

Saumya Das

List of Publications by Year in descending order

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Version: 2024-02-01

121
papers

14,723
citations

53751

45
h-index

20343

116
g-index

127
all docs

127
docs citations

127
times ranked

21867
citing authors

#	ARTICLE	IF	CITATIONS
1	Minimal information for studies of extracellular vesicles 2018 (MISEV2018): a position statement of the International Society for Extracellular Vesicles and update of the MISEV2014 guidelines. Journal of Extracellular Vesicles, 2018, 7, 1535750.	5.5	6,961
2	Amyloid-associated proteins β 1-antichymotrypsin and apolipoprotein E promote assembly of Alzheimer β 2-protein into filaments. Nature, 1994, 372, 92-94.	13.7	909
3	Obstacles and opportunities in the functional analysis of extracellular vesicle RNA – an ISEV position paper. Journal of Extracellular Vesicles, 2017, 6, 1286095.	5.5	561
4	Increased NMDA current and spine density in mice lacking the NMDA receptor subunit NR3A. Nature, 1998, 393, 377-381.	13.7	542
5	Treatment of Obstructive Sleep Apnea Reduces the Risk of Atrial Fibrillation Recurrence After Catheter Ablation. Journal of the American College of Cardiology, 2013, 62, 300-305.	1.2	365
6	exRNA Atlas Analysis Reveals Distinct Extracellular RNA Cargo Types and Their Carriers Present across Human Biofluids. Cell, 2019, 177, 463-477.e15.	13.5	228
7	Small RNA Sequencing across Diverse Biofluids Identifies Optimal Methods for exRNA Isolation. Cell, 2019, 177, 446-462.e16.	13.5	214
8	MicroRNA Therapeutics: the Next Magic Bullet?. Mini-Reviews in Medicinal Chemistry, 2015, 15, 467-474.	1.1	194
9	Characterization and Comparison of the NR3A Subunit of the NMDA Receptor in Recombinant Systems and Primary Cortical Neurons. Journal of Neurophysiology, 2002, 87, 2052-2063.	0.9	174
10	Expression of the Alzheimer amyloid-promoting factor antichymotrypsin is induced in human astrocytes by IL-1. Neuron, 1995, 14, 447-456.	3.8	171
11	Diverse human extracellular RNAs are widely detected in human plasma. Nature Communications, 2016, 7, 11106.	5.8	170
12	The Extracellular RNA Communication Consortium: Establishing Foundational Knowledge and Technologies for Extracellular RNA Research. Cell, 2019, 177, 231-242.	13.5	152
13	Circulating MicroRNA-30d Is Associated With Response to Cardiac Resynchronization Therapy in Heart Failure and Regulates Cardiomyocyte Apoptosis. Circulation, 2015, 131, 2202-2216.	1.6	137
14	Exercise-induced circulating extracellular vesicles protect against cardiac ischemia–reperfusion injury. Basic Research in Cardiology, 2017, 112, 38.	2.5	135
15	Crucial Role of miR-433 in Regulating Cardiac Fibrosis. Theranostics, 2016, 6, 2068-2083.	4.6	134
16	Abnormal myocardial insulin signalling in type 2 diabetes and left-ventricular dysfunction. European Heart Journal, 2010, 31, 100-111.	1.0	133
17	Association of Fitness in Young Adulthood With Survival and Cardiovascular Risk. JAMA Internal Medicine, 2016, 176, 87.	2.6	115
18	miRNA Signatures of Insulin Resistance in Obesity. Obesity, 2017, 25, 1734-1744.	1.5	110

