Stem Cells, 2012, 30, 1286-1296. | 3.2 | 31 |
| 72 | MR Monitoring of Minimally Invasive Delivery of Mesenchymal Stem Cells into the Porcine Intervertebral Disc. PLoS ONE, 2013, 8, e74658. | 2.5 | 30 |

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| 73 | An immunocompetent mouse model of human glioblastoma. Oncotarget, 2017, 8, 61072-61082. | 1.8 | 30 |
| 74 | Hypoxia Increases Breast Cancer Cell-Induced Lymphatic Endothelial Cell Migration. Neoplasia, 2008, 10, 380-IN5. | 5.3 | 29 |
| 75 | MPI cell tracking: what can we learn from MRI?. Proceedings of SPIE, 2011, 7965, 79650z. | 0.8 | 29 |
| 76 | ICVâ€transplanted human glial precursor cells are shortâ€lived yet exert immunomodulatory effects in mice with EAE. Glia, 2012, 60, 1117-1129. | 4.9 | 29 |
| 77 | Genetic Engineering of Mesenchymal Stem Cells for Regenerative Medicine. Stem Cells and Development, 2015, 24, 2219-2242. | 2.1 | 29 |
| 78 | Neural precursors exhibit distinctly different patterns of cell migration upon transplantation during either the acute or chronic phase of EAE: A serial MR imaging study. Magnetic Resonance in Medicine, 2011, 65, 1738-1749. | 3.0 | 28 |
| 79 | Real-Time MRI Guidance for Reproducible Hyperosmolar Opening of the Blood-Brain Barrier in Mice. Frontiers in Neurology, 2018, 9, 921. | 2.4 | 28 |
| 80 | Neural progenitor cell survival in mouse brain can be improved by co-transplantation of helper cells expressing bFGF under doxycycline control. Experimental Neurology, 2013, 247, 73-79. | 4.1 | 26 |
| 81 | Advances in bioinks and in vivo imaging of biomaterials for CNS applications. Acta Biomaterialia, 2019, 95, 60-72. | 8.3 | 26 |
| 82 | Hyperosmolar bloodâ€“brain barrier opening using intra-arterial injection of hyperosmotic mannitol in mice under real-time MRI guidance. Nature Protocols, 2022, 17, 76-94. | 12.0 | 26 |
| 83 | Sphingolipids and microRNA Changes in Blood following Blast Traumatic Brain Injury: An Exploratory Study. Journal of Neurotrauma, 2018, 35, 353-361. | 3.4 | 25 |
| 84 | Mesenchymal stem cells injected into carotid artery to target focal brain injury home to perivascular space. Theranostics, 2020, 10, 6615-6628. | 10.0 | 25 |
| 85 | Hypoxia preconditioned bone marrow-derived mesenchymal stromal/stem cells enhance myoblast fusion and skeletal muscle regeneration. Stem Cell Research and Therapy, 2021, 12, 448. | 5.5 | 25 |
| 86 | Magnetic Resonance Imaging of Monocytes Labeled with Ultrasmall Superparamagnetic Particles of Iron Oxide Using Magnetoelectroporation in an Animal Model of Multiple Sclerosis. Molecular Imaging, 2010, 9, 7290.2010.00016. | 1.4 | 24 |
| 87 | Salicylic acid analogues as chemical exchange saturation transfer MRI contrast agents for the assessment of brain perfusion territory and bloodâ€“brain barrier opening after intra-arterial infusion. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 1186-1194. | 4.3 | 24 |
| 88 | Overexpression of VLA-4 in glial-restricted precursors enhances their endothelial docking and induces diapedesis in a mouse stroke model. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 835-846. | 4.3 | 24 |
| 89 | Reversible blood-brain barrier opening utilizing the membrane active peptide melittin in vitro and in vivo. Biomaterials, 2021, 275, 120942. | 11.4 | 24 |
| 90 | Magnetosonoporation: Instant magnetic labeling of stem cells. Magnetic Resonance in Medicine, 2010, 63, 1437-1441. | 3.0 | 23 |

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|---|---|---|---|
| 91 | Concise Review: Using Stem Cells to Prevent the Progression of Myopiaâ€"A Concept. Stem Cells, 2015, 33, 2104-2113. | 3.2 | 23 |
| 92 | Translation, but not transfection limits clinically relevant, exogenous mRNA based induction of alpha-4 integrin expression on human mesenchymal stem cells. Scientific Reports, 2017, 7, 1103. | 3.3 | 23 |
| 93 | MRI-guided intrathecal transplantation of hydrogel-embedded glial progenitors in large animals. Scientific Reports, 2018, 8, 16490. | 3.3 | 22 |
