Ali S Arbab

List of Publications by Year
in descending order

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121 papers	5,667 citations	70961 41 h-index	88477 70 g-index
131 all docs	131 docs citations	131 times ranked	9165 citing authors

#	Article	IF	Citations
1	Labeling of cells with ferumoxides-protamine sulfate complexes does not inhibit function or differentiation capacity of hematopoietic or mesenchymal stem cells. NMR in Biomedicine, 2005, 18, 553-559.	1.6	295
2	Monocytic and granulocytic myeloid derived suppressor cells differentially regulate spatiotemporal tumour plasticity during metastatic cascade. Nature Communications, 2017, 8, 14979.	5.8	292
3	Noninvasive MR imaging of magnetically labeled stem cells to directly identify neovasculature in a glioma model. Blood, 2005, 105, 420-425.	0.6	248
4	STING Promotes the Growth of Tumors Characterized by Low Antigenicity via IDO Activation. Cancer Research, 2016, 76, 2076-2081.	0.4	225
5	Human Neural Stem Cell Extracellular Vesicles Improve Tissue and Functional Recovery in the Murine Thromboembolic Stroke Model. Translational Stroke Research, 2018, 9, 530-539.	2.3	200
6	Self-assembling nanocomplexes by combining ferumoxytol, heparin and protamine for cell tracking by magnetic resonance imaging. Nature Medicine, 2012, 18, 463-467.	15.2	190
7	Treatment with bone marrowâ€derived stromal cells accelerates wound healing in diabetic rats. International Wound Journal, 2008, 5, 453-463.	1.3	165
8	Effect of Melatonin on Tumor Growth and Angiogenesis in Xenograft Model of Breast Cancer. PLoS ONE, 2014, 9, e85311.	1.1	139
9	Cellular magnetic resonance imaging: current status and future prospects. Expert Review of Medical Devices, 2006, 3, 427-439.	1.4	129
10	CD73 on cancer-associated fibroblasts enhanced by the A2B-mediated feedforward circuit enforces an immune checkpoint. Nature Communications, 2020, 11, 515.	5.8	117
11	Melatonin decreases breast cancer metastasis by modulating Rhoâ€associated kinase proteinâ€1 expression. Journal of Pineal Research, 2016, 60, 3-15.	3.4	116
12	Vascular Mimicry: A Novel Neovascularization Mechanism Driving Anti-Angiogenic Therapy (AAT) Resistance in Glioblastoma. Translational Oncology, 2017, 10, 650-660.	1.7	110
13	Activation of Vascular Endothelial Growth Factor through Reactive Oxygen Species Mediates 20-Hydroxyeicosatetraenoic Acid-Induced Endothelial Cell Proliferation. Journal of Pharmacology and Experimental Therapeutics, 2007, 321, 18-27.	1.3	103
14	Differentiating treatment-induced necrosis from recurrent/progressive brain tumor using nonmodel-based semiquantitative indices derived from dynamic contrast-enhanced T1-weighted MR perfusion. Neuro-Oncology, 2011, 13, 1037-1046.	0.6	103
15	Giant Magnetic Heat Induction of Magnesiumâ€Doped Î³â€Fe₂O₃ Superparamagnetic Nanoparticles for Completely Killing Tumors. Advanced Materials, 2018, 30, 1704362.	11.1	99
16	Oleanane triterpenoid CDDO-Me inhibits growth and induces apoptosis in prostate cancer cells through a ROS-dependent mechanism. Biochemical Pharmacology, 2010, 79, 350-360.	2.0	97
17	Neutrophil extracellular traps exacerbate neurological deficits after traumatic brain injury. Science Advances, 2020, 6, eaax8847.	4.7	94
18	Selective activation of cannabinoid receptor-2 reduces neuroinflammation after traumatic brain injury via alternative macrophage polarization. Brain, Behavior, and Immunity, 2018, 68, 224-237.	2.0	85

