

Thomas Abraham

List of Publications by Year in descending order

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84
papers

3,378
citations

136950

32
h-index

155660

55
g-index

87
all docs

87
docs citations

87
times ranked

6228
citing authors

#	ARTICLE	IF	CITATIONS
1	ADAM15 is required for optimal collagen cross-linking and scar formation following myocardial infarction. <i>Matrix Biology</i> , 2022, 105, 127-143.	3.6	9
2	Structural changes in the collagen network of joint tissues in late stages of murine OA. <i>Scientific Reports</i> , 2022, 12, .	3.3	8
3	A Nanomule Peptide Carrier Delivers siRNA Across the Intact Blood-Brain Barrier to Attenuate Ischemic Stroke. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 611367.	3.5	13
4	Aptamer-Targeted Calcium Phosphosilicate Nanoparticles for Effective Imaging of Pancreatic and Prostate Cancer. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 2297-2309.	6.7	7
5	Discovery of a Highly Conserved Peptide in the Iron Transporter Melanotransferrin that Traverses an Intact Blood Brain Barrier and Localizes in Neural Cells. <i>Frontiers in Neuroscience</i> , 2021, 15, 596976.	2.8	5
6	Humans with inherited TÀcell CD28 deficiency are susceptible to skin papillomaviruses but are otherwise healthy. <i>Cell</i> , 2021, 184, 3812-3828.e30.	28.9	53
7	PIGN spatiotemporally regulates the spindle assembly checkpoint proteins in leukemia transformation and progression. <i>Scientific Reports</i> , 2021, 11, 19022.	3.3	3
8	Context-dependent activation of SIRT3 is necessary for anchorage-independent survival and metastasis of ovarian cancer cells. <i>Oncogene</i> , 2020, 39, 1619-1633.	5.9	37
9	Aberrant structure of fibrillar collagen and elevated levels of advanced glycation end products typify delayed fracture healing in the diet-induced obesity mouse model. <i>Bone</i> , 2020, 137, 115436.	2.9	21
10	A peptide derived from melanotransferrin delivers a protein-based interleukin 1 receptor antagonist across the BBB and ameliorates neuropathic pain in a preclinical model. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 2074-2088.	4.3	22
11	Liposomal delivery of ferritin heavy chain 1 (FTH1) siRNA in patient xenograft derived glioblastoma initiating cells suggests different sensitivities to radiation and distinct survival mechanisms. <i>PLoS ONE</i> , 2019, 14, e0221952.	2.5	13
12	VPS37A directs ESCRT recruitment for phagophore closure. <i>Journal of Cell Biology</i> , 2019, 218, 3336-3354.	5.2	74
13	Extracellular vesicle-dependent effect of RNA-binding protein IGF2BP1 on melanoma metastasis. <i>Oncogene</i> , 2019, 38, 4182-4196.	5.9	41
14	Multiphoton and harmonic generation imaging methods enable direct visualization of drug nanoparticle carriers in conjunction with vasculature in fibrotic prostate tumor mouse model. , 2019, , .		0
15	Educating and training biomedical researchers in biophotonics and advanced light microscopy methods. , 2019, , .		0
16	Tumor-promoting effects of pancreatic cancer cell exosomes on THP-1-derived macrophages. <i>PLoS ONE</i> , 2018, 13, e0206759.	2.5	81
17	An autophagy assay reveals the ESCRT-III component CHMP2A as a regulator of phagophore closure. <i>Nature Communications</i> , 2018, 9, 2855.	12.8	240
18	Bio-distribution of near infrared imaging agent loaded targeted drug nanoparticle carriers in highly fibrotic pancreatic tumor determined using multiphoton and harmonic generation imaging. , 2018, , .		0

