

Particle size distribution of exosomes and microvesicles:  
electron microscopy, flow cytometry, nanoparticle tracking  
sensing

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Update on Controls for Isolation and Quantification Methodology of Extracellular Vesicles Derived from Adipose Tissue Mesenchymal Stem Cells. <i>Frontiers in Immunology</i> , 2014, 5, 525.	4.8	69
2	Reproducible extracellular vesicle size and concentration determination with tunable resistive pulse sensing. <i>Journal of Extracellular Vesicles</i> , 2014, 3, 25922.	12.2	126
3	Light-Scattering Detection below the Level of Single Fluorescent Molecules for High-Resolution Characterization of Functional Nanoparticles. <i>ACS Nano</i> , 2014, 8, 10998-11006.	14.6	159
4	Exosomal miR-221/222 enhances tamoxifen resistance in recipient ER-positive breast cancer cells. <i>Breast Cancer Research and Treatment</i> , 2014, 147, 423-431.	2.5	283
5	Size measurement uncertainties of near-monodisperse, near-spherical nanoparticles using transmission electron microscopy and particle-tracking analysis. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	21
6	Refractive Index Determination of Nanoparticles in Suspension Using Nanoparticle Tracking Analysis. <i>Nano Letters</i> , 2014, 14, 6195-6201.	9.1	161
7	Theme 1: Pathogenesis of venous thromboembolism (and post-thrombotic syndrome). <i>Thrombosis Research</i> , 2015, 136, S3-S7.	1.7	2
8	Dynamic microvesicle release and clearance within the cardiovascular system: triggers and mechanisms. <i>Clinical Science</i> , 2015, 129, 915-931.	4.3	53
9	Simplified protocol for flow cytometry analysis of fluorescently labeled exosomes and microvesicles using dedicated flow cytometer. <i>Journal of Extracellular Vesicles</i> , 2015, 4, 25530.	12.2	287
10	Handling and storage of human body fluids for analysis of extracellular vesicles. <i>Journal of Extracellular Vesicles</i> , 2015, 4, 29260.	12.2	160
11	Microparticles. <i>Critical Care Medicine</i> , 2015, 43, 2700-2701.	0.9	0
12	Flow Cytometry of Extracellular Vesicles: Potential, Pitfalls, and Prospects. <i>Current Protocols in Cytometry</i> , 2015, 73, 13.14.1-13.14.16.	3.7	72
13	Isolation of Exosomes from Blood Plasma: Qualitative and Quantitative Comparison of Ultracentrifugation and Size Exclusion Chromatography Methods. <i>PLoS ONE</i> , 2015, 10, e0145686.	2.5	493
14	Antibody-Based Assays for Phenotyping of Extracellular Vesicles. <i>BioMed Research International</i> , 2015, 2015, 1-15.	1.9	23
15	Emergence of tunable resistive pulse sensing as a biosensor. <i>Analytical Methods</i> , 2015, 7, 7055-7066.	2.7	48
16	Nanoparticle analysis of cancer cells by light transmission spectroscopy. <i>Analytical Biochemistry</i> , 2015, 484, 58-65.	2.4	7
17	Extracellular vesicles such as prostate cancer cell fragments as a fluid biopsy for prostate cancer. <i>Prostate Cancer and Prostatic Diseases</i> , 2015, 18, 213-220.	3.9	11
18	Novel methodologies for biomarker discovery in atherosclerosis. <i>European Heart Journal</i> , 2015, 36, 2635-2642.	2.2	174

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19	Extracellular vesicles, tissue factor, cancer and thrombosis – discussion themes of the ISEV 2014 Educational Day. Journal of Extracellular Vesicles, 2015, 4, 26901.	12.2	69
20	Methods for extracellular vesicles isolation in a hospital setting. Frontiers in Immunology, 2015, 6, 50.	4.8	93
21	Tips and tricks for flow cytometry-based analysis and counting of microparticles. Transfusion and Apheresis Science, 2015, 53, 110-126.	1.0	67
22	Possibilities and limitations of current technologies for quantification of biological extracellular vesicles and synthetic mimics. Journal of Controlled Release, 2015, 200, 87-96.	9.9	225
23	Analysis of exosome purification methods using a model liposome system and tunable-resistive pulse sensing. Scientific Reports, 2015, 5, 7639.	3.3	226
24	Applications of tunable resistive pulse sensing. Analyst, The, 2015, 140, 3318-3334.	3.5	110
25	Using exosomes, naturally-equipped nanocarriers, for drug delivery. Journal of Controlled Release, 2015, 219, 396-405.	9.9	760
26	Exosomes and exosomal miRNAs in cardiovascular protection and repair. Vascular Pharmacology, 2015, 71, 24-30.	2.1	211
27	A Flow-Cytometry-Based Approach to Facilitate Quantification, Size Estimation and Characterization of Sub-visible Particles in Protein Solutions. Pharmaceutical Research, 2015, 32, 2863-2876.	3.5	9
28	New Steps in the Use of Mesenchymal Stem Cell in Solid Organ Transplantation. Current Transplantation Reports, 2015, 2, 184-190.	2.0	0
29	Maternal plasma RNA sequencing. Clinical Biochemistry, 2015, 48, 942-947.	1.9	7
30	Selecting analytical tools for characterization of polymersomes in aqueous solution. RSC Advances, 2015, 5, 79924-79946.	3.6	38
31	Fast, Label-Free Tracking of Single Viruses and Weakly Scattering Nanoparticles in a Nanofluidic Optical Fiber. ACS Nano, 2015, 9, 12349-12357.	14.6	112
32	The diagnostic usefulness of capture assays for measuring global/specific extracellular micro-particles in plasma. Transfusion and Apheresis Science, 2015, 53, 127-136.	1.0	22
33	Predicting therapeutic nanomedicine efficacy using a companion magnetic resonance imaging nanoparticle. Science Translational Medicine, 2015, 7, 314ra183.	12.4	273
34	Lipidomic and proteomic characterization of platelet extracellular vesicle subfractions from senescent platelets. Transfusion, 2015, 55, 507-521.	1.6	101
35	Nano-zymography Using Laser-Scanning Confocal Microscopy Unmasks Proteolytic Activity of Cell-Derived Microparticles. Theranostics, 2016, 6, 610-626.	10.0	12
36	A Comparison of Different Methodologies for the Measurement of Extracellular Vesicles and Milk-derived Particles in Raw Milk from Cows. Biomarker Insights, 2016, 11, BML.S38438.	2.5	5

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37	Prostate extracellular vesicles in patient plasma as a liquid biopsy platform for prostate cancer using nanoscale flow cytometry. <i>Oncotarget</i> , 2016, 7, 8839-8849.	1.8	80
38	Extracellular vesicle isolation and characterization: toward clinical application. <i>Journal of Clinical Investigation</i> , 2016, 126, 1152-1162.	8.2	667
39	Clinical Application of Human Urinary Extracellular Vesicles in Kidney and Urologic Diseases. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1043.	4.1	20
40	Nanoparticle Tracking Analysis for the Enumeration and Characterization of Mineralo-Organic Nanoparticles in Feline Urine. <i>PLoS ONE</i> , 2016, 11, e0166045.	2.5	2
41	Development and regulation of exosome-based therapy products. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2016, 8, 744-757.	6.1	61
42	Extracellular vesicles in cardiovascular disease: are they Jedi or Sith?. <i>Journal of Physiology</i> , 2016, 594, 2881-2894.	2.9	46
43	Lipid-Targeting Peptide Probes for Extracellular Vesicles. <i>Journal of Cellular Physiology</i> , 2016, 231, 2327-2332.	4.1	7
44	Measurement of microvesicle levels in human blood using flow cytometry. <i>Cytometry Part B - Clinical Cytometry</i> , 2016, 90, 326-336.	1.5	66
45	A novel multiplex bead-based platform highlights the diversity of extracellular vesicles. <i>Journal of Extracellular Vesicles</i> , 2016, 5, 29975.	12.2	218
46	A standardized method to determine the concentration of extracellular vesicles using tunable resistive pulse sensing. <i>Journal of Extracellular Vesicles</i> , 2016, 5, 31242.	12.2	142
47	Identification and characterization of EGF receptor in individual exosomes by fluorescence-activated vesicle sorting. <i>Journal of Extracellular Vesicles</i> , 2016, 5, 29254.	12.2	107
48	A low balance between microparticles expressing tissue factor pathway inhibitor and tissue factor is associated with thrombosis in Behçet's Syndrome. <i>Scientific Reports</i> , 2016, 6, 38104.	3.3	21
49	Proteomic analysis of exosomal cargo: the challenge of high purity vesicle isolation. <i>Molecular BioSystems</i> , 2016, 12, 1407-1419.	2.9	155
50	Use of flow cytometry for characterization of human cytomegalovirus vaccine particles. <i>Vaccine</i> , 2016, 34, 2321-2328.	3.8	23
51	Enrichment of extracellular vesicles from tissues of the central nervous system by PROSPR. <i>Molecular Neurodegeneration</i> , 2016, 11, 41.	10.8	76
52	Microfluidic Exosome Analysis toward Liquid Biopsy for Cancer. <i>Journal of the Association for Laboratory Automation</i> , 2016, 21, 599-608.	2.8	141
53	Prediction of conversion from mild cognitive impairment to dementia with neuronally derived blood exosome protein profile. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2016, 3, 63-72.	2.4	255
54	Preanalytical, analytical, and biological variation of blood plasma submicron particle levels measured with nanoparticle tracking analysis and tunable resistive pulse sensing. <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , 2016, 76, 349-360.	1.2	43

#	ARTICLE	IF	CITATIONS
55	Extracellular vesicles in blood, milk and body fluids of the female and male urogenital tract and with special regard to reproduction. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 2016, 53, 379-395.	6.1	72
56	Nanoparticle tracking analysis of particle size and concentration detection in suspensions of polymer and protein samples: Influence of experimental and data evaluation parameters. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016, 104, 30-41.	4.3	109
57	Single-particle characterization of oncolytic vaccinia virus by flow virometry. <i>Vaccine</i> , 2016, 34, 5082-5089.	3.8	26
58	Circulating cell-derived microparticles as biomarkers in cardiovascular disease. <i>Biomarkers in Medicine</i> , 2016, 10, 1009-1022.	1.4	26
59	Quantification of Small Extracellular Vesicles by Size Exclusion Chromatography with Fluorescence Detection. <i>Analytical Chemistry</i> , 2016, 88, 10390-10394.	6.5	32
60	Nanomechanical sandwich assay for multiple cancer biomarkers in breast cancer cell-derived exosomes. <i>Nanoscale</i> , 2016, 8, 15137-15141.	5.6	73
61	Tunable resistive pulse sensing: potential applications in nanomedicine. <i>Nanomedicine</i> , 2016, 11, 2197-2214.	3.3	22
62	Update on extracellular vesicles inside red blood cell storage units: Adjust the sails closer to the new wind. <i>Transfusion and Apheresis Science</i> , 2016, 55, 92-104.	1.0	50
63	Pulse Size Distributions in Tunable Resistive Pulse Sensing. <i>Analytical Chemistry</i> , 2016, 88, 8648-8656.	6.5	41
64	Recent developments in the nomenclature, presence, isolation, detection and clinical impact of extracellular vesicles. <i>Journal of Thrombosis and Haemostasis</i> , 2016, 14, 48-56.	3.8	254
65	A liposome-based size calibration method for measuring microvesicles by flow cytometry. <i>Journal of Thrombosis and Haemostasis</i> , 2016, 14, 186-190.	3.8	22
66	Microvesicles as Vehicles for Tissue Regeneration: Changing of the Guards. <i>Current Pathobiology Reports</i> , 2016, 4, 181-187.	3.4	29
67	Correlative analysis of nanoparticle tracking, flow cytometric and functional measurements for circulating microvesicles in normal subjects. <i>Thrombosis Research</i> , 2016, 145, 18-23.	1.7	16
68	Monocyte-mediated activation of endothelial cells occurs only after binding to extracellular vesicles from red blood cell products, a process mediated by $\alpha$ IIb $\beta$ 3 integrin. <i>Transfusion</i> , 2016, 56, 3012-3020.	1.6	28
69	Massive release of extracellular vesicles from cancer cells after photodynamic treatment or chemotherapy. <i>Scientific Reports</i> , 2016, 6, 35376.	3.3	98
70	A rapid, automated surface protein profiling of single circulating exosomes in human blood. <i>Scientific Reports</i> , 2016, 6, 36502.	3.3	133
71	Detecting individual extracellular vesicles using a multicolor in situ proximity ligation assay with flow cytometric readout. <i>Scientific Reports</i> , 2016, 6, 34358.	3.3	52
72	Two-dimensional flow nanometry of biological nanoparticles for accurate determination of their size and emission intensity. <i>Nature Communications</i> , 2016, 7, 12956.	12.8	34

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73	Extracellular Vesicles from Red Blood Cell Products Induce a Strong Pro-Inflammatory Host Response<b>,</b> <b>,</b> Dependent on Both Numbers and Storage Duration. Transfusion Medicine and Hemotherapy, 2016, 43, 302-305.	1.6	47
74	The Role of Isolation Methods on a Nanoscale Surface Structure and its Effect on the Size of Exosomes. Journal of Circulating Biomarkers, 2016, 5, 11.	1.3	34
75	Analytical challenges of extracellular vesicle detection: A comparison of different techniques. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2016, 89, 123-134.	1.5	177
76	Endothelial, platelet, and macrophage microparticle levels do not change acutely following transcatheter aortic valve replacement. Journal of Negative Results in BioMedicine, 2016, 15, 7.	1.4	8
77	Effects of antiplatelet therapy on platelet extracellular vesicle release and procoagulant activity in health and in cardiovascular disease. Platelets, 2016, 27, 805-811.	2.3	19
78	MSC surface markers (CD44, CD73, and CD90) can identify human MSC-derived extracellular vesicles by conventional flow cytometry. Cell Communication and Signaling, 2016, 14, 2.	6.5	221
79	Analysis of extracellular vesicles using magnetic nanoparticles in blood of patients with acute coronary syndrome. Biochemistry (Moscow), 2016, 81, 382-391.	1.5	10
80	Induction of $\alpha$ -synuclein aggregate formation by CSF exosomes from patients with Parkinson's disease and dementia with Lewy bodies. Brain, 2016, 139, 481-494.	7.6	349
81	Characterization, detection, and counting of metal nanoparticles using flow cytometry. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2016, 89, 169-183.	1.5	35
82	Multimodal Dispersion of Nanoparticles: A Comprehensive Evaluation of Size Distribution with 9 Size Measurement Methods. Pharmaceutical Research, 2016, 33, 1220-1234.	3.5	77
83	Flow speed alters the apparent size and concentration of particles measured using NanoSight nanoparticle tracking analysis. Placenta, 2016, 38, 29-32.	1.5	32
84	Inter-laboratory comparison on the size and stability of monodisperse and bimodal synthetic reference particles for standardization of extracellular vesicle measurements. Measurement Science and Technology, 2016, 27, 035701.	2.6	18
85	Impact of caspase-8 and PKA in regulating neutrophil-derived microparticle generation. Biochemical and Biophysical Research Communications, 2016, 469, 917-922.	2.1	11
86	Hepatocytes release ceramide-enriched pro-inflammatory extracellular vesicles in an IRE1 $\alpha$ -dependent manner. Journal of Lipid Research, 2016, 57, 233-245.	4.2	230
87	Role of extracellular vesicles in autoimmune diseases. Autoimmunity Reviews, 2016, 15, 174-183.	5.8	115
88	A microfluidic ExoSearch chip for multiplexed exosome detection towards blood-based ovarian cancer diagnosis. Lab on A Chip, 2016, 16, 489-496.	6.0	523
89	Extracellular Vesicles in Renal Diseases. Journal of the American Society of Nephrology: JASN, 2016, 27, 12-26.	6.1	165
90	Systematic review of factors influencing extracellular vesicle yield from cell cultures. Cytotechnology, 2016, 68, 579-592.	1.6	89

