

Daniel Jirak

List of Publications by Year in descending order

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86
papers

2,086
citations

257450

24
h-index

254184

43
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89
all docs

89
docs citations

89
times ranked

2916
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of MRI acquisition parameter variations and protocol heterogeneity on the results of texture analysis and pattern discrimination: An application-oriented study. <i>Medical Physics</i> , 2009, 36, 1236-1243.	3.0	183
2	MRI of transplanted pancreatic islets. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 1228-1233.	3.0	156
3	Magnetic Resonance Imaging of Pancreatic Islets Transplanted Into the Liver in Humans. <i>Transplantation</i> , 2010, 90, 1602-1606.	1.0	106
4	Texture analysis of human liver. <i>Journal of Magnetic Resonance Imaging</i> , 2002, 15, 68-74.	3.4	104
5	Magnetic Resonance Imaging of Pancreatic Islets in Tolerance and Rejection. <i>Transplantation</i> , 2005, 80, 1596-1603.	1.0	93
6	Human Induced Pluripotent Stem Cells Improve Stroke Outcome and Reduce Secondary Degeneration in the Recipient Brain. <i>Cell Transplantation</i> , 2012, 21, 2587-2602.	2.5	76
7	Effects of Magnetic Resonance Image Interpolation on the Results of Texture-Based Pattern Classification. <i>Investigative Radiology</i> , 2009, 44, 405-411.	6.2	59
8	Volume of the crocodylian brain and endocast during ontogeny. <i>PLoS ONE</i> , 2017, 12, e0178491.	2.5	52
9	MRI texture analysis of MR images of apples during ripening and storage. <i>LWT - Food Science and Technology</i> , 2003, 36, 719-727.	5.2	49
10	Monitoring the survival of islet transplants by MRI using a novel technique for their automated detection and quantification. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2009, 22, 257-265.	2.0	49
11	Cyclodextrin-Based Bimodal Fluorescence/MRI Contrast Agents: An Efficient Approach to Cellular Imaging. <i>Chemistry - A European Journal</i> , 2010, 16, 10094-10102.	3.3	49
12	Self-Assembled Thermoresponsive Polymeric Nanogels for ¹⁹ F MR Imaging. <i>Biomacromolecules</i> , 2018, 19, 3515-3524.	5.4	49
13	Selective In Vitro Anticancer Effect of Superparamagnetic Iron Oxide Nanoparticles Loaded in Hyaluronan Polymeric Micelles. <i>Biomacromolecules</i> , 2014, 15, 4012-4020.	5.4	48
14	Fluorine polymer probes for magnetic resonance imaging: quo vadis?. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2019, 32, 173-185.	2.0	48
15	Phantoms for texture analysis of MR images. Long-term and multi-center study. <i>Medical Physics</i> , 2004, 31, 616-622.	3.0	45
16	Phosphonate-Titanium Dioxide Assemblies: Platform for Multimodal Diagnostic-Therapeutic Nanoprobes. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 5185-5194.	6.4	42
17	Magnetic Resonance Imaging of Intrahepatically Transplanted Islets Using Paramagnetic Beads. <i>Transplantation Proceedings</i> , 2005, 37, 3493-3495.	0.6	41
18	Labeling of Pancreatic Islets With Iron Oxide Nanoparticles for In Vivo Detection With Magnetic Resonance. <i>Transplantation</i> , 2008, 85, 155-159.	1.0	36

