

Pieter Vader

List of Publications by Citations

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69
papers

11,488
citations

35
h-index

74
g-index

74
ext. papers

15,558
ext. citations

11.5
avg, IF

6.3
L-index

#	Paper	IF	Citations
69	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. <i>Journal of Extracellular Vesicles</i> , 2018 , 7, 1535750	16.4	3642
68	Applying extracellular vesicles based therapeutics in clinical trials - an ISEV position paper. <i>Journal of Extracellular Vesicles</i> , 2015 , 4, 30087	16.4	722
67	Extracellular vesicle in vivo biodistribution is determined by cell source, route of administration and targeting. <i>Journal of Extracellular Vesicles</i> , 2015 , 4, 26316	16.4	711
66	Extracellular vesicles for drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2016 , 106, 148-156	18.5	561
65	Cells release subpopulations of exosomes with distinct molecular and biological properties. <i>Scientific Reports</i> , 2016 , 6, 22519	4.9	523
64	Cellular stress conditions are reflected in the protein and RNA content of endothelial cell-derived exosomes. <i>Journal of Extracellular Vesicles</i> , 2012 , 1,	16.4	392
63	Extracellular Vesicle Heterogeneity: Subpopulations, Isolation Techniques, and Diverse Functions in Cancer Progression. <i>Frontiers in Immunology</i> , 2018 , 9, 738	8.4	343
62	Ultrafiltration with size-exclusion liquid chromatography for high yield isolation of extracellular vesicles preserving intact biophysical and functional properties. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015 , 11, 879-83	6	338
61	Electroporation-induced siRNA precipitation obscures the efficiency of siRNA loading into extracellular vesicles. <i>Journal of Controlled Release</i> , 2013 , 172, 229-238	11.7	333
60	Microvesicles and exosomes: opportunities for cell-derived membrane vesicles in drug delivery. <i>Journal of Controlled Release</i> , 2012 , 161, 635-44	11.7	290
59	Extracellular vesicles as drug delivery systems: lessons from the liposome field. <i>Journal of Controlled Release</i> , 2014 , 195, 72-85	11.7	287
58	Extracellular vesicles: emerging targets for cancer therapy. <i>Trends in Molecular Medicine</i> , 2014 , 20, 385-93	11.5	277
57	Exosome mimetics: a novel class of drug delivery systems. <i>International Journal of Nanomedicine</i> , 2012 , 7, 1525-41	7.3	258
56	PEGylated and targeted extracellular vesicles display enhanced cell specificity and circulation time. <i>Journal of Controlled Release</i> , 2016 , 224, 77-85	11.7	254
55	Extracellular vesicles as drug delivery systems: Why and how?. <i>Advanced Drug Delivery Reviews</i> , 2020 , 159, 332-343	18.5	229
54	Extracellular vesicle-based therapeutics: natural versus engineered targeting and trafficking. <i>Experimental and Molecular Medicine</i> , 2019 , 51, 1-12	12.8	224
53	Cellular uptake of extracellular vesicles is mediated by clathrin-independent endocytosis and macropinocytosis. <i>Journal of Controlled Release</i> , 2017 , 266, 100-108	11.7	208