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91	Plasmonic Exosome Biosensors for Medical Diagnostics. Progress in Optical Science and Photonics, 2016, , 249-272.	0.5	1
92	Fluorescence triggering: A general strategy for enumerating and phenotyping extracellular vesicles by flow cytometry. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2016, 89, 184-195.	1.5	137
93	Characterizations of nanospheres and nanorods using resistive-pulse sensing. Microsystem Technologies, 2017, 23, 299-304.	2.0	4
94	Quantification of Exosomes. Journal of Cellular Physiology, 2017, 232, 1587-1590.	4.1	131
95	Bulk immunoassays for analysis of extracellular vesicles. Platelets, 2017, 28, 242-248.	2.3	45
96	Vesikel in der Natur und im Labor: die Aufklärung der biologischen Eigenschaften und die Synthese zunehmend komplexer synthetischer Vesikel. Angewandte Chemie, 2017, 129, 3188-3208.	2.0	10
97	Dimensional characterization of extracellular vesicles using atomic force microscopy. Measurement Science and Technology, 2017, 28, 034006.	2.6	47
98	Urine Exosomes. Advances in Clinical Chemistry, 2017, 78, 103-122.	3.7	121
99	Rapid and specific detection of cell-derived microvesicles using a magnetoresistive biochip. Analyst, The, 2017, 142, 979-986.	3.5	10
100	A microRNA signature in circulating exosomes is superior to exosomal glypican-1 levels for diagnosing pancreatic cancer. Cancer Letters, 2017, 393, 86-93.	7.2	276
101	High sensitivity detection and sorting of infectious human immunodeficiency virus (HIV-1) particles by flow virometry. Virology, 2017, 505, 80-90.	2.4	40
102	A direct-imaging cryo-EM study of shedding extracellular vesicles from leukemic monocytes. Journal of Structural Biology, 2017, 198, 177-185.	2.8	44
103	Integration of stem cell-derived exosomes with in situ hydrogel glue as a promising tissue patch for articular cartilage regeneration. Nanoscale, 2017, 9, 4430-4438.	5.6	333
104	Methodological Guidelines to Study Extracellular Vesicles. Circulation Research, 2017, 120, 1632-1648.	4.5	728
105	Quantum dot-based sensitive detection of disease specific exosome in serum. Analyst, The, 2017, 142, 2211-2219.	3.5	129
106	From platelet dust to gold dust: physiological importance and detection of platelet microvesicles. Platelets, 2017, 28, 211-213.	2.3	24
107	Analysis of RBC-microparticles in stored whole blood bags – a promising marker to detect blood doping in sports?. Drug Testing and Analysis, 2017, 9, 1794-1798.	2.6	12
108	Circulating microvesicle number, function and small RNA content vary with age, gender, smoking status, lipid and hormone profiles. Thrombosis Research, 2017, 156, 65-72.	1.7	30

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109	Imaging and Therapeutic Potential of Extracellular Vesicles. , 2017, , 43-68.		8
110	Labeling Extracellular Vesicles for Nanoscale Flow Cytometry. Scientific Reports, 2017, 7, 1878.	3.3	260
111	Oviduct extracellular vesicles protein content and their role during oviductâ€‘embryo cross-talk. Reproduction, 2017, 154, 253-268.	2.6	157
112	The Non-Coding Transcriptome of Prostate Cancer: Implications for Clinical Practice. Molecular Diagnosis and Therapy, 2017, 21, 385-400.	3.8	18
113	Development of a Urinary Micro Particle Detection System Based on Spatial Coordinate Tracking Method. International Journal of Pattern Recognition and Artificial Intelligence, 2017, 31, 1750033.	1.2	1
114	Bead-based flow-cytometry for semi-quantitative analysis of complex membrane vesicle populations released by bacteria and host cells. Microbiological Research, 2017, 200, 25-32.	5.3	17
115	Role of exosomes in psychiatric disorders. Asian Journal of Psychiatry, 2017, 28, 78-79.	2.0	5
116	Isolation of Exosomes from HTLV-Infected Cells. Methods in Molecular Biology, 2017, 1582, 57-75.	0.9	9
117	Platelet-Derived Microparticles. , 2017, , 379-392.		8
118	Detection of platelet vesicles by flow cytometry. Platelets, 2017, 28, 256-262.	2.3	65
119	Exosomes as a platform for â€‘liquid biopsyâ€™™ in pancreatic cancer. Convergent Science Physical Oncology, 2017, 3, 013005.	2.6	5
120	Decorrelation correction for nanoparticle tracking analysis of dilute polydisperse suspensions in bulk flow. Physical Review E, 2017, 95, 033305.	2.1	4
121	Single particle analysis: Methods for detection of platelet extracellular vesicles in suspension (excluding flow cytometry). Platelets, 2017, 28, 249-255.	2.3	30
122	Detection of tissue factor-positive extracellular vesicles by laser scanning confocal microscopy. Thrombosis Research, 2017, 150, 65-72.	1.7	12
123	Characterization of extracellular vesicles by IR spectroscopy: Fast and simple classification based on amide and C H stretching vibrations. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 459-466.	2.6	120
124	Size-dependent cellular uptake of exosomes. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 1011-1020.	3.3	109
125	Platelet extracellular vesicles as biomarkers for arterial thrombosis. Platelets, 2017, 28, 228-234.	2.3	44
126	Isolation of Platelet-Derived Extracellular Vesicles. Methods in Molecular Biology, 2017, 1545, 177-188.	0.9	16



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127	Advanced characterizations of nanoparticles for drug delivery: investigating their properties through the techniques used in their evaluations. <i>Nanotechnology Reviews</i> , 2017, 6, 355-372.	5.8	29
128	Isolation and characterization of urinary extracellular vesicles: implications for biomarker discovery. <i>Nature Reviews Nephrology</i> , 2017, 13, 731-749.	9.6	341
129	Best practice of identification and proteomic analysis of extracellular vesicles in human health and disease. <i>Expert Review of Proteomics</i> , 2017, 14, 1073-1090.	3.0	35
130	Magnetic nanoparticle-enhanced surface plasmon resonance biosensor for extracellular vesicle analysis. <i>Analyst</i> , The, 2017, 142, 3913-3921.	3.5	45
131	Characterization of Extracellular Vesicles by Flow Cytometry. <i>Methods in Molecular Biology</i> , 2017, 1660, 175-190.	0.9	5
132	Detection and Characterization of Extracellular Vesicles by Transmission and Cryo-Transmission Electron Microscopy. <i>Methods in Molecular Biology</i> , 2017, 1660, 221-232.	0.9	101
133	Protocol for Exosome Isolation from Small Volume of Ovarian Follicular Fluid: Evaluation of Ultracentrifugation and Commercial Kits. <i>Methods in Molecular Biology</i> , 2017, 1660, 321-341.	0.9	35
134	Circulating exosome microRNA associated with heart failure secondary to myxomatous mitral valve disease in a naturally occurring canine model. <i>Journal of Extracellular Vesicles</i> , 2017, 6, 1350088.	12.2	62
135	Analysis of extracellular RNA in cerebrospinal fluid. <i>Journal of Extracellular Vesicles</i> , 2017, 6, 1317577.	12.2	68
136	Extracellular vesicles in renal disease. <i>Nature Reviews Nephrology</i> , 2017, 13, 545-562.	9.6	238
137	Detection of Extracellular Vesicles Using Proximity Ligation Assay with Flow Cytometry Readout™ExoPLA. <i>Current Protocols in Cytometry</i> , 2017, 81, 4.8.1-4.8.10.	3.7	4
138	Immunoaffinity based methods are superior to kits for purification of prostate derived extracellular vesicles from plasma samples. <i>Prostate</i> , 2017, 77, 1335-1343.	2.3	60
139	Surface Plasmon Resonance is an Analytically Sensitive Method for Antigen Profiling of Extracellular Vesicles. <i>Clinical Chemistry</i> , 2017, 63, 1633-1641.	3.2	31
140	Redox regulation of leukocyte-derived microparticle release and protein content in response to cold physical plasma-derived oxidants. <i>Clinical Plasma Medicine</i> , 2017, 7-8, 24-35.	3.2	21
141	Size and concentration analyses of extracellular vesicles by nanoparticle tracking analysis: a variation study. <i>Journal of Extracellular Vesicles</i> , 2017, 6, 1344087.	12.2	222
142	Isolation of membrane vesicles from prokaryotes: a technical and biological comparison reveals heterogeneity. <i>Journal of Extracellular Vesicles</i> , 2017, 6, 1324731.	12.2	85
143	Integrated Method for Purification and Single-Particle Characterization of Lentiviral Vector Systems by Size Exclusion Chromatography and Tunable Resistive Pulse Sensing. <i>Molecular Biotechnology</i> , 2017, 59, 251-259.	2.4	18
144	Extracellular Vesicles as Biomarkers and Therapeutics in Dermatology: A Focus on Exosomes. <i>Journal of Investigative Dermatology</i> , 2017, 137, 1622-1629.	0.7	69

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145	Autologous intramuscular transplantation of engineered satellite cells induces exosome-mediated systemic expression of Fukutin-related protein and rescues disease phenotype in a murine model of limb-girdle muscular dystrophy type 2I. <i>Human Molecular Genetics</i> , 2017, 26, 3682-3698.	2.9	20
146	Proteome analysis of circulating exosomes in health and breast cancer. <i>Russian Journal of Bioorganic Chemistry</i> , 2017, 43, 126-134.	1.0	6
147	Extracellular vesicles in gastrointestinal cancer in conjunction with microbiota: On the border of Kingdoms. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2017, 1868, 372-393.	7.4	35
148	High throughput nanoparticle tracking analysis for monitoring outer membrane vesicle production. <i>Journal of Extracellular Vesicles</i> , 2017, 6, 1333883.	12.2	31
149	Immobilization and detection of platelet-derived extracellular vesicles on functionalized silicon substrate: cytometric and spectrometric approach. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 1109-1119.	3.7	17
150	Advances in exosome quantification techniques. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 86, 93-106.	11.4	71
151	Scattering the spotlight on microparticles. <i>Journal of Thrombosis and Haemostasis</i> , 2017, 15, 185-186.	3.8	0
152	Methods for the physical characterization and quantification of extracellular vesicles in biological samples. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 3164-3179.	2.4	138
153	Development of a NanoBioAnalytical platform for "on-chip" qualification and quantification of platelet-derived microparticles. <i>Biosensors and Bioelectronics</i> , 2017, 93, 250-259.	10.1	31
154	Flow analysis of individual blood extracellular vesicles in acute coronary syndrome. <i>Platelets</i> , 2017, 28, 165-173.	2.3	12
155	Standardization of microparticle enumeration across different flow cytometry platforms: results of a multicenter collaborative workshop. <i>Journal of Thrombosis and Haemostasis</i> , 2017, 15, 187-193.	3.8	101
156	Vesicles in Nature and the Laboratory: Elucidation of Their Biological Properties and Synthesis of Increasingly Complex Synthetic Vesicles. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3142-3160.	13.8	65
157	Cell-derived microvesicles in cardiovascular diseases and antiplatelet therapy monitoring – A lesson for future trials? Current evidence, recent progresses and perspectives of clinical application. <i>International Journal of Cardiology</i> , 2017, 226, 93-102.	1.7	20
158	Imaging flow cytometry for the characterization of extracellular vesicles. <i>Methods</i> , 2017, 112, 55-67.	3.8	84
159	Biological reference materials for extracellular vesicle studies. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 98, 4-16.	4.0	57
160	Is your article EVTRACKed?. <i>Journal of Extracellular Vesicles</i> , 2017, 6, 1379835.	12.2	24
161	Microvesicles in vascular homeostasis and diseases. <i>Thrombosis and Haemostasis</i> , 2017, 117, 1296-1316.	3.4	193
162	Endothelial- and Immune Cell-Derived Extracellular Vesicles in the Regulation of Cardiovascular Health and Disease. <i>JACC Basic To Translational Science</i> , 2017, 2, 790-807.	4.1	104

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163	Single-Particle Discrimination of Retroviruses from Extracellular Vesicles by Nanoscale Flow Cytometry. <i>Scientific Reports</i> , 2017, 7, 17769.	3.3	27
164	Mining Extracellular Vesicles for Clinically Relevant Noninvasive Diagnostic Biomarkers in Cancer. , O, , .		1
165	Exosomes: A Rising Star in Failing Hearts. <i>Frontiers in Physiology</i> , 2017, 8, 494.	2.8	46
166	Exosomes in Cancer Diagnostics. <i>Cancers</i> , 2017, 9, 8.	3.7	275
167	The Methods of Choice for Extracellular Vesicles (EVs) Characterization. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1153.	4.1	351
168	A Protocol for Improved Precision and Increased Confidence in Nanoparticle Tracking Analysis Concentration Measurements between 50 and 120â€‰nm in Biological Fluids. <i>Frontiers in Cardiovascular Medicine</i> , 2017, 4, 68.	2.4	48
169	Comparative Gene Expression Analysis of Lymphocytes Treated with Exosomes Derived from Ovarian Cancer and Ovarian Cysts. <i>Frontiers in Immunology</i> , 2017, 8, 607.	4.8	18
170	A Refined Bead-Free Method to Identify Astrocytic Exosomes in Primary Glial Cultures and Blood Plasma. <i>Frontiers in Neuroscience</i> , 2017, 11, 335.	2.8	29
171	Changes in the pattern of plasma extracellular vesicles after severe trauma. <i>PLoS ONE</i> , 2017, 12, e0183640.	2.5	37
172	Immunomodulatory role for membrane vesicles released by THP-1 macrophages and respiratory pathogens during macrophage infection. <i>BMC Microbiology</i> , 2017, 17, 216.	3.3	18
173	Detection of circulating miRNAs: comparative analysis of extracellular vesicle-incorporated miRNAs and cell-free miRNAs in whole plasma of prostate cancer patients. <i>BMC Cancer</i> , 2017, 17, 730.	2.6	199
174	Comparison of two analysis methods on bubble size distribution. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 231, 012181.	0.6	0
175	Microvesicle Involvement in Shiga Toxin-Associated Infection. <i>Toxins</i> , 2017, 9, 376.	3.4	29
176	Biophysical properties of extracellular vesicles in diagnostics. <i>Biomarkers in Medicine</i> , 2018, 12, 383-391.	1.4	28
177	Measuring zinc in biological nanovesicles by multiple analytical approaches. <i>Journal of Trace Elements in Medicine and Biology</i> , 2018, 48, 58-66.	3.0	5
178	Particle sizing from Fraunhofer diffraction pattern using a digital micro-mirror device and a single photodiode. <i>Powder Technology</i> , 2018, 332, 351-358.	4.2	7
179	Strategies for enumeration of circulating microvesicles on a conventional flow cytometer. <i>Journal of Circulating Biomarkers</i> , 2018, 7, 184945441876696.	1.3	13
180	Standardization of extracellular vesicle measurements by flow cytometry through vesicle diameter approximation. <i>Journal of Thrombosis and Haemostasis</i> , 2018, 16, 1236-1245.	3.8	130