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19	Extracellular Vesicles in Cardiovascular Theranostics. <i>Theranostics</i> , 2017, 7, 4168-4182.	4.6	108
20	Quantification of Cardiomyocyte Hypertrophy by Cardiac Magnetic Resonance. <i>Circulation</i> , 2013, 128, 1225-1233.	1.6	105
21	Activation of Utrophin Promoter by Heregulin via the β -catenin-related Transcription Factor Complex GA-binding Protein 1/2. <i>Molecular Biology of the Cell</i> , 1999, 10, 2075-2086.	0.9	104
22	Mutation in the S3 segment of KCNQ1 results in familial lone atrial fibrillation. <i>Heart Rhythm</i> , 2009, 6, 1146-1153.	0.3	104
23	MicroRNAs in Heart Failure. <i>Circulation: Heart Failure</i> , 2014, 7, 203-214.	1.6	96
24	Pathological Role of Serum- and Glucocorticoid-Regulated Kinase 1 in Adverse Ventricular Remodeling. <i>Circulation</i> , 2012, 126, 2208-2219.	1.6	91
25	Ventricular Arrhythmia Following Alcohol Septal Ablation for Obstructive Hypertrophic Cardiomyopathy. <i>American Journal of Cardiology</i> , 2009, 104, 128-132.	0.7	89
26	Multidisciplinary care of patients receiving cardiac resynchronization therapy is associated with improved clinical outcomes. <i>European Heart Journal</i> , 2012, 33, 2181-2188.	1.0	86
27	Impact of segmental left ventricle lead position on cardiac resynchronization therapy outcomes. <i>Heart Rhythm</i> , 2010, 7, 639-644.	0.3	81
28	Mir-30d Regulates Cardiac Remodeling by Intracellular and Paracrine Signaling. <i>Circulation Research</i> , 2021, 128, e1-e23.	2.0	81
29	Extracellular RNAs Are Associated With Insulin Resistance and Metabolic Phenotypes. <i>Diabetes Care</i> , 2017, 40, 546-553.	4.3	73
30	Extracellular RNAs: development as biomarkers of human disease. <i>Journal of Extracellular Vesicles</i> , 2015, 4, 27495.	5.5	72
31	Evaluation of commercially available small RNAseq library preparation kits using low input RNA. <i>BMC Genomics</i> , 2018, 19, 331.	1.2	70
32	Visualizing sodium dynamics in isolated cardiomyocytes using fluorescent nanosensors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 16145-16150.	3.3	67
33	Long Noncoding RNA Cardiac Physiological Hypertrophy-Associated Regulator Induces Cardiac Physiological Hypertrophy and Promotes Functional Recovery After Myocardial Ischemia-Reperfusion Injury. <i>Circulation</i> , 2021, 144, 303-317.	1.6	67
34	Traditional Chinese Medication Qiliqiangxin attenuates cardiac remodeling after acute myocardial infarction in mice. <i>Scientific Reports</i> , 2015, 5, 8374.	1.6	64
35	Comparison of Reproducibility, Accuracy, Sensitivity, and Specificity of miRNA Quantification Platforms. <i>Cell Reports</i> , 2019, 29, 4212-4222.e5.	2.9	64
36	High Throughput Sequencing of Extracellular RNA from Human Plasma. <i>PLoS ONE</i> , 2017, 12, e0164644.	1.1	63

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37	Noncoding RNAs in Cardiovascular Disease: Current Knowledge, Tools and Technologies for Investigation, and Future Directions: A Scientific Statement From the American Heart Association. <i>Circulation Genomic and Precision Medicine</i> , 2020, 13, e000062.	1.6	61
38	Catheter Ablation of Peri-AV Nodal Atrial Tachycardia from the Noncoronary Cusp of the Aortic Valve. <i>Journal of Cardiovascular Electrophysiology</i> , 2008, 19, 231-237.	0.8	60
39	Diurnal Variations of Circulating Extracellular Vesicles Measured by Nano Flow Cytometry. <i>PLoS ONE</i> , 2016, 11, e0144678.	1.1	58
40	Circulating miR-21, miR-378, and miR-940 increase in response to an acute exhaustive exercise in chronic heart failure patients. <i>Oncotarget</i> , 2016, 7, 12414-12425.	0.8	57
41	Cathelicidin-related antimicrobial peptide protects against myocardial ischemia/reperfusion injury. <i>BMC Medicine</i> , 2019, 17, 42.	2.3	56
42	Overexpression of KCNN3 results in sudden cardiac death. <i>Cardiovascular Research</i> , 2014, 101, 326-334.	1.8	54
43	Ideal Cardiovascular Health, Cardiovascular Remodeling, and Heart Failure in Blacks. <i>Circulation: Heart Failure</i> , 2017, 10, .	1.6	54
44	Plasma Circulating Extracellular RNAs in Left Ventricular Remodeling Post-Myocardial Infarction. <i>EBioMedicine</i> , 2018, 32, 172-181.	2.7	52
45	Meeting report: discussions and preliminary findings on extracellular RNA measurement methods from laboratories in the NIH Extracellular RNA Communication Consortium. <i>Journal of Extracellular Vesicles</i> , 2015, 4, 26533.	5.5	51
46	Circular RNAs as Potential Theranostics in the Cardiovascular System. <i>Molecular Therapy - Nucleic Acids</i> , 2018, 13, 407-418.	2.3	50
47	Circulating miR-30d Predicts Survival in Patients with Acute Heart Failure. <i>Cellular Physiology and Biochemistry</i> , 2017, 41, 865-874.	1.1	48
48	IncExACT1 and DCHS2 Regulate Physiological and Pathological Cardiac Growth. <i>Circulation</i> , 2022, 145, 1218-1233.	1.6	43
49	Advances, challenges, and opportunities in extracellular RNA biology: insights from the NIH exRNA Strategic Workshop. <i>JCI Insight</i> , 2018, 3, .	2.3	41
50	Extracellular Vesicles and Their Emerging Roles as Cellular Messengers in Endocrinology: An Endocrine Society Scientific Statement. <i>Endocrine Reviews</i> , 2022, 43, 441-468.	8.9	40
51	DDIT4L promotes autophagy and inhibits pathological cardiac hypertrophy in response to stress. <i>Science Signaling</i> , 2017, 10, .	1.6	39
52	Extracellular Vesicles in Heart Disease: Excitement for the Future ?. <i>Exosomes and Microvesicles</i> , 2014, 2, 1.	1.9	38
53	ADAR2 increases in exercised heart and protects against myocardial infarction and doxorubicin-induced cardiotoxicity. <i>Molecular Therapy</i> , 2022, 30, 400-414.	3.7	36
54	Small RNA-seq during acute maximal exercise reveal RNAs involved in vascular inflammation and cardiometabolic health: brief report. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 313, H1162-H1167.	1.5	34

