Randy P Carney

List of Publications by Citations

51 papers	2,363 citations	24 h-index	48 g-index
58 ext. papers	2,749 ext. citations	9.4 avg, IF	4.82 L-index

#	Paper	IF	Citations
51	A general mechanism for intracellular toxicity of metal-containing nanoparticles. *Nanoscale*, **2014**, 6, 7052-61	7.7	320
50	Effect of particle diameter and surface composition on the spontaneous fusion of monolayer-protected gold nanoparticles with lipid bilayers. *Nano Letters*, **2013**, 13, 4060-7	11.5	192
49	Determination of nanoparticle size distribution together with density or molecular weight by 2D analytical ultracentrifugation. *Nature Communications*, **2011**, 2, 335	17.4	182
48	Single exosome study reveals subpopulations distributed among cell lines with variability related to membrane content. *Journal of Extracellular Vesicles*, **2015**, 4, 28533	16.4	180
47	Effects of surface compositional and structural heterogeneity on nanoparticle-protein interactions: different protein configurations. *ACS Nano*, **2014**, 8, 5402-12	16.7	115
46	3D plasmonic nanobowl platform for the study of exosomes in solution. *Nanoscale*, **2015**, 7, 9290-7	7.7	109
45	Size limitations for the formation of ordered striped nanoparticles. *Journal of the American Chemical Society*, **2008**, 130, 798-9	16.4	96
44	Protein-nanoparticle interactions: the effects of surface compositional and structural heterogeneity are scale dependent. *Nanoscale*, **2013**, 5, 6928-35	7.7	92
43	Electrical method to quantify nanoparticle interaction with lipid bilayers. *ACS Nano*, **2013**, 7, 932-42	16.7	84
42	Enhancing radiotherapy by lipid nanocapsule-mediated delivery of amphiphilic gold nanoparticles to intracellular membranes. *ACS Nano*, **2014**, 8, 8992-9002	16.7	82
41	Direct investigation of intracellular presence of gold nanoparticles via photothermal heterodyne imaging. *ACS Nano*, **2011**, 5, 2587-92	16.7	75
40	Synthesis and characterization of Janus gold nanoparticles. *Advanced Materials*, **2012**, 24, 3857-63	24	66
39	Oligonucleotide delivery by cell-penetrating "striped" nanoparticles. *Angewandte Chemie - International Edition*, **2011**, 50, 12312-12315	16.4	66
38	Multispectral Optical Tweezers for Biochemical Fingerprinting of CD9-Positive Exosome Subpopulations. *Analytical Chemistry*, **2017**, 89, 5357-5363	7.8	52
37	Additives for vaccine storage to improve thermal stability of adenoviruses from hours to months. *Nature Communications*, **2016**, 7, 13520	17.4	51
36	Nanoplasmonic Approaches for Sensitive Detection and Molecular Characterization of Extracellular Vesicles. *Frontiers in Chemistry*, **2019**, 7, 279	5	44
35	Influence of the glycocalyx and plasma membrane composition on amphiphilic gold nanoparticle association with erythrocytes. *Nanoscale*, **2015**, 7, 11420-32	7.7	42

