

# Ichio Aoki

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4516239/publications.pdf>

Version: 2024-02-01

204  
papers

6,576  
citations

87723

38  
h-index

88477

70  
g-index

214  
all docs

214  
docs citations

214  
times ranked

9612  
citing authors

#	ARTICLE	IF	CITATIONS
1	Imaging of Tau Pathology in a Tauopathy Mouse Model and in Alzheimer Patients Compared to Normal Controls. <i>Neuron</i> , 2013, 79, 1094-1108.	3.8	673
2	Manganese-enhanced magnetic resonance imaging (MEMRI): methodological and practical considerations. <i>NMR in Biomedicine</i> , 2004, 17, 532-543.	1.6	457
3	A pH-activatable nanoparticle with signal-amplification capabilities for non-invasive imaging of tumour malignancy. <i>Nature Nanotechnology</i> , 2016, 11, 724-730.	15.6	411
4	In vivo detection of neuroarchitecture in the rodent brain using manganese-enhanced MRI. <i>NeuroImage</i> , 2004, 22, 1046-1059.	2.1	246
5	Common functional networks in the mouse brain revealed by multi-centre resting-state fMRI analysis. <i>NeuroImage</i> , 2020, 205, 116278.	2.1	151
6	Visible Drug Delivery by Supramolecular Nanocarriers Directing to Single-Platformed Diagnosis and Therapy of Pancreatic Tumor Model. <i>Cancer Research</i> , 2010, 70, 7031-7041.	0.4	132
7	Dynamic activity-induced manganese-dependent contrast magnetic resonance imaging (DAIM MRI). <i>Magnetic Resonance in Medicine</i> , 2002, 48, 927-933.	1.9	126
8	Silica-Shelled Single Quantum Dot Micelles as Imaging Probes with Dual or Multimodality. <i>Analytical Chemistry</i> , 2006, 78, 5925-5932.	3.2	122
9	Hybrid Calcium Phosphate-Polymeric Micelles Incorporating Gadolinium Chelates for Imaging-Guided Gadolinium Neutron Capture Tumor Therapy. <i>ACS Nano</i> , 2015, 9, 5913-5921.	7.3	119
10	Multi-functional liposomes having temperature-triggered release and magnetic resonance imaging for tumor-specific chemotherapy. <i>Biomaterials</i> , 2011, 32, 1387-1395.	5.7	113
11	Gd-DTPA-loaded polymer-metal complex micelles with high relaxivity for MR cancer imaging. <i>Biomaterials</i> , 2013, 34, 492-500.	5.7	103
12	Hydrothermally synthesized PEGylated calcium phosphate nanoparticles incorporating Gd-DTPA for contrast enhanced MRI diagnosis of solid tumors. <i>Journal of Controlled Release</i> , 2014, 174, 63-71.	4.8	102
13	PET imaging-guided chemogenetic silencing reveals a critical role of primate rostromedial caudate in reward evaluation. <i>Nature Communications</i> , 2016, 7, 13605.	5.8	96
14	Manganese-enhanced magnetic resonance imaging (MEMRI) of brain activity and applications to early detection of brain ischemia. <i>NMR in Biomedicine</i> , 2004, 17, 569-580.	1.6	93
15	Overproduction of reactive oxygen species is obligatory or not for induction of apoptosis by anticancer drugs. <i>Chinese Journal of Cancer Research: Official Journal of China Anti-Cancer Association, Beijing Institute for Cancer Research</i> , 2016, 28, 383-396.	0.7	85
16	Vitamin K: Redox-modulation, prevention of mitochondrial dysfunction and anticancer effect. <i>Redox Biology</i> , 2018, 16, 352-358.	3.9	85
17	Mitochondrial Dysfunction and Redox Imbalance as a Diagnostic Marker of Free Radical Diseases, 2017, 37, 5373-5381.		78
18	Cell labeling for magnetic resonance imaging with the T1 agent manganese chloride. <i>NMR in Biomedicine</i> , 2006, 19, 50-59.	1.6	77