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55	Transitions in Metabolic Risk and Longâ€Term Cardiovascular Health: Coronary Artery Risk Development in Young Adults (CARDIA) Study. Journal of the American Heart Association, 2016, 5, .	1.6	33
56	PDK4 Inhibits Cardiac Pyruvate Oxidation in Late Pregnancy. Circulation Research, 2017, 121, 1370-1378.	2.0	33
57	Associations of Circulating Extracellular RNAs With Myocardial Remodeling and Heart Failure. JAMA Cardiology, 2018, 3, 871.	3.0	33
58	Comparison of treatment options for depression in heart failure: A network meta-analysis. Journal of Psychiatric Research, 2019, 108, 7-23.	1.5	33
59	Enhanced neuronal death from focal ischemia in AMPA-receptor transgenic mice. Molecular Brain Research, 1997, 52, 235-241.	2.5	32
60	MicroRNAs Associated With Reverse Left Ventricular Remodeling in Humans Identify Pathways of Heart Failure Progression. Circulation: Heart Failure, 2018, 11, e004278.	1.6	32
61	miR-31a-5p promotes postnatal cardiomyocyte proliferation by targeting RhoBTB1. Experimental and Molecular Medicine, 2017, 49, e386-e386.	3.2	31
62	Trust, learning, and vaccination: a case study of a North Indian village. Social Science and Medicine, 2003, 57, 97-112.	1.8	30
63	The Involvement of Proteases, Protease Inhibitors, and an Acute Phase Response in Alzheimer's Disease. Annals of the New York Academy of Sciences, 1992, 674, 161-173.	1.8	29
64	CITED4 Protects Against Adverse Remodeling in Response to Physiological and Pathological Stress. Circulation Research, 2020, 127, 631-646.	2.0	29
65	Potential functional applications of extracellular vesicles: a report by the NIH Common Fund Extracellular RNA Communication Consortium. Journal of Extracellular Vesicles, 2015, 4, 27575.	5.5	28
66	Effect of cytokines, dexamethazone and the A/T-signal peptide polymorphism on the expression of alpha1-antichymotrypsin in astrocytes: significance for Alzheimer's disease. Neurochemistry International, 2001, 39, 361-370.	1.9	27
67	Isolation, Culture, and Functional Characterization of Adult Mouse Cardiomyocytes. Journal of Visualized Experiments, 2013, , e50289.	0.2	27
68	Characterization and oncolytic virus targeting of FAP-expressing tumor-associated pericytes in glioblastoma. Acta Neuropathologica Communications, 2020, 8, 221.	2.4	26
69	Developmental SHP2 dysfunction underlies cardiac hypertrophy in Noonan syndrome with multiple lentigines. Journal of Clinical Investigation, 2016, 126, 2989-3005.	3.9	26
70	Timing of delayed perforation with the St. Jude Riata lead: A single-center experience and a review of the literature. Heart Rhythm, 2008, 5, 1667-1672.	0.3	25
71	Neuronal activity triggers uptake of hematopoietic extracellular vesicles in vivo. PLoS Biology, 2020, 18, e3000643.	2.6	25
72	Inhibition of serum and glucocorticoid regulated kinase-1 as novel therapy for cardiac arrhythmia disorders. Scientific Reports, 2017, 7, 346.	1.6	22

