Ahsan Husain

List of Publications by Year
in descending order

90 papers	7,492 citations	50170 46 h-index	51492 86 g-index
94 all docs	94 docs citations	94 times ranked	6297 citing authors

#	Article	IF	Citations
1	Remuscularization with triiodothyronine and Î²1-blocker therapy reverses post-ischemic left ventricular dysfunction and adverse remodeling. Scientific Reports, 2022, 12, .	1.6	2
2	Standardised method for cardiomyocyte isolation and purification from individual murine neonatal, infant, and adult hearts. Journal of Molecular and Cellular Cardiology, 2022, 170, 47-59.	0.9	5
3	Thyroid hormone plus dual-specificity phosphatase-5 siRNA increases the number of cardiac muscle cells and improves left ventricular contractile function in chronic doxorubicin-injured hearts. Theranostics, 2021, 11, 4790-4808.	4.6	8
4	Mechanism-Based Cardiac Regeneration Strategies in Mammals. Frontiers in Cell and Developmental Biology, 2021, 9, 747842.	1.8	4
5	Pressure overload by suprarenal aortic constriction in mice leads to left ventricular hypertrophy without c-Kit expression in cardiomyocytes. Scientific Reports, 2020, 10, 15318.	1.6	12
6	Role of DJâ€1 in Modulating Glycative Stress in Heart Failure. Journal of the American Heart Association, 2020, 9, e014691.	1.6	26
7	DUSP5 expression in left ventricular cardiomyocytes of young hearts regulates thyroid hormone (T3)-induced proliferative ERK1/2 signaling. Scientific Reports, 2020, 10, 21918.	1.6	13
8	Redox activation of JNK2Î±2 mediates thyroid hormone-stimulated proliferation of neonatal murine cardiomyocytes. Scientific Reports, 2019, 9, 17731.	1.6	17
9	Comparative regenerative mechanisms across different mammalian tissues. Npj Regenerative Medicine, 2018, 3, 6.	2.5	157
10	Cardiac hypertrophy limits infarct expansion after myocardial infarction in mice. Scientific Reports, 2018, 8, 6114.	1.6	13
11	Impact of Lymphangiogenesis on Cardiac Remodeling After Ischemia and Reperfusion Injury. Journal of the American Heart Association, 2018, 7, e009565.	1.6	43
12	Sodium Sulfide Attenuates Ischemic-Induced Heart Failure by Enhancing Proteasomal Function in an Nrf2-Dependent Manner. Circulation: Heart Failure, 2016, 9, e002368.	1.6	51
13	DJ-1 protects the heart against ischemiaâ€“reperfusion injury by regulating mitochondrial fission. Journal of Molecular and Cellular Cardiology, 2016, 97, 56-66.	0.9	79
14	IGF-1 degradation by mouse mast cell protease 4 promotes cell death and adverse cardiac remodeling days after a myocardial infarction. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6949-6954.	3.3	36
15	Cardiomyocytes Replicate and their Numbers Increase in Young Hearts. Cell, 2015, 163, 783-784.	13.5	14
16	CD163 interacts with TWEAK to regulate tissue regeneration after ischaemic injury. Nature Communications, 2015, 6, 7792.	5.8	75
17	Thyroid hormone action in postnatal heart development. Stem Cell Research, 2014, 13, 582-591.	0.3	68
18	A Proliferative Burst during Preadolescence Establishes the Final Cardiomyocyte Number. Cell, 2014, 157, 795-807.	13.5	233

