Kennith W Witwer

List of Publications by Year
in descending order

126 papers	21,695 citations	36203 51 h-index	16127 124 g-index
145 all docs	145 docs citations	145 times ranked	23900 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	Minimal experimental requirements for definition of extracellular vesicles and their functions: a position statement from the International Society for Extracellular Vesicles. Journal of Extracellular Vesicles, 2014, 3, 26913.	5.5	2,110
3	Standardization of sample collection, isolation and analysis methods in extracellular vesicle research. Journal of Extracellular Vesicles, 2013, 2, .	5.5	1,837
4	EV-TRACK: transparent reporting and centralizing knowledge in extracellular vesicle research. Nature Methods, 2017, 14, 228-232.	9.0	886
5	Techniques used for the isolation and characterization of extracellular vesicles: results of a worldwide survey. Journal of Extracellular Vesicles, 2016, 5, 32945.	5.5	703
6	Obstacles and opportunities in the functional analysis of extracellular vesicle RNA â€“ an ISEV position paper. Journal of Extracellular Vesicles, 2017, 6, 1286095.	5.5	561
7	Circulating MicroRNA Biomarker Studies: Pitfalls and Potential Solutions. Clinical Chemistry, 2015, 61, 56-63.	1.5	407
8	Defining mesenchymal stromal cell (MSC)â€derived small extracellular vesicles for therapeutic applications. Journal of Extracellular Vesicles, 2019, 8, 1609206.	5.5	400
9	Extracellular vesicles or exosomes? On primacy, precision, and popularity influencing a choice of nomenclature. Journal of Extracellular Vesicles, 2019, 8, 1648167.	5.5	377
10	EVpedia: a community web portal for extracellular vesicles research. Bioinformatics, 2015, 31, 933-939.	1.8	317
11	Concise Review: Developing Best-Practice Models for the Therapeutic Use of Extracellular Vesicles. Stem Cells Translational Medicine, 2017, 6, 1730-1739.	1.6	247
12	Extracellular Vesicles Exploit Viral Entry Routes for Cargo Delivery. Microbiology and Molecular Biology Reviews, 2016, 80, 369-386.	2.9	207
13	Methods for Separation and Characterization of Extracellular Vesicles: Results of a Worldwide Survey Performed by the ISEV Rigor and Standardization Subcommittee. Cells, 2020, 9, 1955.	1.8	205
14	Astrocyte-shed extracellular vesicles regulate the peripheral leukocyte response to inflammatory brain lesions. Science Signaling, 2017, 10, .	1.6	199
15	Age-Related Changes in Plasma Extracellular Vesicle Characteristics and Internalization by Leukocytes. Scientific Reports, 2017, 7, 1342.	1.6	193
16	Assessment of small RNA sorting into different extracellular fractions revealed by high-throughput sequencing of breast cell lines. Nucleic Acids Research, 2015, 43, 5601-5616.	6.5	190
17	Updating the MISEV minimal requirements for extracellular vesicle studies: building bridges to reproducibility. Journal of Extracellular Vesicles, 2017, 6, 1396823.	5.5	185
18	Urinary extracellular vesicles: A position paper by the Urine Task Force of the International Society for Extracellular Vesicles. Journal of Extracellular Vesicles, 2021, 10, e12093.	5.5	182

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19	Biological membranes in EV biogenesis, stability, uptake, and cargo transfer: an ISEV position paper arising from the ISEV membranes and EVs workshop. Journal of Extracellular Vesicles, 2019, 8, 1684862.	5.5	177
20	Extracellular vesicles versus synthetic nanoparticles for drug delivery. Nature Reviews Materials, 2021, 6, 103-106.	23.3	175
21	Real-time quantitative PCR and droplet digital PCR for plant miRNAs in mammalian blood provide little evidence for general uptake of dietary miRNAs. RNA Biology, 2013, 10, 1080-1086.	1.5	173
22	MicroRNA Regulation of IFN-Î² Protein Expression: Rapid and Sensitive Modulation of the Innate Immune Response. Journal of Immunology, 2010, 184, 2369-2376.	0.4	167
23	The power of imaging to understand extracellular vesicle biology in vivo. Nature Methods, 2021, 18, 1013-1026.	9.0	163
24	A brief history of nearly EVâ€erything â€“ The rise and rise of extracellular vesicles. Journal of Extracellular Vesicles, 2021, 10, e12144.	5.5	150
