

# Pieter Vader

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Extracellular Vesicle-Based Hybrid Systems for Advanced Drug Delivery.. <i>Pharmaceutics</i> , <b>2022</b> , 14,	6.4	3
68	Delivery of modified mRNA to damaged myocardium by systemic administration of lipid nanoparticles.. <i>Journal of Controlled Release</i> , <b>2022</b> , 343, 207-207	11.7	4
67	Challenges and directions in studying cell-cell communication by extracellular vesicles.. <i>Nature Reviews Molecular Cell Biology</i> , <b>2022</b> ,	48.7	20
66	Methods for the identification and characterization of extracellular vesicles in cardiovascular studies - from exosomes to microvesicles.. <i>Cardiovascular Research</i> , <b>2022</b> ,	9.9	4
65	Extracellular Vesicles and Their Emerging Roles as Cellular Messengers in Endocrinology: An Endocrine Society Scientific Statement.. <i>Endocrine Reviews</i> , <b>2022</b> ,	27.2	5
64	ISOLATION METHODS OF LARGE AND SMALL EXTRACELLULAR VESICLES DERIVED FROM CARDIOVASCULAR PROGENITORS: A COMPARATIVE STUDY.. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2021</b> ,	5.7	4
63	A call for the standardised reporting of factors affecting the exogenous loading of extracellular vesicles with therapeutic cargos. <i>Advanced Drug Delivery Reviews</i> , <b>2021</b> , 173, 479-491	18.5	26
62	Hydrogel-Induced Cell Membrane Disruptions Enable Direct Cytosolic Delivery of Membrane-Impermeable Cargo. <i>Advanced Materials</i> , <b>2021</b> , 33, e2008054	24	4
61	Profiling of Extracellular Small RNAs Highlights a Strong Bias towards Non-Vesicular Secretion. <i>Cells</i> , <b>2021</b> , 10,	7.9	3
60	Approaches to surface engineering of extracellular vesicles. <i>Advanced Drug Delivery Reviews</i> , <b>2021</b> , 173, 416-426	18.5	22
59	A post-insertion strategy for surface functionalization of bacterial and mammalian cell-derived extracellular vesicles. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2021</b> , 1865, 129763	4	5
58	Natural or Synthetic RNA Delivery: A Stoichiometric Comparison of Extracellular Vesicles and Synthetic Nanoparticles. <i>Nano Letters</i> , <b>2021</b> , 21, 1888-1895	11.5	22
57	Illuminating RNA trafficking and functional delivery by extracellular vesicles. <i>Advanced Drug Delivery Reviews</i> , <b>2021</b> , 174, 250-264	18.5	7
56	Functional siRNA Delivery by Extracellular Vesicle-Liposome Hybrid Nanoparticles. <i>Advanced Healthcare Materials</i> , <b>2021</b> , e2101202	10.1	13
55	Cas9 RNP transfection by vapor nanobubble photoporation for cell engineering. <i>Molecular Therapy - Nucleic Acids</i> , <b>2021</b> , 25, 696-707	10.7	3
54	A CRISPR-Cas9-based reporter system for single-cell detection of extracellular vesicle-mediated functional transfer of RNA. <i>Nature Communications</i> , <b>2020</b> , 11, 1113	17.4	56
53	Extracellular Vesicle-Associated Proteins in Tissue Repair. <i>Trends in Cell Biology</i> , <b>2020</b> , 30, 990-1013	18.3	36