52	Display of GPI-anchored anti-EGFR nanobodies on extracellular vesicles promotes tumour cell targeting. <i>Journal of Extracellular Vesicles</i> , 2016 , 5, 31053	16.4	190
51	Higher functionality of extracellular vesicles isolated using size-exclusion chromatography compared to ultracentrifugation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017 , 13, 2061-2065	6.6	162
50	Drug Delivery with Extracellular Vesicles: From Imagination to Innovation. <i>Accounts of Chemical Research</i> , 2019 , 52, 1761-1770	24.3	112
49	Functional Delivery of Lipid-Conjugated siRNA by Extracellular Vesicles. <i>Molecular Therapy</i> , 2017 , 25, 1580-1587	11.7	99
48	Biological membranes in EV biogenesis, stability, uptake, and cargo transfer: an ISEV position paper arising from the ISEV membranes and EVs workshop. <i>Journal of Extracellular Vesicles</i> , 2019 , 8, 1684862	16.4	97
47	C9orf72 and RAB7L1 regulate vesicle trafficking in amyotrophic lateral sclerosis and frontotemporal dementia. <i>Brain</i> , 2017 , 140, 887-897	11.2	94
46	Serum-free culture alters the quantity and protein composition of neuroblastoma-derived extracellular vesicles. <i>Journal of Extracellular Vesicles</i> , 2015 , 4, 26883	16.4	85
45	Extracellular vesicles for nucleic acid delivery: progress and prospects for safe RNA-based gene therapy. <i>Gene Therapy</i> , 2017 , 24, 157-166	4	84
44	State-of-the-Art Design and Rapid-Mixing Production Techniques of Lipid Nanoparticles for Nucleic Acid Delivery. <i>Small Methods</i> , 2018 , 2, 1700375	12.8	74
43	Extracellular microRNAs are dynamic non-vesicular biomarkers of muscle turnover. <i>Nucleic Acids Research</i> , 2013 , 41, 9500-13	20.1	68
42	Physicochemical and biological evaluation of siRNA polyplexes based on PEGylated Poly(amido amine)s. <i>Pharmaceutical Research</i> , 2012 , 29, 352-61	4.5	65
41	Recombinant phosphatidylserine-binding nanobodies for targeting of extracellular vesicles to tumor cells: a plug-and-play approach. <i>Nanoscale</i> , 2018 , 10, 2413-2426	7.7	64
40	A CRISPR-Cas9-based reporter system for single-cell detection of extracellular vesicle-mediated functional transfer of RNA. <i>Nature Communications</i> , 2020 , 11, 1113	17.4	56
39	Optimization of poly(amido amine)s as vectors for siRNA delivery. <i>Journal of Controlled Release</i> , 2011 , 150, 177-86	11.7	44
38	Disulfide-based poly(amido amine)s for siRNA delivery: effects of structure on siRNA complexation, cellular uptake, gene silencing and toxicity. <i>Pharmaceutical Research</i> , 2011 , 28, 1013-22	4.5	42
37	Injectable Supramolecular Ureidopyrimidinone Hydrogels Provide Sustained Release of Extracellular Vesicle Therapeutics. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1900847	10.1	36
36	Examining the role of Rac1 in tumor angiogenesis and growth: a clinically relevant RNAi-mediated approach. <i>Angiogenesis</i> , 2011 , 14, 457-66	10.6	36
35	Extracellular Vesicle-Associated Proteins in Tissue Repair. <i>Trends in Cell Biology</i> , 2020 , 30, 990-1013	18.3	36

34	Cardiac Progenitor Cell-Derived Extracellular Vesicles Reduce Infarct Size and Associate with Increased Cardiovascular Cell Proliferation. <i>Journal of Cardiovascular Translational Research</i> , 2019 , 12, 5-17	3.3	32
33	A method for quantifying cellular uptake of fluorescently labeled siRNA. <i>Journal of Controlled Release</i> , 2010 , 148, 106-109	11.7	30
32	Targeted delivery of small interfering RNA to angiogenic endothelial cells with liposome-polycation-DNA particles. <i>Journal of Controlled Release</i> , 2012 , 160, 211-6	11.7	29
31	A call for the standardised reporting of factors affecting the exogenous loading of extracellular vesicles with therapeutic cargos. <i>Advanced Drug Delivery Reviews</i> , 2021 , 173, 479-491	18.5	26
30	Interfering with endolysosomal trafficking enhances release of bioactive exosomes. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019 , 20, 102014	6	23
29	Biofabrication of Cell-Derived Nanovesicles: A Potential Alternative to Extracellular Vesicles for Regenerative Medicine. <i>Cells</i> , 2019 , 8,	7.9	23
28	Approaches to surface engineering of extracellular vesicles. <i>Advanced Drug Delivery Reviews</i> , 2021 , 173, 416-426	18.5	22
27	Natural or Synthetic RNA Delivery: A Stoichiometric Comparison of Extracellular Vesicles and Synthetic Nanoparticles. <i>Nano Letters</i> , 2021 , 21, 1888-1895	11.5	22
26	Microbubbles-Assisted Ultrasound Triggers the Release of Extracellular Vesicles. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	21
25	Taxol(α)-induced phosphatidylserine exposure and microvesicle formation in red blood cells is mediated by its vehicle Cremophor(EL). <i>Nanomedicine</i> , 2013 , 8, 1127-35	5.6	21
24	Ischaemia alters the effects of cardiomyocyte-derived extracellular vesicles on macrophage activation. <i>Journal of Cellular and Molecular Medicine</i> , 2019 , 23, 1137-1151	5.6	20
23	Challenges and directions in studying cell-cell communication by extracellular vesicles.. <i>Nature Reviews Molecular Cell Biology</i> , 2022 ,	48.7	20
22	Polymeric carrier systems for siRNA delivery. <i>Current Topics in Medicinal Chemistry</i> , 2012 , 12, 108-19	3	19
21	Probing the membrane interface-interacting proteome using photoactivatable lipid cross-linkers. <i>Journal of Proteome Research</i> , 2007 , 6, 1951-62	5.6	14
20	Cetuximab treatment alters the content of extracellular vesicles released from tumor cells. <i>Nanomedicine</i> , 2016 , 11, 881-90	5.6	14
19	Functional siRNA Delivery by Extracellular Vesicle-Liposome Hybrid Nanoparticles. <i>Advanced Healthcare Materials</i> , 2021 , e2101202	10.1	13
18	Tumour-bound RNA-laden exosomes. <i>Nature Biomedical Engineering</i> , 2017 , 1, 634-636	19	10
17	Intercalating quaternary nicotinamide-based poly(amido amine)s for gene delivery. <i>Journal of Controlled Release</i> , 2014 , 195, 11-20	11.7	8