25	Updating MISEV: Evolving the minimal requirements for studies of extracellular vesicles. Journal of Extracellular Vesicles, 2021, 10, e12182.	5.5	147
26	Comparison of Methods for miRNA Extraction from Plasma and Quantitative Recovery of RNA from Cerebrospinal Fluid. Frontiers in Genetics, 2013, 4, 83.	1.1	143
27	Relationships of PBMC microRNA expression, plasma viral load, and CD4+ T-cell count in HIV-1-infected elite suppressors and viremic patients. Retrovirology, 2012, 9, 5.	0.9	140
28	TNFÎ± and IL-1Î² modify the miRNA cargo of astrocyte shed extracellular vesicles to regulate neurotrophic signaling in neurons. Cell Death and Disease, 2018, 9, 363.	2.7	135
29	Toward the promise of microRNAs â€“ Enhancing reproducibility and rigor in microRNA research. RNA Biology, 2016, 13, 1103-1116.	1.5	128
30	Critical considerations for the development of potency tests for therapeutic applications of mesenchymal stromal cell-derived small extracellular vesicles. Cytotherapy, 2021, 23, 373-380.	0.3	125
31	Extracellular vesicleâ€“depleted fetal bovine and human sera have reduced capacity to support cell growth. Journal of Extracellular Vesicles, 2015, 4, 26373.	5.5	117
32	Highly Purified Human Extracellular Vesicles Produced by Stem Cells Alleviate Aging Cellular Phenotypes of Senescent Human Cells. Stem Cells, 2019, 37, 779-790.	1.4	111
33	Transfer and functional consequences of dietary microRNAs in vertebrates: Concepts in search of corroboration. BioEssays, 2014, 36, 394-406.	1.2	106
34	XenomiRs and miRNA homeostasis in health and disease. RNA Biology, 2012, 9, 1147-1154.	1.5	104
35	Senescence cellâ€“associated extracellular vesicles serve as osteoarthritis disease and therapeutic markers. JCI Insight, 2019, 4, .	2.3	103
36	Extracellular vesicle-associated AÎ² mediates trans-neuronal bioenergetic and Ca2+-handling deficits in Alzheimerâ€™s disease models. Npj Aging and Mechanisms of Disease, 2016, 2, .	4.5	102

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37	Characterization of extracellular vesicles and synthetic nanoparticles with four orthogonal singleâ€particle analysis platforms. Journal of Extracellular Vesicles, 2021, 10, e12079.	5.5	97
38	Comprehensive evaluation of methods for small extracellular vesicles separation from human plasma, urine and cell culture medium. Journal of Extracellular Vesicles, 2020, 10, e12044.	5.5	97
39	Considerations towards a roadmap for collection, handling and storage of blood extracellular vesicles. Journal of Extracellular Vesicles, 2019, 8, 1647027.	5.5	96
40	International Society for Extracellular Vesicles and International Society for Cell and Gene Therapy statement on extracellular vesicles from mesenchymal stromal cells and other cells: considerations for potential therapeutic agents to suppress coronavirus disease-19. Cytotherapy, 2020, 22, 482-485.	0.3	94
41	Coordinated Regulation of SIV Replication and Immune Responses in the CNS. PLoS ONE, 2009, 4, e8129.	1.1	88
42	Influence of species and processing parameters on recovery and content of brain tissueâ€derived extracellular vesicles. Journal of Extracellular Vesicles, 2020, 9, 1785746.	5.5	72
43	MicroRNA Expression and Association with Clinicopathologic Features in Papillary Thyroid Cancer: A Systematic Review. Thyroid, 2015, 25, 1322-1329.	2.4	71
44	Uptake of dietary milk miRNAs by adult humans: a validation study. F1000Research, 2016, 5, 721.	0.8	71
45	Towards defining reference materials for measuring extracellular vesicle refractive index, epitope abundance, size and concentration. Journal of Extracellular Vesicles, 2020, 9, 1816641.	5.5	70
46	Induction of HIF-1Î± by HIV-1 Infection in CD4 ⁺ T Cells Promotes Viral Replication and Drives Extracellular Vesicle-Mediated Inflammation. MBio, 2018, 9, .	1.8	68
47	Human perivascular stem cell-derived extracellular vesicles mediate bone repair. ELife, 2019, 8, .	2.8	65
48	Ribonucleic artefacts: are some extracellular RNA discoveries driven by cell culture medium components?. Journal of Extracellular Vesicles, 2017, 6, 1272832.	5.5	63