| 94 | Development of Zincâ€Specific iCEST MRI as an Imaging Biomarker for Prostate Cancer. Angewandte Chemie - International Edition, 2019, 58, 15512-15517. | 13.8 | 22 |
| 95 | Methacrylated gellan gum and hyaluronic acid hydrogel blends for image-guided neurointerventions. Journal of Materials Chemistry B, 2020, 8, 5928-5937. | 5.8 | 21 |
| 96 | Imaging the DNA Alkylator Melphalan by CEST MRI: An Advanced Approach to Theranostics. Molecular Pharmaceutics, 2016, 13, 3043-3053. | 4.6 | 20 |
| 97 | Chemobrain as a Product of Growing Success in Chemotherapy - Focus On Glia As Both A Victim And A Cure. Neuropsychiatry, 2019, 09, 2207-2216. | 0.4 | 20 |
| 98 | In vivo MR imaging of bone marrow cells trafficking to atherosclerotic plaques. Journal of Magnetic Resonance Imaging, 2007, 26, 339-343. | 3.4 | 19 |
| 99 | Neonatal desensitization does not universally prevent xenograft rejection. Nature Methods, 2012, 9, 856-858. | 19.0 | 19 |
| 100 | In Vivo Tracking Techniques for Cellular Regeneration, Replacement, and Redirection. Journal of Nuclear Medicine, 2012, 53, 1825-1828. | 5.0 | 19 |
| 101 | Labeling of human mesenchymal stem cells with different classes of vital stains: robustness and toxicity. Stem Cell Research and Therapy, 2019, 10, 187. | 5.5 | 19 |
| 102 | Real-time MRI guidance for intra-arterial drug delivery in a patient with a brain tumor: technical note. BMJ Case Reports, 2019, 12, bcr-2018-014469. | 0.5 | 19 |
| 103 | The Role of Glia in Canine Degenerative Myelopathy: Relevance to Human Amyotrophic Lateral Sclerosis. Molecular Neurobiology, 2019, 56, 5740-5748. | 4.0 | 18 |
| 104 | In vivo tracking of unlabelled mesenchymal stromal cells by mannose-weighted chemical exchange saturation transfer MRI. Nature Biomedical Engineering, 2022, 6, 658-666. | 22.5 | 18 |
| 105 | MRI of intravenously injected bone marrow cells homing to the site of injured arteries. NMR in Biomedicine, 2007, 20, 673-681. | 2.8 | 17 |
| 106 | Characterization of Soybean Protein Hydrolysates able to Promote the Proliferation of <i>Streptococcus Thermophilus</i> ST. Journal of Food Science, 2013, 78, M575-81. | 3.1 | 17 |
| 107 | Co-transplantation of syngeneic mesenchymal stem cells improves survival of allogeneic glial-restricted precursors in mouse brain. Experimental Neurology, 2016, 275, 154-161. | 4.1 | 17 |
| 108 | New Mechanistic Insights, Novel Treatment Paradigms, and Clinical Progress in Cerebrovascular Diseases. Frontiers in Aging Neuroscience, 2021, 13, 623751. | 3.4 | 17 |

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|---|---|---|---|
| 109 | Effect of MRI tags: SPIO nanoparticles and 19F nanoemulsion on various populations of mouse mesenchymal stem cells. Acta Neurobiologiae Experimentalis, 2015, 75, 144-59. | 0.7 | 17 |
| 110 | Use of Magnetocapsules for in Vivo Visualization and Enhanced Survival of Xenogeneic HepG2 Cell Transplants. Cell Medicine, 2012, 4, 77-84. | 5.0 | 16 |
| 111 | Green fluorescent protein bone marrow cells express hematopoietic and neural antigens in culture and migrate within the neonatal rat brain. Journal of Neuroscience Research, 2004, 76, 255-264. | 2.9 | 15 |
| 112 | Noninvasive Monitoring of Immunosuppressive Drug Efficacy to Prevent Rejection of Intracerebral Glial Precursor Allografts. Cell Transplantation, 2012, 21, 2149-2157. | 2.5 | 15 |
| 113 | Induction of immunological tolerance to myelinogenic glial-restricted progenitor allografts. Brain, 2019, 142, 3456-3472. | 7.6 | 15 |
| 114 | Optimization of magnetosonoporation for stem cell labeling. NMR in Biomedicine, 2010, 23, 480-484. | 2.8 | 14 |
| 115 | MRI of Transplanted Neural Stem Cells. Methods in Molecular Biology, 2011, 711, 435-449. | 0.9 | 14 |
| 116 | The factors present in regenerating muscles impact bone marrow-derived mesenchymal stromal/stem cell fusion with myoblasts. Stem Cell Research and Therapy, 2019, 10, 343. | 5.5 | 13 |