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19	Pign Suppresses CIN and Leukemia Progression Via Regulation of the Spindle Assembly Checkpoint. <i>Blood</i> , 2018, 132, 2792-2792.	1.4	0
20	Domain Interaction Studies of Herpes Simplex Virus 1 Tegument Protein UL16 Reveal Its Interaction with Mitochondria. <i>Journal of Virology</i> , 2017, 91, .	3.4	12
21	SH3GLB2/endophilin B2 regulates lung homeostasis and recovery from severe influenza A virus infection. <i>Scientific Reports</i> , 2017, 7, 7262.	3.3	17
22	A novel dual inhibitor of microtubule and Bruton's tyrosine kinase inhibits survival of multiple myeloma and osteoclastogenesis. <i>Experimental Hematology</i> , 2017, 53, 31-42.	0.4	15
23	Effective encapsulation and biological activity of phosphorylated chemotherapeutics in calcium phosphosilicate nanoparticles for the treatment of pancreatic cancer. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 2313-2324.	3.3	11
24	A Cholecystokinin B Receptor-Specific DNA Aptamer for Targeting Pancreatic Ductal Adenocarcinoma. <i>Nucleic Acid Therapeutics</i> , 2017, 27, 23-35.	3.6	34
25	PIGN gene expression aberration is associated with genomic instability and leukemic progression in acute myeloid leukemia with myelodysplastic features. <i>Oncotarget</i> , 2017, 8, 29887-29905.	1.8	9
26	"Stealth dissemination" of macrophage-tumor cell fusions cultured from blood of patients with pancreatic ductal adenocarcinoma. <i>PLoS ONE</i> , 2017, 12, e0184451.	2.5	51
27	The Bif-1-Dynamain 2 membrane fission machinery regulates Atg9-containing vesicle generation at the Rab11-positive reservoirs. <i>Oncotarget</i> , 2016, 7, 20855-20868.	1.8	42
28	Depletion of the Human Ion Channel TRPM2 in Neuroblastoma Demonstrates Its Key Role in Cell Survival through Modulation of Mitochondrial Reactive Oxygen Species and Bioenergetics. <i>Journal of Biological Chemistry</i> , 2016, 291, 24449-24464.	3.4	58
29	Vitronectin Expression in the Airways of Subjects with Asthma and Chronic Obstructive Pulmonary Disease. <i>PLoS ONE</i> , 2015, 10, e0119717.	2.5	26
30	Versican V1 Overexpression Induces a Myofibroblast-Like Phenotype in Cultured Fibroblasts. <i>PLoS ONE</i> , 2015, 10, e0133056.	2.5	31
31	Macrophage-Tumor Cell Fusions from Peripheral Blood of Melanoma Patients. <i>PLoS ONE</i> , 2015, 10, e0134320.	2.5	76
32	B Cellâ€œIntrinsic CD84 and Ly108 Maintain Germinal Center B Cell Tolerance. <i>Journal of Immunology</i> , 2015, 194, 4130-4143.	0.8	53
33	Response to Letter Regarding Article, â€œContribution of Intimal Smooth Muscle Cells to Cholesterol Accumulation and Macrophage-Like Cells in Human Atherosclerosisâ€œ. <i>Circulation</i> , 2015, 131, e25.	1.6	3
34	Versican localizes to the nucleus in proliferating mesenchymal cells. <i>Cardiovascular Pathology</i> , 2015, 24, 368-374.	1.6	16
35	Simple Experimental Methods for Determining the Apparent Focal Shift in a Microscope System. <i>PLoS ONE</i> , 2015, 10, e0134616.	2.5	16
36	Podocalyxin Regulates Murine Lung Vascular Permeability by Altering Endothelial Cell Adhesion. <i>PLoS ONE</i> , 2014, 9, e108881.	2.5	26

