

# Tarik F Massoud

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

4,262  
citations

218677

26  
h-index

110387

64  
g-index

86  
all docs

86  
docs citations

86  
times ranked

5613  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular imaging in living subjects: seeing fundamental biological processes in a new light. <i>Genes and Development</i> , 2003, 17, 545-580.	5.9	1,954
2	Polymer Nanoparticles Mediated Codelivery of AntimiR-10b and AntimiR-21 for Achieving Triple Negative Breast Cancer Therapy. <i>ACS Nano</i> , 2015, 9, 2290-2302.	14.6	221
3	Tumor Cell-Derived Extracellular Vesicle-Coated Nanocarriers: An Efficient Theranostic Platform for the Cancer-Specific Delivery of Anti-miR-21 and Imaging Agents. <i>ACS Nano</i> , 2018, 12, 10817-10832.	14.6	170
4	Bioluminescence resonance energy transfer (BRET) imaging of protein-protein interactions within deep tissues of living subjects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 12060-12065.	7.1	163
5	Intranasal delivery of targeted polyfunctional gold-iron oxide nanoparticles loaded with therapeutic microRNAs for combined theranostic multimodality imaging and presensitization of glioblastoma to temozolomide. <i>Biomaterials</i> , 2019, 218, 119342.	11.4	159
6	Risk of Intracranial Arteriovenous Malformation Rupture Due to Venous Drainage Impairment. <i>Stroke</i> , 1996, 27, 1072-1083.	2.0	118
7	Integrating noninvasive molecular imaging into molecular medicine: an evolving paradigm. <i>Trends in Molecular Medicine</i> , 2007, 13, 183-191.	6.7	113
8	Reporter gene imaging of protein-protein interactions in living subjects. <i>Current Opinion in Biotechnology</i> , 2007, 18, 31-37.	6.6	81
9	Molecular imaging of homodimeric protein-protein interactions in living subjects. <i>FASEB Journal</i> , 2004, 18, 1105-1107.	0.5	65
10	Folate Receptor-Targeted Polymeric Micellar Nanocarriers for Delivery of Orlistat as a Repurposed Drug against Triple-Negative Breast Cancer. <i>Molecular Cancer Therapeutics</i> , 2016, 15, 221-231.	4.1	65
11	A molecularly engineered split reporter for imaging protein-protein interactions with positron emission tomography. <i>Nature Medicine</i> , 2010, 16, 921-926.	30.7	61
12	Nanoparticle-Delivered Antisense MicroRNA-21 Enhances the Effects of Temozolomide on Glioblastoma Cells. <i>Molecular Pharmaceutics</i> , 2015, 12, 4509-4517.	4.6	61
13	A Biomathematical Model of Intracranial Arteriovenous Malformations Based on Electrical Network Analysis: Theory and Hemodynamics. <i>Neurosurgery</i> , 1996, 38, 1005-1015.	1.1	59
14	Targeted nanoparticle delivery of therapeutic antisense microRNAs presensitizes glioblastoma cells to lower effective doses of temozolomide <i>in vitro</i> and in a mouse model. <i>Oncotarget</i> , 2018, 9, 21478-21494.	1.8	56
15	Gold-Nanostar-Chitosan-Mediated Delivery of SARS-CoV-2 DNA Vaccine for Respiratory Mucosal Immunization: Development and Proof-of-Principle. <i>ACS Nano</i> , 2021, 15, 17582-17601.	14.6	55
16	Temozolomide-loaded PLGA nanoparticles to treat glioblastoma cells: a biophysical and cell culture evaluation. <i>Neurological Research</i> , 2016, 38, 51-59.	1.3	53
17	Transvenous Retrograde Nidus Sclerotherapy under Controlled Hypotension (TRENSh): A Newly Proposed Treatment for Brain Arteriovenous Malformations-Concepts and Rationale. <i>Neurosurgery</i> , 1999, 45, 351-366.	1.1	52
18	Predicting tumour mutational burden from histopathological images using multiscale deep learning. <i>Nature Machine Intelligence</i> , 2020, 2, 356-362.	16.0	52