| 117 | Single-cell, high-throughput analysis of cell docking to vessel wall. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 2308-2320. | 4.3 | 13 |
| 118 | Rabbit Model of Human Gliomas: Implications for Intra-Arterial Drug Delivery. PLoS ONE, 2017, 12, e0169656. | 2.5 | 12 |
| 119 | Pre- and postmortem imaging of transplanted cells. International Journal of Nanomedicine, 2015, 10, 5543. | 6.7 | 11 |
| 120 | Using C-Arm X-Ray Imaging to Guide Local Reporter Probe Delivery for Tracking Stem Cell Engraftment. Theranostics, 2013, 3, 916-926. | 10.0 | 10 |
| 121 | Characterization of a bioactive peptide with cytomodulatory effect released from casein. European Food Research and Technology, 2014, 238, 315-322. | 3.3 | 10 |
| 122 | Migratory potential of transplanted glial progenitors as critical factor for successful translation of glia replacement therapy: The gap between mice and men. Glia, 2018, 66, 907-919. | 4.9 | 9 |
| 123 | In Vitro Assessment of Fluorine Nanoemulsion-Labeled Hyaluronan-Based Hydrogels for Precise Intrathecal Transplantation of Glial-Restricted Precursors. Molecular Imaging and Biology, 2019, 21, 1071-1078. | 2.6 | 9 |
| 124 | White matter demyelination predates axonal injury after ischemic stroke in cynomolgus monkeys. Experimental Neurology, 2021, 340, 113655. | 4.1 | 9 |
| 125 | Two in One: Use of Divalent Manganese Ions as Both Cross-Linking and MRI Contrast Agent for Intrathecal Injection of Hydrogel-Embedded Stem Cells. Pharmaceutics, 2021, 13, 1076. | 4.5 | 9 |
| 126 | MRI-guided intracerebral convection-enhanced injection of gliotoxins to induce focal demyelination in swine. PLoS ONE, 2018, 13, e0204650. | 2.5 | 8 |

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|---|---|---|---|
| 127 | Modeling human pediatric and adult gliomas in immunocompetent mice through costimulatory blockade. OncoImmunology, 2020, 9, 1776577. | 4.6 | 8 |
| 128 | Cytocompatible manganese dioxide-based hydrogel nanoreactors for MRI imaging. Materials Science and Engineering C, 2022, 134, 112575. | 7.3 | 8 |
| 129 | Differentiation of strains from the <i><scp>B</scp>acillus cereus</i> group by <scp>RFLP</scp>â€<scp>PFGE</scp> genomic fingerprinting. Electrophoresis, 2013, 34, 3023-3028. | 2.4 | 7 |
| 130 | Quantification of motor neuron loss and muscular atrophy in ricin-induced focal nerve injury. Journal of Neuroscience Methods, 2018, 308, 142-150. | 2.5 | 7 |
| 131 | Muscular Contribution to Adolescent Idiopathic Scoliosis from the Perspective of Stem Cell-Based Regenerative Medicine. Stem Cells and Development, 2019, 28, 1059-1077. | 2.1 | 7 |
| 132 | Neuroinflammation After Stereotactic Radiosurgery-Induced Brain Tumor Disintegration Is Linked to Persistent Cognitive Decline in a Mouse Model of Metastatic Disease. International Journal of Radiation Oncology Biology Physics, 2020, 108, 745-757. | 0.8 | 7 |
| 133 | Deuterium oxide as a contrast medium for real-time MRI-guided endovascular neurointervention. Theranostics, 2021, 11, 6240-6250. | 10.0 | 7 |
| 134 | A Primeval Mechanism of Tolerance to Desiccation Based on Glycolic Acid Saves Neurons in Mammals from Ischemia by Reducing Intracellular Calciumâ€Mediated Excitotoxicity. Advanced Science, 2022, 9, e2103265. | 11.2 | 7 |
| 135 | Intra-arterial transplantation of stem cells in large animals as a minimally-invasive strategy for the treatment of disseminated neurodegeneration. Scientific Reports, 2021, 11, 6581. | 3.3 | 6 |
| 136 | Split Tolerance in a Murine Model of Heterotopic En Bloc Chest Wall Transplantation. Plastic and Reconstructive Surgery - Global Open, 2017, 5, e1595. | 0.6 | 5 |
| 137 | The COVIDâ€19 Menace. Global Challenges, 2021, 5, 2100004. | 3.6 | 5 |
| 138 | <i>In Vivo</i> Imaging of Allografted Glial-Restricted Progenitor Cell Survival and Hydrogel Scaffold Biodegradation. ACS Applied Materials & Interfaces, 2021, 13, 23423-23437. | 8.0 | 5 |