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19	Dual imaging probes for magnetic resonance imaging and fluorescence microscopy based on perovskite manganite nanoparticles. <i>Journal of Materials Chemistry</i> , 2011, 21, 157-164.	6.7	35
20	Metabolite and diffusion changes in the rat brain after Leksell Gamma Knife irradiation. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 397-402.	3.0	34
21	Leksell gamma knife lesioning of the rat hippocampus: the relationship between radiation dose and functional and structural damage. <i>Journal of Neurosurgery</i> , 2002, 97, 666-673.	1.6	31
22	Multiphase progenetic development shaped the brain of flying archosaurs. <i>Scientific Reports</i> , 2019, 9, 10807.	3.3	28
23	A Trimodal Imaging Platform for Tracking Viable Transplanted Pancreatic Islets In Vivo: F-19 MR, Fluorescence, and Bioluminescence Imaging. <i>Molecular Imaging and Biology</i> , 2019, 21, 454-464.	2.6	26
24	Glycogen as a Biodegradable Construction Nanomaterial for in vivo Use. <i>Macromolecular Bioscience</i> , 2012, 12, 1731-1738.	4.1	25
25	Gadolinium- and Manganese- Based Contrast Agents with Fluorescent Probes for Both Magnetic Resonance and Fluorescence Imaging of Pancreatic Islets: A Comparative Study. <i>ChemMedChem</i> , 2013, 8, 614-621.	3.2	25
26	Two distinct tumor phenotypes isolated from glioblastomas show different MRS characteristics. <i>NMR in Biomedicine</i> , 2008, 21, 830-838.	2.8	24
27	Glycogen as an advantageous polymer carrier in cancer theranostics: Straightforward in vivo evidence. <i>Scientific Reports</i> , 2020, 10, 10411.	3.3	24
28	The Contribution of TRPV4 Channels to Astrocyte Volume Regulation and Brain Edema Formation. <i>Neuroscience</i> , 2018, 394, 127-143.	2.3	23
29	Detection of pancreatic islet allograft impairment in advance of functional failure using magnetic resonance imaging. <i>Transplant International</i> , 2012, 25, 250-260.	1.6	22
30	¹⁹ F Magnetic Resonance Imaging of Injectable Polymeric Implants with Multiresponsive Behavior. <i>Chemistry of Materials</i> , 2018, 30, 4892-4896.	6.7	22
31	Magnetic Resonance Imaging of Pancreatic Islets Transplanted Into the Right Liver Lobes of Diabetic Mice. <i>Transplantation Proceedings</i> , 2008, 40, 444-448.	0.6	21
32	Fluorescent magnetic nanoparticles for cell labeling: Flux synthesis of manganite particles and novel functionalization of silica shell. <i>Journal of Colloid and Interface Science</i> , 2015, 447, 97-106.	9.4	21
33	Biodistribution of upconversion/magnetic silica-coated NaCdF ₄ :Yb ³⁺ /Er ³⁺ nanoparticles in mouse models. <i>RSC Advances</i> , 2017, 7, 45997-46006.	3.6	21
34	Classification of calf muscle MR images by texture analysis. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2004, 16, 259-267.	2.0	20
35	Lanthanide(III) complexes of aminoethyl-DO3A as PARACEST contrast agents based on decoordination of the weakly bound amino group. <i>Dalton Transactions</i> , 2013, 42, 15735.	3.3	20
36	Fluorinated Water-Soluble Poly(2-oxazoline)s as Highly Sensitive ¹⁹ F MRI Contrast Agents. <i>Macromolecules</i> , 2020, 53, 6387-6395.	4.8	20