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19	Inflammation, Oxidation and Venous Neointimal Hyperplasia Precede Vascular Injury from AVF Creation in CKD Patients. Journal of Vascular Access, 2012, 13, 168-174.	0.5	81
20	Impact of Mast Cell Chymase on Renal Disease Progression. Current Hypertension Reviews, 2012, 8, 15-23.	0.5	33
21	Increased Plasma Chymase Concentration and Mast Cell Chymase Expression in Venous Neointimal Lesions of Patients with CKD and ESRD. Seminars in Dialysis, 2011, 24, 688-693.	0.7	22
22	Dynamic molecular and histopathological changes in the extracellular matrix and inflammation in the transition to heart failure in isolated volume overload. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 300, H2251-H2260.	1.5	64
23	Chymase Inhibition Prevents Fibronectin and Myofibrillar Loss and Improves Cardiomyocyte Function and LV Torsion Angle in Dogs With Isolated Mitral Regurgitation. Circulation, 2010, 122, 1488-1495.	1.6	44
24	Rapid Reversal of Left Ventricular Hypertrophy and Intracardiac Volume Overload in Patients With Resistant Hypertension and Hyperaldosteronism. Hypertension, 2010, 55, 1137-1142.	1.3	137
25	GTP Cyclohydrolase I Phosphorylation and Interaction With GTP Cyclohydrolase Feedback Regulatory Protein Provide Novel Regulation of Endothelial Tetrahydrobiopterin and Nitric Oxide. Circulation Research, 2010, 106, 328-336.	2.0	51
26	Tumor necrosis factor-Î± produced in cardiomyocytes mediates a predominant myocardial inflammatory response to stretch in early volume overload. Journal of Molecular and Cellular Cardiology, 2010, 49, 70-78.	0.9	52
27	Mast cell chymase limits the cardiac efficacy of Ang Iâ€"converting enzyme inhibitor therapy in rodents. Journal of Clinical Investigation, 2010, 120, 1229-1239.	3.9	128
28	Microarray Identifies Extensive Downregulation of Noncollagen Extracellular Matrix and Profibrotic Growth Factor Genes in Chronic Isolated Mitral Regurgitation in the Dog. Circulation, 2009, 119, 2086-2095.	1.6	84
29	Insights into the Characteristics of Mammalian Cardiomyocyte Terminal Differentiation Shown Through the Study of Mice with a Dysfunctional c-Kit. Pediatric Cardiology, 2009, 30, 651-658.	0.6	20
30	c-kit Is Required for Cardiomyocyte Terminal Differentiation. Circulation Research, 2008, 102, 677-685.	2.0	82
31	Alternate mRNA Splicing in Multiple Human Tryptase Genes Is Predicted to Regulate Tetramer Formation. Journal of Biological Chemistry, 2008, 283, 34178-34187.	1.6	11
32	Upregulation of cardiac interstitial chymase after canine myocardial ischemia and reperfusion. FASEB Journal, 2008, 22, 730.28.	0.2	2
33	Genomeâ€wide expression profiling of a rat acute volume overload model identifies a major inflammatory response associated with extracellular matrix homeostasis disorder. FASEB Journal, 2008, 22, 923.4.	0.2	0
34	Extensive Downregulation of Matrix Scaffolding Genes and TGFâ€beta in Isolated Mitral Regurgitation in the Dog. FASEB Journal, 2008, 22, 1155.8.	0.2	0
35	VALIDD should not invalidate angiotensin-receptor blockers. Lancet, The, 2007, 369, 2053-2054.	6.3	5
36	Left Ventricular Eccentric Remodeling and Matrix Loss Are Mediated by Bradykinin and Precede Cardiomyocyte Elongation in Rats With Volume Overload. Journal of the American College of Cardiology, 2007, 49, 811-821.	1.2	120