49	A plasma microRNA signature of acute lentiviral infection. Aids, 2011, 25, 2057-2067.	1.0	62
50	Summary of the ISEV workshop on extracellular vesicles as disease biomarkers, held in Birmingham, UK, during December 2017. Journal of Extracellular Vesicles, 2018, 7, 1473707.	5.5	60
51	A bacterial extracellular vesicleâ€based intranasal vaccine against SARSâ€CoVâ€2 protects against disease and elicits neutralizing antibodies to wildâ€type and Delta variants. Journal of Extracellular Vesicles, 2022, 11, e12192.	5.5	60
52	Functional assays to assess the therapeutic potential of extracellular vesicles. Journal of Extracellular Vesicles, 2020, 10, e12033.	5.5	54
53	Validated MicroRNA Target Databases: An Evaluation. Drug Development Research, 2015, 76, 389-396.	1.4	50
54	Association of BRAF^{V600E} Mutation and MicroRNA Expression with Central Lymph Node Metastases in Papillary Thyroid Cancer: A Prospective Study from Four Endocrine Surgery Centers. Thyroid, 2016, 26, 532-542.	2.4	50

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55	Diet-derived microRNAs: unicorn or silver bullet?. Genes and Nutrition, 2017, 12, 15.	1.2	47
56	Revisiting Extracellular RNA Release, Processing, and Function. Trends in Biochemical Sciences, 2021, 46, 438-445.	3.7	46
57	Towards mechanisms and standardization in extracellular vesicle and extracellular RNA studies: results of a worldwide survey. Journal of Extracellular Vesicles, 2018, 7, 1535745.	5.5	45
58	Therapeutic effects of adipose-tissue-derived mesenchymal stromal cells and their extracellular vesicles in experimental silicosis. Respiratory Research, 2018, 19, 104.	1.4	44
59	Acetylcholinesterase is not a generic marker of extracellular vesicles. Journal of Extracellular Vesicles, 2019, 8, 1628592.	5.5	44
60	Extracellular vesicles and chronic inflammation during HIV infection. Journal of Extracellular Vesicles, 2019, 8, 1687275.	5.5	44
61	Methods for the identification and characterization of extracellular vesicles in cardiovascular studies: from exosomes to microvesicles. Cardiovascular Research, 2023, 119, 45-63.	1.8	44
62	Circulating extracellular vesicle content reveals de novo DNA methyltransferase expression as a molecular method to predict septic shock. Journal of Extracellular Vesicles, 2019, 8, 1669881.	5.5	43
63	Highly efficient magnetic labelling allows MRI tracking of the homing of stem cellâ€derived extracellular vesicles following systemic delivery. Journal of Extracellular Vesicles, 2021, 10, e12054.	5.5	43
64	Stable tRNA halves can be sorted into extracellular vesicles and delivered to recipient cells in a concentration-dependent manner. RNA Biology, 2020, 17, 1168-1182.	1.5	42
65	Data Submission and Quality in Microarray-Based MicroRNA Profiling. Clinical Chemistry, 2013, 59, 392-400.	1.5	41
66	Advances, challenges, and opportunities in extracellular RNA biology: insights from the NIH exRNA Strategic Workshop. JCI Insight, 2018, 3, .	2.3	41
67	Serum extracellular vesicle depletion processes affect release and infectivity of HIV-1 in culture. Scientific Reports, 2017, 7, 2558.	1.6	40
68	L1CAMâ€associated extracellular vesicles: A systematic review of nomenclature, sources, separation, and characterization. , 2022, 1, .		39
69	Highlights of the SÃ£o Paulo ISEV workshop on extracellular vesicles in crossâ€kingdom communication. Journal of Extracellular Vesicles, 2017, 6, 1407213.	5.5	38
70	An SIV/macaque model targeted to study HIV-associated neurocognitive disorders. Journal of NeuroVirology, 2018, 24, 204-212.	1.0	38
71	Diet-Responsive Mammalian miRNAs Are Likely Endogenous. Journal of Nutrition, 2014, 144, 1880-1881.	1.3	37
72	Rigor and standardization of extracellular vesicle research: Paving the road towards robustness. Journal of Extracellular Vesicles, 2020, 10, e12037.	5.5	37

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73	Unbiased proteomic profiling of host cell extracellular vesicle composition and dynamics upon HIVâ€1 infection. EMBO Journal, 2021, 40, e105492.	3.5	36