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19	Cellular MRI and its role in stem cell therapy. Regenerative Medicine, 2008, 3, 199-215.	0.8	78
20	Primary tumor-induced immunity eradicates disseminated tumor cells in syngeneic mouse model. Nature Communications, 2019, 10, 1430.	5.8	77
21	Model selection for DCEâ€T1 studies in glioblastoma. Magnetic Resonance in Medicine, 2012, 68, 241-251.	1.9	74
22	In Vivo Cellular Imaging for Translational Medical Research. Current Medical Imaging, 2009, 5, 19-38.	0.4	72
23	Changes in Vascular Permeability and Expression of Different Angiogenic Factors Following Anti-Angiogenic Treatment in Rat Glioma. PLoS ONE, 2010, 5, e8727.	1.1	72
24	Anti-Jagged Immunotherapy Inhibits MDSCs and Overcomes Tumor-Induced Tolerance. Cancer Research, 2017, 77, 5628-5638.	0.4	70
25	The innate immune receptor TREM-1 promotes liver injury and fibrosis. Journal of Clinical Investigation, 2018, 128, 4870-4883.	3.9	70
26	Gliosarcoma Stem Cells Undergo Glial and Mesenchymal Differentiation In Vivo. Stem Cells, 2010, 28, 181-190.	1.4	65
27	Evidence That CXCL16 Is a Potent Mediator of Angiogenesis and Is Involved in Endothelial Progenitor Cell Chemotaxis: Studies in Mice With K/BxN Serumâ€"Induced Arthritis. Arthritis and Rheumatism, 2013, 65, 1736-1746.	6.7	64
28	Dendritic cell derived exosomes loaded with immunoregulatory cargo reprogram local immune responses and inhibit degenerative bone disease in vivo. Journal of Extracellular Vesicles, 2020, 9, 1795362.	5.5	63
29	Arachidonic Acid Metabolite as a Novel Therapeutic Target in Breast Cancer Metastasis. International Journal of Molecular Sciences, 2017, 18, 2661.	1.8	61
30	Encapsulation of Anticancer Drugs (5-Fluorouracil and Paclitaxel) into Polycaprolactone (PCL) Nanofibers and In Vitro Testing for Sustained and Targeted Therapy. Journal of Biomedical Nanotechnology, 2017, 13, 355-366.	0.5	60
31	9L Gliosarcoma Cell Proliferation and Tumor Growth in Rats Are Suppressed by N-Hydroxy-Nâ€²-(4-butyl-2-methylphenol) Formamidine (HET0016), a Selective Inhibitor of CYP4A. Journal of Pharmacology and Experimental Therapeutics, 2006, 317, 97-108.	1.3	59
32	Differential in vivo biodistribution of 131I-labeled exosomes from diverse cellular origins and its implication for theranostic application. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 21, 102072.	1.7	59
33	Detection of migration of locally implanted AC133 + stem cells by cellular magnetic resonance imaging with histological findings. FASEB Journal, 2008, 22, 3234-3246.	0.2	58
34	Remote ischemic post-conditioning promotes hematoma resolution via AMPK-dependent immune regulation. Journal of Experimental Medicine, 2018, 215, 2636-2654.	4.2	56
35	Optimization and Validation of FePro Cell Labeling Method. PLoS ONE, 2009, 4, e5873.	1.1	55
36	Intravenous Administration of Human Umbilical Cord Blood-Derived AC133+ Endothelial Progenitor Cells in Rat Stroke Model Reduces Infarct Volume: Magnetic Resonance Imaging and Histological Findings. Stem Cells Translational Medicine, 2013, 2, 703-714.	1.6	55

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37	Human Cord Blood-Derived AC133+ Progenitor Cells Preserve Endothelial Progenitor Characteristics after Long Term In Vitro Expansion. PLoS ONE, 2010, 5, e9173.	1.1	54