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37	Implant-forming polymeric ¹⁹ F MRI-tracer with tunable dissolution. <i>Journal of Controlled Release</i> , 2020, 327, 50-60.	9.9	18
38	Plectin ensures intestinal epithelial integrity and protects colon against colitis. <i>Mucosal Immunology</i> , 2021, 14, 691-702.	6.0	18
39	The effect of magnetic nanoparticles on neuronal differentiation of induced pluripotent stem cell-derived neural precursors. <i>International Journal of Nanomedicine</i> , 2016, Volume 11, 6267-6281.	6.7	16
40	Positive contrast visualization of SPIO-labeled pancreatic islets using echo-dephased steady-state free precession. <i>European Radiology</i> , 2011, 21, 214-220.	4.5	15
41	Antifouling fluoropolymer-coated nanomaterials for ¹⁹ F MRI. <i>Chemical Communications</i> , 2021, 57, 4718-4721.	4.1	15
42	Lesion evolution after gamma knife irradiation observed by magnetic resonance imaging. <i>International Journal of Radiation Biology</i> , 2007, 83, 237-244.	1.8	14
43	Vascularization of Artificial Beds for Pancreatic Islet Transplantation in a Rat Model. <i>Transplantation Proceedings</i> , 2010, 42, 2097-2101.	0.6	14
44	Processing of superparamagnetic iron contrast agent ferucarbotran in transplanted pancreatic islets. <i>Contrast Media and Molecular Imaging</i> , 2012, 7, 485-493.	0.8	13
45	Ln(ⁱⁱⁱ)-complexes of a DOTA analogue with an ethylenediamine pendant arm as pH-responsive PARACEST contrast agents. <i>Dalton Transactions</i> , 2016, 45, 3486-3496.	3.3	13
46	Mannan-based conjugates as a multimodal imaging platform for lymph nodes. <i>Journal of Materials Chemistry B</i> , 2018, 6, 2584-2596.	5.8	12
47	Highly colloidally stable trimodal ¹²⁵ I-radiolabeled PEG-neridronate-coated upconversion/magnetic bioimaging nanoprobe. <i>Scientific Reports</i> , 2020, 10, 20016.	3.3	12
48	Rat intra-hippocampal NMDA infusion induces cell-specific damage and changes in expression of NMDA and GABA A receptor subunits. <i>Neuropharmacology</i> , 2016, 105, 594-606.	4.1	11
49	Improved detection of pancreatic islets <i>in vivo</i> using double contrast. <i>Contrast Media and Molecular Imaging</i> , 2011, 6, 308-313.	0.8	10
50	Effect of Mesenchymal Stem Cells on the Vascularization of the Artificial Site for Islet Transplantation in Rats. <i>Transplantation Proceedings</i> , 2014, 46, 1963-1966.	0.6	10
51	A Novel Nanoprobe for Multimodal Imaging Is Effectively Incorporated into Human Melanoma Metastatic Cell Lines. <i>International Journal of Molecular Sciences</i> , 2015, 16, 21658-21680.	4.1	10
52	The Optimal Timing for Pancreatic Islet Transplantation into Subcutaneous Scaffolds Assessed by Multimodal Imaging. <i>Contrast Media and Molecular Imaging</i> , 2017, 2017, 1-13.	0.8	10
53	Magnetoliposomes as Contrast Agents for Longitudinal <i>in vivo</i> Assessment of Transplanted Pancreatic Islets in a Diabetic Rat Model. <i>Scientific Reports</i> , 2018, 8, 11487.	3.3	10
54	Dynamic Contrast-Enhanced Magnetic Resonance Imaging as a Tool to Monitor the Blood Supply to an Artificial Cavity Used as a Site for Islet Transplantation in Rats. <i>Transplantation Proceedings</i> , 2011, 43, 3226-3230.	0.6	9

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55	Low-molecular-weight paramagnetic ^{19}F contrast agents for fluorine magnetic resonance imaging. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2019, 32, 115-122.	2.0	9
56	In Vitro Studies of Fe_3O_4 - ZnO Core-Shell Nanoparticles Designed as Potential Theragnostics. <i>Particle and Particle Systems Characterization</i> , 2020, 37, 2000185.	2.3	9
57	A combined MR and CT study for precise quantitative analysis of the avian brain. <i>Scientific Reports</i> , 2015, 5, 16002.	3.3	7
58	The Human Vocal Fold Layers. Their Delineation Inside Vocal Fold as a Background to Create 3D Digital and Synthetic Glottal Model. <i>Journal of Voice</i> , 2016, 30, 529-537.	1.5	7
59	The Effect of Fatty Acids and BSA Purity on Synthesis and Properties of Fluorescent Gold Nanoclusters. <i>Nanomaterials</i> , 2020, 10, 343.	4.1	7
60	PEG-Neridronate-Modified $\text{NaYF}_4:\text{Gd}^{3+}, \text{Yb}^{3+}, \text{Tm}^{3+}/\text{NaGdF}_4$ Core-Shell Upconverting Nanoparticles for Bimodal Magnetic Resonance/Optical Luminescence Imaging. <i>ACS Omega</i> , 2021, 6, 14420-14429.	3.5	7
61	Paramagnetic encoding of molecules. <i>Nature Communications</i> , 2022, 13, .	12.8	7
62	In vivo visualization of cells labeled with superparamagnetic iron oxides by a sub-millisecond gradient echo sequence. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2014, 27, 329-337.	2.0	6
63	Multimodal PSSMA-Functionalized GdF_3 Eu^{3+} (Tb^{3+}) Nanoparticles for Luminescence Imaging, MRI, and X-Ray Computed Tomography. <i>ChemPlusChem</i> , 2019, 84, 1135-1139.	2.8	6
64	The negative effect of magnetic nanoparticles with ascorbic acid on peritoneal macrophages. <i>Neurochemical Research</i> , 2020, 45, 159-170.	3.3	6
65	Fluorine-Containing Block and Gradient Copoly(2-oxazoline)s Based on 2-(3,3,3-Trifluoropropyl)-2-oxazoline: A Quest for the Optimal Self-Assembled Structure for ^{19}F Imaging. <i>Biomacromolecules</i> , 2021, 22, 2963-2975.	5.4	6
66	Multimodal Imaging Reveals Improvement of Blood Supply to an Artificial Cell Transplant Site Induced by Bioluminescent Mesenchymal Stem Cells. <i>Molecular Imaging and Biology</i> , 2017, 19, 15-23.	2.6	5
67	A broad tuneable birdcage coil for mouse $^1\text{H}/^{19}\text{F}$ MR applications. <i>Journal of Magnetic Resonance</i> , 2021, 329, 107023.	2.1	5
68	Phosphorus-Containing Polymeric Zwitterion: A Pioneering Bioresponsive Probe for ^{31}P -Magnetic Resonance Imaging. <i>Macromolecular Bioscience</i> , 2022, 22, e2100523.	4.1	5
69	Pre-Microporation Improves Outcome of Pancreatic Islet Labelling for Optical and ^{19}F MR Imaging. <i>Biological Procedures Online</i> , 2017, 19, 6.	2.9	4
70	Tungsten (VI) based W_6O_{19} molecular puzzle-photoluminescent nanoparticles easily covered with biocompatible natural polysaccharides via direct chelation. <i>Journal of Colloid and Interface Science</i> , 2018, 512, 308-317.	9.4	4
71	Metabolic Changes in Focal Brain Ischemia in Rats Treated With Human Induced Pluripotent Stem Cell-Derived Neural Precursors Confirm the Beneficial Effect of Transplanted Cells. <i>Frontiers in Neurology</i> , 2019, 10, 1074.	2.4	4
72	A novel model for in vivo quantification of immediate liver perfusion impairment after pancreatic islet transplantation. <i>Islets</i> , 2019, 11, 129-140.	1.8	4