#	ARTICLE	IF	CITATIONS
181	Detailed analysis of the plasma extracellular vesicle proteome after separation from lipoproteins. Cellular and Molecular Life Sciences, 2018, 75, 2873-2886.	5.4	368
182	Extracellular Vesicles in Human Reproduction in Health and Disease. Endocrine Reviews, 2018, 39, 292-332.	20.1	146
183	Platelet-derived microparticles analysis: Techniques, challenges and recommendations. Analytical Biochemistry, 2018, 546, 78-85.	2.4	32
184	Exosomes with Highly Angiogenic Potential for Possible Use in Pulp Regeneration. Journal of Endodontics, 2018, 44, 751-758.	3.1	60
185	CD63, MHC class 1, and CD47 identify subsets of extracellular vesicles containing distinct populations of noncoding RNAs. Scientific Reports, 2018, 8, 2577.	3.3	34
186	Ascent of atomic force microscopy as a nanoanalytical tool for exosomes and other extracellular vesicles. Nanotechnology, 2018, 29, 132001.	2.6	81
187	Exosomal microRNAs (exomiRs): Small molecules with a big role in cancer. Cancer Letters, 2018, 420, 228-235.	7.2	178
188	Effects of electroformation protocol parameters on quality of homogeneous GUV populations. Chemistry and Physics of Lipids, 2018, 212, 88-95.	3.2	20
189	Absolute sizing and label-free identification of extracellular vesicles by flow cytometry. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 801-810.	3.3	105
190	Protein Profiling and Sizing of Extracellular Vesicles from Colorectal Cancer Patients <i>via</i> Flow Cytometry. ACS Nano, 2018, 12, 671-680.	14.6	333
191	Bioadhesive Chitosan-Coated Cationic Nanoliposomes With Improved Insulin Encapsulation and Prolonged Oral Hypoglycemic Effect in Diabetic Mice. Journal of Pharmaceutical Sciences, 2018, 107, 2136-2143.	3.3	41
192	Review: Isolation and Detection of Tumor-Derived Extracellular Vesicles. ACS Applied Nano Materials, 2018, 1, 2004-2020.	5.0	36
193	Cancer Exosomes for Early Pancreatic Cancer Diagnosis and Role in Metastasis. , 2018, , 1361-1377.		0
194	Dynamic Scaling of Exosome Sizes. Langmuir, 2018, 34, 9387-9393.	3.5	32
195	An Iterative Algorithm Based on the Dual Integral Inversion for Particle Sizing. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1729-1737.	4.7	3
196	Application of a novel new multispectral nanoparticle tracking technique. Measurement Science and Technology, 2018, 29, 065002.	2.6	10
197	PKH26 labeling of extracellular vesicles: Characterization and cellular internalization of contaminating PKH26 nanoparticles. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1350-1361.	2.6	198
198	Helium alters the cytoskeleton and decreases permeability in endothelial cells cultured in vitro through a pathway involving Caveolin-1. Scientific Reports, 2018, 8, 4768.	3.3	10

#	ARTICLE	IF	CITATIONS
199	Morphological characterization of a plant-made virus-like particle vaccine bearing influenza virus hemagglutinins by electron microscopy. <i>Vaccine</i> , 2018, 36, 2147-2154.	3.8	37
200	Ubiquitin Conjugation Probed by Inflammation in Myeloid-Derived Suppressor Cell Extracellular Vesicles. <i>Journal of Proteome Research</i> , 2018, 17, 315-324.	3.7	13
201	Isolation, cultivation, and characterization of human mesenchymal stem cells. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2018, 93, 19-31.	1.5	374
202	Analysis of Individual Extracellular Vesicles by Flow Cytometry. <i>Methods in Molecular Biology</i> , 2018, 1678, 79-92.	0.9	86
203	Technical challenges of working with extracellular vesicles. <i>Nanoscale</i> , 2018, 10, 881-906.	5.6	366
204	Optical and surface plasmonic approaches to characterize extracellular vesicles. A review. <i>Analytica Chimica Acta</i> , 2018, 1005, 1-15.	5.4	31
205	Generation and Characterization of Cell-Derived Microvesicles from HUVECs. <i>BioNanoScience</i> , 2018, 8, 140-153.	3.5	2
206	Fibrous polymer nanomaterials for biomedical applications and their transport by fluids: an overview. <i>Soft Matter</i> , 2018, 14, 8421-8444.	2.7	15
207	Light-scattering detection within the difficult size range of protein particle measurement using flow cytometry. <i>Nanoscale</i> , 2018, 10, 19277-19285.	5.6	6
208	Extracellular vesicles as circulating cancer biomarkers: opportunities and challenges. <i>Clinical and Translational Medicine</i> , 2018, 7, 14.	4.0	178
209	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.	12.2	6,961
210	Cadmium-Free Quantum Dots as Fluorescent Labels for Exosomes. <i>Sensors</i> , 2018, 18, 3308.	3.8	22
211	Fetal Bovine Serum-Derived Extracellular Vesicles Persist within Vesicle-Depleted Culture Media. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3538.	4.1	79
212	Hepatocyte-Derived Lipotoxic Extracellular Vesicle Sphingosine 1-Phosphate Induces Macrophage Chemotaxis. <i>Frontiers in Immunology</i> , 2018, 9, 2980.	4.8	65
213	Rapid and accurate analysis of stem cell-derived extracellular vesicles with super resolution microscopy and live imaging. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2018, 1865, 1891-1900.	4.1	72
214	<i>Staphylococcus aureus</i> Extracellular Vesicles Elicit an Immunostimulatory Response in vivo on the Murine Mammary Gland. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 277.	3.9	54
215	Proteomics study of human cord blood reticulocyte-derived exosomes. <i>Scientific Reports</i> , 2018, 8, 14046.	3.3	32
216	Extracellular vesicles: translational challenges and opportunities. <i>Biochemical Society Transactions</i> , 2018, 46, 1073-1082.	3.4	40

#	ARTICLE	IF	CITATIONS
217	Light-Scattering Sizing of Single Submicron Particles by High-Sensitivity Flow Cytometry. Analytical Chemistry, 2018, 90, 12768-12775.	6.5	19
218	Interferometric plasmonic imaging and detection of single exosomes. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10275-10280.	7.1	140
219	Extracellular Vesicles as Biomarkers in Cardiovascular Disease; Chances and Risks. Frontiers in Cardiovascular Medicine, 2018, 5, 113.	2.4	112
220	Exosomes: Cellular capsules for drug delivery in Parkinson's disease. , 2018, , 91-151.		3
221	Deriving Extracellular Vesicle Size From Scatter Intensities Measured by Flow Cytometry. Current Protocols in Cytometry, 2018, 86, e43.	3.7	47
222	Ebola Virus VP40 Modulates Cell Cycle and Biogenesis of Extracellular Vesicles. Journal of Infectious Diseases, 2018, 218, S365-S387.	4.0	40
223	Advancements in microfluidic technologies for isolation and early detection of circulating cancer-related biomarkers. Analyst, The, 2018, 143, 2971-2991.	3.5	39
224	Preliminary investigation of extracellular vesicles in mammary cancer of dogs and cats: Identification and characterization. Veterinary and Comparative Oncology, 2018, 16, 489-496.	1.8	15
225	Emergence of exosomal DNA in molecular neuropathology. Laboratoriums Medizin, 2018, 42, 9-22.	0.6	3
226	Exosomes: A Paradigm in Drug Development against Cancer and Infectious Diseases. Journal of Nanomaterials, 2018, 2018, 1-17.	2.7	12
227	Ultrafiltration and size exclusion chromatography combined with asymmetrical flow field-flow fractionation for the isolation and characterisation of extracellular vesicles from urine. Journal of Extracellular Vesicles, 2018, 7, 1490143.	12.2	103
228	Factors relating to the biodistribution & clearance of nanoparticles & their effects on <i>in vivo</i> application. Nanomedicine, 2018, 13, 1495-1512.	3.3	132
229	Continuous detection of micro-particles by fiber Bragg grating Fabry-Pérot flow cytometer. Optics Express, 2018, 26, 12579.	3.4	8
230	Exploration of serum- and cell culture-derived exosomes from dogs. BMC Veterinary Research, 2018, 14, 179.	1.9	25
231	Nanoparticle tracking analysis versus dynamic light scattering: Case study on the effect of Ca <sup>2+</sup> and alginate on the aggregation of cerium oxide nanoparticles. Journal of Hazardous Materials, 2018, 360, 319-328.	12.4	47
232	Extracellular Vesicles as Markers and Mediators in Sepsis. Theranostics, 2018, 8, 3348-3365.	10.0	101
233	Multiparametric Analysis of Circulating Exosomes and Other Small Extracellular Vesicles by Advanced Imaging Flow Cytometry. Frontiers in Immunology, 2018, 9, 1583.	4.8	108
234	Micromeritics in Pharmaceutical Product Development. , 2018, , 599-635.		5

#	ARTICLE	IF	CITATIONS
235	“Exosomes” A Review of Biophysics, Biology and Biochemistry of Exosomes With a Focus on Human Breast Milk. <i>Frontiers in Genetics</i> , 2018, 9, 92.	2.3	143
236	Monitoring Extracellular Vesicle Cargo Active Uptake by Imaging Flow Cytometry. <i>Frontiers in Immunology</i> , 2018, 9, 1011.	4.8	47
237	Extracellular Vesicles and the Application of System Biology and Computational Modeling in Cardiac Repair. <i>Circulation Research</i> , 2018, 123, 188-204.	4.5	57
238	A Changeable Lab-on-a-Chip Detector for Marine Nonindigenous Microorganisms in Ship’s Ballast Water. <i>Micromachines</i> , 2018, 9, 20.	2.9	8
239	Analytical Considerations in Nanoscale Flow Cytometry of Extracellular Vesicles to Achieve Data Linearity. <i>Thrombosis and Haemostasis</i> , 2018, 118, 1612-1624.	3.4	34
240	Single-Vesicle Assays Using Liposomes and Cell-Derived Vesicles: From Modeling Complex Membrane Processes to Synthetic Biology and Biomedical Applications. <i>Chemical Reviews</i> , 2018, 118, 8598-8654.	47.7	112
241	Mass-Spectrometric Analysis of Proteome of Microvesicles Produced by NK-92 Natural Killer Cells. <i>Bulletin of Experimental Biology and Medicine</i> , 2018, 165, 564-571.	0.8	23
242	Optimal voltage for nanoparticle detection with thin nanopores. <i>Analyst, The</i> , 2018, 143, 4638-4645.	3.5	11
243	Extracellular Vesicles, Ageing, and Therapeutic Interventions. <i>Cells</i> , 2018, 7, 110.	4.1	35
244	Hollow organosilica beads as reference particles for optical detection of extracellular vesicles. <i>Journal of Thrombosis and Haemostasis</i> , 2018, 16, 1646-1655.	3.8	44
245	Analysis of Extracellular Vesicles Using Coffee Ring. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 22877-22882.	8.0	24
246	Extracellular Vesicles in Oncology: Progress and Pitfalls in the Methods of Isolation and Analysis. <i>Biotechnology Journal</i> , 2019, 14, e1700716.	3.5	67
247	Extracellular Vesicles: Nature’s Own Nanoparticles. , 2019, , 27-48.		5
248	Immuno-capture of extracellular vesicles for individual multi-modal characterization using AFM, SEM and Raman spectroscopy. <i>Lab on A Chip</i> , 2019, 19, 2526-2536.	6.0	48
249	Urinary extracellular vesicles as a source of biomarkers reflecting renal cellular biology in human disease. <i>Methods in Cell Biology</i> , 2019, 154, 43-65.	1.1	7
250	The trip of a drug inside the body: From a lipid-based nanocarrier to a target cell. <i>Journal of Controlled Release</i> , 2019, 309, 59-71.	9.9	9
251	Single-Dimer Formation Rate Reveals Heterogeneous Particle Surface Reactivity. <i>Langmuir</i> , 2019, 35, 14272-14281.	3.5	2
252	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.	12.2	177