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19	Reconstructed Apoptotic Bodies as Targeted "Nano Decoys" to Treat Intracellular Bacterial Infections within Macrophages and Cancer Cells. <i>ACS Nano</i> , 2020, 14, 5818-5835.	14.6	52
20	A Microfluidics-Based Scalable Approach to Generate Extracellular Vesicles with Enhanced Therapeutic MicroRNA Loading for Intranasal Delivery to Mouse Glioblastomas. <i>ACS Nano</i> , 2021, 15, 18327-18346.	14.6	52
21	Hemodynamic Changes in Arterial Feeders and Draining Veins during Embolotherapy of Arteriovenous Malformations: An Experimental Study in a Swine Model. <i>Neurosurgery</i> , 1998, 43, 96-104.	1.1	49
22	Tailored Nanoparticle Codelivery of anti-miR-21 and anti-miR-10b Augments Glioblastoma Cell Kill by Temozolomide: Toward a "Personalized" Anti-microRNA Therapy. <i>Molecular Pharmaceutics</i> , 2016, 13, 3164-3175.	4.6	43
23	SARS-CoV-2 Vaccine Development: An Overview and Perspectives. <i>ACS Pharmacology and Translational Science</i> , 2020, 3, 844-858.	4.9	34
24	Comparison of cell-based assays to quantify treatment effects of anticancer drugs identifies a new application for Bodipy-L-cystine to measure apoptosis. <i>Scientific Reports</i> , 2018, 8, 16363.	3.3	31
25	Camouflaged Hybrid Cancer Cell-Platelet Fusion Membrane Nanovesicles Deliver Therapeutic MicroRNAs to Presensitize Triple-Negative Breast Cancer to Doxorubicin. <i>Advanced Functional Materials</i> , 2021, 31, 2103600.	14.9	30
26	Theoretical modelling of arteriovenous malformation rupture risk: a feasibility and validation study. <i>Medical Engineering and Physics</i> , 1998, 20, 489-501.	1.7	29
27	SP94-Targeted Triblock Copolymer Nanoparticle Delivers Thymidine Kinase "p53" Nitroreductase Triple Therapeutic Gene and Restores Anticancer Function against Hepatocellular Carcinoma in Vivo. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 11307-11319.	8.0	27
28	Transvenous Retrograde Nidus Sclerotherapy Under Controlled Hypotension (TRENSh). <i>Neurosurgery</i> , 2013, 73, 332-343.	1.1	21
29	The protean world of non-coding RNAs in glioblastoma. <i>Journal of Molecular Medicine</i> , 2019, 97, 909-925.	3.9	20
30	A transgenic mouse model expressing an ER $\pm$ folding biosensor reveals the effects of Bisphenol A on estrogen receptor signaling. <i>Scientific Reports</i> , 2016, 6, 34788.	3.3	17
31	An electrical network model of intracranial arteriovenous malformations: analysis of variations in hemodynamic and biophysical parameters. <i>Neurological Research</i> , 1996, 18, 575-589.	1.3	15
32	Imaging and treatment of brain tumors through molecular targeting: Recent clinical advances. <i>European Journal of Radiology</i> , 2021, 142, 109842.	2.6	15
33	PKM2 activation sensitizes cancer cells to growth inhibition by 2-deoxy-D-glucose. <i>Oncotarget</i> , 2017, 8, 90959-90968.	1.8	14
34	Biomimetic nanobubbles for triple-negative breast cancer targeted ultrasound molecular imaging. <i>Journal of Nanobiotechnology</i> , 2022, 20, .	9.1	14
35	Experimental Radiosurgery Simulations Using a Theoretical Model of Cerebral Arteriovenous Malformations. <i>Stroke</i> , 2000, 31, 2466-2477.	2.0	13
36	Engineering Intracellularly Retained Gaussia Luciferase Reporters for Improved Biosensing and Molecular Imaging Applications. <i>ACS Chemical Biology</i> , 2017, 12, 2345-2353.	3.4	13