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37	Mast Cells Modulate Cardiac Interstitial Angiotensin II levels by Regulating Interstitial ACE But Not Chymase Activity in Conscious Mice. FASEB Journal, 2007, 21, A870.	0.2	0
38	The molecular basis for the selection of captopril cis and trans conformations by angiotensin I converting enzyme. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 5084-5087.	1.0	13
39	Heart failure, chronic diuretic use, and increase in mortality and hospitalization: an observational study using propensity score methods. European Heart Journal, 2006, 27, 1431-1439.	1.0	398
40	Î²1-Adrenoceptor blockade mitigates excessive norepinephrine release into cardiac interstitium in mitral regurgitation in dog. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H147-H151.	1.5	34
41	Mechanism of allosteric regulation of transglutaminase 2 by GTP. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19683-19688.	3.3	136
42	Molecular Basis of Exopeptidase Activity in the C-terminal Domain of Human Angiotensin I-converting Enzyme. Journal of Biological Chemistry, 2005, 280, 6669-6675.	1.6	19
43	Involvement of chymase-mediated angiotensin II generation in blood pressure regulation. Journal of Clinical Investigation, 2004, 114, 112-120.	3.9	83
44	Involvement of chymase-mediated angiotensin II generation in blood pressure regulation. Journal of Clinical Investigation, 2004, 114, 112-120.	3.9	50
45	A Despecialization Step Underlying Evolution of a Family of Serine Proteases. Molecular Cell, 2003, 12, 343-354.	4.5	71
46	Do Studies With ACE N- and C-Domainâ€"Selective Inhibitors Provide Evidence for a Non-ACE, Non-Chymase Angiotensin IIâ€"Forming Pathway?. Circulation Research, 2003, 93, 91-93.	2.0	14
47	Evolutionary specialization of a tryptophan indole group for transition-state stabilization by eukaryotic transglutaminases. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12636-12641.	3.3	49
48	Î´ Tryptase Is Expressed in Multiple Human Tissues, and a Recombinant Form Has Proteolytic Activity. Journal of Immunology, 2002, 169, 5145-5152.	0.4	40
49	Dissecting the role of chymase in angiotensin II formation and heart and blood vessel diseases. Current Opinion in Cardiology, 2002, 17, 374-379.	0.8	76
50	Pathophysiologic and therapeutic importance of tissue ACE: a consensus report. Cardiovascular Drugs and Therapy, 2002, 16, 149-160.	1.3	118
51	Changes in zinc ligation promote remodeling of the active site in the zinc hydrolase superfamily. Journal of Molecular Biology, 2001, 314, 1191-1207.	2.0	35
52	The relevance of tissue angiotensin-converting enzyme: manifestations in mechanistic and endpoint data. American Journal of Cardiology, 2001, 88, 1-20.	0.7	202
53	Targeted Inactivation of Gh/Tissue Transglutaminase II. Journal of Biological Chemistry, 2001, 276, 20673-20678.	1.6	263
54	Arg1098 Is Critical for the Chloride Dependence of Human Angiotensin I-converting Enzyme C-domain Catalytic Activity. Journal of Biological Chemistry, 2001, 276, 33518-33525.	1.6	50

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55	Angiotensin I-converting Enzyme Transition State Stabilization by His1089. Journal of Biological Chemistry, 2001, 276, 4998-5004.	1.6	32
56	Role of Aromaticity of Agonist Switches of Angiotensin II in the Activation of the AT1 Receptor. Journal of Biological Chemistry, 1999, 274, 7103-7110.	1.6	92
57	Mechanism of Constitutive Activation of the AT1Receptor:Â Influence of the Size of the Agonist Switch Binding Residue Asn111â€. Biochemistry, 1998, 37, 15791-15798.	1.2	86
58	Distinct Multisite Synergistic Interactions Determine Substrate Specificities of Human Chymase and Rat Chymase-1 for Angiotensin II Formation and Degradation. Journal of Biological Chemistry, 1997, 272, 2963-2968.	1.6	72
59	Selective Reporter Expression in Mast Cells Using a Chymase Promoter. Journal of Biological Chemistry, 1997, 272, 2969-2976.	1.6	12
60	The Active State of the AT1Angiotensin Receptor Is Generated by Angiotensin II Inductionâ€. Biochemistry, 1996, 35, 16435-16442.	1.2	149
61	Angiotensin II-Forming Activity in a Reconstructed Ancestral Chymase. Science, 1996, 271, 502-505.	6.0	191
62	The Docking of Arg2 of Angiotensin II with Asp281 of AT1 Receptor Is Essential for Full Agonism. Journal of Biological Chemistry, 1995, 270, 12846-12850.	1.6	144
63	Human Prochymase Activation. Journal of Biological Chemistry, 1995, 270, 2218-2223.	1.6	56
64	Tetrazole and Carboxylate Groups of Angiotensin Receptor Antagonists Bind to the Same Subsite by Different Mechanisms. Journal of Biological Chemistry, 1995, 270, 2284-2289.	1.6	142
65	Proposed Update of Angiotensin Receptor Nomenclature. Hypertension, 1995, 25, 924-927.	1.3	189
66	Gh: a GTP-binding protein with transglutaminase activity and receptor signaling function. Science, 1994, 264, 1593-1596.	6.0	572
67	The chymase-angiotensin system in humans. Journal of Hypertension, 1993, 11, 1155???1160.	0.3	65
68	Cellular localization and regional distribution of an angiotensin II-forming chymase in the heart.. Journal of Clinical Investigation, 1993, 91, 1269-1281.	3.9	362
69	Rat Ovarian Angiotensin II Receptors, Renin, and Angiotensin I-Converting Enzyme during Pregnancy and the Postpartum Period1. Biology of Reproduction, 1992, 47, 925-930.	1.2	12
70	Nomenclature for angiotensin receptors. A report of the Nomenclature Committee of the Council for High Blood Pressure Research.. Hypertension, 1991, 17, 720-721.	1.3	388
71	Biochemical Properties of the Ovarian Granulosa Cell Type 2-Angiotensin II Receptor*. Endocrinology, 1991, 128, 1947-1959.	1.4	215
72	Angiotensin II-forming pathways in normal and failing human hearts.. Circulation Research, 1990, 66, 883-890.	2.0	552