74	miRNA Profiles of Monocyte-Lineage Cells Are Consistent with Complicated Roles in HIV-1 Restriction. Viruses, 2012, 4, 1844-1864.	1.5	31
75	Elevated Brain Monoamine Oxidase Activity in SIV- and HIV-associated Neurological Disease. Journal of Infectious Diseases, 2014, 210, 904-912.	1.9	31
76	Alternative miRNAs? Human sequences misidentified as plant miRNAs in plant studies and in human plasma. F1000Research, 2018, 7, 244.	0.8	31
77	Contamination or artifacts may explain reports of plant miRNAs in humans. Journal of Nutritional Biochemistry, 2015, 26, 1685.	1.9	30
78	Opposing impacts on healthspan and longevity by limiting dietary selenium in telomere dysfunctional mice. Aging Cell, 2017, 16, 125-135.	3.0	30
79	SIV replication is directly downregulated by four antiviral miRNAs. Retrovirology, 2013, 10, 95.	0.9	28
80	Human and Cow Have Identical miR-21-5p and miR-30a-5p Sequences, Which Are Likely Unsuited to Study Dietary Uptake from Cow Milk. Journal of Nutrition, 2018, 148, 1506-1507.	1.3	26
81	Reproducibility of extracellular vesicle research. European Journal of Cell Biology, 2022, 101, 151226.	1.6	26
82	Quinolinic acid/tryptophan ratios predict neurological disease in SIV-infected macaques and remain elevated in the brain under cART. Journal of NeuroVirology, 2015, 21, 449-463.	1.0	25
83	Paving the path to HIV neurotherapy: Predicting SIV CNS disease. European Journal of Pharmacology, 2015, 759, 303-312.	1.7	25
84	Re: â€œExosomes Derived from Bone Marrow Mesenchymal Stem Cells as Treatment for Severe COVID-19â€• by Sengupta et al.. Stem Cells and Development, 2020, 29, 877-878.	1.1	24
85	Extracellular vesicle interplay in cardiovascular pathophysiology. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H1749-H1761.	1.5	23
86	Dietary flaxseed modulates the miRNA profile in irradiated and non-irradiated murine lungs. Cancer Biology and Therapy, 2014, 15, 930-937.	1.5	22
87	miRNAs in platelet-poor blood plasma and purified RNA are highly stable: a confirmatory study. BMC Research Notes, 2018, 11, 273.	0.6	22
88	Release of extracellular vesicle miR-494-3p by ARPE-19 cells with impaired mitochondria. Biochimica Et Biophysica Acta - General Subjects, 2021, 1865, 129598.	1.1	22
89	Nipping disease in the bud: nSMase2 inhibitors as therapeutics in extracellular vesicle-mediated diseases. Drug Discovery Today, 2021, 26, 1656-1668.	3.2	21
90	Acute Hepatitis C Virus Infection Induces Consistent Changes in Circulating MicroRNAs That Are Associated with Nonlytic Hepatocyte Release. Journal of Virology, 2015, 89, 9454-9464.	1.5	19

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91	Human perivascular stem cells prevent bone graft resorption in osteoporotic contexts by inhibiting osteoclast formation. Stem Cells Translational Medicine, 2020, 9, 1617-1630.	1.6	19
92	Exomeres and supermeres: Monolithic or diverse?. , 2022, 1, .		19
93	Induction of Innate Immune Responses by SIV In Vivo and In Vitro: Differential Expression and Function of RIG-I and MDA5. Journal of Infectious Diseases, 2011, 204, 1104-1114.	1.9	18
94	Do Platform-Specific Factors Explain MicroRNA Profiling Disparities?. Clinical Chemistry, 2012, 58, 472-474.	1.5	17
95	Plant microRNAs in human sera are likely contaminants. Journal of Nutritional Biochemistry, 2019, 65, 139-140.	1.9	17
96	Nonâ€Invasive imaging of extracellular vesicles: Quo vaditis in vivo?. Journal of Extracellular Vesicles, 2022, 11, .	5.5	15
97	Evidence for miRNA expression differences of HIV-1â€“positive, treatment-naive patients and elite suppressors: a re-analysis. Blood, 2012, 119, 6395-6396.	0.6	14
98	Tristetraprolin expression and microRNA-mediated regulation during simian immunodeficiency virus infection of the central nervous system. Molecular Brain, 2013, 6, 40.	1.3	14
99	Isolation of HDL by sequential flotation ultracentrifugation followed by size exclusion chromatography reveals size-based enrichment of HDL-associated proteins. Scientific Reports, 2021, 11, 16086.	1.6	13
