Sasha A Singh

List of Publications by Year
in descending order

70 papers	2,703 citations	257450 24 h-index	197818 49 g-index
78 all docs	78 docs citations	78 times ranked	4401 citing authors

#	Article	IF	Citations
1	Overlapping and non-redundant functions of the Arabidopsis auxin response factors MONOPTEROS and NONPHOTOTROPIC HYPOCOTYL 4. Development (Cambridge), 2004, 131, 1089-1100.	2.5	302
2	PARP9 and PARP14 cross-regulate macrophage activation via STAT1 ADP-ribosylation. Nature Communications, 2016, 7, 12849.	12.8	214
3	Sortilin mediates vascular calcification via its recruitment into extracellular vesicles. Journal of Clinical Investigation, 2016, 126, 1323-1336.	8.2	196
4	Interaction of survival of motor neuron (SMN) and HuD proteins with mRNA cpg15 rescues motor neuron axonal deficits. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10337-10342.	7.1	185
5	Spatiotemporal Multi-Omics Mapping Generates a Molecular Atlas of the Aortic Valve and Reveals Networks Driving Disease. Circulation, 2018, 138, 377-393.	1.6	180
6	The impact of PARPs and ADP-ribosylation on inflammation and hostâ€“pathogen interactions. Genes and Development, 2020, 34, 341-359.	5.9	157
7	Uremic Toxin Indoxyl Sulfate Promotes Proinflammatory Macrophage Activation Via the Interplay of OATP2B1 and Dll4-Notch Signaling. Circulation, 2019, 139, 78-96.	1.6	126
8	Tiki1 Is Required for Head Formation via Wnt Cleavage-Oxidation and Inactivation. Cell, 2012, 149, 1565-1577.	28.9	125
9	FLEXIQuant: A Novel Tool for the Absolute Quantification of Proteins, and the Simultaneous Identification and Quantification of Potentially Modified Peptides. Journal of Proteome Research, 2009, 8, 2201-2210.	3.7	109
10	¹⁸ F-Fluoride Signal Amplification Identifies Microcalcifications Associated With Atherosclerotic Plaque Instability in Positron Emission Tomography/Computed Tomography Images. Circulation: Cardiovascular Imaging, 2019, 12, e007835.	2.6	92
11	Structure ofArabidopsisDehydroquinate Dehydratase-Shikimate Dehydrogenase and Implications for Metabolic Channeling in the Shikimate Pathwayâ€,â€¡. Biochemistry, 2006, 45, 7787-7796.	2.5	72
12	Co-regulation proteomics reveals substrates and mechanisms of APC/C-dependent degradation. EMBO Journal, 2014, 33, 385-399.	7.8	72
13	Endophenotype Network Models: Common Core of Complex Diseases. Scientific Reports, 2016, 6, 27414.	3.3	72
14	Annexin A1â€“dependent tethering promotes extracellular vesicle aggregation revealed with singleâ€“extracellular vesicle analysis. Science Advances, 2020, 6, .	10.3	65
15	S100A9-RAGE Axis Accelerates Formation of Macrophage-Mediated Extracellular Vesicle Microcalcification in Diabetes Mellitus. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 1838-1853.	2.4	52
16	Standardization of Human Calcific Aortic Valve Disease in vitro Modeling Reveals Passage-Dependent Calcification. Frontiers in Cardiovascular Medicine, 2019, 6, 49.	2.4	49
17	Enrichment of calcifying extracellular vesicles using densityâ€based ultracentrifugation protocol. Journal of Extracellular Vesicles, 2014, 3, 25129.	12.2	39
18	New CETP inhibitor K-312 reduces PCSK9 expression: a potential effect on LDL cholesterol metabolism. American Journal of Physiology - Endocrinology and Metabolism, 2015, 309, E177-E190.	3.5	38