#	ARTICLE	IF	CITATIONS
19	Design of iron oxide nanoparticles with different sizes and surface charges for simple and efficient labeling of mesenchymal stem cells. <i>Journal of Controlled Release</i> , 2010, 142, 465-473.	4.8	77
20	Detection of cortical laminar architecture using manganese-enhanced MRI. <i>Journal of Neuroscience Methods</i> , 2008, 167, 246-257.	1.3	72
21	Comparative In Vitro and In Vivo Quantifications of Pathologic Tau Deposits and Their Association with Neurodegeneration in Tauopathy Mouse Models. <i>Journal of Nuclear Medicine</i> , 2018, 59, 960-966.	2.8	68
22	MR imaging techniques for nano-pathophysiology and theranostics. <i>Advanced Drug Delivery Reviews</i> , 2014, 74, 75-94.	6.6	66
23	Nitroxyl Radicals for Labeling of Conventional Therapeutics and Noninvasive Magnetic Resonance Imaging of Their Permeability for Blood-Brain Barrier: Relationship between Structure, Blood Clearance, and MRI Signal Dynamic in the Brain. <i>Molecular Pharmaceutics</i> , 2009, 6, 504-512.	2.3	62
24	In Vivo Visualization of Tau Accumulation, Microglial Activation, and Brain Atrophy in a Mouse Model of Tauopathy rTg4510. <i>Journal of Alzheimer's Disease</i> , 2018, 61, 1037-1052.	1.2	60
25	SPIO-PICsome: Development of a highly sensitive and stealth-capable MRI nano-agent for tumor detection using SPIO-loaded unilamellar polyion complex vesicles (PICsomes). <i>Journal of Controlled Release</i> , 2013, 169, 220-227.	4.8	56
26	Multimodal Silica-Shelled Quantum Dots: Direct Intracellular Delivery, Photosensitization, Toxic, and Microcirculation Effects. <i>Bioconjugate Chemistry</i> , 2008, 19, 1135-1142.	1.8	52
27	Repeated longitudinal in vivo imaging of neuro-glio-vascular unit at the peripheral boundary of ischemia in mouse cerebral cortex. <i>Neuroscience</i> , 2012, 212, 190-200.	1.1	51
28	Designing quantum-dot probes. <i>Nature Photonics</i> , 2007, 1, 487-489.	15.6	48
29	Selective Disruption of Inhibitory Synapses Leading to Neuronal Hyperexcitability at an Early Stage of Tau Pathogenesis in a Mouse Model. <i>Journal of Neuroscience</i> , 2020, 40, 3491-3501.	1.7	47
30	Tissue Redox Activity as a Hallmark of Carcinogenesis: From Early to Terminal Stages of Cancer. <i>Clinical Cancer Research</i> , 2013, 19, 2503-2517.	3.2	46
31	Understanding microstructure of the brain by comparison of neurite orientation dispersion and density imaging (NODDI) with transparent mouse brain. <i>Acta Radiologica Open</i> , 2017, 6, 205846011770381.	0.3	46
32	Detection of the anoxic depolarization of focal ischemia using manganese-enhanced MRI. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 7-12.	1.9	44
33	Chemical nature and structure of organic coating of quantum dots is crucial for their application in imaging diagnostics. <i>International Journal of Nanomedicine</i> , 2011, 6, 1719.	3.3	43
34	Directional crack propagation of granular water systems. <i>Physical Review E</i> , 2005, 71, 056122.	0.8	42
35	Imaging of Superoxide Generation in the Dopaminergic Area of the Brain in Parkinson's Disease, Using Mito-TEMPO. <i>ACS Chemical Neuroscience</i> , 2013, 4, 1439-1445.	1.7	42
36	Hyperthermia and chemotherapy using Fe(Salen) nanoparticles might impact glioblastoma treatment. <i>Scientific Reports</i> , 2017, 7, 42783.	1.6	42

#	ARTICLE	IF	CITATIONS
37	Visualization of in vivo electroporation-mediated transgene expression in experimental tumors by optical and magnetic resonance imaging. <i>Gene Therapy</i> , 2009, 16, 830-839.	2.3	41
38	Evaluation of thermo-triggered drug release in intramuscular-transplanted tumors using thermosensitive polymer-modified liposomes and MRI. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 229-238.	1.7	41
39	Mechanism of burn injury during magnetic resonance imaging (MRI) – simple loops can induce heat injury. <i>Frontiers of Medical and Biological Engineering: the International Journal of the Japan Society of Medical Electronics and Biological Engineering</i> , 2001, 11, 117-129.	0.2	40
40	A magnetic anti-cancer compound for magnet-guided delivery and magnetic resonance imaging. <i>Scientific Reports</i> , 2015, 5, 9194.	1.6	40
41	A polymeric micelle magnetic resonance imaging (MRI) contrast agent reveals blood-brain barrier (BBB) permeability for macromolecules in cerebral ischemia-reperfusion injury. <i>Journal of Controlled Release</i> , 2017, 253, 165-171.	4.8	39
42	Nitroxyl radicals as low toxic spin-labels for non-invasive magnetic resonance imaging of blood-brain barrier permeability for conventional therapeutics. <i>Chemical Communications</i> , 2009, , 53-55.	2.2	38
43	A Tumor-Environment-Responsive Nanocarrier That Evolves Its Surface Properties upon Sensing Matrix Metalloproteinase-2 and Initiates Agglomeration to Enhance $T_2$ Relaxivity for Magnetic Resonance Imaging. <i>Molecular Pharmaceutics</i> , 2011, 8, 1970-1974.	2.3	36
44	Disruption of Tacc3 function leads to in vivo tumor regression. <i>Oncogene</i> , 2012, 31, 135-148.	2.6	35
45	Fetal Gyrfication in Cynomolgus Monkeys: A Concept of Developmental Stages of Gyrfication. <i>Anatomical Record</i> , 2012, 295, 1065-1074.	0.8	34
46	Synergistic Cytotoxicity of Melatonin and New-generation Anticancer Drugs Against Leukemia Lymphocytes but not Normal Lymphocytes. <i>Anticancer Research</i> , 2017, 37, 149-160.	0.5	33
47	Density-tunable conjugation of cyclic RGD ligands with polyion complex vesicles for the neovascular imaging of orthotopic glioblastomas. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 035004.	2.8	32
48	Multimodal Imaging for DREADD-Expressing Neurons in Living Brain and Their Application to Implantation of iPSC-Derived Neural Progenitors. <i>Journal of Neuroscience</i> , 2016, 36, 11544-11558.	1.7	32
49	Design strategy for serine hydroxymethyltransferase probes based on retro-aldol-type reaction. <i>Nature Communications</i> , 2019, 10, 876.	5.8	31
50	Tissue redox activity as a sensing platform for imaging of cancer based on nitroxide redox cycle. <i>European Journal of Cancer</i> , 2013, 49, 1467-1478.	1.3	30
51	Interferon- $\beta$ Delivery via Human Neural Stem Cell Abates Glial Scar Formation in Spinal Cord Injury. <i>Cell Transplantation</i> , 2013, 22, 2187-2201.	1.2	30
52	Nanoprobe-Based Magnetic Resonance Imaging of Hypoxia Predicts Responses to Radiotherapy, Immunotherapy, and Sensitizing Treatments in Pancreatic Tumors. <i>ACS Nano</i> , 2021, 15, 13526-13538.	7.3	30
53	Systematic changes to the apparent diffusion tensor of in vivo rat brain measured with an oscillating-gradient spin-echo sequence. <i>NeuroImage</i> , 2013, 70, 10-20.	2.1	29
54	In vivo visualization of reactive gliosis using manganese-enhanced magnetic resonance imaging. <i>NeuroImage</i> , 2010, 49, 3122-3131.	2.1	28