#	ARTICLE	IF	CITATIONS
253	Exosomes derived from pro-inflammatory bone marrow-derived mesenchymal stem cells reduce inflammation and myocardial injury via mediating macrophage polarization. <i>Journal of Cellular and Molecular Medicine</i> , 2019, 23, 7617-7631.	3.6	165
254	&lt;p&gt;Exosomes from Î²-cells alleviated hyperglycemia and enhanced angiogenesis in islets of streptozotocin-induced diabetic mice&lt;/p&gt;. <i>Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy</i> , 2019, Volume 12, 2053-2064.	2.4	27
255	Guidelines for the use of flow cytometry and cell sorting in immunological studies (second edition). <i>European Journal of Immunology</i> , 2019, 49, 1457-1973.	2.9	766
256	Leukocyte-Derived Extracellular Vesicles in Blood with and without EpCAM Enrichment. <i>Cells</i> , 2019, 8, 937.	4.1	11
257	Functional exosome-mediated co-delivery of doxorubicin and hydrophobically modified microRNA 159 for triple-negative breast cancer therapy. <i>Journal of Nanobiotechnology</i> , 2019, 17, 93.	9.1	207
258	DNA analysis of low- and high-density fractions defines heterogeneous subpopulations of small extracellular vesicles based on their DNA cargo and topology. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1656993.	12.2	126
259	Coagulation Activity of Membrane Microparticles. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2019, 13, 169-186.	0.6	4
260	MSC-Derived Exosomes-Based Therapy for Peripheral Nerve Injury: A Novel Therapeutic Strategy. <i>BioMed Research International</i> , 2019, 2019, 1-12.	1.9	102
261	Acidification effects on isolation of extracellular vesicles from bovine milk. <i>PLoS ONE</i> , 2019, 14, e0222613.	2.5	49
262	Deep-Learning-Based Segmentation of Small Extracellular Vesicles in Transmission Electron Microscopy Images. <i>Scientific Reports</i> , 2019, 9, 13211.	3.3	32
263	Washing or filtering of blood products does not improve outcome in a rat model of trauma and multiple transfusion. <i>Transfusion</i> , 2019, 59, 134-145.	1.6	9
264	A dual signal amplification method for exosome detection based on DNA dendrimer self-assembly. <i>Analyst</i> , The, 2019, 144, 1995-2002.	3.5	61
265	Unique Calibrators Derived from Fluorescence-Activated Nanoparticle Sorting for Flow Cytometric Size Estimation of Artificial Vesicles: Possibilities and Limitations. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2019, 95, 917-924.	1.5	12
266	High-fidelity detection and sorting of nanoscale vesicles in viral disease and cancer. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1597603.	12.2	83
267	Potential therapeutic applications of exosomes in different autoimmune diseases. <i>Clinical Immunology</i> , 2019, 205, 116-124.	3.2	47
268	Toward standardization of assays measuring extracellular vesicle-associated tissue factor activity. <i>Journal of Thrombosis and Haemostasis</i> , 2019, 17, 1261-1264.	3.8	10
269	Particle size analyses of polydisperse liposome formulations with a novel multispectral advanced nanoparticle tracking technology. <i>International Journal of Pharmaceutics</i> , 2019, 566, 680-686.	5.2	29
270	What information can be obtained from the tears of a patient with primary open angle glaucoma?. <i>Clinica Chimica Acta</i> , 2019, 495, 529-537.	1.1	38



#	ARTICLE	IF	CITATIONS
271	Involvement of Extracellular Vesicles in Vascular-Related Functions in Cancer Progression and Metastasis. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2584.	4.1	53
272	Cardioprotective role of extracellular vesicles: A highlight on exosome beneficial effects in cardiovascular diseases. <i>Journal of Cellular Physiology</i> , 2019, 234, 21732-21745.	4.1	59
273	Simply Mixing Poly Protein G with Detection Antibodies Enhances the Detection Limit and Sensitivity of Immunoassays. <i>Analytical Chemistry</i> , 2019, 91, 8310-8317.	6.5	7
274	Temperature/pH-Triggered PNIPAM-Based Smart Nanogel System Loaded With Anastrozole Delivery for Application in Cancer Chemotherapy. <i>AAPS PharmSciTech</i> , 2019, 20, 213.	3.3	27
275	The Incorporation of Extracellular Vesicles from Mesenchymal Stromal Cells Into CD34+ Cells Increases Their Clonogenic Capacity and Bone Marrow Lodging Ability. <i>Stem Cells</i> , 2019, 37, 1357-1368.	3.2	14
276	Plasmo-fluidic Microlenses for Label-Free Optical Sorting of Exosomes. <i>Scientific Reports</i> , 2019, 9, 8593.	3.3	9
277	On-site cell concentration and viability detections using smartphone based field-portable cell counter. <i>Analytica Chimica Acta</i> , 2019, 1077, 216-224.	5.4	11
278	Extracellular vesicle identification in tooth movement models. <i>Orthodontics and Craniofacial Research</i> , 2019, 22, 101-106.	2.8	12
279	Resistive Pulse Sensing as a High-Resolution Nanoparticle Sizing Method: A Comparative Study. <i>Particle and Particle Systems Characterization</i> , 2019, 36, 1800543.	2.3	1
280	A simple approach for rapid and cost-effective quantification of extracellular vesicles using a fluorescence polarization technique. <i>Journal of Biological Engineering</i> , 2019, 13, 31.	4.7	20
281	Quantitative measurement of aggregation kinetics process of nanoparticles using nanoparticle tracking analysis and dynamic light scattering. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	1.9	10
282	Platelet-Derived Extracellular Vesicles. , 2019, , 401-416.		24
283	Extracellular vesicles in autoimmune vasculitis - Little dirt lights the fire in blood vessels. <i>Autoimmunity Reviews</i> , 2019, 18, 593-606.	5.8	29
284	RhoA inhibitor suppresses the production of microvesicles and rescues high ventilation induced lung injury. <i>International Immunopharmacology</i> , 2019, 72, 74-81.	3.8	25
285	Flow Cytometric Analysis of Nanoscale Biological Particles and Organelles. <i>Annual Review of Analytical Chemistry</i> , 2019, 12, 389-409.	5.4	47
286	Extracellular vesicle measurements with nanoparticle tracking analysis – An accuracy and repeatability comparison between NanoSight NS300 and ZetaView. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1596016.	12.2	318
287	Response to – Technical approaches to reduce interference of Fetal calf serum derived RNA in the analysis of extracellular vesicle RNA from cultured cells –. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1599681.	12.2	4
288	The emerging role of exosomes in mental disorders. <i>Translational Psychiatry</i> , 2019, 9, 122.	4.8	273

#	ARTICLE	IF	CITATIONS
289	Molecular Mechanisms Underpinning Microparticle-Mediated Cellular Injury in Cardiovascular Complications Associated with Diabetes. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-23.	4.0	17
290	Navigating the Landscape of Tumor Extracellular Vesicle Heterogeneity. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1349.	4.1	39
291	Optimisation of imaging flow cytometry for the analysis of single extracellular vesicles by using fluorescence- $\epsilon$ tagged vesicles as biological reference material. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1587567.	12.2	224
292	Imaging flow cytometry facilitates multiparametric characterization of extracellular vesicles in malignant brain tumours. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1588555.	12.2	86
293	Clinical requirements for extracellular vesicle assays. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1593755.	12.2	69
294	Glycosylation of ascites-derived exosomal CD133: a potential prognostic biomarker in patients with advanced pancreatic cancer. <i>Medical Molecular Morphology</i> , 2019, 52, 198-208.	1.0	36
295	TEM ExosomeAnalyzer: a computer- $\epsilon$ assisted software tool for quantitative evaluation of extracellular vesicles in transmission electron microscopy images. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1560808.	12.2	36
296	Murine trophoblast-derived and pregnancy-associated exosome-enriched extracellular vesicle microRNAs: Implications for placenta driven effects on maternal physiology. <i>PLoS ONE</i> , 2019, 14, e0210675.	2.5	28
297	Probable Role of Non-exosomal Extracellular Vesicles in Colorectal Cancer Metastasis to Kidney: An In Vitro Cell Line Based Study and Image Analysis. , 2019, , 163-174.		0
298	Exosomes from Cell Culture-Conditioned Medium: Isolation by Ultracentrifugation and Characterization. <i>Methods in Molecular Biology</i> , 2019, 1952, 233-244.	0.9	53
299	Single molecule characterization of individual extracellular vesicles from pancreatic cancer. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1685634.	12.2	60
300	Mesenchymal stem cell-derived exosomal microRNA-133b suppresses glioma progression via Wnt/ $\beta$ -catenin signaling pathway by targeting EZH2. <i>Stem Cell Research and Therapy</i> , 2019, 10, 381.	5.5	106
301	Nanoparticle Tracking of Adenovirus by Light Scattering and Fluorescence Detection. <i>Human Gene Therapy Methods</i> , 2019, 30, 235-244.	2.1	10
302	Platelet-Derived Extracellular Vesicles as Target of Antiplatelet Agents. What Is the Evidence?. <i>Frontiers in Pharmacology</i> , 2019, 10, 1256.	3.5	34
303	Extracellular vesicles and coagulation in blood from healthy humans revisited. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1688936.	12.2	60
304	Aptamer recognition-triggered label-free homogeneous electrochemical strategy for an ultrasensitive cancer-derived exosome assay. <i>Chemical Communications</i> , 2019, 55, 13705-13708.	4.1	102
305	Dielectrophoretic separation of microalgae cells in ballast water in a microfluidic chip. <i>Electrophoresis</i> , 2019, 40, 969-978.	2.4	24
306	Characterization of heat shock protein 27 in extracellular vesicles: a potential anti- $\epsilon$ inflammatory therapy. <i>FASEB Journal</i> , 2019, 33, 1617-1630.	0.5	47

#	ARTICLE	IF	CITATIONS
307	Comparison of small extracellular vesicles isolated from plasma by ultracentrifugation or sizeâ€ exclusion chromatography: yield, purity and functional potential. Journal of Extracellular Vesicles, 2019, 8, 1560809.	12.2	254
308	Vaccine nanoparticles displaying recombinant Ebola virus glycoprotein for induction of potent antibody and polyfunctional T cell responses. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 18, 414-425.	3.3	17
309	Isolation and Flow Cytometry Characterization of Extracellularâ€ Vesicle Subpopulations Derived from Human Mesenchymal Stromal Cells. Current Protocols in Stem Cell Biology, 2019, 48, e76.	3.0	25
310	CNS-derived extracellular vesicles from superoxide dismutase 1 (SOD1)G93A ALS mice originate from astrocytes and neurons and carry misfolded SOD1. Journal of Biological Chemistry, 2019, 294, 3744-3759.	3.4	97
311	Quality of extracellular vesicle images by transmission electron microscopy is operator and protocol dependent. Journal of Extracellular Vesicles, 2019, 8, 1555419.	12.2	140
312	Critical Evaluation of Microfluidic Resistive Pulse Sensing for Quantification and Sizing of Nanometer- and Micrometer-Sized Particles in Biopharmaceutical Products. Journal of Pharmaceutical Sciences, 2019, 108, 563-573.	3.3	40
313	Exosomes and microvesicles in normal physiology, pathophysiology, and renal diseases. Pediatric Nephrology, 2019, 34, 11-30.	1.7	230
314	The Potential of Stem Cells and Stem Cell-Derived Exosomes in Treating Cardiovascular Diseases. Journal of Cardiovascular Translational Research, 2019, 12, 51-61.	2.4	16
315	Preparation and in vitro evaluation of in situ gelling system containing lithium carbonate for parenteral administration. Polymer Bulletin, 2020, 77, 599-622.	3.3	3
316	Application of high-sensitivity flow cytometry in combination with low-voltage scanning electron microscopy for characterization of nanosized objects during platelet concentrate storage. Platelets, 2020, 31, 226-235.	2.3	11
317	Tumor-derived extracellular vesicles: insights into bystander effects of exosomes after irradiation. Lasers in Medical Science, 2020, 35, 531-545.	2.1	49
318	FCM<sub>PASS</sub> Software Aids Extracellular Vesicle Light Scatter Standardization. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2020, 97, 569-581.	1.5	58
319	Tunable resistive pulse sensing (TRPS). , 2020, , 117-136.		4
320	Application of advanced quantification techniques in nanoparticle-based vaccine development with the Sf9 cell baculovirus expression system. Vaccine, 2020, 38, 1849-1859.	3.8	17
321	Advances in biosensing technologies for analysis of cancer-derived exosomes. TrAC - Trends in Analytical Chemistry, 2020, 123, 115773.	11.4	29
322	Therapeutic mesenchymal stromal stem cells: Isolation, characterization and role in equine regenerative medicine and metabolic disorders. Stem Cell Reviews and Reports, 2020, 16, 301-322.	3.8	27
323	Real-time imaging of multivesicular bodyâ€ plasma membrane fusion to quantify exosome release from single cells. Nature Protocols, 2020, 15, 102-121.	12.0	84
324	Quality and efficiency assessment of six extracellular vesicle isolation methods by nanoâ€ flow cytometry. Journal of Extracellular Vesicles, 2020, 9, 1697028.	12.2	353

#	ARTICLE	IF	CITATIONS
325	Extracellular Vesicles as an Efficient and Versatile System for Drug Delivery. <i>Cells</i> , 2020, 9, 2191.	4.1	66
326	Circulating exosomal <scp>microRNAs</scp> as emerging nonâ€invasive clinical biomarkers in heart failure: Mega bioâ€™roles of a nano bioâ€™particle. <i>IUBMB Life</i> , 2020, 72, 2546-2562.	3.4	26
327	Human Umbilical Cord Mesenchymal Stem Cell-Derived Small Extracellular Vesicles Alleviate Lung Injury in Rat Model of Bronchopulmonary Dysplasia by Affecting Cell Survival and Angiogenesis. <i>Stem Cells and Development</i> , 2020, 29, 1520-1532.	2.1	36
328	Towards defining reference materials for measuring extracellular vesicle refractive index, epitope abundance, size and concentration. <i>Journal of Extracellular Vesicles</i> , 2020, 9, 1816641.	12.2	70
329	Simple and Fast SEC-Based Protocol to Isolate Human Plasma-Derived Extracellular Vesicles for Transcriptional Research. <i>Molecular Therapy - Methods and Clinical Development</i> , 2020, 18, 723-737.	4.1	24
330	Characterizing Extracellular Vesicles and Their Diverse RNA Contents. <i>Frontiers in Genetics</i> , 2020, 11, 700.	2.3	150
331	Extracellular vesicles as biomarkers in liver diseases: A clinician's point of view. <i>Journal of Hepatology</i> , 2020, 73, 1507-1525.	3.7	105
332	Particle Size Distribution of Bimodal Silica Nanoparticles: A Comparison of Different Measurement Techniques. <i>Materials</i> , 2020, 13, 3101.	2.9	11
333	Particle Detection and Characterization for Biopharmaceutical Applications: Current Principles of Established and Alternative Techniques. <i>Pharmaceutics</i> , 2020, 12, 1112.	4.5	33
334	Indirect capillary electrophoresis immunoassay of membrane protein in extracellular vesicles. <i>Journal of Chromatography A</i> , 2020, 1629, 461513.	3.7	10
335	Features of Sizing and Enumeration of Silica and Polystyrene Nanoparticles by Nanoparticle Tracking Analysis (NTA). <i>Sensors</i> , 2020, 20, 6611.	3.8	12
336	Microvesicles Produced by Natural Killer Cells Regulate the Formation of Blood Vessels. <i>Bulletin of Experimental Biology and Medicine</i> , 2020, 170, 123-127.	0.8	3
337	FRET-Based Assay for the Quantification of Extracellular Vesicles and Other Vesicles of Complex Composition. <i>Analytical Chemistry</i> , 2020, 92, 15336-15343.	6.5	18
338	Extracellular Vesicle-Based Therapeutics: Preclinical and Clinical Investigations. <i>Pharmaceutics</i> , 2020, 12, 1171.	4.5	60
339	Extracellular Vesicles and the Oviduct Function. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8280.	4.1	35
340	Impact of isolation methods on the biophysical heterogeneity of single extracellular vesicles. <i>Scientific Reports</i> , 2020, 10, 13327.	3.3	30
341	Extracellular vesicle-based liquid biopsy holds great promise for the management of ovarian cancer. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2020, 1874, 188395.	7.4	14
342	Exosomes in Tumor Immunotherapy: Mediator, Drug Carrier, and Prognostic Biomarker. <i>Advanced Biology</i> , 2020, 4, 2000061.	3.0	6