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19	Cystathionine Î³-lyase Accelerates Osteoclast Differentiation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 626-634.	2.4	37
20	Multiple apolipoprotein kinetics measured in human HDL by high-resolution/accurate mass parallel reaction monitoring. Journal of Lipid Research, 2016, 57, 714-728.	4.2	35
21	Sphingosine 1-phosphate-regulated transcriptomes in heterogenous arterial and lymphatic endothelium of the aorta. ELife, 2020, 9, .	6.0	34
22	Crystal Structure of a Novel Shikimate Dehydrogenase from Haemophilus influenzae. Journal of Biological Chemistry, 2005, 280, 17101-17108.	3.4	33
23	ApoC-III is a novel inducer of calcification in human aortic valves. Journal of Biological Chemistry, 2021, 296, 100193.	3.4	28
24	FLEXIQinase, a mass spectrometryâ€“based assay, to unveil multikinase mechanisms. Nature Methods, 2012, 9, 504-508.	19.0	26
25	A Study into the ADP-Ribosylome of IFN-Î³-Stimulated THP-1 Human Macrophage-like Cells Identifies ARTD8/PARP14 and ARTD9/PARP9 ADP-Ribosylation. Journal of Proteome Research, 2019, 18, 1607-1622.	3.7	21
26	Systems Approach to Discovery of Therapeutic Targets for Vein Graft Disease: PPARÎ± Pivotally Regulates Metabolism, Activation, and Heterogeneity of Macrophages and Lesion Development. Circulation, 2021, 143, 2454-2470.	1.6	21
27	A Phylogenomic Analysis of the Shikimate Dehydrogenases Reveals Broadscale Functional Diversification and Identifies One Functionally Distinct Subclass. Molecular Biology and Evolution, 2008, 25, 2221-2232.	8.9	20
28	Crystal Structure of Prephenate Dehydrogenase from Aquifex aeolicus. Journal of Biological Chemistry, 2006, 281, 12919-12928.	3.4	19
29	A Practical Guide to the FLEXIQuant Method. Methods in Molecular Biology, 2012, 893, 295-319.	0.9	19
30	Second Heart Fieldâ€“Derived Cells Contribute to Angiotensin IIâ€“Mediated Ascending Aortopathies. Circulation, 2022, 145, 987-1001.	1.6	18
31	CROT (Carnitine O-Octanoyltransferase) Is a Novel Contributing Factor in Vascular Calcification via Promoting Fatty Acid Metabolism and Mitochondrial Dysfunction. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 755-768.	2.4	17
32	The DHQ-dehydroshikimate-SDH-shikimate-NADP(H) Complex: Insights into Metabolite Transfer in the Shikimate Pathway,. Crystal Growth and Design, 2007, 7, 2153-2160.	3.0	16
33	Dynamin-related protein 1 inhibition reduces hepatic PCSK9 secretion. Cardiovascular Research, 2021, 117, 2340-2353.	3.8	16
34	A disease-driver population within interstitial cells of human calcific aortic valves identified via single-cell and proteomic profiling. Cell Reports, 2022, 39, 110685.	6.4	16
35	Biochemical characterization of prephenate dehydrogenase from the hyperthermophilic bacteriumAquifex aeolicus. Protein Science, 2006, 15, 1417-1432.	7.6	15
36	Unbiased and targeted mass spectrometry for the HDL proteome. Current Opinion in Lipidology, 2017, 28, 68-77.	2.7	15

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37	Effects of Replacing Dietary Monounsaturated Fat With Carbohydrate on HDL (High-Density) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf and Vascular Biology, 2019, 39, 2411-2430.	2.4	15
38	XINA: A Workflow for the Integration of Multiplexed Proteomics Kinetics Data with Network Analysis. Journal of Proteome Research, 2019, 18, 775-781.	3.7	13
39	Metabolism of PLTP, CETP, and LCAT on multiple HDL sizes using the Orbitrap Fusion Lumos. JCI Insight, 2021, 6, .	5.0	12
40	Lipoprotein(a) Induces Vesicular Cardiovascular Calcification Revealed With Single-Extracellular Vesicle Analysis. Frontiers in Cardiovascular Medicine, 2022, 9, 778919.	2.4	12
41	Prothymosin Alpha: A Novel Contributor to Estradiol Receptor Alphaâ€“Mediated CD8 ⁺ T-Cell Pathogenic Responses and Recognition of Type 1 Collagen in Rheumatic Heart Valve Disease. Circulation, 2022, 145, 531-548.	1.6	12
42	Current Trends and Future Perspectives of State-of-the-Art Proteomics Technologies Applied to Cardiovascular Disease Research. Circulation Journal, 2016, 80, 1674-1683.	1.6	11
43	Context-enriched interactome powered by proteomics helps the identification of novel regulators of macrophage activation. ELife, 2018, 7, .	6.0	11
44	A simple and effective method for detecting phosphopeptides for phosphoproteomic analysis. Journal of Proteomics, 2009, 72, 831-835.	2.4	8
45	mIMT-visHTS: A novel method for multiplexing isobaric mass tagged datasets with an accompanying visualization high throughput screening tool for protein profiling. Journal of Proteomics, 2015, 128, 132-140.	2.4	7
46	Mass spectrometry meets the challenge of understanding the complexity of the lipoproteome: recent findings regarding proteins involved in dyslipidemia and cardiovascular disease. Expert Review of Proteomics, 2015, 12, 519-532.	3.0	7
47	Highly Selective PPARÎ± (Peroxisome Proliferatorâ€Activated Receptor Î±) Agonist Pemafibrate Inhibits Stent Inflammation and Restenosis Assessed by Multimodality Molecularâ€Microstructural Imaging. Journal of the American Heart Association, 2021, 10, e020834.	3.7	7
48	A Novel Spectral Annotation Strategy Streamlines Reporting of Mono-ADP-ribosylated Peptides Derived from Mouse Liver and Spleen in Response to IFN-Î³. Molecular and Cellular Proteomics, 2022, 21, 100153.	3.8	5
49	Calcific Aortic Valve Disease â€œOmicsâ€• Is Timely, But Are We Looking Too Late?. JACC Basic To Translational Science, 2020, 5, 1178-1180.	4.1	5
50	Computational Screening Strategy for Drug Repurposing Identified Niclosamide as Inhibitor of Vascular Calcification. Frontiers in Cardiovascular Medicine, 2021, 8, 826529.	2.4	5
51	Automation of PRMâ€dependent D3â€Leu tracer enrichment in HDL to study the metabolism of apoAâ€I, LCAT and other apolipoproteins. Proteomics, 2017, 17, 1600085.	2.2	4
52	Multiorgan Systems Study Reveals Igfbp7 as a Suppressor of Gluconeogenesis after Gastric Bypass Surgery. Journal of Proteome Research, 2020, 19, 129-143.	3.7	4
53	Elastogenesis Correlates With Pigment Production in Murine Aortic Valve Leaflets. Frontiers in Cardiovascular Medicine, 2021, 8, 678401.	2.4	4
54	The RiboMaP Spectral Annotation Method Applied to Various ADP-Ribosylome Studies Including INF-Î³-Stimulated Human Cells and Mouse Tissues. Frontiers in Cardiovascular Medicine, 2022, 9, 851351.	2.4	3