#	ARTICLE	IF	CITATIONS
55	Dendrimeric calcium-responsive MRI contrast agents with slow in vivo diffusion. <i>Chemical Communications</i> , 2015, 51, 2782-2785.	2.2	28
56	Lobular homology in cerebellar hemispheres of humans, non-human primates and rodents: a structural, axonal tracing and molecular expression analysis. <i>Brain Structure and Function</i> , 2017, 222, 2449-2472.	1.2	27
57	Abnormal axon guidance signals and reduced interhemispheric connection via anterior commissure in neonates of marmoset ASD model. <i>NeuroImage</i> , 2019, 195, 243-251.	2.1	26
58	Investigation of Morphological Change of Lateral and Midline Fluid Percussion Injury in Rats, Using Magnetic Resonance Imaging. <i>Neurosurgery</i> , 1997, 40, 163-167.	0.6	26
59	Self-Assembly Behavior of Emissive Urea Benzene Derivatives Enables Heat-Induced Accumulation in Tumor Tissue. <i>Nano Letters</i> , 2017, 17, 2397-2403.	4.5	25
60	Photo-immune therapy with liposomally formulated phospholipid-conjugated indocyanine green induces specific antitumor responses with heat shock protein-70 expression in a glioblastoma model. <i>Oncotarget</i> , 2019, 10, 175-183.	0.8	24
61	In vivo monitoring of remnant undifferentiated neural cells following human induced pluripotent stem cell-derived neural stem/progenitor cells transplantation. <i>Stem Cells Translational Medicine</i> , 2020, 9, 465-477.	1.6	24
62	Neuroprotective effect of mitochondrial translocator protein ligand in a mouse model of tauopathy. <i>Journal of Neuroinflammation</i> , 2021, 18, 76.	3.1	24
63	Ultra-small size gelatin nanogel as a blood brain barrier impermeable contrast agent for magnetic resonance imaging. <i>Acta Biomaterialia</i> , 2021, 125, 290-299.	4.1	24
64	Giant Vesicles Containing Superparamagnetic Iron Oxide as Biodegradable Cell-Tracking MRI Probes. <i>Analytical Chemistry</i> , 2012, 84, 3952-3957.	3.2	23
65	Cell-penetrating nitroxides as molecular sensors for imaging of cancer in vivo, based on tissue redox activity. <i>Molecular BioSystems</i> , 2012, 8, 2733.	2.9	23
66	Preparation of polymer-based multimodal imaging agent to visualize the process of bone regeneration. <i>Journal of Controlled Release</i> , 2012, 157, 398-405.	4.8	23
67	Evaluation of selective tumor detection by clinical magnetic resonance imaging using antibody-conjugated superparamagnetic iron oxide. <i>Journal of Controlled Release</i> , 2012, 159, 413-418.	4.8	23
68	Viral protein-coating of magnetic nanoparticles using simian virus 40 VP1. <i>Journal of Biotechnology</i> , 2013, 167, 8-15.	1.9	23
69	Liposomally formulated phospholipid-conjugated indocyanine green for intra-operative brain tumor detection and resection. <i>International Journal of Pharmaceutics</i> , 2015, 496, 401-406.	2.6	23
70	Neurodegenerative processes accelerated by protein malnutrition and decelerated by essential amino acids in a tauopathy mouse model. <i>Science Advances</i> , 2021, 7, eabd5046.	4.7	23
71	Urokinase-Targeted Fusion by Oncolytic Sendai Virus Eradicates Orthotopic Glioblastomas by Pronounced Synergy With Interferon- $\beta$ Gene. <i>Molecular Therapy</i> , 2010, 18, 1778-1786.	3.7	22
72	Changes in Cortical Microvasculature during Misery Perfusion Measured by Two-Photon Laser Scanning Microscopy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 1363-1372.	2.4	22