52	Normoxic Tumour Extracellular Vesicles Modulate the Response of Hypoxic Cancer and Stromal Cells to Doxorubicin In Vitro. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	2
51	Extracellular vesicles as drug delivery systems: Why and how?. <i>Advanced Drug Delivery Reviews</i> , <b>2020</b> , 159, 332-343	18.5	229
50	Interfering with endolysosomal trafficking enhances release of bioactive exosomes. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2019</b> , 20, 102014	6	23
49	Drug Delivery with Extracellular Vesicles: From Imagination to Innovation. <i>Accounts of Chemical Research</i> , <b>2019</b> , 52, 1761-1770	24.3	112
48	Extracellular vesicle-based therapeutics: natural versus engineered targeting and trafficking. <i>Experimental and Molecular Medicine</i> , <b>2019</b> , 51, 1-12	12.8	224
47	Injectable Supramolecular Ureidopyrimidinone Hydrogels Provide Sustained Release of Extracellular Vesicle Therapeutics. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1900847	10.1	36
46	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> , <b>2019</b> , 8, 1684862	16.4	97
45	Biofabrication of Cell-Derived Nanovesicles: A Potential Alternative to Extracellular Vesicles for Regenerative Medicine. <i>Cells</i> , <b>2019</b> , 8,	7.9	23
44	Cardiac Progenitor Cell-Derived Extracellular Vesicles Reduce Infarct Size and Associate with Increased Cardiovascular Cell Proliferation. <i>Journal of Cardiovascular Translational Research</i> , <b>2019</b> , 12, 5-17	3.3	32
43	Ischaemia alters the effects of cardiomyocyte-derived extracellular vesicles on macrophage activation. <i>Journal of Cellular and Molecular Medicine</i> , <b>2019</b> , 23, 1137-1151	5.6	20
42	Recombinant phosphatidylserine-binding nanobodies for targeting of extracellular vesicles to tumor cells: a plug-and-play approach. <i>Nanoscale</i> , <b>2018</b> , 10, 2413-2426	7.7	64
41	State-of-the-Art Design and Rapid-Mixing Production Techniques of Lipid Nanoparticles for Nucleic Acid Delivery. <i>Small Methods</i> , <b>2018</b> , 2, 1700375	12.8	74
40	Extracellular Vesicle Heterogeneity: Subpopulations, Isolation Techniques, and Diverse Functions in Cancer Progression. <i>Frontiers in Immunology</i> , <b>2018</b> , 9, 738	8.4	343
39	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> , <b>2018</b> , 7, 1535750	16.4	3642
38	Extracellular vesicles for nucleic acid delivery: progress and prospects for safe RNA-based gene therapy. <i>Gene Therapy</i> , <b>2017</b> , 24, 157-166	4	84
37	Functional Delivery of Lipid-Conjugated siRNA by Extracellular Vesicles. <i>Molecular Therapy</i> , <b>2017</b> , 25, 1580-1587	11.7	99
36	C9orf72 and RAB7L1 regulate vesicle trafficking in amyotrophic lateral sclerosis and frontotemporal dementia. <i>Brain</i> , <b>2017</b> , 140, 887-897	11.2	94
35	Higher functionality of extracellular vesicles isolated using size-exclusion chromatography compared to ultracentrifugation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2017</b> , 13, 2061-2065	6	162

34	Preparation and Isolation of siRNA-Loaded Extracellular Vesicles. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1545, 197-204	1.4	4
33	Interaction of Extracellular Vesicles with Endothelial Cells Under Physiological Flow Conditions. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1545, 205-213	1.4	3
32	Cellular uptake of extracellular vesicles is mediated by clathrin-independent endocytosis and macropinocytosis. <i>Journal of Controlled Release</i> , <b>2017</b> , 266, 100-108	11.7	208
31	Tumour-bound RNA-laden exosomes. <i>Nature Biomedical Engineering</i> , <b>2017</b> , 1, 634-636	19	10
30	Microbubbles-Assisted Ultrasound Triggers the Release of Extracellular Vesicles. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 18,	6.3	21
29	Cells release subpopulations of exosomes with distinct molecular and biological properties. <i>Scientific Reports</i> , <b>2016</b> , 6, 22519	4.9	523
28	Lipid-based Transfection Reagents Exhibit Cryo-induced Increase in Transfection Efficiency. <i>Molecular Therapy - Nucleic Acids</i> , <b>2016</b> , 5, e290	10.7	6
27	Extracellular vesicles for drug delivery. <i>Advanced Drug Delivery Reviews</i> , <b>2016</b> , 106, 148-156	18.5	561
26	PEGylated and targeted extracellular vesicles display enhanced cell specificity and circulation time. <i>Journal of Controlled Release</i> , <b>2016</b> , 224, 77-85	11.7	254
25	Display of GPI-anchored anti-EGFR nanobodies on extracellular vesicles promotes tumour cell targeting. <i>Journal of Extracellular Vesicles</i> , <b>2016</b> , 5, 31053	16.4	190
24	Cetuximab treatment alters the content of extracellular vesicles released from tumor cells. <i>Nanomedicine</i> , <b>2016</b> , 11, 881-90	5.6	14
23	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> , <b>2015</b> , 11, 879-83	6	338
22	Extracellular vesicle in vivo biodistribution is determined by cell source, route of administration and targeting. <i>Journal of Extracellular Vesicles</i> , <b>2015</b> , 4, 26316	16.4	711
21	Applying extracellular vesicles based therapeutics in clinical trials - an ISEV position paper. <i>Journal of Extracellular Vesicles</i> , <b>2015</b> , 4, 30087	16.4	722
20	Serum-free culture alters the quantity and protein composition of neuroblastoma-derived extracellular vesicles. <i>Journal of Extracellular Vesicles</i> , <b>2015</b> , 4, 26883	16.4	85
19	Extracellular vesicles: emerging targets for cancer therapy. <i>Trends in Molecular Medicine</i> , <b>2014</b> , 20, 385-93	11.5	277
18	Intercalating quaternary nicotinamide-based poly(amido amine)s for gene delivery. <i>Journal of Controlled Release</i> , <b>2014</b> , 195, 11-20	11.7	8
17	Extracellular vesicles as drug delivery systems: lessons from the liposome field. <i>Journal of Controlled Release</i> , <b>2014</b> , 195, 72-85	11.7	287