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55	Abstract MP41: A Diet High in Carbohydrate and Low in Fat Alters the HDL Proteome and Metabolism of 9 HDL Proteins in Humans. Circulation, 2019, 139, .	1.6	1
56	Inside Front Cover: PRM technology enables detection and reliable automated quantification of low tracer incorporation into circulating apolipoproteins for HDL metabolism studies. Proteomics, 2017, 17, 1770014.	2.2	0
57	The Application of High Throughput Mass Spectrometry to the Analysis of Glycoproteins. , 2010, , 103-125.		0
58	Abstract 18687: PARP9 and PARP14 are Novel Regulators of Macrophage Activation. Circulation, 2014, 130, .	1.6	0
59	Abstract 322: HDL Dynamics in Circulation: Complexity of Protein Distribution and Metabolism Across HDL Size. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, .	2.4	0
60	Abstract 538: Metabolism of Multiple Apolipoproteins Across HDL Size in Humans. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, .	2.4	0
61	Abstract 608: Integrated Omics and Network Analysis Identify Drivers of Calcific Bicuspid Aortic Valve Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, .	2.4	0
62	Abstract 166: Effects of Dietary Unsaturated Fat and Carbohydrate on the HDL Proteome and Metabolism of 9 HDL Proteins Across 6 HDL Size Fractions in Humans. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, .	2.4	0
63	Abstract 663: Nuclear RSK1 Induces Pro-inflammatory Activation of Macrophages through STAT1 Phosphorylation at Ser727. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, .	2.4	0
64	Abstract 175: Dynamin-Related Protein 1 Regulates Proteostasis and Proprotein Convertase Subtilisin/Kexin Type 9 Secretion. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, .	2.4	0
65	Abstract 708: Using Global Proteomics and Network Science to Explore Therapeutic Targets for Abdominal Aortic Aneurysm (AAA). Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, .	2.4	0
66	Abstract 329: Systems-based Target Discovery Reveals PPARa as a Key Metabolic Regulator for Macrophage Activation in Vein Graft Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, .	2.4	0
67	Abstract 228: Multi-omics Mapping Generates a Molecular Atlas of the Aortic Valve and Reveals Networks Driving Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, .	2.4	0
68	Integration of Functional Imaging, Cytometry, and Unbiased Proteomics Reveals New Features of Endothelial-to-Mesenchymal Transition in Ischemic Mitral Valve Regurgitation in Human Patients. Frontiers in Cardiovascular Medicine, 2021, 8, 688396.	2.4	0
69	Abstract 13401: Prothymosin Alpha (ProtÎ±) Associates With Pathogenesis and Sex Predisposition in Rheumatic Heart Valve Disease. Circulation, 2020, 142, .	1.6	0
70	Promise of a Novel Bedside-to-Bench Paradigm: Can Percutaneous Coronary Intervention Proteomics Balloon Into Clinical Practice?. Arteriosclerosis, Thrombosis, and Vascular Biology, 0, , .	2.4	0