#	ARTICLE	IF	CITATIONS
73	In-vivo imaging of blood-brain barrier permeability using positron emission tomography with 2-amino-[3-11C]isobutyric acid. <i>Nuclear Medicine Communications</i> , 2015, 36, 1239-1248.	0.5	22
74	Spatial Frequency-Based Analysis of Mean Red Blood Cell Speed in Single Microvessels: Investigation of Microvascular Perfusion in Rat Cerebral Cortex. <i>PLoS ONE</i> , 2011, 6, e24056.	1.1	22
75	MRI-based morphometric characterizations of sexual dimorphism of the cerebrum of ferrets ( <i>Mustela</i> ). <i>Tj ETQq1 1 0,784314 rgBT /Ov</i>	2.1	21
76	MRI of cerebral micro-vascular flow patterns: A multi-direction diffusion-weighted ASL approach. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 2076-2083.	2.4	21
77	High b-value diffusion-weighted fMRI in a rat forepaw electrostimulation model at 7 T. <i>NeuroImage</i> , 2011, 57, 140-148.	2.1	20
78	Polymeric Micelle Platform for Multimodal Tomographic Imaging to Detect Scirrhous Gastric Cancer. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 1067-1076.	2.6	20
79	Vitamin C versus Cancer: Ascorbic Acid Radical and Impairment of Mitochondrial Respiration?. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-12.	1.9	20
80	Early and delayed neuroprotective effects of FK506 on experimental focal ischemia quantitatively assessed by diffusion-weighted MRI. <i>Magnetic Resonance Imaging</i> , 2001, 19, 153-160.	1.0	19
81	Developments of sulcal pattern and subcortical structures of the forebrain in cynomolgus monkey fetuses: 7-tesla magnetic resonance imaging provides high reproducibility of gross structural changes. <i>Brain Structure and Function</i> , 2009, 213, 469-480.	1.2	19
82	The simple preparation of polyethylene glycol-based soft nanoparticles containing dual imaging probes. <i>Journal of Materials Chemistry B</i> , 2013, 1, 4932.	2.9	19
83	Preparation of biodegradable iron oxide nanoparticles with gelatin for magnetic resonance imaging. <i>Inflammation and Regeneration</i> , 2014, 34, 045-055.	1.5	19
84	Magnetic Resonance Imaging of Mitochondrial Dysfunction and Metabolic Activity, Accompanied by Overproduction of Superoxide. <i>ACS Chemical Neuroscience</i> , 2015, 6, 1922-1929.	1.7	19
85	New potential biomarker for stratification of patients for pharmacological vitamin C in adjuvant settings of cancer therapy. <i>Redox Biology</i> , 2020, 28, 101357.	3.9	19
86	A Hyperactive RelA/p65-Hexokinase 2 Signaling Axis Drives Primary Central Nervous System Lymphoma. <i>Cancer Research</i> , 2020, 80, 5330-5343.	0.4	19
87	Chemogenetic sensory fMRI reveals behaviorally relevant bidirectional changes in primate somatosensory network. <i>Neuron</i> , 2021, 109, 3312-3322.e5.	3.8	19
88	Thermoactivatable polymer-grafted liposomes for low-invasive image-guided chemotherapy. <i>Translational Research</i> , 2015, 166, 660-673.e1.	2.2	18
89	Magnetic metal-complex-conducting copolymer core-shell nanoassemblies for a single-drug anticancer platform. <i>NPG Asia Materials</i> , 2017, 9, e367-e367.	3.8	18
90	Comparison of diffusion-weighted MRI and anti-Stokes Raman scattering (CARS) measurements of the inter-compartmental exchange-time of water in expression-controlled aquaporin-4 cells. <i>Scientific Reports</i> , 2018, 8, 17954.	1.6	18

#	ARTICLE	IF	CITATIONS
91	Resveratrol Modulates the Redox-status and Cytotoxicity of Anticancer Drugs by Sensitizing Leukemic Lymphocytes and Protecting Normal Lymphocytes. <i>Anticancer Research</i> , 2019, 39, 3745-3755.	0.5	18
92	Investigation of Morphological Change of Lateral and Midline Fluid Percussion Injury in Rats, Using Magnetic Resonance Imaging. <i>Neurosurgery</i> , 1997, 40, 163-167.	0.6	18
93	Manganese-Enhanced MRI Reveals Early-Phase Radiation-Induced Cell Alterations <i>In Vivo</i> . <i>Cancer Research</i> , 2013, 73, 3216-3224.	0.4	17
94	Cereblon Control of Zebrafish Brain Size by Regulation of Neural Stem Cell Proliferation. <i>IScience</i> , 2019, 15, 95-108.	1.9	17
95	Selective Targeting of Cancerous Mitochondria and Suppression of Tumor Growth Using Redox-Active Treatment Adjuvant. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-30.	1.9	17
96	In vivo positron emission tomography imaging of mitochondrial abnormalities in a mouse model of tauopathy. <i>Neurobiology of Aging</i> , 2020, 94, 140-148.	1.5	17
97	A "Weird" Mitochondrial Fatty Acid Oxidation as a Metabolic "Secret" of Cancer. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-38.	1.9	17
98	Molecular imaging of mesothelioma by detection of manganese-superoxide dismutase activity using manganese-enhanced magnetic resonance imaging. <i>International Journal of Cancer</i> , 2011, 128, 2138-2146.	2.3	16
99	Hemodynamic changes during neural deactivation in awake mice: A measurement by laser-Doppler flowmetry in crossed cerebellar diaschisis. <i>Brain Research</i> , 2013, 1537, 350-355.	1.1	16
100	Menadione/Ascorbate Induces Overproduction of Mitochondrial Superoxide and Impairs Mitochondrial Function in Cancer: Comparative Study on Cancer and Normal Cells of the Same Origin. <i>Anticancer Research</i> , 2020, 40, 1963-1972.	0.5	16
101	Multifunctional Traceable Liposomes with Temperature-Triggered Drug Release and Neovasculature-Targeting Properties for Improved Cancer Chemotherapy. <i>Molecular Pharmaceutics</i> , 2021, 18, 3342-3351.	2.3	16
102	Neuronal response to Shepard's tones. An auditory fMRI study using multifractal analysis. <i>Brain Research</i> , 2007, 1186, 113-123.	1.1	15
103	Visualization of free radical reactions in an aqueous sample irradiated by 290 MeV carbon beam. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 1033-1039.	1.9	15
104	Ontogenetic pattern of gyrification in fetuses of cynomolgus monkeys. <i>Neuroscience</i> , 2010, 167, 735-740.	1.1	15
105	Neuroanatomic and magnetic resonance imaging references for normal development of cerebral sulci of laboratory primate, cynomolgus monkeys ( <i>Macaca fascicularis</i> ). <i>Congenital Anomalies (discontinued)</i> , 2012, 52, 16-27.	0.3	15
106	Long-term effects of cerebral hypoperfusion on neural density and function using misery perfusion animal model. <i>Scientific Reports</i> , 2016, 6, 25072.	1.6	15
107	Inhibition of the Pentose-phosphate Pathway Selectively Sensitizes Leukemia Lymphocytes to Chemotherapeutics by ROS-independent Mechanism. <i>Anticancer Research</i> , 2016, 36, 6011-6020.	0.5	15
108	Neuroprotective effects of an immunosuppressant agent on diffusion/perfusion mismatch in transient focal ischemia. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 1173-1180.	1.9	14