16	Electroporation-induced siRNA precipitation obscures the efficiency of siRNA loading into extracellular vesicles. <i>Journal of Controlled Release</i> , <b>2013</b> , 172, 229-238	11.7	333
15	Extracellular microRNAs are dynamic non-vesicular biomarkers of muscle turnover. <i>Nucleic Acids Research</i> , <b>2013</b> , 41, 9500-13	20.1	68
14	Taxol( )-induced phosphatidylserine exposure and microvesicle formation in red blood cells is mediated by its vehicle Cremophor( ) EL. <i>Nanomedicine</i> , <b>2013</b> , 8, 1127-35	5.6	21
13	Targeted delivery of small interfering RNA to angiogenic endothelial cells with liposome-polycation-DNA particles. <i>Journal of Controlled Release</i> , <b>2012</b> , 160, 211-6	11.7	29
12	Microvesicles and exosomes: opportunities for cell-derived membrane vesicles in drug delivery. <i>Journal of Controlled Release</i> , <b>2012</b> , 161, 635-44	11.7	290
11	Physicochemical and biological evaluation of siRNA polyplexes based on PEGylated Poly(amido amine)s. <i>Pharmaceutical Research</i> , <b>2012</b> , 29, 352-61	4.5	65
10	Exosome mimetics: a novel class of drug delivery systems. <i>International Journal of Nanomedicine</i> , <b>2012</b> , 7, 1525-41	7.3	258
9	Polymeric carrier systems for siRNA delivery. <i>Current Topics in Medicinal Chemistry</i> , <b>2012</b> , 12, 108-19	3	19
8	Cellular stress conditions are reflected in the protein and RNA content of endothelial cell-derived exosomes. <i>Journal of Extracellular Vesicles</i> , <b>2012</b> , 1,	16.4	392
7	Optimization of poly(amido amine)s as vectors for siRNA delivery. <i>Journal of Controlled Release</i> , <b>2011</b> , 150, 177-86	11.7	44
6	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> , <b>2011</b> , 28, 1013-22	4.5	42
5	Examining the role of Rac1 in tumor angiogenesis and growth: a clinically relevant RNAi-mediated approach. <i>Angiogenesis</i> , <b>2011</b> , 14, 457-66	10.6	36
4	A method for quantifying cellular uptake of fluorescently labeled siRNA. <i>Journal of Controlled Release</i> , <b>2010</b> , 148, 106-109	11.7	30
3	Poly(amido amine) copolymers derived from aminobutanol and ethylene diamine are excellent carriers for siRNA delivery. <i>Journal of Controlled Release</i> , <b>2010</b> , 148, e85-6	11.7	1
2	Probing the membrane interface-interacting proteome using photoactivatable lipid cross-linkers. <i>Journal of Proteome Research</i> , <b>2007</b> , 6, 1951-62	5.6	14
1	Lipid-Based Formulations for siRNA Delivery 291-304		1