#	ARTICLE	IF	CITATIONS
343	Increased prediction value of biomarker combinations for the conversion of mild cognitive impairment to Alzheimer's dementia. Translational Neurodegeneration, 2020, 9, 30.	8.0	42
344	The Convergence of Extracellular Vesicle and GPCR Biology. Trends in Pharmacological Sciences, 2020, 41, 627-640.	8.7	21
345	The Emerging Role of Extracellular Vesicles in the Glioma Microenvironment: Biogenesis and Clinical Relevance. Cancers, 2020, 12, 1964.	3.7	19
346	Recent Advances in the Use of Exosomes in Sjögren's Syndrome. Frontiers in Immunology, 2020, 11, 1509.	4.8	27
347	Aptasensor-enabled quantitative analysis of nano-sized extracellular vesicles by flow cytometry. Analyst, The, 2020, 145, 7551-7558.	3.5	6
348	Interplay between Endoplasmic Reticulum Stress and Large Extracellular Vesicles (Microparticles) in Endothelial Cell Dysfunction. Biomedicines, 2020, 8, 409.	3.2	13
349	Diameters and Fluorescence Calibration for Extracellular Vesicle Analyses by Flow Cytometry. International Journal of Molecular Sciences, 2020, 21, 7885.	4.1	35
350	Nano-Vesicle (Mis)Communication in Senescence-Related Pathologies. Cells, 2020, 9, 1974.	4.1	26
351	Extracellular Vesicles in Essential Hypertension: Hidden Messengers. Current Hypertension Reports, 2020, 22, 76.	3.5	12
352	Mesenchymal stem cell-based cell-free strategies: safe and effective treatments for liver injury. Stem Cell Research and Therapy, 2020, 11, 377.	5.5	80
353	Characterization of brain-derived extracellular vesicles reveals changes in cellular origin after stroke and enrichment of the prion protein with a potential role in cellular uptake. Journal of Extracellular Vesicles, 2020, 9, 1809065.	12.2	47
354	Exosomal microRNA-139-5p from mesenchymal stem cells accelerates trophoblast cell invasion and migration by motivation of the ERK/MMP-2 pathway via downregulation of protein tyrosine phosphatase. Journal of Obstetrics and Gynaecology Research, 2020, 46, 2561-2572.	1.3	22
355	Methodological Approaches to Assessing the Size and Morphology of Microvesicles of Cell Lines. Bulletin of Experimental Biology and Medicine, 2020, 169, 586-595.	0.8	2
356	Measuring Extracellular Vesicles by Conventional Flow Cytometry: Dream or Reality?. International Journal of Molecular Sciences, 2020, 21, 6257.	4.1	19
357	Enrichment of plasma extracellular vesicles for reliable quantification of their size and concentration for biomarker discovery. Scientific Reports, 2020, 10, 21346.	3.3	28
358	Considerations for the Analysis of Small Extracellular Vesicles in Physical Exercise. Frontiers in Physiology, 2020, 11, 576150.	2.8	14
359	Heterogeneity of the nucleic acid repertoire of plasma extracellular vesicles demonstrated using high-sensitivity fluorescence-activated sorting. Journal of Extracellular Vesicles, 2020, 9, 1743139.	12.2	27
360	Novel Applications of Mesenchymal Stem Cell-Derived Exosomes for Myocardial Infarction Therapeutics. Biomolecules, 2020, 10, 707.	4.0	53

#	ARTICLE	IF	CITATIONS
361	The role of extracellular vesicles from stored RBC units in B lymphocyte survival and plasma cell differentiation. <i>Journal of Leukocyte Biology</i> , 2020, 108, 1765-1776.	3.3	10
362	MiR-519d-3p in Trophoblastic Cells: Effects, Targets and Transfer to Allogeneic Immune Cells via Extracellular Vesicles. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3458.	4.1	27
363	Mesenchymal Stem/Stromal Cell-Derived Exosomes for Immunomodulatory Therapeutics and Skin Regeneration. <i>Cells</i> , 2020, 9, 1157.	4.1	270
364	Modeling EV Kinetics for Use in Early Cancer Detection. <i>Advanced Biology</i> , 2020, 4, e1900305.	3.0	33
365	Joint Reconstituted Signaling of the IL-6 Receptor via Extracellular Vesicles. <i>Cells</i> , 2020, 9, 1307.	4.1	16
366	Solid-phase extraction of exosomes from diverse matrices via a polyester capillary-channeled polymer (C-CP) fiber stationary phase in a spin-down tip format. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 4713-4724.	3.7	17
367	RNA delivery by extracellular vesicles in mammalian cells and its applications. <i>Nature Reviews Molecular Cell Biology</i> , 2020, 21, 585-606.	37.0	1,010
368	Antibody-Free Labeling of Malaria-Derived Extracellular Vesicles Using Flow Cytometry. <i>Biomedicines</i> , 2020, 8, 98.	3.2	3
369	Systematic Evaluation of PKH Labelling on Extracellular Vesicle Size by Nanoparticle Tracking Analysis. <i>Scientific Reports</i> , 2020, 10, 9533.	3.3	63
370	Modeling of the immune response in the pathogenesis of solid tumors and its prognostic significance. <i>Cellular Oncology (Dordrecht)</i> , 2020, 43, 539-575.	4.4	9
371	Detection of extracellular vesicles in plasma and urine of prostate cancer patients by flow cytometry and surface plasmon resonance imaging. <i>PLoS ONE</i> , 2020, 15, e0233443.	2.5	17
372	Aiming to Compare Apples to Apples: Analysis of Extracellular Vesicles and Other Nanosized Particles by Flow Cytometry. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2020, 97, 566-568.	1.5	5
373	Monolithically-integrated cytometer for measuring particle diameter in the extracellular vesicle size range using multi-angle scattering. <i>Lab on A Chip</i> , 2020, 20, 1267-1280.	6.0	2
374	Immune Cell-Derived Exosomes in the Cancer-Immunity Cycle. <i>Trends in Cancer</i> , 2020, 6, 506-517.	7.4	95
375	Proteomic Analysis of Blood Exosomes from Healthy Females and Breast Cancer Patients Reveals an Association between Different Exosomal Bioactivity on Non-tumorigenic Epithelial Cell and Breast Cancer Cell Migration in Vitro. <i>Biomolecules</i> , 2020, 10, 495.	4.0	27
376	Role of exosomes and exosomal microRNAs in cancer. <i>Future Science OA</i> , 2020, 6, FSO465.	1.9	88
377	Multifunctional Detection of Extracellular Vesicles with Surface Plasmon Resonance Microscopy. <i>Analytical Chemistry</i> , 2020, 92, 4884-4890.	6.5	49
378	Silymarin encapsulated nanoliquid crystals for improved activity against beta amyloid induced cytotoxicity. <i>International Journal of Biological Macromolecules</i> , 2020, 149, 1198-1206.	7.5	40



#	ARTICLE	IF	CITATIONS
379	Recent advances in single extracellular vesicle detection methods. <i>Biosensors and Bioelectronics</i> , 2020, 154, 112056.	10.1	56
380	Label-free identification and chemical characterisation of single extracellular vesicles and lipoproteins by synchronous Rayleigh and Raman scattering. <i>Journal of Extracellular Vesicles</i> , 2020, 9, 1730134.	12.2	37
381	Free and hydrogel encapsulated exosome-based therapies in regenerative medicine. <i>Life Sciences</i> , 2020, 249, 117447.	4.3	106
382	Quality Assessment of Virus-Like Particles at Single Particle Level: A Comparative Study. <i>Viruses</i> , 2020, 12, 223.	3.3	30
383	Double imprinting-based electrochemical detection of mimetic exosomes. <i>Journal of Electroanalytical Chemistry</i> , 2020, 862, 113969.	3.8	4
384	Plasma mEV levels in Ghanaian malaria patients with low parasitaemia are higher than those of healthy controls, raising the potential for parasite markers in mEVs as diagnostic targets. <i>Journal of Extracellular Vesicles</i> , 2020, 9, 1697124.	12.2	24
385	High-Fidelity Single Molecule Quantification in a Flow Cytometer Using Multiparametric Optical Analysis. <i>ACS Nano</i> , 2020, 14, 2324-2335.	14.6	22
386	Holographic detection of nanoparticles using acoustically actuated nanolenses. <i>Nature Communications</i> , 2020, 11, 171.	12.8	26
387	A comparison of methods for the isolation and separation of extracellular vesicles from protein and lipid particles in human serum. <i>Scientific Reports</i> , 2020, 10, 1039.	3.3	477
388	A Systematic Approach to Improve Scatter Sensitivity of a Flow Cytometer for Detection of Extracellular Vesicles. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2020, 97, 582-591.	1.5	18
389	Potential Use of Extracellular Vesicles Generated by Microbubble-Assisted Ultrasound as Drug Nanocarriers for Cancer Treatment. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3024.	4.1	13
390	Quantification of the HIV-1 virus-like particle production process by super-resolution imaging: From VLP budding to nanoparticle analysis. <i>Biotechnology and Bioengineering</i> , 2020, 117, 1929-1945.	3.3	15
391	Cancer-ID: Toward Identification of Cancer by Tumor-Derived Extracellular Vesicles in Blood. <i>Frontiers in Oncology</i> , 2020, 10, 608.	2.8	20
392	Size Measurement of Extracellular Vesicles and Synthetic Liposomes: The Impact of the Hydration Shell and the Protein Corona. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 192, 111053.	5.0	64
393	Immunoassay-type biosensor based on magnetic nanoparticle capture and the fluorescence signal formed by horseradish peroxidase catalysis for tumor-related exosome determination. <i>Mikrochimica Acta</i> , 2020, 187, 282.	5.0	27
394	Ageing and mesenchymal stem cells derived exosomes: Molecular insight and challenges. <i>Cell Biochemistry and Function</i> , 2021, 39, 60-66.	2.9	63
395	Recent advances in nanomaterial-based biosensors for the detection of exosomes. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 83-102.	3.7	41
396	Inter-Laboratory Comparison of Extracellular Vesicle Isolation Based on Ultracentrifugation. <i>Transfusion Medicine and Hemotherapy</i> , 2021, 48, 48-59.	1.6	30

#	ARTICLE	IF	CITATIONS
397	Challenges in the development and establishment of exosome-based drug delivery systems. Journal of Controlled Release, 2021, 329, 894-906.	9.9	154
398	An Emerging Fluorescence-Based Technique for Quantification and Protein Profiling of Extracellular Vesicles. SLAS Technology, 2021, 26, 189-199.	1.9	5
399	Molecular cargo in myeloid-derived suppressor cells and their exosomes. Cellular Immunology, 2021, 359, 104258.	3.0	17
400	Molecular recognition triggered aptazyme cascade for ultrasensitive detection of exosomes in clinical serum samples. Chinese Chemical Letters, 2021, 32, 1827-1830.	9.0	23
401	Spinal cord injury alters microRNA and CD81+ exosome levels in plasma extracellular nanoparticles with neuroinflammatory potential. Brain, Behavior, and Immunity, 2021, 92, 165-183.	4.1	62
402	Generation and Long-Term Stability of Ultrafine Bubbles in Water. Chemie-Ingenieur-Technik, 2021, 93, 168-179.	0.8	11
403	Isolation and analysis methods of extracellular vesicles (EVs). , 2021, 2, 80-103.		32
404	Astrocyte-Derived Extracellular Vesicles (ADEVs): Deciphering their Influences in Aging. , 2021, 12, 1462.		11
405	Plasma Concentrations of Extracellular Vesicles Are Decreased in Patients with Post-Infarct Cardiac Remodelling. Biology, 2021, 10, 97.	2.8	8
406	Grapefruit-derived extracellular vesicles as a promising cell-free therapeutic tool for wound healing. Food and Function, 2021, 12, 5144-5156.	4.6	49
407	Nano-pharmacokinetics: biodistribution and toxicology. , 2021, , 117-152.		0
408	Conventional, High-Resolution and Imaging Flow Cytometry: Benchmarking Performance in Characterisation of Extracellular Vesicles. Biomedicines, 2021, 9, 124.	3.2	21
409	Recombinant extracellular vesicles as biological reference material for method development, data normalization and assessment of (pre-)analytical variables. Nature Protocols, 2021, 16, 603-633.	12.0	23
411	Foetal bovine serum influence on in vitro extracellular vesicle analyses. Journal of Extracellular Vesicles, 2021, 10, e12061.	12.2	56
412	The Evolving Landscape of Exosomes in Neurodegenerative Diseases: Exosomes Characteristics and a Promising Role in Early Diagnosis. International Journal of Molecular Sciences, 2021, 22, 440.	4.1	84
413	Structural and mechanical characteristics of exosomes from osteosarcoma cells explored by 3D-atomic force microscopy. Nanoscale, 2021, 13, 6661-6677.	5.6	28
414	Measuring particle concentration of multimodal synthetic reference materials and extracellular vesicles with orthogonal techniques: Who is up to the challenge?. Journal of Extracellular Vesicles, 2021, 10, e12052.	12.2	57
415	Recent advances in nanotechnology-based cell toxicity evaluation approaches relevant to biofuels and bioenergy applications. , 2021, , 713-735.		0