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37	A Splice Variant of the Human Ion Channel TRPM2 Modulates Neuroblastoma Tumor Growth through Hypoxia-inducible Factor (HIF)-1/2. Journal of Biological Chemistry, 2014, 289, 36284-36302.	3.4	82
38	Structure-activity relationships of the antimicrobial peptide gramicidin S and its analogs: Aqueous solubility, self-association, conformation, antimicrobial activity and interaction with model lipid membranes. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 1420-1429.	2.6	29
39	Contribution of Intimal Smooth Muscle Cells to Cholesterol Accumulation and Macrophage-Like Cells in Human Atherosclerosis. Circulation, 2014, 129, 1551-1559.	1.6	493
40	Cryo-imaging of Inflated Frozen Human Lung Sections at -60°C using Multiphoton and Harmonic Generation Microscopy. Microscopy and Microanalysis, 2014, 20, 1348-1349.	0.4	19
41	Increased mast cell numbers in a calcaneal tendon overuse model. Scandinavian Journal of Medicine and Science in Sports, 2013, 23, e353-60.	2.9	46
42	Multiphoton microscopy based cryo-imaging of inflated frozen human lung sections at -60°C in healthy and COPD lungs. Proceedings of SPIE, 2013, , .	0.8	0
43	miR-33a Modulates ABCA1 Expression, Cholesterol Accumulation, and Insulin Secretion in Pancreatic Islets. Diabetes, 2012, 61, 653-658.	0.6	122
44	Second harmonic generation microscopy differentiates collagen type I and type III in diseased lung tissues. Proceedings of SPIE, 2012, , .	0.8	13
45	Quantitative assessment of forward and backward second harmonic three dimensional images of collagen Type I matrix remodeling in a stimulated cellular environment. Journal of Structural Biology, 2012, 180, 17-25.	2.8	24
46	Proteinase inhibitor 9 is reduced in human atherosclerotic lesion development. Cardiovascular Pathology, 2012, 21, 28-38.	1.6	18
47	Proteomic identification of dysferlin-interacting protein complexes in human vascular endothelium. Biochemical and Biophysical Research Communications, 2011, 415, 263-269.	2.1	18
48	Minimally invasive multiphoton and harmonic generation imaging of extracellular matrix structures in lung airway and related diseases. Pulmonary Pharmacology and Therapeutics, 2011, 24, 487-496.	2.6	25
49	Minimally invasive imaging method based on second harmonic generation and multiphoton excitation fluorescence in translational respiratory research. Respirology, 2011, 16, 22-33.	2.3	15
50	Granzyme B contributes to extracellular matrix remodeling and skin aging in apolipoprotein E knockout mice. Experimental Gerontology, 2011, 46, 489-499.	2.8	57
51	Second harmonic generation analysis of early Achilles tendinosis in response to in vivo mechanical loading. BMC Musculoskeletal Disorders, 2011, 12, 26.	1.9	33
52	Scleraxis expression is coordinately regulated in a murine model of patellar tendon injury. Journal of Orthopaedic Research, 2011, 29, 289-296.	2.3	54
53	Sodium cromolyn reduces expression of CTGF, ADAMTS1, and TIMP3 and modulates post-injury patellar tendon morphology. Journal of Orthopaedic Research, 2011, 29, 678-683.	2.3	12
54	Serpina3n attenuates granzyme B-mediated decorin cleavage and rupture in a murine model of aortic aneurysm. Cell Death and Disease, 2011, 2, e209-e209.	6.3	57