38	20-HETE Regulates the Angiogenic Functions of Human Endothelial Progenitor Cells and Contributes to Angiogenesis In Vivo. Journal of Pharmacology and Experimental Therapeutics, 2014, 348, 442-451.	1.3	54
39	CXCR2-Expressing Tumor Cells Drive Vascular Mimicry in Antiangiogenic Therapyâ€“Resistant Glioblastoma. Neoplasia, 2018, 20, 1070-1082.	2.3	54
40	Bone marrow derived myeloid cells orchestrate antiangiogenic resistance in glioblastoma through coordinated molecular networks. Cancer Letters, 2015, 369, 416-426.	3.2	52
41	The Role and Therapeutic Potential of Endothelial Progenitor Cells in Tumor Neovascularization. Scientific World Journal, The, 2010, 10, 1088-1099.	0.8	50
42	Expression of CYP4A1 in U251 Human Glioma Cell Induces Hyperproliferative Phenotype in Vitro and Rapidly Growing Tumors in Vivo. Journal of Pharmacology and Experimental Therapeutics, 2008, 327, 10-19.	1.3	42
43	Subcurative radiation significantly increases cell proliferation, invasion, and migration of primary glioblastoma multiforme in vivo. Chinese Journal of Cancer, 2014, 33, 148-158.	4.9	39
44	Synthetic triterpenoid CDDO prevents the progression and metastasis of prostate cancer in TRAMP mice by inhibiting survival signaling. Carcinogenesis, 2011, 32, 757-764.	1.3	38
45	Inhibition of Telomerase Activity by Oleanane Triterpenoid CDDO-Me in Pancreatic Cancer Cells is ROS-Dependent. Molecules, 2013, 18, 3250-3265.	1.7	38
46	Activation of alternative pathways of angiogenesis and involvement of stem cells following anti-angiogenesis treatment in glioma. Histology and Histopathology, 2012, 27, 549-57.	0.5	38
47	The Cytochrome P450 4A/F-20-Hydroxyeicosatetraenoic Acid System: A Regulator of Endothelial Precursor Cells Derived from Human Umbilical Cord Blood. Journal of Pharmacology and Experimental Therapeutics, 2011, 338, 421-429.	1.3	37
48	Effects of Tyrosine Kinase Inhibitors and CXCR4 Antagonist on Tumor Growth and Angiogenesis in Rat Glioma Model: MRI and Protein Analysis Study. Translational Oncology, 2013, 6, 660-669.	1.7	37
49	Vascular mimicry in glioblastoma following anti-angiogenic and anti-20-HETE therapies. Histology and Histopathology, 2017, 32, 917-928.	0.5	37
50	Canonical NFÎºB signaling in myeloid cells is required for the glioblastoma growth. Scientific Reports, 2017, 7, 13754.	1.6	36
51	A nano-sized PARACEST-fluorescence imaging contrast agent facilitates and validates in vivo CEST MRI detection of glioma. Nanomedicine, 2012, 7, 1827-1837.	1.7	34
52	Critical immunosuppressive effect of MDSCâ€‘derived exosomes in the tumor microenvironment. Oncology Reports, 2021, 45, 1171-1181.	1.2	34
53	HET0016, a Selective Inhibitor of 20-HETE Synthesis, Decreases Pro-Angiogenic Factors and Inhibits Growth of Triple Negative Breast Cancer in Mice. PLoS ONE, 2014, 9, e116247.	1.1	34
54	Effect of Curcumin on Pro-angiogenic Factors in the Xenograft Model of Breast Cancer. Anti-Cancer Agents in Medicinal Chemistry, 2015, 15, 1285-1296.	0.9	33

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55	AC133+ progenitor cells as gene delivery vehicle and cellular probe in subcutaneous tumor models: a preliminary study. BMC Biotechnology, 2009, 9, 28.	1.7	31
56	Prevention of Prostate Cancer with Oleanane Synthetic Triterpenoid CDDO-Me in the TRAMP Mouse Model of Prostate Cancer. Cancers, 2011, 3, 3353-3369.	1.7	30