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73	Bioluminescence Imaging In Vivo Confirms the Viability of Pancreatic Islets Transplanted into the Greater Omentum. <i>Molecular Imaging and Biology</i> , 2021, 23, 639-649.	2.6	4
74	Mannan-Based Nanodiagnostic Agents for Targeting Sentinel Lymph Nodes and Tumors. <i>Molecules</i> , 2021, 26, 146.	3.8	4
75	Biological characterization of a novel hybrid copolymer carrier system based on glycogen. <i>Drug Delivery and Translational Research</i> , 2018, 8, 73-82.	5.8	3
76	Iron-doped calcium phytate nanoparticles as a bio-responsive contrast agent in ¹ H/ ³¹ P magnetic resonance imaging. <i>Scientific Reports</i> , 2022, 12, 2118.	3.3	3
77	Poly(4-Styrenesulfonic Acid-co-maleic Anhydride)-Coated NaGdF ₄ :Yb,Tb,Nd Nanoparticles with Luminescence and Magnetic Properties for Imaging of Pancreatic Islets and Î ² -Cells. <i>ACS Applied Materials & Interfaces</i> , 2022, , .	8.0	3
78	Automatic Detection of Pancreatic Islets in Magnetic Resonance Rat Liver Images. , 2007, , .		1
79	318 Glycogen-based hybrid copolymers as a biodegradable construction materials for drug delivery purposes. <i>European Journal of Cancer</i> , 2015, 51, S61.	2.8	1
80	Magnetic Resonance Visualization of Pancreatic Islets Labeled by PARACEST Contrast Agents at 4.7 T. <i>Journal of Molecular Imaging & Dynamics</i> , 2016, 6, .	0.2	1
81	Reply to 'In vivo imaging of islet transplantation'. <i>Nature Medicine</i> , 2007, 13, 773-773.	30.7	0
82	In Vivo Transfer of Superparamagnetic Iron Contrast Agent Ferucarbotran in Transplanted Rat Pancreatic Islets. <i>Transplantation</i> , 2012, 94, 721.	1.0	0
83	Biological and biophysical characteristics of a new polymer platform for drug delivery systems. <i>European Journal of Cancer</i> , 2016, 61, S138.	2.8	0
84	Abstract 5195: A novel, multimodal theranostic nanoprobe is effectively incorporated into melanoma brain metastatic cells. , 2015, , .		0
85	VOLUME TENSOR ESTIMATION USING A VIRTUAL LINE GRID: STUDY OF A DEVELOPING PHEASANT BRAIN. <i>Image Analysis and Stereology</i> , 0, , .	0.9	0
86	VARIANCE OF THE ISOTROPIC UNIFORM SYSTEMATIC SAMPLING. <i>Image Analysis and Stereology</i> , 0, , .	0.9	0