#	ARTICLE	IF	CITATIONS
109	Quantitative and Noninvasive Assessment of Prenatal X-Ray-Induced CNS Abnormalities Using Magnetic Resonance Imaging. <i>Radiation Research</i> , 2011, 175, 1-9.	0.7	14
110	Assessing renal function in children with hydronephrosis - additional feature of MR urography. <i>Radiology and Oncology</i> , 2011, 45, 248-58.	0.6	14
111	Quantitative assessment of central nervous system disorder induced by prenatal X-ray exposure using diffusion and manganese-enhanced MRI. <i>NMR in Biomedicine</i> , 2012, 25, 75-83.	1.6	14
112	Radiation-induced redox alteration in the mouse brain. <i>Free Radical Biology and Medicine</i> , 2019, 143, 412-421.	1.3	14
113	Size-controlled bimodal <i>in vivo</i> nanoprobes as near-infrared phosphors and positive contrast agents for magnetic resonance imaging. <i>Science and Technology of Advanced Materials</i> , 2021, 22, 160-172.	2.8	14
114	Impressive Suppression of Colon Cancer Growth by Triple Combination SN38/EF24/Melatonin: <i>Onco-Oncogenic</i> Versus <i>Onco-Suppressive</i> Reactive Oxygen Species. , 2017, 37, 5449-5458.		14
115	EPR signal reduction kinetic of several nitroxyl derivatives in blood <i>in vitro</i> and <i>in vivo</i> . <i>General Physiology and Biophysics</i> , 2009, 28, 356-362.	0.4	13
116	Thermal- and pH-Dependent Size Variable Radical Nanoparticles and Its Water Proton Relaxivity for Metal-Free MRI Functional Contrast Agents. <i>Journal of Organic Chemistry</i> , 2016, 81, 8351-8362.	1.7	13
117	Passive and electro-assisted delivery of hydrogel nanoparticles in solid tumors, visualized by optical and magnetic resonance imaging <i>in vivo</i> . <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 905-914.	1.9	13
118	Cytotoxic and genotoxic potential of Bulgarian <i>Rosa alba</i> L. essential oil <i>in vitro</i> model study. <i>Biotechnology and Biotechnological Equipment</i> , 2018, 32, 513-519.	0.5	13
119	Treatment of oral cancer using magnetized paclitaxel. <i>Oncotarget</i> , 2018, 9, 15591-15605.	0.8	13
120	Detection of Alzheimer's disease-related neuroinflammation by a PET ligand selective for glial versus vascular translocator protein. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 0271678X2199245.	2.4	13
121	A Near-Infrared Organic Fluorescent Probe for Broad Applications for Blood Vessels Imaging by High-Throughput Screening via 3D Blood Vessel Models. <i>Small Methods</i> , 2021, 5, e2100338.	4.6	13
122	Increased <i>N</i> -acetylaspartate in model mouse of pelizaeus-Emerzbacher disease. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 35, 418-425.	1.9	12
123	<i>In vivo</i> identification of sentinel lymph nodes using MRI and size-controlled and monodispersed magnetite nanoparticles. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 1346-1355.	1.9	12
124	Unexpectedly large water-proton relaxivity of TEMPO incorporated into micelle-oligonucleotides. <i>RSC Advances</i> , 2013, 3, 3531.	1.7	12
125	Delivery of size-controlled long-circulating polymersomes in solid tumours, visualized by quantum dots and optical imaging <i>in vivo</i> . <i>Biotechnology and Biotechnological Equipment</i> , 2015, 29, 175-180.	0.5	12
126	Male prevalent enhancement of leftward asymmetric development of the cerebellar cortex in ferrets ( <i>Mustela putorius</i> ). <i>Laterality</i> , 2015, 20, 723-737.	0.5	12