57	Inhibition of cell proliferation and induction of apoptosis by oleanane triterpenoid (CDDO-Me) in pancreatic cancer cells is associated with the suppression of hTERT gene expression and its telomerase activity. Biochemical and Biophysical Research Communications, 2012, 422, 561-567.	1.0	30
58	Vascular Mimicry: The Next Big Glioblastoma Target. Biochemistry & Physiology, 2015, 04, .	0.2	30
59	Myeloid cell signatures in tumor microenvironment predicts therapeutic response in cancer. OncoTargets and Therapy, 2016, 9, 1047.	1.0	30
60	Tracking of In-111-labeled human umbilical tissue-derived cells (hUTC) in a rat model of cerebral ischemia using SPECT imaging. BMC Medical Imaging, 2012, 12, 33.	1.4	29
61	MRI Detects Brain Reorganization after Human Umbilical Tissue-Derived Cells (hUTC) Treatment of Stroke in Rat. PLoS ONE, 2012, 7, e42845.	1.1	27
62	Pristimerin Induces Apoptosis in Prostate Cancer Cells by Downregulating Bcl-2 through ROS-dependent Ubiquitin-proteasomal Degradation Pathway. Journal of Carcinogenesis & Mutagenesis, 2013, Suppl 6, 005.	0.3	27
63	Endothelial Progenitor Cells (EPCs) as Gene Carrier System for Rat Model of Human Glioma. PLoS ONE, 2012, 7, e30310.	1.1	26
64	Development of a novel animal model to differentiate radiation necrosis from tumor recurrence. Journal of Neuro-Oncology, 2012, 108, 411-420.	1.4	26
65	Intravenous Formulation of HET0016 Decreased Human Glioblastoma Growth and Implicated Survival Benefit in Rat Xenograft Models. Scientific Reports, 2017, 7, 41809.	1.6	26
66	Major Challenges and Potential Microenvironment-Targeted Therapies in Glioblastoma. International Journal of Molecular Sciences, 2017, 18, 2732.	1.8	26
67	Effects of Ferumoxides â€“ Protamine Sulfate Labeling on Immunomodulatory Characteristics of Macrophage-like THP-1 Cells. PLoS ONE, 2008, 3, e2499.	1.1	25
68	HET0016 decreases lung metastasis from breast cancer in immune-competent mouse model. PLoS ONE, 2017, 12, e0178830.	1.1	25
69	A critical role of CXCR2 PDZ-mediated interactions in endothelial progenitor cell homing and angiogenesis. Stem Cell Research, 2015, 14, 133-143.	0.3	24
70	Inflammatory properties of inhibitor of DNA binding 1 secreted by synovial fibroblasts in rheumatoid arthritis. Arthritis Research and Therapy, 2016, 18, 87.	1.6	23
71	Malignant pericytes expressing GT198 give rise to tumor cells through angiogenesis. Oncotarget, 2017, 8, 51591-51607.	0.8	22
72	The Stroke Preclinical Assessment Network: Rationale, Design, Feasibility, and Stage 1 Results. Stroke, 2022, 53, 1802-1812.	1.0	22

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73	Chimeric Mouse model to track the migration of bone marrow derived cells in glioblastoma following anti-angiogenic treatments. Cancer Biology and Therapy, 2016, 17, 280-290.	1.5	20
74	Magneticallyâ€labeled sensitized splenocytes to identify glioma by MRI: A preliminary study. Magnetic Resonance in Medicine, 2007, 58, 519-526.	1.9	19
75	Cord blood endothelial progenitor cells as therapeutic and imaging probes. Imaging in Medicine, 2012, 4, 477-490.	0.0	19
76	Glucocorticoid-Induced Leucine Zipper Promotes Neutrophil and T-Cell Polarization with Protective Effects in Acute Kidney Injury. Journal of Pharmacology and Experimental Therapeutics, 2018, 367, 483-493.	1.3	19