#	ARTICLE	IF	CITATIONS
416	Identification of extracellular nanoparticle subsets by nuclear magnetic resonance. <i>Chemical Science</i> , 2021, 12, 8311-8319.	7.4	8
417	Microvesicles produced by monocytes affect the phenotype and functions of endothelial cells. <i>AIMS Allergy and Immunology</i> , 2021, 5, 135-159.	0.5	1
418	Zoom in on Antibody Aggregates: A Potential Pitfall in the Search of Rare EV Populations. <i>Biomedicines</i> , 2021, 9, 206.	3.2	2
419	Quantum approach for nanoparticle fluorescence by sub- $\mu$ s photon detection. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2021, 99, 145-151.	1.5	4
420	FO-SPR biosensor calibrated with recombinant extracellular vesicles enables specific and sensitive detection directly in complex matrices. <i>Journal of Extracellular Vesicles</i> , 2021, 10, e12059.	12.2	10
421	Platelet, Red Cell, and Endothelial Activation and Injury During Extracorporeal Membrane Oxygenation. <i>ASAIO Journal</i> , 2021, 67, 935-942.	1.6	10
423	High-Throughput Screening Platform for Nanoparticle-Mediated Alterations of DNA Repair Capacity. <i>ACS Nano</i> , 2021, 15, 4728-4746.	14.6	14
424	Preparing (Metalla)carboranes for Nanomedicine. <i>ChemMedChem</i> , 2021, 16, 1533-1565.	3.2	21
425	The Exosome-Associated Tetraspanin CD63 Contributes to the Efficient Assembly and Infectivity of the Hepatitis B Virus. <i>Hepatology Communications</i> , 2021, 5, 1238-1251.	4.3	17
426	Development of a Sensitive Diagnostic Assay for Parkinson Disease Quantifying $\alpha$ -Synuclein-Containing Extracellular Vesicles. <i>Neurology</i> , 2021, 96, e2332-e2345.	1.1	18
427	Exploring the Potential of Mesenchymal Stem Cell-Derived Exosomes for the Treatment of Alopecia. <i>Regenerative Engineering and Translational Medicine</i> , 2021, 7, 119-128.	2.9	5
428	Multiparametric Profiling of Single Nanoscale Extracellular Vesicles by Combined Atomic Force and Fluorescence Microscopy: Correlation and Heterogeneity in Their Molecular and Biophysical Features. <i>Small</i> , 2021, 17, e2008155.	10.0	31
429	Stem Cell-Derived Exosomes: a New Strategy of Neurodegenerative Disease Treatment. <i>Molecular Neurobiology</i> , 2021, 58, 3494-3514.	4.0	60
430	Characterization of extracellular vesicles and synthetic nanoparticles with four orthogonal single-particle analysis platforms. <i>Journal of Extracellular Vesicles</i> , 2021, 10, e12079.	12.2	97
431	Effect of various dialysis modalities on intradialytic hemodynamics, tissue injury and patient discomfort in chronic dialysis patients: design of a randomized cross-over study (HOLLANT). <i>BMC Nephrology</i> , 2021, 22, 131.	1.8	2
432	Standardized procedure to measure the size distribution of extracellular vesicles together with other particles in biofluids with microfluidic resistive pulse sensing. <i>PLoS ONE</i> , 2021, 16, e0249603.	2.5	14
433	In vivo organized neovascularization induced by 3D bioprinted endothelial-derived extracellular vesicles. <i>Biofabrication</i> , 2021, 13, 035014.	7.1	21
434	The Mystery of Red Blood Cells Extracellular Vesicles in Sleep Apnea with Metabolic Dysfunction. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4301.	4.1	6

#	ARTICLE	IF	CITATIONS
435	Therapeutic and Diagnostic Translation of Extracellular Vesicles in Cardiovascular Diseases. <i>Circulation</i> , 2021, 143, 1426-1449.	1.6	116
436	Perspectives of Microscopy Methods for Morphology Characterisation of Extracellular Vesicles from Human Biofluids. <i>Biomedicines</i> , 2021, 9, 603.	3.2	43
437	High-Throughput Counting and Superresolution Mapping of Tetraspanins on Exosomes Using a Single-Molecule Sensitive Flow Technique and Transistor-Like Semiconducting Polymer Dots. <i>Angewandte Chemie</i> , 2021, 133, 13582-13587.	2.0	5
438	High-Throughput Counting and Superresolution Mapping of Tetraspanins on Exosomes Using a Single-Molecule Sensitive Flow Technique and Transistor-Like Semiconducting Polymer Dots. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13470-13475.	13.8	27
439	MALDI-TOF mass spectrometric protein profiling of THP-1 cells and their microvesicles. <i>Medical Immunology (Russia)</i> , 2021, 23, 275-292.	0.4	0
440	Analysis of Amount, Size, Protein Phenotype and Molecular Content of Circulating Extracellular Vesicles Identifies New Biomarkers in Multiple Myeloma. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 3141-3160.	6.7	14
441	Extracellular vesicle interplay in cardiovascular pathophysiology. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 320, H1749-H1761.	3.2	23
442	Emerging methods in biomarker identification for extracellular vesicle-based liquid biopsy. <i>Journal of Extracellular Vesicles</i> , 2021, 10, e12090.	12.2	77
443	Multifluorescence Single Extracellular Vesicle Analysis by Time-Sequential Illumination and Tracking. <i>ACS Nano</i> , 2021, 15, 11753-11761.	14.6	24
444	Extracellular Vesicles from Human Plasma Show a Distinctive Proteome and miRNome Profile in Patients with Severe Cutaneous Adverse Reactions. <i>Chemical Research in Toxicology</i> , 2021, 34, 1738-1748.	3.3	3
446	Perspective insights and application of exosomes as a novel tool against neurodegenerative disorders: An expository appraisal. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 63, 102526.	3.0	1
447	Exosomes as Naturally Occurring Vehicles for Delivery of Biopharmaceuticals: Insights from Drug Delivery to Clinical Perspectives. <i>Nanomaterials</i> , 2021, 11, 1481.	4.1	74
448	Bone mesenchymal stem cell derived exosomes alleviate high phosphorus-induced calcification of vascular smooth muscle cells through the NONHSAT 084969.2/NF- $\kappa$ B axis. <i>Aging</i> , 2021, 13, 16749-16762.	3.1	7
449	Internalization of Neutrophil-Derived Microvesicles Modulates TNF $\alpha$ -Stimulated Proinflammatory Cytokine Production in Human Fibroblast-Like Synoviocytes. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7409.	4.1	13
450	Biophotonics for diagnostic detection of extracellular vesicles. <i>Advanced Drug Delivery Reviews</i> , 2021, 174, 229-249.	13.7	14
451	Emerging Role of Extracellular Vesicles in Biomarking the Gastrointestinal Diseases. <i>Expert Review of Molecular Diagnostics</i> , 2021, 21, 939-962.	3.1	16
452	Single-Cell Cloning of Breast Cancer Cells Secreting Specific Subsets of Extracellular Vesicles. <i>Cancers</i> , 2021, 13, 4397.	3.7	19
453	Recent advances in Extracellular Vesicles and their involvements in vasculitis. <i>Free Radical Biology and Medicine</i> , 2021, 171, 203-218.	2.9	11

#	ARTICLE	IF	CITATIONS
454	Tetraspanins are unevenly distributed across single extracellular vesicles and bias sensitivity to multiplexed cancer biomarkers. <i>Journal of Nanobiotechnology</i> , 2021, 19, 250.	9.1	57
455	Extracellular vesicles as a drug delivery system: A systematic review of preclinical studies. <i>Advanced Drug Delivery Reviews</i> , 2021, 175, 113801.	13.7	92
456	Label-Free Quantitative Phase Imaging Reveals Spatial Heterogeneity of Extracellular Vesicles in Select Colon Disorders. <i>American Journal of Pathology</i> , 2021, 191, 2147-2171.	3.8	11
457	The mini player with diverse functions: extracellular vesicles in cell biology, disease, and therapeutics. <i>Protein and Cell</i> , 2022, 13, 631-654.	11.0	60
458	Biosensor-based assay of exosome biomarker for early diagnosis of cancer. <i>Frontiers of Medicine</i> , 2022, 16, 157-175.	3.4	15
459	Exosomes secreted by FNDC5-BMMSCs protect myocardial infarction by anti-inflammation and macrophage polarization via NF- $\kappa$ B signaling pathway and Nrf2/HO-1 axis. <i>Stem Cell Research and Therapy</i> , 2021, 12, 519.	5.5	46
460	Opportunities and Pitfalls of Fluorescent Labeling Methodologies for Extracellular Vesicle Profiling on High-Resolution Single-Particle Platforms. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10510.	4.1	18
461	Isolation and characterization of urine microvesicles from prostate cancer patients: different approaches, different visions. <i>BMC Urology</i> , 2021, 21, 137.	1.4	8
462	Low-Power Sonication Can Alter Extracellular Vesicle Size and Properties. <i>Cells</i> , 2021, 10, 2413.	4.1	25
463	Application of Extracellular Vesicles in Aquatic Animals: A Review of the Latest Decade. <i>Reviews in Fisheries Science and Aquaculture</i> , 2022, 30, 447-466.	9.1	4
464	Perspectives and challenges in extracellular vesicles untargeted metabolomics analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 143, 116382.	11.4	24
465	Dosing extracellular vesicles. <i>Advanced Drug Delivery Reviews</i> , 2021, 178, 113961.	13.7	134
466	Isolation and characterization of extracellular vesicles in saliva of children with asthma. , 2021, 2, 29-48.		11
467	The versatile role of exosomes in human retroviral infections: from immunopathogenesis to clinical application. <i>Cell and Bioscience</i> , 2021, 11, 19.	4.8	61
468	A simple, high-throughput method of protein and label removal from extracellular vesicle samples. <i>Nanoscale</i> , 2021, 13, 3737-3745.	5.6	6
469	Comparison and optimization of nanoscale extracellular vesicle imaging by scanning electron microscopy for accurate size-based profiling and morphological analysis. <i>Nanoscale Advances</i> , 2021, 3, 3053-3063.	4.6	7
471	Comparison of urinary extracellular vesicle isolation methods for transcriptomic biomarker research in diabetic kidney disease. <i>Journal of Extracellular Vesicles</i> , 2020, 10, e12038.	12.2	39
472	Comprehensive evaluation of methods for small extracellular vesicles separation from human plasma, urine and cell culture medium. <i>Journal of Extracellular Vesicles</i> , 2020, 10, e12044.	12.2	97

#	ARTICLE	IF	CITATIONS
473	Analysis of Tumor-Derived Exosomes by Nanoscale Flow Cytometry. Methods in Molecular Biology, 2021, 2174, 171-191.	0.9	2
474	Visualization of Necroptotic Cell Death through Transmission Electron Microscopy. Methods in Molecular Biology, 2021, 2255, 135-147.	0.9	7
475	Cancer Exosomes for Early Pancreatic Cancer Diagnosis and Role in Metastasis. , 2017, , 1-17.		1
476	Isolation and Characterization of Extracellular Vesicles in Stem Cell-Related Studies. Neuromethods, 2017, , 205-223.	0.3	1
477	Exosomes in Drug Delivery. , 2021, , 337-360.		2
478	Analysis of individual extracellular vesicles by imaging flow cytometry. Methods in Enzymology, 2020, 645, 55-78.	1.0	29
483	Fibroblast growth factor-6 enhances CDK2 and MATKÂexpression in microvesicles derived from human stem cells extracted from exfoliated deciduous teeth. F1000Research, 2018, 7, 622.	1.6	4
484	Comparative Analysis of Technologies for Quantifying Extracellular Vesicles (EVs) in Clinical Cerebrospinal Fluids (CSF). PLoS ONE, 2016, 11, e0149866.	2.5	99
485	Differential Responses of Pattern Recognition Receptors to Outer Membrane Vesicles of Three Periodontal Pathogens. PLoS ONE, 2016, 11, e0151967.	2.5	84
486	Analysis of RNA yield in extracellular vesicles isolated by membrane affinity column and differential ultracentrifugation. PLoS ONE, 2020, 15, e0238545.	2.5	21
487	EVALUATION OF MICROVESICLES FORMED BY NATURAL KILLER (NK) CELLS USING FLOW CYTOMETRY. Medical Immunology (Russia), 2018, 20, 251-254.	0.4	5
488	PHENOTYPIC AND FUNCTIONAL CHARACTERISTICS OF MICROVESICLES PRODUCED BY NATURAL KILLER CELLS. Medical Immunology (Russia), 2019, 21, 669-688.	0.4	10
489	Microvesicles produced by natural killer cells of the NK-92 cell line affect the phenotype and functions of endothelial cells of the EA.Hy926 cell line. Medical Immunology (Russia), 2020, 22, 249-268.	0.4	7
490	Circulating tumor cells, tumor-derived extracellular vesicles and plasma cytokeratins in castration-resistant prostate cancer patients. Oncotarget, 2018, 9, 19283-19293.	1.8	54
491	Methods for the Determination of the Purity of Exosomes. Current Pharmaceutical Design, 2020, 25, 4464-4485.	1.9	15
492	Blood Circulating Exosomes Contain Distinguishable Fractions of Free and Cell-Surface-Associated Vesicles. Current Molecular Medicine, 2019, 19, 273-285.	1.3	27
493	Applications of Exosomes in Targeted Drug Delivery for the Treatment of Parkinsonâ€™s Disease: A Review of Recent Advances and Clinical Challenges. Current Topics in Medicinal Chemistry, 2020, 20, 2777-2788.	2.1	4
494	Therapeutic Potential of Anti-HIV RNA-loaded Exosomes. Biomedical and Environmental Sciences, 2018, 31, 215-226.	0.2	8

#	ARTICLE	IF	CITATIONS
495	The Promises, Methodological Discrepancies and Pitfalls in Measurement of Cell-Derived Extracellular Vesicles in Diseases. <i>Journal of Biotechnology &amp; Biomaterials</i> , 2016, 6, .	0.3	6
496	Challenges in Analysis of Circulating Extracellular Vesicles in Human Plasma Using Nanotracking and Tunable Resistive Pulse Sensing. <i>Journal of Nanomedicine &amp; Nanotechnology</i> , 2017, 08, .	1.1	1
497	Microvesicles as Biomarkers in Diabetes, Obesity and Non-Alcoholic Fatty Liver Disease: Current Knowledge and Future Directions. <i>Internal Medicine: Open Access</i> , 2014, 01, .	0.0	1
498	Extracellular Vesicles in Acute Leukemia: A Mesmerizing Journey With a Focus on Transferred microRNAs. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 766371.	3.7	6
499	A possible role of gas-phase electrophoretic mobility molecular analysis (nES GEMMA) in extracellular vesicle research. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 7341-7352.	3.7	2
500	Converting extracellular vesicles into nanomedicine: loading and unloading of cargo. <i>Materials Today Nano</i> , 2021, 16, 100148.	4.6	19
501	pH-Mediated Clustering of Exosomes: Breaking Through the Size Limit of Exosome Analysis in Conventional Flow Cytometry. <i>Nano Letters</i> , 2021, 21, 8817-8823.	9.1	28
502	Minimum information to report about a flow cytometry experiment on extracellular vesicles: Communication from the ISTH SSC subcommittee on vascular biology. <i>Journal of Thrombosis and Haemostasis</i> , 2022, 20, 245-251.	3.8	15
503	Microfluidic Multistage Integration for Analysis of Circulating Exosomes. , 2016, , 113-139.		0
504	The Role of Microparticles as Biomarkers in the Development of Therapy for Autoimmune Disease. , 2017, , 35-50.		0
506	Fibroblast growth factor-6 enhances CDK2 and MAK2 expression in microvesicles derived from human stem cells extracted from exfoliated deciduous teeth. <i>F1000Research</i> , 2018, 7, 622.	1.6	3
508	Study of Nanoparticle Size Limitation in Aqueous Environment by SEM. <i>Journal of Mechanics Engineering and Automation</i> , 2018, 8, .	0.0	0
509	Microvesicles of leukocyte origin. <i>Vestnik Rossiiskoi Akademii Meditsinskikh Nauk</i> , 2018, 73, 378-387.	0.6	0
512	&lt;i>In-Silico&lt;/i> Validation and Development of Chlorogenic Acid (CGA) Loaded Polymeric Nanoparticle for Targeting Neurodegenerative Disorders. <i>Journal of Biomaterials and Nanobiotechnology</i> , 2020, 11, 279-303.	0.5	5
515	MALDI-TOF mass spectrometric protein profiling of microvesicles produced by the NK-92 natural killer cell line. <i>Medical Immunology (Russia)</i> , 2020, 22, 633-646.	0.4	6
517	Micro- and Nanopore Technologies for Single-Cell Analysis. , 2022, , 343-373.		0
518	Effect of Sample Concentration on Nanoparticle Tracking Analysis of Small Extracellular Vesicles and Liposomes Mimicking the Physicochemical Properties of Exosomes. <i>Chemical and Pharmaceutical Bulletin</i> , 2021, 69, 1045-1053.	1.3	5
520	Micro- and Nanopore Technologies for Single-Cell Analysis. , 2020, , 1-31.		0