34	SERS analysis of selectively captured exosomes using an integrin-specific peptide ligand. *Journal of Raman Spectroscopy*, **2017**, 48, 1771-1776	2.3	38
33	Dynamic cellular uptake of mixed-monolayer protected nanoparticles. *Biointerphases*, **2012**, 7, 17	1.8	34
32	Neuroprotective effect of placenta-derived mesenchymal stromal cells: role of exosomes. *FASEB Journal*, **2019**, 33, 5836-5849	0.9	32
31	Artificial surface-modified SiN nanopores for single surface-modified gold nanoparticle scanning. *Small*, **2011**, 7, 455-9	11	30
30	Thermodynamic Study of the Reactivity of the Two Topological Point Defects Present in Mixed Self-Assembled Monolayers on Gold Nanoparticles. *Advanced Materials*, **2008**, 20, 4243-4247	24	27
29	Targeting Tumor-Associated Exosomes with Integrin-Binding Peptides. *Advanced Biology*, **2017**, 1, 1600038	3.9	26
28	Colloidal stability of self-assembled monolayer-coated gold nanoparticles: the effects of surface compositional and structural heterogeneity. *Langmuir*, **2013**, 29, 11560-6	4	26
27	Structure-Property Relationships of Amphiphilic Nanoparticles That Penetrate or Fuse Lipid Membranes. *Bioconjugate Chemistry*, **2018**, 29, 1131-1140	6.3	23
26	Self-indicating, fully active pharmaceutical ingredients nanoparticles (FAPIN) for multimodal imaging guided trimodality cancer therapy. *Biomaterials*, **2018**, 161, 203-215	15.6	22
25	Targeting Galectin-1 Impairs Castration-Resistant Prostate Cancer Progression and Invasion. *Clinical Cancer Research*, **2018**, 24, 4319-4331	12.9	20
24	Sensing single mixed-monolayer protected gold nanoparticles by the hemolysin nanopore. *Analytical Chemistry*, **2013**, 85, 10149-58	7.8	19
23	Hybrid Nanoplasmonic Porous Biomaterial Scaffold for Liquid Biopsy Diagnostics Using Extracellular Vesicles. *ACS Sensors*, **2020**, 5, 2820-2833	9.2	19
22	Image-guided photo-therapeutic nanoporphyrin synergized HSP90 inhibitor in patient-derived xenograft bladder cancer model. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2018**, 14, 789-799	6	18
21	Erythrocyte incubation as a method for free-dye presence determination in fluorescently labeled nanoparticles. *Molecular Pharmaceutics*, **2013**, 10, 875-82	5.6	18
20	Superparamagnetic Nanoparticles as High Efficiency Magnetic Resonance Imaging T Contrast Agent. *Bioconjugate Chemistry*, **2017**, 28, 161-170	6.3	17
19	Combinatorial Library Screening with Liposomes for Discovery of Membrane Active Peptides. *ACS Combinatorial Science*, **2017**, 19, 299-307	3.9	16
18	Microfluidic Print-to-Synthesis Platform for Efficient Preparation and Screening of Combinatorial Peptide Microarrays. *Analytical Chemistry*, **2018**, 90, 5833-5840	7.8	16
17	Deciphering the metabolic role of AMPK in cancer multi-drug resistance. *Seminars in Cancer Biology*, **2019**, 56, 56-71	12.7	15

16	A Plug-and-Play, Drug-on-Pillar Platform for Combination Drug Screening Implemented by Microfluidic Adaptive Printing. *Analytical Chemistry*, **2018**, 90, 13969-13977	7.8	14
15	High-affinity peptide ligand LXY30 for targeting 31 integrin in non-small cell lung cancer. *Journal of Hematology and Oncology*, **2019**, 12, 56	22.4	13
14	Rotatable Aggregation-Induced-Emission/Aggregation-Caused-Quenching Ratio Strategy for Real-Time Tracking Nanoparticle Dynamics. *Advanced Functional Materials*, **2020**, 30, 1910348	15.6	13
13	A silica-based magnetic platform decorated with mixed ligand gold nanoparticles: a recyclable catalyst for esterification reactions. *Chemical Communications*, **2016**, 52, 5573-6	5.8	11
12	Oligonucleotide Delivery by Cell-Penetrating Striped Nanoparticles. *Angewandte Chemie*, **2011**, 123, 12520-12523	3.6	11
11	Tetraspanins are unevenly distributed across single extracellular vesicles and bias sensitivity to multiplexed cancer biomarkers. *Journal of Nanobiotechnology*, **2021**, 19, 250	9.4	11
10	Galectin-1 inhibition induces cell apoptosis through dual suppression of CXCR4 and Ras pathways in human malignant peripheral nerve sheath tumors. *Neuro-Oncology*, **2019**, 21, 1389-1400	1	9
9	Isolation and Characterization of Monodisperse Core-Shell Nanoparticle Fractions. *Langmuir*, **2015**, 31, 11179-85	4	3
8	Surface enhanced Raman scattering of extracellular vesicles for cancer diagnostics despite isolation dependent lipoprotein contamination. *Nanoscale*, **2021**, 13, 14760-14776	7.7	3
7	Selective Localization of Hierarchically Assembled Particles to Plasma Membranes of Living Cells. *Small Methods*, **2019**, 3, 1800408	12.8	2
6	Discovery and mechanistic characterization of a structurally-unique membrane active peptide. *Biochimica Et Biophysica Acta - Biomembranes*, **2020**, 1862, 183394	3.8	2
5	Identification of amyloid beta in small extracellular vesicles Raman spectroscopy. *Nanoscale Advances*, **2021**, 3, 4119-4132	5.1	2
4	Microfluidic print-to-synthesis enabled combinatorial peptide microarray for cancer targeting **2017**,		1
3	Tetraspanin immunocapture phenotypes extracellular vesicles according to biofluid source but may limit identification of multiplexed cancer biomarkers		1
2	Homogenous high enhancement surface-enhanced Raman scattering (SERS) substrates by simple hierarchical tuning of gold nanofoams. *Colloids and Interface Science Communications*, **2022**, 47, 100596	5.4	1
1	Machine Learning-Assisted Sampling of SERS Substrates Improves Data Collection Efficiency. *Applied Spectroscopy*, **2021**, 37028211034543	3.1	0