77	CYP4A/20-HETE regulates ischemia-induced neovascularization via its actions on endothelial progenitor and preexisting endothelial cells. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H1468-H1479.	1.5	19
78	Combination of vatalanib and a 20-HETE synthesis inhibitor results in decreased tumor growth in an animal model of human glioma. OncoTargets and Therapy, 2016, 9, 1205.	1.0	18
79	Engineered exosomes for studies in tumor immunology. Immunological Reviews, 2022, 312, 76-102.	2.8	18
80	Differentiation of Glioma and Radiation Injury in Rats Using In Vitro Produce Magnetically Labeled Cytotoxic T-Cells and MRI. PLoS ONE, 2010, 5, e9365.	1.1	17
81	Telomerase Reverse Transcriptase (TERT) is a Therapeutic Target of Oleanane Triterpenoid CDDO-Me in Prostate Cancer. Molecules, 2012, 17, 14795-14809.	1.7	17
82	Application of Umbilical Cord Blood Derived Stem Cells in Diseases of the Nervous System. Journal of Stem Cell Research & Therapy, 2014, 04, .	0.3	16
83	CDDO-Me: A Novel Synthetic Triterpenoid for the Treatment of Pancreatic Cancer. Cancers, 2010, 2, 1779-1793.	1.7	15
84	Measurement of rat brain tumor kinetics using an intravascular MR contrast agent and DCEâ€MRI nested model selection. Journal of Magnetic Resonance Imaging, 2014, 40, 1223-1229.	1.9	15
85	Concentrationâ€independent MRI of pH with a dendrimerâ€based pHâ€responsive nanoprobe. Contrast Media and Molecular Imaging, 2015, 10, 481-486.	0.4	15
86	Changes in the tumor microenvironment and outcome for TME-targeting therapy in glioblastoma: A pilot study. PLoS ONE, 2021, 16, e0246646.	1.1	15
87	Differential biodistribution of intravenously administered endothelial progenitor and cytotoxic T-cells in rat bearing orthotopic human glioma. BMC Medical Imaging, 2013, 13, 17.	1.4	14
88	Fluorescent magnetic iron oxide nanoparticles for cardiac precursor cell selection from stromal vascular fraction and optimization for magnetic resonance imaging. International Journal of Nanomedicine, 2015, 10, 711.	3.3	14
89	Generation of Novel Diagnostic and Therapeutic Exosomes to Detect and Deplete Protumorigenic M2 Macrophages. Advanced Therapeutics, 2020, 3, 1900209.	1.6	14
90	Inhibitor of DNA binding 1 as a secreted angiogenic transcription factor in rheumatoid arthritis. Arthritis Research and Therapy, 2014, 16, R68.	1.6	13

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91	Targeting Triple Negative Breast Cancer with a Small-sized Paramagnetic Nanoparticle. Journal of Nanomedicine & Nanotechnology, 2016, 07, .	1.1	13
92	Proteomic Characterization, Biodistribution, and Functional Studies of Immune-Therapeutic Exosomes: Implications for Inflammatory Lung Diseases. Frontiers in Immunology, 2021, 12, 636222.	2.2	13
93	MRI Tracking of FePro Labeled Fresh and Cryopreserved Long Term In Vitro Expanded Human Cord Blood AC133+ Endothelial Progenitor Cells in Rat Glioma. PLoS ONE, 2012, 7, e37577.	1.1	13
94	Myeloid Derived Suppressor Cells: Fuel the Fire. Biochemistry & Physiology, 2014, 03, e123.	0.2	11
95	Display of the Viral Epitopes onLactococcus lactis: A Model for Food Grade Vaccine against EV71. Biotechnology Research International, 2013, 2013, 1-9.	1.4	10
96	Delineating Pro-Angiogenic Myeloid Cells in Cancer Therapy. International Journal of Molecular Sciences, 2018, 19, 2565.	1.8	10
97	Monitoring adenoviral based gene delivery in rat glioma by molecular imaging. World Journal of Clinical Oncology, 2013, 4, 91.	0.9	9