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73	Circulating miRNAs and Risk of Sudden Death in Patients With Coronary Heart Disease. JACC: Clinical Electrophysiology, 2020, 6, 70-79.	1.3	21
74	Development of dilated cardiomyopathy and impaired calcium homeostasis with cardiac-specific deletion of ESRP2. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 312, H662-H671.	1.5	20
75	Extracellular vesicular microRNAs as potential biomarker for early detection of doxorubicin-induced cardiotoxicity. Journal of Veterinary Internal Medicine, 2020, 34, 1260-1271.	0.6	20
76	Association of Multiorgan Computed Tomographic Phenomap With Adverse Cardiovascular Health Outcomes. JAMA Cardiology, 2017, 2, 1236.	3.0	19
77	Distinct Stress-Dependent Signatures of Cellular and Extracellular tRNA-Derived Small RNAs. Advanced Science, 2022, 9, e2200829.	5.6	19
78	Ion-Selective Optodes Measure Extracellular Potassium Flux in Excitable Cells. Macromolecular Rapid Communications, 2010, 31, 217-221.	2.0	18
79	Wide Complex Tachycardia Recorded With a Smartphone Cardiac Rhythm Monitor. JAMA Internal Medicine, 2015, 175, 437.	2.6	18
80	Heme oxygenase and carbon monoxide protect from muscle dystrophy. Skeletal Muscle, 2016, 6, 41.	1.9	18
81	A Novel Transgenic Mouse Model of Cardiac Hypertrophy and Atrial Fibrillation. Journal of Atrial Fibrillation, 2012, 4, 415.	0.5	17
82	Usefulness of Hemoglobin A1c to Predict Outcome After Cardiac Resynchronization Therapy in Patients With Diabetes Mellitus and Heart Failure. American Journal of Cardiology, 2012, 110, 683-688.	0.7	16
83	Profiling Extracellular Long RNA Transcriptome in Human Plasma and Extracellular Vesicles for Biomarker Discovery. iScience, 2020, 23, 101182.	1.9	16
84	Y RNAs: Biogenesis, Function and Implications for the Cardiovascular System. Advances in Experimental Medicine and Biology, 2020, 1229, 327-342.	0.8	16
85	Epithelial X-Box Binding Protein 1 Coordinates Tumor Protein p53-Driven DNA Damage Responses and Suppression of Intestinal Carcinogenesis. Gastroenterology, 2022, 162, 223-237.e11.	0.6	15
86	Targeting miR-30d reverses pathological cardiac hypertrophy. EBioMedicine, 2022, 81, 104108.	2.7	15
87	Possible Susceptibility Genes for Intervention against Chemotherapy-Induced Cardiotoxicity. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-30.	1.9	13
88	Hepatic steatosis is associated with cardiometabolic risk in a rural Indian population: A prospective cohort study. International Journal of Cardiology, 2016, 225, 161-166.	0.8	11
89	Isolation of Extracellular RNA from Serum/Plasma. Methods in Molecular Biology, 2018, 1740, 43-57.	0.4	11
90	A Novel Tissue Atlas and Online Tool for the Interrogation of Small RNA Expression in Human Tissues and Biofluids. Frontiers in Cell and Developmental Biology, 2022, 10, 804164.	1.8	11