100	Hitting the Bullseye: Are extracellular vesicles on target?. Journal of Extracellular Vesicles, 2020, 10, e12032.	5.5	11
101	Neutral sphingomyelinase 2 inhibition attenuates extracellular vesicle release and improves neurobehavioral deficits in murine HIV. Neurobiology of Disease, 2022, 169, 105734.	2.1	11
102	Potential role of cervicovaginal extracellular particles in diagnosis of endometriosis. BMC Veterinary Research, 2015, 11, 187.	0.7	10
103	How does an RNA selfie work? EVâ€associated RNA in innate immunity as self or danger. Journal of Extracellular Vesicles, 2020, 9, 1793515.	5.5	10
104	Mutant Cas9-transcriptional activator activates HIV-1 in U1 cells in the presence and absence of LTR-specific guide RNAs. Matters, 2017, 2017, .	1.0	10
105	SAMHD1 expression in blood cells of HIV-1 elite suppressors and viraemic progressors. Journal of Antimicrobial Chemotherapy, 2015, 70, 954-956.	1.3	9
106	SAMHD1 transcript upregulation during SIV infection of the central nervous system does not associate with reduced viral load. Scientific Reports, 2016, 6, 22629.	1.6	7
107	Modeling brain lentiviral infections during antiretroviral therapy in AIDS. Journal of NeuroVirology, 2017, 23, 577-586.	1.0	7
108	Cigarette smoke-induced extracellular vesicles from dendritic cells alter T-cell activation and HIV replication. Toxicology Letters, 2022, 360, 33-43.	0.4	7

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109	A benchmark for microRNA quantification algorithms using the OpenArray platform. BMC Bioinformatics, 2016, 17, 138.	1.2	6
110	miRNA profiling of primate cervicovaginal lavage and extracellular vesicles reveals miRâ€186â€5p as a potential antiretroviral factor in macrophages. FEBS Open Bio, 2020, 10, 2021-2039.	1.0	6
111	The evolving paradigm of extracellular vesicles in intercellular signaling and delivery of therapeutic RNAs. Molecular Therapy, 2022, 30, 2393-2394.	3.7	6
112	OpenArray profiling reveals no differential modulation of miRNA by positive and negative CD4+ T cell immunoselection. Experimental Hematology, 2014, 42, 11-13.	0.2	4
113	Hypothetical Plant-Mammal Small RNA CommunicationCommunication : Packaging and Stoichiometry. , 2016, , 161-176.		3
114	Weiss Response to Sengupta et al. (DOI: 10.1089/scd.2020.0095). Stem Cells and Development, 2020, 29, 1533-1534.	1.1	3
115	Dietary RNA is ripe for investigation. Nature, 2020, 582, S9-S9.	13.7	3
116	miRNAs and SAMHD1 regulation in vitro and in a model of HIV CNS disease. Journal of Neuroinflammation, 2015, 12, 159.	3.1	2
117	Developing Treatments for Alzheimerâ€™s and Related Disorders with Precision Medicine: A Vision. Advances in Experimental Medicine and Biology, 2021, 1339, 395-402.	0.8	2
118	HIV-1 Tat- and Vpr-responsive MicroRNAs of Neuronal Cells. Journal of Biological Chemistry, 2014, 289, 3104.	1.6	1
119	Announcing the ISEV2019 special achievement award recipients: Takahiro Ochiya and Marca Wauben. Journal of Extracellular Vesicles, 2019, 8, 1620080.	5.5	1
120	On your MARCKS, get set, deliver: Engineering extracellular vesicles. Molecular Therapy, 2021, 29, 1664-1665.	3.7	1
121	Isolation and Characterization of Extracellular Vesicles in Stem Cell-Related Studies. Neuromethods, 2017, , 205-223.	0.2	1
122	Cytotoxicity of aqueous cigarette smoke extract is affected by properties of pipettes used to prepare the extract. Matters, 2019, 2019, .	1.0	1
123	Circulating Extracellular Micrornas In Hereditary Angioedema. Journal of Allergy and Clinical Immunology, 2014, 133, AB32.	1.5	0
124	TRIM19-Positive and TRIM19-Negative Cells in and Around a Perivascular Cuff of CD68-Positive Macrophages. AIDS Research and Human Retroviruses, 2014, 30, 333-334.	0.5	0
125	Swarming and Aggregation in the Parasitic Diplomonad Flagellate Spironucleus vortens. Journal of Eukaryotic Microbiology, 2019, 66, 545-552.	0.8	0
126	Announcing the ISEV2020 special achievement award recipients: Andrew Hill and Edit BuzÃ¡s; and the recipient of the ISEV2020 special education award: Carolina Soekmadji. Journal of Extracellular Vesicles, 2020, 10, e12021.	5.5	0