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37	Principles and philosophy of modeling in biomedical research. <i>FASEB Journal</i> , 1998, 12, 275-285.	0.5	13
38	Magnetic resonance imaging anatomy and morphometry of lumbar intervertebral foramina to guide safe transforaminal subarachnoid punctures. <i>Clinical Anatomy</i> , 2020, 33, 405-413.	2.7	12
39	A protein folding molecular imaging biosensor monitors the effects of drugs that restore mutant p53 structure and its downstream function in glioblastoma cells. <i>Oncotarget</i> , 2018, 9, 21495-21511.	1.8	11
40	Eponymous "valves" of the nasolacrimal drainage apparatus. I. A historical review. <i>Clinical Anatomy</i> , 2019, 32, 41-45.	2.7	11
41	Ligand-activated BRET9 imaging for measuring protein-protein interactions in living mice. <i>Chemical Communications</i> , 2020, 56, 281-284.	4.1	9
42	A Clinical PET Imaging Tracer ([ <sup>18</sup> F]DASA-23) to Monitor Pyruvate Kinase M2-Induced Glycolytic Reprogramming in Glioblastoma. <i>Clinical Cancer Research</i> , 2021, 27, 6467-6478.	7.0	9
43	Structural asymmetries in normal brain anatomy: A brief overview. <i>Annals of Anatomy</i> , 2022, 241, 151894.	1.9	9
44	FN3 linked nanobubbles as a targeted contrast agent for US imaging of cancer-associated human PD-L1. <i>Journal of Controlled Release</i> , 2022, 346, 317-327.	9.9	9
45	Eponymous "valves" of the nasolacrimal drainage apparatus. II. Frequency of visualization on dacryocystography. <i>Clinical Anatomy</i> , 2019, 32, 35-40.	2.7	8
46	The mammillothalamic tracts: Age-related conspicuity and normative morphometry on brain magnetic resonance imaging. <i>Clinical Anatomy</i> , 2020, 33, 911-919.	2.7	8
47	Engineered Cell-Derived Vesicles Displaying Targeting Peptide and Functionalized with Nanocarriers for Therapeutic microRNA Delivery to Triple-Negative Breast Cancer in Mice. <i>Advanced Healthcare Materials</i> , 2022, 11, e2101387.	7.6	8
48	Restoring guardianship of the genome: Anticancer drug strategies to reverse oncogenic mutant p53 misfolding. <i>Cancer Treatment Reviews</i> , 2018, 71, 19-31.	7.7	7
49	Ossification of the pterygoalar and pterygospinous ligaments: a computed tomography analysis of infratemporal fossa anatomical variants relevant to percutaneous trigeminal rhizotomy. <i>Journal of Neurosurgery</i> , 2020, 132, 1942-1951.	1.6	7
50	A rationally identified panel of microRNAs targets multiple oncogenic pathways to enhance chemotherapeutic effects in glioblastoma models. <i>Scientific Reports</i> , 2022, 12, .	3.3	7
51	Tuber cinereum proximity to critical major arteries: a morphometric imaging analysis relevant to endoscopic third ventriculostomy. <i>Acta Neurochirurgica</i> , 2013, 155, 891-900.	1.7	6
52	Computational Network Modeling of Intracranial Hemodynamic Compartmentalization in a Theoretical Three-Dimensional Brain Arteriovenous Malformation. <i>Frontiers in Physiology</i> , 2019, 10, 1250.	2.8	6
53	Imaging anatomy of the vertebral canal for trans-sacral hiatus puncture of the lumbar cistern. <i>Clinical Anatomy</i> , 2021, 34, 348-356.	2.7	6
54	A molecular imaging biosensor detects in vivo protein folding and misfolding. <i>Journal of Molecular Medicine</i> , 2016, 94, 799-808.	3.9	5