#	ARTICLE	IF	CITATIONS
127	Cancer-microenvironment triggered self-assembling therapy with molecular blocks. <i>Materials Horizons</i> , 2021, 8, 1216-1221.	6.4	12
128	Imaging of cancer by redox-mediated mechanism: a radical diagnostic approach. <i>Molecular BioSystems</i> , 2010, 6, 2386.	2.9	11
129	In vivo evaluation of cellular activity in $\hat{I}\pm$ CaMKII heterozygous knockout mice using manganese-enhanced magnetic resonance imaging (MEMRI). <i>Frontiers in Integrative Neuroscience</i> , 2013, 7, 76.	1.0	11
130	Functional MRI of the Reserpine-Induced Putative Rat Model of Fibromyalgia Reveals Discriminatory Patterns of Functional Augmentation to Acute Nociceptive Stimuli. <i>Scientific Reports</i> , 2017, 7, 38325.	1.6	11
131	Nitroxyl Radical as a Theranostic Contrast Agent in Magnetic Resonance Redox Imaging. <i>Antioxidants and Redox Signaling</i> , 2022, 36, 95-121.	2.5	11
132	MRS-measured glutamate versus GABA reflects excitatory versus inhibitory neural activities in awake mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 197-212.	2.4	11
133	Neurochemistry in shiverer mouse depicted on MR spectroscopy. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, 1550-1557.	1.9	10
134	Repeated photon and C-ion irradiations in vivo have different impact on alteration of tumor characteristics. <i>Scientific Reports</i> , 2018, 8, 1458.	1.6	10
135	Neonatal valproic acid exposure produces altered gyrification related to increased parvalbumin-immunopositive neuron density with thickened sulcal floors. <i>PLoS ONE</i> , 2021, 16, e0250262.	1.1	10
136	Vitamins C and K3: A Powerful Redox System for Sensitizing Leukemia Lymphocytes to Everolimus and Barasertib. <i>Anticancer Research</i> , 2018, 38, 1407-1414.	0.5	10
137	Distribution of Hydrogen Peroxide-dependent Reaction in a Gelatin Sample Irradiated by Carbon Ion Beam. <i>Magnetic Resonance in Medical Sciences</i> , 2010, 9, 131-140.	1.1	9
138	Long-term effects of hepatocyte growth factor gene therapy in rat myocardial infarct model. <i>Gene Therapy</i> , 2012, 19, 836-843.	2.3	9
139	Evaluation of a combination tumor treatment using thermo-triggered liposomal drug delivery and carbon ion irradiation. <i>Translational Research</i> , 2017, 185, 24-33.	2.2	9
140	Water-Proton Relaxivities of Radical Nanoparticles Self-Assembled via Hydration or Dehydration Processes. <i>Langmuir</i> , 2017, 33, 7810-7817.	1.6	9
141	Intratumoral evaluation of 3D microvasculature and nanoparticle distribution using a gadolinium-dendron modified nano-liposomal contrast agent with magnetic resonance micro-imaging. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 1315-1324.	1.7	9
142	Water Diffusion in the Brain of Chronic Hypoperfusion Model Mice: A Study Considering the Effect of Blood Flow. <i>Magnetic Resonance in Medical Sciences</i> , 2018, 17, 318-324.	1.1	9
143	Detection of Redox Imbalance in Normal Lymphocytes with Induced Mitochondrial Dysfunction “EPR Study. <i>Anticancer Research</i> , 2016, 36, 5273-5280.	0.5	9
144	Docosahexaenoic Acid Sensitizes Leukemia Lymphocytes to Barasertib and Everolimus by ROS-dependent Mechanism Without Affecting the Level of ROS and Viability of Normal Lymphocytes. <i>Anticancer Research</i> , 2016, 36, 1673-82.	0.5	9