| 139 | Manganese-Labeled Alginate Hydrogels for Image-Guided Cell Transplantation. International Journal of Molecular Sciences, 2022, 23, 2465. | 4.1 | 5 |
| 140 | Immunological Characteristics and Properties of Glial Restricted Progenitors of Mice, Canine Primary Culture Suspensions, and Human QSV40 Immortalized Cell Lines for Prospective Therapies of Neurodegenerative Disorders. Cell Transplantation, 2019, 28, 1140-1154. | 2.5 | 4 |
| 141 | Republished: Real-time MRI guidance for intra-arterial drug delivery in a patient with a brain tumor: technical note. Journal of NeuroInterventional Surgery, 2019, 11, e3-e3. | 3.3 | 4 |
| 142 | Imaging as a tool to accelerate the translation of extracellular vesicleâ€based therapies for central nervous system diseases. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2021, 13, e1688. | 6.1 | 4 |
| 143 | Follow-up of intra-arterial delivery of bevacizumab for treatment of butterfly glioblastoma in patient with first-in-human, real-time MRI-guided intra-arterial neurointervention. Journal of NeuroInterventional Surgery, 2021, 13, 1037-1039. | 3.3 | 4 |
| 144 | Proteolytic Rafts for Improving Intraparenchymal Migration of Minimally Invasively Administered Hydrogel-Embedded Stem Cells. International Journal of Molecular Sciences, 2019, 20, 3083. | 4.1 | 3 |

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|---|---|---|---|
| 145 | Long term intravital single cell tracking under multiphoton microscopy. Journal of Neuroscience Methods, 2021, 349, 109042. | 2.5 | 3 |
| 146 | Traumatic brain injury does not disrupt costimulatory blockade-induced immunological tolerance to glial-restricted progenitor allografts. Journal of Neuroinflammation, 2021, 18, 104. | 7.2 | 3 |
| 147 | Inhomogeneous magnetization transfer <scp>MRI</scp> of white matter structures in the hypomyelinated shiverer mouseÂbrain. Magnetic Resonance in Medicine, 2022, 88, 332-340. | 3.0 | 3 |
| 148 | An in vivo optical system: Control and monitor cortical activity with improved laser speckle contrast imaging and optogenetics. , 2011, , . | | 2 |
| 149 | Thrombus Imaging in Acute Stroke. Stroke, 2019, 50, 1948-1949. | 2.0 | 2 |
| 150 | Selection of Thermotolerant Corynebacterium glutamicum Strains for Organic Acid Biosynthesis. Food Technology and Biotechnology, 2019, 57, 249-259. | 2.1 | 2 |
| 151 | Myelin-Independent Therapeutic Potential of Canine Glial-Restricted Progenitors Transplanted in Mouse Model of Dysmyelinating Disease. Cells, 2021, 10, 2968. | 4.1 | 2 |
| 152 | Local autoimmune encephalomyelitis model in a rat brain with precise control over lesion placement. PLoS ONE, 2022, 17, e0262677. | 2.5 | 2 |
| 153 | Genetic diversity among Lactococcus sp. and Leuconostoc sp. strains using PCR-RFLP of insertion sequences ISS1-type, IS904, and IS982. Polish Journal of Microbiology, 2005, 54, 183-9. | 1.7 | 2 |
| 154 | Transplantation of Human Glial Progenitors to Immunodeficient Neonatal Mice with Amyotrophic Lateral Sclerosis (SOD1/rag2). Antioxidants, 2022, 11, 1050. | 5.1 | 2 |
| 155 | Development of Zincâ€Specific iCEST MRI as an Imaging Biomarker for Prostate Cancer. Angewandte Chemie, 2019, 131, 15658-15663. | 2.0 | 1 |
| 156 | Biodistribution of Glial Progenitors in a Three Dimensional-Printed Model of the Piglet Cerebral Ventricular System. Stem Cells and Development, 2019, 28, 515-527. | 2.1 | 1 |
| 157 | Effect of phenoxyalkanoic acid herbicides on the fermentative production of l-lysine. Applied Microbiology and Biotechnology, 1984, 20, 129. | 3.6 | 0 |
| 158 | Stereotaxic Injection into the Rat Spinal Cord. Neuromethods, 2016, , 133-140. | 0.3 | 0 |
| 159 | Real-Time Dual MRI for Predicting and Subsequent Validation of Intra-Arterial Stem Cell Delivery to the Central Nervous System. Neuromethods, 2017, , 175-191. | 0.3 | 0 |
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