98	Inhalant Cannabidiol Inhibits Glioblastoma Progression Through Regulation of Tumor Microenvironment. Cannabis and Cannabinoid Research, 2023, 8, 824-834.	1.5	9
99	Neovascularization in Glioblastoma: Current Pitfall in Anti-angiogenic therapy. Zhong Liu Za Zhi, 2013, 1, 16-19.	0.3	8
100	Investigation of relationships between transverse relaxation rate, diffusion coefficient, and labeled cell concentration in ischemic rat brain using MRI. Magnetic Resonance in Medicine, 2009, 61, 587-594.	1.9	7
101	Color transformation and fluorescence of Prussian blue-positive cells: implications for histologic verification of cells labeled with superparamagnetic iron oxide nanoparticles. Molecular Imaging, 2007, 6, 212-8.	0.7	7
102	Bone Marrow-Derived Stromal Cells (BMSCs) Interact with Fibroblasts in Accelerating Wound Healing. Journal of Investigative Surgery, 2008, 21, 270-279.	0.6	6
103	Oncoprotein GT198 vaccination delays tumor growth in MMTV-PyMT mice. Cancer Letters, 2020, 476, 57-66.	3.2	6
104	Pulsed Focal Ultrasound as a Non-Invasive Method to Deliver Exosomes in the Brain/Stroke. Journal of Biomedical Nanotechnology, 2021, 17, 1170-1183.	0.5	6
105	Taming immune suppressor: application of myeloid-derived suppressor cells in anti-cancer gene therapy. Translational Cancer Research, 2017, 6, S160-S162.	0.4	5
106	p53 Mutation: Critical Mediator of Therapy Resistance against Tumor Microenvironment. Biochemistry & Physiology, 2016, 05, .	0.2	4
107	[125 I]IodoDPA-713 Binding to 18 kDa Translocator Protein (TSPO) in a Mouse Model of Intracerebral Hemorrhage: Implications for Neuroimaging. Frontiers in Neuroscience, 2018, 12, 66.	1.4	4
108	Molecular Bio-Imaging Probe for Non-Invasive Differentiation Between Human Leiomyoma Versus Leiomyosarcoma. Reproductive Sciences, 2020, 27, 644-654.	1.1	4

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109	Research Highlights. Imaging in Medicine, 2010, 2, 129-130.	0.0	3
110	MRI to assess chemoprevention in transgenic adenocarcinoma of mouse prostate (TRAMP). BMC Medical Imaging, 2011, 11, 21.	1.4	3
111	When Seed and Soil Theory Meets Chicken or Egg Theory in Cancer Metastasis. Biochemistry & Physiology, 2014, 04, .	0.2	3
112	Mechanisms of glioblastoma resistance to antiangiogenic agents and reversal approaches. , 2021, , 429-452.		1
113	Cytotoxic T-cells as imaging probes for detecting glioma. World Journal of Clinical Oncology, 2010, 1, 3.	0.9	1
114	Abstract 252: CXCL7-CXCR2 axis as a novel prognostic factor in myeloid cell associated glioblastoma. , 2016, , .		1
115	Iron Oxideâ€“Transfection Agent Complexes Are Not Expected to Coat the Cell Membrane and Prevent CD71 Expression. Radiology, 2008, 247, 914-915.	3.6	0
116	Current status of recurrent glioblastoma therapies. , 2021, , 1-7.		0
117	Targeting tumor microenvironment-associated cells to reverse therapy resistance. , 2021, , 115-144.		0
118	Intervention of IL-8-CXCR2 axis to reverse the resistance to GBM therapies. , 2021, , 65-81.		0
119	Cellular Iron Metabolism Studies Demonstate Safety of Magnetic Tracking of Mesenchymal Stem Cells.. Blood, 2005, 106, 4320-4320.	0.6	0
120	The CYP4Aâ€20â€HETE System in Regulation of Endothelial Progenitor Cell Functions. FASEB Journal, 2009, 23, 965.18.	0.2	0
121	Abstract A009: Effect of melatonin on the tumor growth and angiogenesis of breast cancer. , 2013, , .		0