#	ARTICLE	IF	CITATIONS
522	Hallmarks of Exosomes. Future Science OA, 2022, 8, FSO764.	1.9	14
523	Giant Unilamellar Vesicle Electroformation: What to Use, What to Avoid, and How to Quantify the Results. Membranes, 2021, 11, 860.	3.0	14
524	Human amniotic fluid stem cells are able to form embryoid body-like aggregates which performs specific functions: morphological evidences. Histochemistry and Cell Biology, 2021, 155, 381-390.	1.7	3
525	Single-particle analysis of tear fluid reveals abundant presence of tissue factor-exposing extracellular vesicles with strong coagulation activity. Talanta, 2022, 239, 123089.	5.5	18
526	Proteomic dissection of large extracellular vesicle surfaceome unravels interactive surface platform. Journal of Extracellular Vesicles, 2021, 10, e12164.	12.2	40
527	An Interlaboratory Comparison on the Characterization of a Sub-micrometer Polydisperse Particle Dispersion. Journal of Pharmaceutical Sciences, 2022, 111, 699-709.	3.3	6
528	Improving Reproducibility to Meet Minimal Information for Studies of Extracellular Vesicles 2018 Guidelines in Nanoparticle Tracking Analysis. Journal of Visualized Experiments, 2021, , .	0.3	4
529	Blood Nanoparticles “ Influence on Extracellular Vesicle Isolation and Characterization. Frontiers in Pharmacology, 2021, 12, 773844.	3.5	22
530	Intradialytic cycling does not exacerbate microparticles or circulating markers of systemic inflammation in haemodialysis patients. European Journal of Applied Physiology, 2022, 122, 599-609.	2.5	3
531	Monitoring Distribution Dynamics of EV RNA Cargo Within Recipient Monocytes and Macrophages. Frontiers in Cellular and Infection Microbiology, 2021, 11, 739628.	3.9	3
532	Exosomes in cardiovascular diseases: a blessing or a sin for the mankind. Molecular and Cellular Biochemistry, 2022, 477, 833-847.	3.1	9
533	Comparison of Submicron Particle Counting Methods with a Heat Stressed Monoclonal Antibody: Effect of Electrolytes and Implications on Sample Preparation. Journal of Pharmaceutical Sciences, 2022, 111, 1992-1999.	3.3	1
534	The impact of storage on extracellular vesicles: A systematic study. Journal of Extracellular Vesicles, 2022, 11, e12162.	12.2	88
535	Integrated therapy platform of exosomal system: hybrid inorganic/organic nanoparticles with exosomes for cancer treatment. Nanoscale Horizons, 2022, 7, 352-367.	8.0	30
536	Nanomaterials-Based Urinary Extracellular Vesicles Isolation and Detection for Non-invasive Auxiliary Diagnosis of Prostate Cancer. Frontiers in Medicine, 2021, 8, 800889.	2.6	9
537	MPAPASS software enables stitched multiplex, multidimensional EV repertoire analysis and a standard framework for reporting bead-based assays. Cell Reports Methods, 2022, 2, 100136.	2.9	8
538	Breaking the classics: Next-generation biosensors for the isolation, profiling and detection of extracellular vesicles. Biosensors and Bioelectronics: X, 2022, 10, 100115.	1.7	5
539	Nanoparticle tracking analysis and statistical mixture distribution analysis to quantify nanoparticle “vesicle binding. Journal of Colloid and Interface Science, 2022, 615, 50-58.	9.4	5



#	ARTICLE	IF	CITATIONS
540	CNS endothelial derived extracellular vesicles are biomarkers of active disease in multiple sclerosis. <i>Fluids and Barriers of the CNS</i> , 2022, 19, 13.	5.0	17
541	Stimulatory Effects of Extracellular Vesicles Derived from <i>Leuconostoc holzapfelii</i> That Exists in Human Scalp on Hair Growth in Human Follicle Dermal Papilla Cells. <i>Current Issues in Molecular Biology</i> , 2022, 44, 845-866.	2.4	6
542	Tissue-derived extracellular vesicles in cancers and non-cancer diseases: Present and future. <i>Journal of Extracellular Vesicles</i> , 2021, 10, e12175.	12.2	76
543	Recent advances in liquid biopsy technologies for cancer biomarker detection. <i>Sensors &amp; Diagnostics</i> , 2022, 1, 343-375.	3.8	15
545	Extracellular Vesicles Linking Inflammation, Cancer and Thrombotic Risks. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 859863.	3.7	21
546	BMSC-EV-derived lncRNA NORAD Facilitates Migration, Invasion, and Angiogenesis in Osteosarcoma Cells by Regulating CREBBP via Delivery of miR-877-3p. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-19.	4.0	6
547	Inhibition of extracellular vesicle biogenesis in tumor cells: A possible way to reduce tumorigenesis. <i>Cell Biochemistry and Function</i> , 2022, 40, 248-262.	2.9	15
548	DNA in extracellular vesicles: from evolution to its current application in health and disease. <i>Cell and Bioscience</i> , 2022, 12, 37.	4.8	41
549	Isolation and molecular characterization of circulating extracellular vesicles from blood of chronic Chagas disease patients. <i>Cell Biology International</i> , 2022, 46, 883-894.	3.0	6
550	Methods for the identification and characterization of extracellular vesicles in cardiovascular studies: from exosomes to microvesicles. <i>Cardiovascular Research</i> , 2023, 119, 45-63.	3.8	44
551	Imaging flow cytometry challenges the usefulness of classically used extracellular vesicle labeling dyes and qualifies the novel dye Exoria for the labeling of mesenchymal stromal cell-extracellular vesicle preparations. <i>Cytotherapy</i> , 2022, 24, 619-628.	0.7	10
552	Nanomechanical characterization of exosomes and concomitant nanoparticles from blood plasma by PeakForce AFM in liquid. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2022, 1866, 130139.	2.4	10
553	A review of optical methods for ultrasensitive detection and characterization of nanoparticles in liquid media with a focus on the wide field surface plasmon microscopy. <i>Analytica Chimica Acta</i> , 2022, 1204, 339633.	5.4	17
554	Misinterpretation of solid sphere equivalent refractive index measurements and smallest detectable diameters of extracellular vesicles by flow cytometry. <i>Scientific Reports</i> , 2021, 11, 24151.	3.3	9
555	Effects of Microvesicles Derived from NK Cells Stimulated with IL-1 $\beta$ on the Phenotype and Functional Activity of Endothelial Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13663.	4.1	5
557	Reproducibility of extracellular vesicle research. <i>European Journal of Cell Biology</i> , 2022, 101, 151226.	3.6	26
571	Protocol for Measuring Concentrations of Extracellular Vesicles in Human Blood Plasma with Flow Cytometry. <i>Methods in Molecular Biology</i> , 2022, 2504, 55-75.	0.9	0
572	Circadian regulation of protein cargo in extracellular vesicles. <i>Science Advances</i> , 2022, 8, eabc9061.	10.3	26

#	ARTICLE	IF	CITATIONS
573	Exosome and Breast Cancer. Research Journal of Pharmacy and Technology, 2022, , 1393-1397.	0.8	2
574	An Ex Vivo Study on Release, Uptake, and miRNA Profile of Exosomes in Rat Lens. Journal of Ophthalmology, 2022, 2022, 1-7.	1.3	0
575	Comparison of separation methods for immunomodulatory extracellular vesicles from helminths. , 2022, 1, .		9
576	Microscopic characterization reveals the diversity of EVs secreted by GFP-HAS3 expressing MCF7 cells. European Journal of Cell Biology, 2022, 101, 151235.	3.6	2
578	Advances in engineered exosomes towards cancer diagnosis and therapeutics. Progress in Biomedical Engineering, 2022, 4, 032002.	4.9	3
579	Research status and future prospects of extracellular vesicles in primary Sjögren's syndrome. Stem Cell Research and Therapy, 2022, 13, .	5.5	15
580	Detection of cell membrane proteins using ion-sensitive field effect transistors combined with chemical signal amplification. Chemical Communications, 2022, 58, 7368-7371.	4.1	6
581	Circulating Abnormal Extracellular Vesicles: Their Mechanism for Crossing Blood-Brain Barrier, Effects on Central Nervous System and Detection Methods. Journal of Biomedical Nanotechnology, 2022, 18, 640-659.	1.1	1
582	Particle-motion-tracking Algorithm for the Evaluation of the Multi-physical Properties of Single Nanoparticles. Journal of Sensor Science and Technology, 2022, 31, 175-179.	0.2	0
583	In-plane Extended Nano-Coulter Counter (XnCC) for the Label-Free Electrical Detection of Biological Particles. Electroanalysis, 0, , .	2.9	2
584	An imaging flow cytometry-based methodology for the analysis of single extracellular vesicles in unprocessed human plasma. Communications Biology, 2022, 5, .	4.4	13
585	Multifunctional Peptides Modified Conductive Nano-Network Based on GO and Gold Nano Triangular: Sensitive Detection of PD-L1 Exosomes in Serum. Journal of the Electrochemical Society, 2022, 169, 076505.	2.9	1
586	Online Monitoring of the Concentrations of Amorphous and Crystalline Mesoscopic Species Present in Solution. Crystal Growth and Design, 2022, 22, 5071-5080.	3.0	4
587	Extracellular Vesicle Mimetics: Preparation from Top-Down Approaches and Biological Functions. Advanced Healthcare Materials, 2022, 11, .	7.6	6
588	The potential use of mesenchymal stem cells and their exosomes in Parkinson's disease treatment. Stem Cell Research and Therapy, 2022, 13, .	5.5	31
589	Single-particle detection of native SARS-CoV-2 virions by microfluidic resistive pulse sensing. Colloids and Surfaces B: Biointerfaces, 2022, 218, 112716.	5.0	2
590	Particle characterization: parameters and selected methods. , 2022, , 63-114.		0
591	Future of Digital Assays to Resolve Clinical Heterogeneity of Single Extracellular Vesicles. ACS Nano, 2022, 16, 11619-11645.	14.6	40



#	ARTICLE	IF	CITATIONS
593	Comparing digital detection platforms in high sensitivity immuneâ€phenotyping of extracellular vesicles. , 2022, 1, .		8
594	Is liquid biopsy mature enough for the diagnosis of Alzheimerâ€™s disease?. Frontiers in Aging Neuroscience, 0, 14, .	3.4	9
595	Detailed Characterization of Small Extracellular Vesicles from Different Cell Types Based on Tetraspanin Composition by ExoView R100 Platform. International Journal of Molecular Sciences, 2022, 23, 8544.	4.1	20
596	Gold Nanopyramid Arrays for Non-Invasive Surface-Enhanced Raman Spectroscopy-Based Gastric Cancer Detection via sEVs. ACS Applied Nano Materials, 2022, 5, 12506-12517.	5.0	13
597	Recent developments in biosensing methods for extracellular vesicle protein characterization. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2023, 15, .	6.1	9
598	Rapid isolation and quantification of extracellular vesicles from suspensionâ€adapted human embryonic kidney cells using capillaryâ€channeled polymer fiber spinâ€down tips. Electrophoresis, 2023, 44, 190-202.	2.4	5
599	Advances in the use of exosomes for the treatment of ALI/ARDS. Frontiers in Immunology, 0, 13, .	4.8	15
600	Extracellular vesicle contents as non-invasive biomarkers in ovarian malignancies. Molecular Therapy - Oncolytics, 2022, 26, 347-359.	4.4	2
601	Characterization of extracellular vesicles by flow cytometry: Challenges and promises. Micron, 2022, 161, 103341.	2.2	9
602	A rapid capillary-channeled polymer (C-CP) fiber spin-down tip approach for the isolation of plant-derived extracellular vesicles (PDEVs) from 20 common fruit and vegetable sources. Talanta, 2023, 252, 123779.	5.5	13
603	Urinary Exosomes: A Promising Biomarker for Disease Diagnosis. Laboratory Medicine, 2023, 54, 115-125.	1.2	5
604	Characterising extracellular vesicles from individual low volume cerebrospinal fluid samples, isolated by SmartSEC. , 2022, 1, .		3
605	Targeting the Structural Integrity of Extracellular Vesicles via Nano Electrospray Gas-Phase Electrophoretic Mobility Molecular Analysis (nES GEMMA). Membranes, 2022, 12, 872.	3.0	2
606	Characterization and Biomedical Application Opportunities of the Nanoparticle's Protein Corona. Advanced Materials Interfaces, 2022, 9, .	3.7	4
607	Heat Shock-Induced Extracellular Vesicles Derived from Neural Stem Cells Confer Marked Neuroprotection Against Oxidative Stress and Amyloid-Î²-Caused Neurotoxicity. Molecular Neurobiology, 2022, 59, 7404-7412.	4.0	10
609	Annexin Vâ€ and tissue factor+ microparticles as biomarkers for predicting deep vein thrombosis in patients after joint arthroplasty. Clinica Chimica Acta, 2022, 536, 169-179.	1.1	1
610	Triptolide improves chondrocyte proliferation and secretion via down-regulation of miR-221 in synovial cell exosomes. Phytomedicine, 2022, 107, 154479.	5.3	7
611	Hydrogen Peroxide Promotes the Production of Radiation-Derived EVs Containing Mitochondrial Proteins. Antioxidants, 2022, 11, 2119.	5.1	3

