

Randy P Carney

List of Publications by Year in Descending Order

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

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	Homogenous high enhancement surface-enhanced Raman scattering (SERS) substrates by simple hierarchical tuning of gold nanofoams. <i>Colloids and Interface Science Communications</i> , 2022 , 47, 100596	5.4	1
50	Surface enhanced Raman scattering of extracellular vesicles for cancer diagnostics despite isolation dependent lipoprotein contamination. <i>Nanoscale</i> , 2021 , 13, 14760-14776	7.7	3
49	Identification of amyloid beta in small extracellular vesicles Raman spectroscopy. <i>Nanoscale Advances</i> , 2021 , 3, 4119-4132	5.1	2
48	Tetraspanins are unevenly distributed across single extracellular vesicles and bias sensitivity to multiplexed cancer biomarkers. <i>Journal of Nanobiotechnology</i> , 2021 , 19, 250	9.4	11
47	Machine Learning-Assisted Sampling of SERS Substrates Improves Data Collection Efficiency. <i>Applied Spectroscopy</i> , 2021 , 37028211034543	3.1	0
46	Discovery and mechanistic characterization of a structurally-unique membrane active peptide. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020 , 1862, 183394	3.8	2
45	Rotatable Aggregation-Induced-Emission/Aggregation-Caused-Quenching Ratio Strategy for Real-Time Tracking Nanoparticle Dynamics. <i>Advanced Functional Materials</i> , 2020 , 30, 1910348	15.6	13
44	Hybrid Nanoplasmonic Porous Biomaterial Scaffold for Liquid Biopsy Diagnostics Using Extracellular Vesicles. <i>ACS Sensors</i> , 2020 , 5, 2820-2833	9.2	19
43	Selective Localization of Hierarchically Assembled Particles to Plasma Membranes of Living Cells. <i>Small Methods</i> , 2019 , 3, 1800408	12.8	2
42	Galectin-1 inhibition induces cell apoptosis through dual suppression of CXCR4 and Ras pathways in human malignant peripheral nerve sheath tumors. <i>Neuro-Oncology</i> , 2019 , 21, 1389-1400	1	9
41	Nanoplasmonic Approaches for Sensitive Detection and Molecular Characterization of Extracellular Vesicles. <i>Frontiers in Chemistry</i> , 2019 , 7, 279	5	44
40	High-affinity peptide ligand LXY30 for targeting β_1 integrin in non-small cell lung cancer. <i>Journal of Hematology and Oncology</i> , 2019 , 12, 56	22.4	13
39	Neuroprotective effect of placenta-derived mesenchymal stromal cells: role of exosomes. <i>FASEB Journal</i> , 2019 , 33, 5836-5849	0.9	32
38	Deciphering the metabolic role of AMPK in cancer multi-drug resistance. <i>Seminars in Cancer Biology</i> , 2019 , 56, 56-71	12.7	15
37	Structure-Property Relationships of Amphiphilic Nanoparticles That Penetrate or Fuse Lipid Membranes. <i>Bioconjugate Chemistry</i> , 2018 , 29, 1131-1140	6.3	23
36	Targeting Galectin-1 Impairs Castration-Resistant Prostate Cancer Progression and Invasion. <i>Clinical Cancer Research</i> , 2018 , 24, 4319-4331	12.9	20
35	Microfluidic Print-to-Synthesis Platform for Efficient Preparation and Screening of Combinatorial Peptide Microarrays. <i>Analytical Chemistry</i> , 2018 , 90, 5833-5840	7.8	16