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91	Multiple ICD Discharges Associated with Lead Fracture Without Triggering of High Impedance Alert. PACE - Pacing and Clinical Electrophysiology, 2009, 32, 543-546.	0.5	10
92	Accelerated in Vivo Cardiac Diffusion-Tensor MRI Using Residual Deep Learningâ€‘based Denoising in Participants with Obesity. Radiology: Cardiothoracic Imaging, 2021, 3, e200580.	0.9	10
93	A nanoparticle probe for the imaging of autophagic flux in live mice via magnetic resonance and near-infrared fluorescence. Nature Biomedical Engineering, 2022, 6, 1045-1056.	11.6	10
94	Virtual multidisciplinary care for heart failure patients with cardiac resynchronization therapy devices during the Coronavirus Disease 2019 pandemic. IJC Heart and Vasculature, 2021, 34, 100811.	0.6	9
95	SnRNA sequencing defines signaling by RBC-derived extracellular vesicles in the murine heart. Life Science Alliance, 2021, 4, e202101048.	1.3	9
96	Programmable siRNA pro-drugs that activate RNAi activity in response to specific cellular RNA biomarkers. Molecular Therapy - Nucleic Acids, 2022, 27, 797-809.	2.3	9
97	Circulating MicroRNAs. Journal of the American College of Cardiology, 2019, 73, 1314-1316.	1.2	7
98	Gaining Efficiency in Clinical Trials With Cardiac Biomarkers. Journal of the American College of Cardiology, 2021, 77, 1922-1933.	1.2	7
99	Combination Biomarkers for Risk Stratification in Patients with Chronic Heart Failure Biomarkers Prognostication in HF. Journal of Cardiac Failure, 2021, 27, 1321-1327.	0.7	7
100	Your Father and Grandfatherâ€™s Atrial Fibrillation: A Review of the Genetics of the Most Common Pathologic Cardiac Dysrhythmia. Current Genomics, 2015, 16, 75-81.	0.7	7
101	Left ventricular wall thickness assessed by cardiac computed tomography and cardiac resynchronization therapy outcomes. Europace, 2020, 22, 401-411.	0.7	6
102	Impact of Tricuspid Regurgitation and Prior Coronary Bypass Surgery on the Geometry of the Coronary Sinus: A Rotational Coronary Angiography Study. Journal of Cardiovascular Electrophysiology, 2010, 21, 436-440.	0.8	5
103	Pseudo-atrial fibrillation due to non-reentrant AV nodal tachycardia. Europace, 2010, 12, 36-36.	0.7	5
104	Improving sudden cardiac death risk stratification by evaluating electrocardiographic measures of global electrical heterogeneity and clinical outcomes among patients with implantable cardioverter-defibrillators: rationale and design for a retrospective, multicenter, cohort study. Journal of Interventional Cardiac Electrophysiology, 2018, 52, 77-89.	0.6	4
105	A snapshot of genetic and epigenetic basis of arrhythmia and heart failure. Frontiers in Genetics, 2015, 6, 74.	1.1	3
106	Extracellular RNA Isolation from Cell Culture Supernatant. Methods in Molecular Biology, 2018, 1740, 23-34.	0.4	3
107	Unraveling the CNOT: A new player in the autophagyâ€‘cell death nexus. Science Signaling, 2018, 11, .	1.6	3
108	Neuregulin Effect on Quantal Content Dissociated From Effect on Miniature Endplate Potential Amplitude. Journal of Neurophysiology, 2006, 96, 671-676.	0.9	2

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109	ST segment elevations in a patient with neutropenic fever. European Journal of Internal Medicine, 2017, 40, e7-e8.	1.0	2
110	Utility of Computed Tomography to Predict Ventricular Arrhythmias in Patients With Nonischemic Cardiomyopathy Receiving Cardiac Resynchronization Therapy. American Journal of Cardiology, 2020, 125, 607-612.	0.7	2
111	TRACE-seq: A transgenic system for unbiased and non-invasive transcriptome profiling of living cells. IScience, 2022, 25, 103806.	1.9	2
112	Non-coding RNAs in cardiac remodeling: diversity in composition and function. Current Opinion in Physiology, 2022, 26, 100534.	0.9	2
113	Optical nanosensors for intracellular sodium analysis. , 2008, , .		1
114	A 54-Year-Old Woman With a Single Coronary Artery and Watershed Ischemia Treated With Nitrates. JACC: Cardiovascular Interventions, 2015, 8, e91-e94.	1.1	1
115	Response to Letter Regarding Article, "Circulating MicroRNA-30d Is Associated With Response to Cardiac Resynchronization Therapy in Heart Failure and Regulates Cardiomyocyte Apoptosis: A Translational Pilot Study" Circulation, 2016, 133, e389-e390.	1.6	1
116	Making a sPLAsh: The expanding repertoire of EV signaling. Cell Metabolism, 2022, 34, 508-510.	7.2	1
117	Sex-Specific Differences in Ventricular Remodeling and Response After Cardiac Resynchronization Therapy. American Journal of Cardiology, 2022, , .	0.7	1
118	Delayed Heart Block After Temporary Balloon Occlusion of a Secundum Atrial Septal Defect. Circulation: Arrhythmia and Electrophysiology, 2008, 1, 405-406.	2.1	0
119	Reply. JACC: Clinical Electrophysiology, 2020, 6, 244-245.	1.3	0
120	Aortic Diseases. , 2006, , 116-120.		0
121	<i>Science Signaling</i> Podcast for 28 February 2017: Balancing autophagy in the stressed heart. Science Signaling, 2017, 10, .	1.6	0