#	ARTICLE	IF	CITATIONS
612	Size Distribution of Inactivated Tick-Borne Encephalitis Virus Particles Revealed by a Comprehensive Physicochemical Approach. <i>Biomedicines</i> , 2022, 10, 2478.	3.2	4
613	Circulating Extracellular Vesicles Express Receptor Activator of Nuclear Factor $\kappa$ B Ligand and Other Molecules Informative of the Bone Metabolic Status of Mouse Models of Experimentally Induced Osteoporosis. <i>Calcified Tissue International</i> , 2023, 112, 74-91.	3.1	2
614	Isolation-free measurement of single urinary extracellular vesicles by imaging flow cytometry. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2023, 48, 102638.	3.3	2
615	Plant derived exosome- like Nanovesicles: an updated overview. , 2023, 3, 100022.		10
616	Optimization Protocol of the PEG-Based Method for OSCC-Derived Exosome Isolation and Downstream Applications. <i>Separations</i> , 2022, 9, 435.	2.4	2
617	Placenta-derived extracellular vesicles from preeclamptic and healthy pregnancies impair <i>in vivo</i> vascular endothelial function. <i>Bioscience Reports</i> , 2022, 42, .	2.4	5
618	Lipoprotein particles exhibit distinct mechanical properties. , 2022, 1, .		3
619	Assessment of Small Cellular Particles from Four Different Natural Sources and Liposomes by Interferometric Light Microscopy. <i>International Journal of Molecular Sciences</i> , 2022, 23, 15801.	4.1	7
620	Isolation of native EVs from primary biofluidsâ€”Freeâ€flow electrophoresis as a novel approach to purify ascitesâ€derived EVs. , 2022, 1, .		2
621	High-Throughput Counting and Sizing of Therapeutic Protein Aggregates in the Nanometer Size Range by Nano-Flow Cytometry. <i>Analytical Chemistry</i> , 2022, 94, 17634-17644.	6.5	4
622	Tumor-Targeting Extracellular Vesicles Loaded with siS100A4 for Suppressing Postoperative Breast Cancer Metastasis. <i>Cellular and Molecular Bioengineering</i> , 2023, 16, 117-125.	2.1	1
623	Macrophages Release Extracellular Vesicles of Different Properties and Composition Following Exposure to Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2023, 24, 260.	4.1	1
624	Progress of Endogenous and Exogenous Nanoparticles for Cancer Therapy and Diagnostics. <i>Genes</i> , 2023, 14, 259.	2.4	2
625	Nanoparticle tracking analysis: Enhanced detection of transparent materials. <i>Particle and Particle Systems Characterization</i> , 0, , 2200173.	2.3	0
626	Extracellular Vesicles: New Players in the Mechanisms of Sepsis- and COVID-19-Related Thromboinflammation. <i>International Journal of Molecular Sciences</i> , 2023, 24, 1920.	4.1	4
627	Extracellular vesicles mediate biological information delivery: A double-edged sword in cardiac remodeling after myocardial infarction. <i>Frontiers in Pharmacology</i> , 0, 14, .	3.5	5
628	Homogenous subpopulation of human mesenchymal stem cells and their extracellular vesicles restore function of endometrium in an experimental rat model of Asherman syndrome. <i>Stem Cell Research and Therapy</i> , 2023, 14, .	5.5	2
629	Technological aspects of manufacturing and analytical control of biological nanoparticles. <i>Biotechnology Advances</i> , 2023, 64, 108122.	11.7	8

#	ARTICLE	IF	CITATIONS
630	A colorimetric and photothermal dual-mode biosensing platform based on nanozyme-functionalized flower-like DNA structures for tumor-derived exosome detection. <i>Talanta</i> , 2023, 258, 124456.	5.5	13
631	Advancements and Technical Considerations for Extracellular Vesicle Isolation and Biomarker Identification in Glioblastoma. <i>Neurosurgery</i> , 2023, Publish Ahead of Print, .	1.1	1
632	Natural Killer Cell Derived Microvesicles Affect the Function of Trophoblast Cells. <i>Membranes</i> , 2023, 13, 213.	3.0	1
633	A compendium of single extracellular vesicle flow cytometry. <i>Journal of Extracellular Vesicles</i> , 2023, 12, .	12.2	29
634	Exosomal microRNAs in cancer: Potential biomarkers and immunotherapeutic targets for immune checkpoint molecules. <i>Frontiers in Genetics</i> , 0, 14, .	2.3	6
635	Comparison of interferometric light microscopy with nanoparticle tracking analysis for the study of extracellular vesicles and bacteriophages. , 2023, 2, .		3
636	Global Analysis of Aggregation Profiles of Three Kinds of Immuno-Oncology mAb Drug Products Using Flow Cytometry. <i>Analytical Chemistry</i> , 2023, 95, 4768-4775.	6.5	0
637	Sympathetic neurons secrete retrogradely transported TrkA on extracellular vesicles. <i>Scientific Reports</i> , 2023, 13, .	3.3	1
639	The Potential Roles of Exosomes Carrying APP and Tau Cleavage Products in Alzheimer's Disease. <i>Journal of Clinical Medicine</i> , 2023, 12, 1883.	2.4	3
640	Flow Cytometry with Anti-Diffraction Light Sheet (ADLS) by Spatial Light Modulation. <i>Micromachines</i> , 2023, 14, 679.	2.9	0
641	The role of extracellular vesicles in periodontitis: pathogenesis, diagnosis, and therapy. <i>Frontiers in Immunology</i> , 0, 14, .	4.8	2
642	Isolation and Characterization of Extracellular Vesicles in Human Bowel Lavage Fluid. <i>International Journal of Molecular Sciences</i> , 2023, 24, 7391.	4.1	1
643	Optical microscopic and spectroscopic detection of exosomes. <i>TrAC - Trends in Analytical Chemistry</i> , 2023, 163, 117077.	11.4	2
645	Preventing swarm detection in extracellular vesicle flow cytometry: a clinically applicable procedure. <i>Research and Practice in Thrombosis and Haemostasis</i> , 2023, 7, 100171.	2.3	1
646	Balloon Flower Root-Derived Extracellular Vesicles: In Vitro Assessment of Anti-Inflammatory, Proliferative, and Antioxidant Effects for Chronic Wound Healing. <i>Antioxidants</i> , 2023, 12, 1146.	5.1	1
647	siRNA screening reveals that SNAP29 contributes to exosome release. <i>Cellular and Molecular Life Sciences</i> , 2023, 80, .	5.4	1
648	Shedding Light on the Cell Biology of Platelet-Derived Extracellular Vesicles and Their Biomedical Applications. <i>Life</i> , 2023, 13, 1403.	2.4	3
649	Small extracellular vesicles: a novel drug delivery system for neurodegenerative disorders. <i>Frontiers in Aging Neuroscience</i> , 0, 15, .	3.4	2

#	ARTICLE	IF	CITATIONS
650	High Sensitivity Extended Nano-Coulter Counter for Detection of Viral Particles and Extracellular Vesicles. <i>Analytical Chemistry</i> , 2023, 95, 9892-9900.	6.5	2
651	Standardization of extracellular vesicle concentration measurements by flow cytometry: the past, present, and future. <i>Journal of Thrombosis and Haemostasis</i> , 2023, 21, 2032-2044.	3.8	1
652	Particle size distribution measurement based on the angular scattering efficiency factor spectra inversion—simulation and experiment. <i>Optics Express</i> , 2023, 31, 19867.	3.4	1
653	Extracellular vesicles as biomarkers and modulators of atherosclerosis pathogenesis. <i>Frontiers in Cardiovascular Medicine</i> , 0, 10, .	2.4	4
654	Microvesicle-Mediated Tissue Regeneration Mitigates the Effects of Cellular Ageing. <i>Cells</i> , 2023, 12, 1707.	4.1	0
656	Serum biomarkers and ultrasensitive biosensors for diagnosis of early-stage hepatocellular carcinoma. <i>Sensors and Actuators B: Chemical</i> , 2023, 393, 134209.	7.8	4
657	MicroRNA therapeutics and Nucleic Acid Nano-Delivery Systems in Bacterial Infection: a review. <i>Journal of Materials Chemistry B</i> , 0, , .	5.8	0
658	Gold nanoparticles engineered nanoporous membrane with sandwich structure for sensitive electrochemical quantification of exosome. <i>Sensors and Actuators B: Chemical</i> , 2023, 393, 134294.	7.8	2
659	Extracellular Vesicles Isolated from Menstrual Blood-derived Mesenchymal Stem Cells in Regenerative Medicine. <i>Jentashapir Journal of Cellular and Molecular Biology</i> , 2023, 14, .	0.2	0
660	Extracellular vesicle analysis. <i>Nature Reviews Methods Primers</i> , 2023, 3, .	21.2	11
661	Lipid bilayer fluidity and degree of order regulates small EVs adsorption on model cell membrane. <i>Journal of Colloid and Interface Science</i> , 2023, 652, 1937-1943.	9.4	2
662	Extracellular Vesicles in Coronary Artery Disease. <i>Advances in Experimental Medicine and Biology</i> , 2023, , 81-103.	1.6	2
663	Extracellular Vesicles and Cardiac Aging. <i>Advances in Experimental Medicine and Biology</i> , 2023, , 33-56.	1.6	0
664	Multomic Approaches for Cancer Biomarker Discovery in Liquid Biopsies: Advances and Challenges. <i>Biomarker Insights</i> , 2023, 18, .	2.5	1
665	Quantitative assessment of lipophilic membrane dye—based labelling of extracellular vesicles by nano—flow cytometry. <i>Journal of Extracellular Vesicles</i> , 2023, 12, .	12.2	2
666	Plant and mammalian-derived extracellular vesicles: a new therapeutic approach for the future. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 11, .	4.1	1
667	Nanoparticle Tracking Analysis of Urinary Extracellular Vesicle Proteins as a New Challenge in Laboratory Medicine. <i>International Journal of Molecular Sciences</i> , 2023, 24, 12228.	4.1	0
668	Biotechnological Implications of Extracellular Vesicles. <i>Environmental and Microbial Biotechnology</i> , 2023, , 359-394.	0.7	0

#	ARTICLE	IF	CITATIONS
669	Isolation, Characterization, and Detailed History of Exosomes Derived from Stem Cells and their Epigenetic Biology. , 2023, , 139-168.		0
670	Unlock the power of bovine milk-derived exosomes for degenerative diseases associated with aging. Journal of Functional Foods, 2023, 109, 105788.	3.4	1
671	Different seminal ejaculated fractions in artificial insemination condition the protein cargo of oviductal and uterine extracellular vesicles in pig. Frontiers in Cell and Developmental Biology, 0, 11, .	3.7	0
672	Comparing different techniques for obtaining molecular size distributions of glycogen. European Polymer Journal, 2023, , 112518.	5.4	0
673	Rapid purification and multiparametric characterization of circulating small extracellular vesicles utilizing a label-free lab-on-a-chip device. Scientific Reports, 2023, 13, .	3.3	1
674	Characterization of Extracellular Vesicles by Resistive-Pulse Sensing on In-Plane Multipore Nanofluidic Devices. Analytical Chemistry, 2023, 95, 16710-16716.	6.5	2
675	Engineering a tunable micropatterned array assay to sort single extracellular vesicles and particles to detect RNA and protein in situ. Journal of Extracellular Vesicles, 2023, 12, .	12.2	3
676	In Situ Simultaneous Detection of Surface Protein and microRNA in Clustered Extracellular Vesicles from Cancer Cell Lines Using Flow Cytometry. ACS Biomaterials Science and Engineering, 2023, 9, 6369-6378.	5.2	0
677	3D printed cell for the in situ dynamic light scattering monitoring of nanoparticle size distribution in microfluidics. Microchemical Journal, 2024, 196, 109659.	4.5	1
678	Large extracellular vesicles transfer more prions and infect cell culture better than small extracellular vesicles. Biochemical and Biophysical Research Communications, 2023, 687, 149208.	2.1	1
679	<b>Clinical applications and challenges in the field of extracellular vesicles</b>. Medizinische Genetik, 2023, 35, 251-258.	0.2	0
680	Specific expression and blood kinetics for relaxin 2, lipocalin 2, and tissue factor pathway inhibitor 2 at the canine placenta and pregnant bloods. Journal of Veterinary Medical Science, 2023, , .	0.9	0
681	From Theory to Therapy: The Advancements of Extracellular Vesicles in Immunotherapy. Advanced Therapeutics, 2024, 7, .	3.2	0
682	Quantitative flow cytometry enables end-to-end optimization of cross-platform extracellular vesicle studies. Cell Reports Methods, 2023, 3, 100664.	2.9	0
683	Advances in colorimetric biosensors of exosomes: novel approaches based on natural enzymes and nanozymes. Nanoscale, 0, , .	5.6	0
685	The emerging role of breast cancer derived extracellular vesicles-mediated intercellular communication in ovarian cancer progression and metastasis. , 2024, 41, .		0
686	Recommendations for reproducibility of cerebrospinal fluid extracellular vesicle studies. Journal of Extracellular Vesicles, 2024, 13, .	12.2	0
687	The Advances and Applications of Characterization Technique for Exosomes: From Dynamic Light Scattering to Super-Resolution Imaging Technology. Photonics, 2024, 11, 101.	2.0	0

#	ARTICLE	IF	CITATIONS
688	Current analytical approaches for characterizing nanoparticle sizes in pharmaceutical research. Journal of Nanoparticle Research, 2024, 26, .	1.9	0
689	Size matters: Functional differences of small extracellular vesicle subpopulations in cardiac repair responses. Journal of Extracellular Vesicles, 2024, 13, .	12.2	0
690	Extracellular vesicle therapy for obesity-induced NAFLD: a comprehensive review of current evidence. Cell Communication and Signaling, 2024, 22, .	6.5	2
691	A beginner's guide to study extracellular vesicles in human blood plasma and serum. Journal of Extracellular Vesicles, 2024, 13, .	12.2	2
692	Immunophenotype profile by flow cytometry reveals different subtypes of extracellular vesicles in porcine seminal plasma. Cell Communication and Signaling, 2024, 22, .	6.5	0
693	Nanoscale sorting of extracellular vesicles <i>via</i> optically-induced dielectrophoresis on an integrated microfluidic system. Lab on A Chip, 2024, 24, 1965-1976.	6.0	0
694	Minimal information for studies of extracellular vesicles (MISEV2023): From basic to advanced approaches. Journal of Extracellular Vesicles, 2024, 13, .	12.2	17
695	Differentiation of large extracellular vesicles in oral fluid: Combined protocol of small force centrifugation and sedimentation pattern analysis. , 2024, 3, .		0
696	Analytical techniques for the characterization of nanoparticles for mRNA delivery. European Journal of Pharmaceutics and Biopharmaceutics, 2024, 198, 114235.	4.3	0
697	Magnetically Controlled Photothermal, Colorimetric, and Fluorescence Trimode Assay for Gastric Cancer Exosomes Based on Acid-Induced Decomposition of CP/Mn-PBA DSNBs. Analytical Chemistry, 2024, 96, 4213-4223.	6.5	0
698	Isolation and Characterization of Extracellular Vesicles Through Orthogonal Approaches for the Development of Intraocular EV Therapy. , 2024, 65, 6.		0