#	ARTICLE	IF	CITATIONS
145	A small animal holding fixture system with positional reproducibility for longitudinal multimodal imaging. <i>Physics in Medicine and Biology</i> , 2010, 55, 4119-4130.	1.6	8
146	Evaluation of ferritin-overexpressing brain in newly developed transgenic mice. <i>Magnetic Resonance Imaging</i> , 2011, 29, 179-184.	1.0	8
147	Sexual dimorphism of sulcal morphology of the ferret cerebrum revealed by MRI-based sulcal surface morphometry. <i>Frontiers in Neuroanatomy</i> , 2015, 9, 55.	0.9	8
148	Brain contrasting ability of blood-brain-barrier-permeable nitroxyl contrast agents for magnetic resonance redox imaging. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 935-945.	1.9	8
149	Quantum Sensors To Track Total Redox-Status and Oxidative Stress in Cells and Tissues Using Electron-Paramagnetic Resonance, Magnetic Resonance Imaging, and Optical Imaging. <i>Analytical Chemistry</i> , 2021, 93, 2828-2837.	3.2	8
150	Targeting Glioblastoma via Selective Alteration of Mitochondrial Redox State. <i>Cancers</i> , 2022, 14, 485.	1.7	8
151	Signal contributions to heavily diffusion-weighted functional magnetic resonance imaging investigated with multi-SE-EPI acquisitions. <i>NeuroImage</i> , 2014, 98, 258-265.	2.1	7
152	Biphasic aspect of sexually dimorphic ontogenetic trajectory of gyrification in the ferret cerebral cortex. <i>Neuroscience</i> , 2017, 364, 71-81.	1.1	7
153	Self-Assembled Biradical Ureabenzene Nanoparticles for Magnetic Resonance Imaging. <i>ACS Applied Nano Materials</i> , 2018, 1, 6967-6975.	2.4	7
154	Fluorescence Tumor-Imaging Using a Thermo-Responsive Molecule with an Emissive Aminoquinoline Derivative. <i>Nanomaterials</i> , 2018, 8, 782.	1.9	7
155	Redox-related Molecular Mechanism of Sensitizing Colon Cancer Cells to Camptothecin Analog SN38. <i>Anticancer Research</i> , 2020, 40, 5159-5170.	0.5	7
156	Nitroxide Derivatives for Imaging of Hypercholesterolemia-Induced Kidney Dysfunction and Assessing the Effectiveness of Antilipidemic Drugs. <i>Molecular Pharmaceutics</i> , 2011, 8, 1962-1969.	2.3	6
157	Quantitative measurement of changes in calcium channel activity in vivo utilizing dynamic manganese-enhanced MRI (dMEMRI). <i>NeuroImage</i> , 2012, 60, 392-399.	2.1	6
158	Magnetic resonance imaging of a microvascular-interstitium model on a microfluidic device. <i>Analytical Biochemistry</i> , 2014, 458, 72-74.	1.1	6
159	Longitudinal Diffusion Tensor Imaging Revealed Nerve Fiber Alterations in Aspm Mutated Microcephaly Model Mice. <i>Neuroscience</i> , 2018, 371, 325-336.	1.1	6
160	Nitroxide-enhanced magnetic resonance imaging of kidney dysfunction in vivo based on redox-imbalance and oxidative stress. <i>General Physiology and Biophysics</i> , 2019, 38, 191-204.	0.4	6
161	The Proliferation of Dentate Gyrus Progenitors in the Ferret Hippocampus by Neonatal Exposure to Valproic Acid. <i>Frontiers in Neuroscience</i> , 2021, 15, 736313.	1.4	6
162	Enhanced MRI-Guided Gadolinium (III) Neutron Capture Therapy by Polymeric Nanocarriers Promoting Tumor Accumulation and Intracellular Delivery. <i>ChemNanoMat</i> , 2020, 6, 412-419.	1.5	6

#	ARTICLE	IF	CITATIONS
163	In Vivo Tracking of Transplanted Mononuclear Cells Using Manganese-Enhanced Magnetic Resonance Imaging (MEMRI). <i>PLoS ONE</i> , 2011, 6, e25487.	1.1	6
164	Quantifying initial cellular events of mouse radiation lymphomagenesis and its tumor prevention in vivo by positron emission tomography and magnetic resonance imaging. <i>Molecular Oncology</i> , 2015, 9, 740-748.	2.1	5
165	Regional difference in sulcal infolding progression correlated with cerebral cortical expansion in cynomolgus monkey fetuses. <i>Congenital Anomalies (discontinued)</i> , 2017, 57, 114-117.	0.3	5
166	Age-Dependent Sexually-Dimorphic Asymmetric Development of the Ferret Cerebellar Cortex. <i>Symmetry</i> , 2017, 9, 40.	1.1	5
167	Prenatal Irradiation-Induced Hippocampal Abnormalities in Rats Evaluated Using Manganese-Enhanced MRI. <i>Frontiers in Neural Circuits</i> , 2018, 12, 112.	1.4	5
168	Redox Imaging to Distinguish Cells with Different Proliferative Indexes: Superoxide, Hydroperoxides, and Their Ratio as Potential Biomarkers. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-18.	1.9	5
169	Pharmacological Strategy for Selective Targeting of Glioblastoma by Redox-active Combination Drug – Comparison With the Chemotherapeutic Standard-of-care Temozolomide. <i>Anticancer Research</i> , 2021, 41, 6067-6076.	0.5	5
170	Detection of necrotic neural response in superacute cerebral ischemia using activity-induced manganese-enhanced (AIM) MRI. <i>NMR in Biomedicine</i> , 2010, 23, 304-312.	1.6	4
171	Carbamoyl-PROXYL-enhanced MRI detects very small disruptions in brain vascular permeability induced by dietary cholesterol. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2011, 1810, 1309-1316.	1.1	4
172	Preparation of Polymer-Based Magnetic Resonance Imaging Contrast Agent to Visualize Therapeutic Angiogenesis. <i>Tissue Engineering - Part A</i> , 2013, 19, 30-39.	1.6	4
173	Synthesis of a dextran-based bone tracer for in vivo magnetic resonance and optical imaging by two orthogonal coupling reactions. <i>RSC Advances</i> , 2014, 4, 7561.	1.7	4
174	Asymmetry of Cerebellar Lobular Development in Ferrets. <i>Symmetry</i> , 2020, 12, 735.	1.1	4
175	Optical fiber-based ZnS(Ag) detector for selectively detecting alpha particles. <i>Applied Radiation and Isotopes</i> , 2021, 169, 109495.	0.7	4
176	Fabrication of gold nanohybrids modified with antibody and functional dendrimers for targeted photothermal theranostics. <i>Nano Select</i> , 2021, 2, 779-790.	1.9	4
177	Electroinduced Delivery of Hydrogel Nanoparticles in Colon 26 Cells, Visualized by Confocal Fluorescence System. <i>Anticancer Research</i> , 2016, 36, 4601-4606.	0.5	4
178	Tumor Enhancement Effect of Overexpressed Manganese-superoxide Dismutase in Manganese-enhanced MR Imaging. <i>Magnetic Resonance in Medical Sciences</i> , 2011, 10, 155-158.	1.1	4
179	2-Deoxy-D-glucose Sensitizes Cancer Cells to Barasertib and Everolimus by ROS-independent Mechanism(s). <i>Anticancer Research</i> , 2015, 35, 6623-32.	0.5	4
180	Block copolymer hybrid calcium phosphate micelles for cancer diagnosis and neutron capture therapy. <i>Journal of Controlled Release</i> , 2015, 213, e88.	4.8	3