16	Illuminating RNA trafficking and functional delivery by extracellular vesicles. <i>Advanced Drug Delivery Reviews</i> , 2021 , 174, 250-264	18.5	7
15	Lipid-based Transfection Reagents Exhibit Cryo-induced Increase in Transfection Efficiency. <i>Molecular Therapy - Nucleic Acids</i> , 2016 , 5, e290	10.7	6
14	A post-insertion strategy for surface functionalization of bacterial and mammalian cell-derived extracellular vesicles. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021 , 1865, 129763	4	5
13	Extracellular Vesicles and Their Emerging Roles as Cellular Messengers in Endocrinology: An Endocrine Society Scientific Statement.. <i>Endocrine Reviews</i> , 2022 ,	27.2	5
12	Preparation and Isolation of siRNA-Loaded Extracellular Vesicles. <i>Methods in Molecular Biology</i> , 2017 , 1545, 197-204	1.4	4
11	ISOLATION METHODS OF LARGE AND SMALL EXTRACELLULAR VESICLES DERIVED FROM CARDIOVASCULAR PROGENITORS: A COMPARATIVE STUDY.. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021 ,	5.7	4
10	Delivery of modified mRNA to damaged myocardium by systemic administration of lipid nanoparticles.. <i>Journal of Controlled Release</i> , 2022 , 343, 207-207	11.7	4
9	Hydrogel-Induced Cell Membrane Disruptions Enable Direct Cytosolic Delivery of Membrane-Impermeable Cargo. <i>Advanced Materials</i> , 2021 , 33, e2008054	24	4
8	Methods for the identification and characterization of extracellular vesicles in cardiovascular studies - from exosomes to microvesicles.. <i>Cardiovascular Research</i> , 2022 ,	9.9	4
7	Interaction of Extracellular Vesicles with Endothelial Cells Under Physiological Flow Conditions. <i>Methods in Molecular Biology</i> , 2017 , 1545, 205-213	1.4	3
6	Extracellular Vesicle-Based Hybrid Systems for Advanced Drug Delivery.. <i>Pharmaceutics</i> , 2022 , 14,	6.4	3
5	Profiling of Extracellular Small RNAs Highlights a Strong Bias towards Non-Vesicular Secretion. <i>Cells</i> , 2021 , 10,	7.9	3
4	Cas9 RNP transfection by vapor nanobubble photoporation for cell engineering. <i>Molecular Therapy - Nucleic Acids</i> , 2021 , 25, 696-707	10.7	3
3	Normoxic Tumour Extracellular Vesicles Modulate the Response of Hypoxic Cancer and Stromal Cells to Doxorubicin In Vitro. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	2
2	Poly(amido amine) copolymers derived from aminobutanol and ethylene diamine are excellent carriers for siRNA delivery. <i>Journal of Controlled Release</i> , 2010 , 148, e85-6	11.7	1
1	Lipid-Based Formulations for siRNA Delivery291-304		1