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55	Second harmonic generation imaging of collagen matrix remodeling in a stimulated 3D cellular environment: forward versus backward detection. , 2011, , .		0
56	Mechanical force modulates scleraxis expression in bioartificial tendons. Journal of Musculoskeletal Neuronal Interactions, 2011, 11, 124-32.	0.1	76
57	Lung alveolar wall disruption in three-dimensional space identified using second-harmonic generation and multiphoton excitation fluorescence. , 2010, , .		0
58	Deconvolution and chromatic aberration corrections in quantifying colocalization of a transcription factor in three-dimensional cellular space. Micron, 2010, 41, 633-640.	2.2	9
59	Functional effects of protein kinases and peroxynitrite on cardiac carnitine palmitoyltransferase-1 in isolated mitochondria. Molecular and Cellular Biochemistry, 2010, 337, 223-237.	3.1	19
60	Localization of DNA and RNA in Eosinophil Secretory Granules. International Archives of Allergy and Immunology, 2010, 152, 12-27.	2.1	10
61	TIMP2 Deficiency Accelerates Adverse Post-Myocardial Infarction Remodeling Because of Enhanced MT1-MMP Activity Despite Lack of MMP2 Activation. Circulation Research, 2010, 106, 796-808.	4.5	140
62	Early activation of matrix metalloproteinases underlies the exacerbated systolic and diastolic dysfunction in mice lacking TIMP3 following myocardial infarction. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 299, H1012-H1023.	3.2	73
63	Collagen matrix remodeling in 3-dimensional cellular space resolved using second harmonic generation and multiphoton excitation fluorescence. Journal of Structural Biology, 2010, 169, 36-44.	2.8	33
64	Extracellular matrix remodeling of lung alveolar walls in three dimensional space identified using second harmonic generation and multiphoton excitation fluorescence. Journal of Structural Biology, 2010, 171, 189-196.	2.8	75
65	Imaging of collagen matrix remodeling in three-dimensional space using second harmonic generation and two photon excitation fluorescence. , 2009, , .		1
66	ERK MAP kinase-activated Arf6 trafficking directs coxsackievirus type B3 into an unproductive compartment during virus host-cell entry. Journal of General Virology, 2009, 90, 854-862.	2.9	32
67	Quantifying colocalization of a conditionally active transcription factor FOXP3 in three-dimensional cellular space. Proceedings of SPIE, 2009, , .	0.8	0
68	Inducible reprogramming of human T cells into Treg cells by a conditionally active form of FOXP3. European Journal of Immunology, 2008, 38, 3282-3289.	2.9	91
69	Polymer-Dispersed Bicontinuous Cubic Glycolipid Nanoparticles. Biotechnology Progress, 2008, 21, 255-262.	2.6	38
70	Monolayer Film Behavior of Lipopolysaccharide from Pseudomonas aeruginosa at the Air-Water Interface. Biomacromolecules, 2008, 9, 2799-2804.	5.4	29
71	The relationship between the binding to and permeabilization of phospholipid bilayer membranes by GS14dK4, a designed analog of the antimicrobial peptide gramicidin S. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 2089-2098.	2.6	19
72	Neutron Diffraction Study of Pseudomonas aeruginosa Lipopolysaccharide Bilayers. Journal of Physical Chemistry B, 2007, 111, 2477-2483.	2.6	48

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73	Isothermal Titration Calorimetry Studies of the Binding of the Antimicrobial Peptide Gramicidin S to Phospholipid Bilayer Membranes. <i>Biochemistry</i> , 2005, 44, 11279-11285.	2.5	46
74	Adhesion forces between functionalized probes and hydrophilic silica surfaces. <i>Journal of Adhesion Science and Technology</i> , 2005, 19, 149-163.	2.6	18
75	Isothermal Titration Calorimetry Studies of the Binding of a Rationally Designed Analogue of the Antimicrobial Peptide Gramicidin S to Phospholipid Bilayer Membranes. <i>Biochemistry</i> , 2005, 44, 2103-2112.	2.5	63
76	Role of polyelectrolyte charge density in tuning colloidal forces. <i>AIChE Journal</i> , 2004, 50, 2613-2626.	3.6	24
77	Glycolipid based cubic nanoparticles: preparation and structural aspects. <i>Colloids and Surfaces B: Biointerfaces</i> , 2004, 35, 107-118.	5.0	38
78	Asphaltene-Silica Interactions in Aqueous Solutions: Direct Force Measurements Combined with Electrokinetic Studies. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 2170-2177.	3.7	60
79	Effects of divalent salt on adsorption kinetics of a hydrophobically modified polyelectrolyte at the neutral surface-aqueous solution interface. <i>Polymer</i> , 2002, 43, 849-855.	3.8	19
80	Polyelectrolyte-Mediated Interaction between Similarly Charged Surfaces: Role of Divalent Counter Ions in Tuning Surface Forces. <i>Langmuir</i> , 2001, 17, 8321-8327.	3.5	40
81	Interactions of partially screened polyelectrolyte layers with oppositely charged surfactant in confined environment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 180, 103-110.	4.7	7
82	Adsorption Kinetics of a Hydrophobic-Hydrophilic Diblock Polyelectrolyte at the Solid-Aqueous Solution Interface: A Slow Birth and Fast Growth Process. <i>Macromolecules</i> , 2000, 33, 6051-6059.	4.8	42
83	Direct Measurements of Interactions between Hydrophobically Anchored Strongly Charged Polyelectrolyte Brushes. <i>Langmuir</i> , 2000, 16, 4286-4292.	3.5	78
84	Neutron Diffraction Study of <i>Pseudomonas aeruginosa</i> Lipopolysaccharide Bilayers. , 0, , .		7