#	ARTICLE	IF	CITATIONS
181	Isotropic 25-Micron 3D Neuroimaging Using ex vivo Microstructural Manganese-Enhanced MRI (MEMRI). <i>Frontiers in Neural Circuits</i> , 2018, 12, 110.	1.4	3
182	MRI-Based Glucose Assay Using Magnetic Nanoparticle Sensors. <i>Analytical Sciences</i> , 2021, , .	0.8	3
183	Development of an MRI contrast agent for both detection and inhibition of the amyloid- $\beta^2$ fibrillation process. <i>RSC Advances</i> , 2022, 12, 5027-5030.	1.7	3
184	Fluorescent Imaging for Assessment of the Effect of Combined Application of Electroporation and Rifampicin on HaCaT Cells as a New Therapeutic Approach for Psoriasis. <i>Sensors</i> , 2013, 13, 3625-3634.	2.1	2
185	MR molecular imaging using drug delivery system. <i>Drug Delivery System</i> , 2008, 23, 61-68.	0.0	2
186	Effect of Alpha-tocopheryl Succinate on the Cytotoxicity of Anticancer Drugs Towards Leukemia Lymphocytes. <i>Anticancer Research</i> , 2022, 42, 547-554.	0.5	2
187	In vivo detection of neuroarchitecture in the rodent brain using manganese-enhanced MRI. <i>NeuroImage</i> , 2004, 22, 1046-1046.	2.1	1
188	Novel MR imaging and theranostics using Nano-DDS. <i>Drug Delivery System</i> , 2015, 30, 47-53.	0.0	1
189	$\beta^3$ -PARCEL: Control of Molecular Release Using $\beta^3$ -Rays. <i>Analytical Chemistry</i> , 2015, 87, 11625-11629.	3.2	1
190	New trend of MRI technology and the role of DDS. <i>Drug Delivery System</i> , 2018, 33, 172-178.	0.0	1
191	Minimally invasive manganese-enhanced magnetic resonance imaging for the sciatic nerve tract tracing used intra-articularly administrated dextran-manganese encapsulated nanogels. <i>JOR Spine</i> , 2019, 2, e1059.	1.5	1
192	Imaging of redox-imbalance and oxidative stress in kidney in vivo, induced by dietary cholesterol. <i>Biotechnology and Biotechnological Equipment</i> , 2019, 33, 294-301.	0.5	1
193	New Hypothesis and Alternative Approach for Imaging Neuronal Function and Metabolic Activity Based on Redox-Status. <i>Balkan Medical Journal</i> , 2018, 35, 289-291.	0.3	1
194	Loading Efficiency of Polymersomes with Contrast Agents and their Intracellular Delivery: Quantum Dots Versus Organic Dyes. <i>Anticancer Research</i> , 2018, 38, 825-831.	0.5	1
195	Adnexal masses characterized on 3 tesla magnetic resonance imaging - added value of diffusion techniques. <i>Radiology and Oncology</i> , 2020, 54, 419-428.	0.6	1
196	Feasibility of magnetic resonance redox imaging at low magnetic field: comparison at 1 T and 7 T. <i>American Journal of Translational Research (discontinued)</i> , 2017, 9, 4481-4491.	0.0	1
197	Quantitative measurement of diffusion-weighted imaging signal using expression-controlled aquaporin-4 cells: Comparative study of 2-compartment and diffusion kurtosis imaging models. <i>PLoS ONE</i> , 2022, 17, e0266465.	1.1	1
198	Sensitization of cancer cells to radiation using hybrid nanoparticles - activation of apoptotic factors. <i>European Journal of Cancer, Supplement</i> , 2008, 6, 58.	2.2	0

#	ARTICLE	IF	CITATIONS
199	In-vivo PET detection of neurodegenerative pathologies in a transgenic mouse model of tauopathies. Neuroscience Research, 2009, 65, S116.	1.0	0
200	Possible utility of peptide-transporter-targeting [19F]dipeptides for visualization of the biodistribution of cancers by nuclear magnetic resonance imaging. International Journal of Pharmaceutics, 2020, 586, 119575.	2.6	0
201	A Near-Infrared Organic Fluorescent Probe for Broad Applications for Blood Vessels Imaging by High-Throughput Screening via 3D-Blood Vessel Models (Small Methods 8/2021). Small Methods, 2021, 5, 2170036.	4.6	0
202	Abstract 358: The novel sentinel lymphnodes identification method using magnetic nanoparticle by MRI. , 2012, , .		0
203	Inhibition of ATP-synthase potentiates cytotoxicity of combination drug menadione/ascorbate in leukaemia lymphocytes. Biotechnology and Biotechnological Equipment, 2021, 35, 1738-1744.	0.5	0
204	Nano-DDS and MRI. Drug Delivery System, 2021, 36, 265-276.	0.0	0