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73	Characterization of Angiotensin I-Converting Enzyme (ACE)-Containing Follicles in the Rat Ovary during the Estrous Cycle and Effects of ACE Inhibitor on Ovulation*. Endocrinology, 1990, 126, 2927-2935.	1.4	43
74	Angiotensin II Receptors in Normal and Failing Human Hearts*. Journal of Clinical Endocrinology and Metabolism, 1989, 69, 54-66.	1.8	153
75	Measurement of immunoreactive angiotensin peptides in rat tissues: Some pitfalls in angiotensin II analysis. Analytical Biochemistry, 1988, 174, 80-87.	1.1	56
76	Distribution of Angiotensin-Converting Enzyme and Angiotensin II-Receptor Binding Sites in the Rat Ovary1. Biology of Reproduction, 1988, 38, 695-702.	1.2	66
77	Evidence for Selective Expression of Angiotensin II Receptors on Atretic Follicles in the Rat Ovary: An Autoradiographic Study*. Endocrinology, 1988, 122, 2727-2734.	1.4	87
78	Angiotensin II: An Intraovarian Regulatory Peptide. American Journal of the Medical Sciences, 1988, 295, 406-408.	0.4	47
79	Rat Ovarian Renin: Characterization and Changes during the Estrous Cycle*. Endocrinology, 1988, 123, 2331-2340.	1.4	44
80	Report of the Joint Nomenclature and Standardization Committee of the International Society of Hypertension, American Heart Association and the World Health Organization. Journal of Hypertension, 1987, 5, 507.	0.3	13
81	Cellular organization of the brain renin-angiotensin system. Life Sciences, 1987, 41, 1867-1879.	2.0	42
82	Basal and potassium-evoked release of angiotensin II from the rat hypothalamus. Brain Research, 1986, 397, 193-196.	1.1	11
83	Identificaion of angiotensin II receptors in the rat ovary. European Journal of Pharmacology, 1986, 130, 351-352.	1.7	37
84	Characterization of Receptors for Angiotensin-Induced Drinking and Blood Pressure Responses in Conscious Rats using Angiotensin Analogs Extended at the N-Terminal. Neuroendocrinology, 1986, 42, 289-295.	1.2	5
85	Restricted Dietary Sodium Intake Alters Peripheral but Not Central Angiotensin II Receptors. Neuroendocrinology, 1984, 38, 387-392.	1.2	21
86	Biochemical and Immunological Properties of Dog Brain Isorenin*. Endocrinology, 1984, 114, 2210-2215.	1.4	10
87	Preparation and one-step purification of mono-125I-angiotensin II for radioligand binding assays. Journal of Pharmacological Methods, 1984, 11, 137-150.	0.7	16
88	Rat brain angiotensin II receptors: Effects of intracerebroventricular angiotensin II infusion. Brain Research, 1984, 303, 133-139.	1.1	28
89	Brain renin: localization in rat brain synaptosomal fractions. Brain Research, 1981, 222, 182-186.	1.1	24
90	A simple microassay for the estimation of renin concentration in plasma. Journal of Pharmacological Methods, 1980, 4, 115-125.	0.7	3