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55	Large-scale ensemble simulations of biomathematical brain arteriovenous malformation models using graphics processing unit computation. <i>Computers in Biology and Medicine</i> , 2019, 113, 103416.	7.0	5
56	Optic Chiasm Morphometric Changes in Multiple Sclerosis: Feasibility of a Simplified Brain Magnetic Resonance Imaging Measure of White Matter Atrophy. <i>Clinical Anatomy</i> , 2019, 32, 1072-1081.	2.7	5
57	Molecular Imaging of Retinoic Acids in Live Cells Using Single-Chain Bioluminescence Probes. <i>ACS Combinatorial Science</i> , 2019, 21, 473-481.	3.8	5
58	Trends in performance indicators of neuroimaging anatomy research publications: A bibliometric study of major neuroradiology journal output over four decades based on web of science database. <i>Clinical Anatomy</i> , 2015, 28, 16-26.	2.7	4
59	A critical appraisal of Monro's erroneous description of the cerebral interventricular foramina: Age-related magnetic resonance imaging spatial morphometry and a proposed new terminology. <i>Clinical Anatomy</i> , 2020, 33, 446-457.	2.7	4
60	Tortuosity of superior cerebral veins: Comparative magnetic resonance imaging morphometrics in normal subjects and arteriovenous malformation patients. <i>Clinical Anatomy</i> , 2021, 34, 326-332.	2.7	4
61	Ultrasound Triggered Co-Delivery of Therapeutic MicroRNAs and a Triple Suicide Gene Therapy Vector by Using Biocompatible Polymer Nanoparticles for Improved Cancer Therapy in Mouse Models. <i>Advanced Therapeutics</i> , 2021, 4, 2000197.	3.2	4
62	Ambiguous "olfactory" terms for anatomic spaces adjacent to the cribriform plate: A publication database analysis and quest for uniformity. <i>Clinical Anatomy</i> , 2021, 34, 1186-1195.	2.7	4
63	Are high lumbar punctures safe? A magnetic resonance imaging morphometric study of the conus medullaris. <i>Clinical Anatomy</i> , 2019, 32, 618-629.	2.7	3
64	Highly sensitive eight-channel light sensing system for biomedical applications. <i>Photochemical and Photobiological Sciences</i> , 2020, 19, 524-529.	2.9	3
65	Molecular Imaging Biosensor Monitors p53 Sumoylation in Cells and Living Mice. <i>Analytical Chemistry</i> , 2016, 88, 11420-11428.	6.5	2
66	Three-Dimensional Angles of Confluence of Cortical Bridging Veins and the Superior Sagittal Sinus on MR Venography. <i>Clinical Anatomy</i> , 2020, 33, 293-299.	2.7	2
67	Molecular Imaging of Protein-Protein Interactions and Protein Folding. , 2021, , 897-928.		2
68	Editorial: Advanced Neuroimaging of Brain Metastases. <i>Frontiers in Neurology</i> , 2021, 12, 668310.	2.4	2
69	Anatomy of Intracranial Veins. <i>Neuroimaging Clinics of North America</i> , 2022, 32, 637-661.	1.0	2
70	Anatomy of the Cerebral Cortex, Lobes, and Cerebellum. <i>Neuroimaging Clinics of North America</i> , 2022, 32, 463-473.	1.0	2
71	Anatomy of the Calvaria and Skull Base. <i>Neuroimaging Clinics of North America</i> , 2022, 32, 447-462.	1.0	2
72	No Significant Displacement of Basal Brain Structures upon Head Movement: Kinematic MRI Morphometry Relevant to Neuroendoscopy. <i>Journal of Neurological Surgery, Part A: Central European Neurosurgery</i> , 2014, 75, 098-103.	0.8	1

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73	Glioblastoma Invoking "Killer" Rabbits of the Middle Ages. <i>World Neurosurgery</i> , 2016, 92, 140-141.	1.3	1
74	Comparison of embolization strategies for mixed plexiform and fistulous brain arteriovenous malformations: a computational model analysis of theoretical risks of nidus rupture. <i>Journal of NeuroInterventional Surgery</i> , 2022, 14, 1213-1219.	3.3	1
75	EXTH-61. TARGETED NANOPARTICLE DELIVERY OF THERAPEUTIC ANTIMIR-21 AND ANTIMIR-10B PRESENSITIZES GLIOBLASTOMA TO LOWER EFFECTIVE DOSES OF TEMOZOLOMIDE IN CELLS AND XENOGRAPHS. <i>Neuro-Oncology</i> , 2017, 19, vi86-vi86.	1.2	0
76	EXTH-28. TARGETED POLYIONS ENGINEERED WITH SURFACE miRNAs FOR COMBINED MULTIMODALITY IMAGING AND ENHANCEMENT OF TEMOZOLOMIDE TREATMENT: A NOVEL INTRANASALLY-DELIVERED THERANOSTIC STRATEGY AGAINST GLIOBLASTOMA. <i>Neuro-Oncology</i> , 2019, 21, vi87-vi88.	1.2	0
77	EXTH-30. PRECEDING p53 STABILIZATION USING DOXORUBICIN AUGMENTS PRIMA-1-MEDIATED p53 REFOLDING AND INCREASED CELLULAR APOPTOSIS: EVALUATION OF A SEQUENTIAL COMBINATION THERAPY AGAINST GLIOBLASTOMA. <i>Neuro-Oncology</i> , 2019, 21, vi88-vi88.	1.2	0
78	High-Throughput Whole-Plate Imaging of Cells for Multiple Biological Applications. <i>Methods in Molecular Biology</i> , 2021, 2274, 367-384.	0.9	0
79	Molecular Imaging of Gene Therapy. , 2021, , 787-810.		0
80	Role of microRNA therapy in presensitizing glioblastoma cells to temozolomide treatment. , 2021, , 667-688.		0
81	Recent Progress in Medical Imaging: Molecular Imaging in Living Subjects. <i>Journal of Korean Society of Medical Informatics</i> , 2003, 9, 349.	0.3	0