34	Self-indicating, fully active pharmaceutical ingredients nanoparticles (FAPIN) for multimodal imaging guided trimodality cancer therapy. <i>Biomaterials</i> , 2018 , 161, 203-215	15.6	22
33	Image-guided photo-therapeutic nanoporphyrin synergized HSP90 inhibitor in patient-derived xenograft bladder cancer model. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018 , 14, 789-799	6	18
32	A Plug-and-Play, Drug-on-Pillar Platform for Combination Drug Screening Implemented by Microfluidic Adaptive Printing. <i>Analytical Chemistry</i> , 2018 , 90, 13969-13977	7.8	14
31	Targeting Tumor-Associated Exosomes with Integrin-Binding Peptides. <i>Advanced Biology</i> , 2017 , 1, 1600038	3.8	26
30	Multispectral Optical Tweezers for Biochemical Fingerprinting of CD9-Positive Exosome Subpopulations. <i>Analytical Chemistry</i> , 2017 , 89, 5357-5363	7.8	52
29	Combinatorial Library Screening with Liposomes for Discovery of Membrane Active Peptides. <i>ACS Combinatorial Science</i> , 2017 , 19, 299-307	3.9	16
28	SERS analysis of selectively captured exosomes using an integrin-specific peptide ligand. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 1771-1776	2.3	38
27	Superparamagnetic Nanoparticles as High Efficiency Magnetic Resonance Imaging T Contrast Agent. <i>Bioconjugate Chemistry</i> , 2017 , 28, 161-170	6.3	17
26	Microfluidic print-to-synthesis enabled combinatorial peptide microarray for cancer targeting 2017 ,		1
25	A silica-based magnetic platform decorated with mixed ligand gold nanoparticles: a recyclable catalyst for esterification reactions. <i>Chemical Communications</i> , 2016 , 52, 5573-6	5.8	11
24	Additives for vaccine storage to improve thermal stability of adenoviruses from hours to months. <i>Nature Communications</i> , 2016 , 7, 13520	17.4	51
23	Influence of the glycocalyx and plasma membrane composition on amphiphilic gold nanoparticle association with erythrocytes. <i>Nanoscale</i> , 2015 , 7, 11420-32	7.7	42
22	3D plasmonic nanobowl platform for the study of exosomes in solution. <i>Nanoscale</i> , 2015 , 7, 9290-7	7.7	109
21	Isolation and Characterization of Monodisperse Core-Shell Nanoparticle Fractions. <i>Langmuir</i> , 2015 , 31, 11179-85	4	3
20	Single exosome study reveals subpopulations distributed among cell lines with variability related to membrane content. <i>Journal of Extracellular Vesicles</i> , 2015 , 4, 28533	16.4	180
19	A general mechanism for intracellular toxicity of metal-containing nanoparticles. <i>Nanoscale</i> , 2014 , 6, 7052-61	7.7	320
18	Enhancing radiotherapy by lipid nanocapsule-mediated delivery of amphiphilic gold nanoparticles to intracellular membranes. <i>ACS Nano</i> , 2014 , 8, 8992-9002	16.7	82
17	Effects of surface compositional and structural heterogeneity on nanoparticle-protein interactions: different protein configurations. <i>ACS Nano</i> , 2014 , 8, 5402-12	16.7	115

16	Protein-nanoparticle interactions: the effects of surface compositional and structural heterogeneity are scale dependent. <i>Nanoscale</i> , 2013 , 5, 6928-35	7.7	92
15	Effect of particle diameter and surface composition on the spontaneous fusion of monolayer-protected gold nanoparticles with lipid bilayers. <i>Nano Letters</i> , 2013 , 13, 4060-7	11.5	192
14	Colloidal stability of self-assembled monolayer-coated gold nanoparticles: the effects of surface compositional and structural heterogeneity. <i>Langmuir</i> , 2013 , 29, 11560-6	4	26
13	Sensing single mixed-monolayer protected gold nanoparticles by the Hemolysin nanopore. <i>Analytical Chemistry</i> , 2013 , 85, 10149-58	7.8	19
12	Electrical method to quantify nanoparticle interaction with lipid bilayers. <i>ACS Nano</i> , 2013 , 7, 932-42	16.7	84
11	Erythrocyte incubation as a method for free-dye presence determination in fluorescently labeled nanoparticles. <i>Molecular Pharmaceutics</i> , 2013 , 10, 875-82	5.6	18
10	Dynamic cellular uptake of mixed-monolayer protected nanoparticles. <i>Biointerphases</i> , 2012 , 7, 17	1.8	34
9	Synthesis and characterization of Janus gold nanoparticles. <i>Advanced Materials</i> , 2012 , 24, 3857-63	24	66
8	Direct investigation of intracellular presence of gold nanoparticles via photothermal heterodyne imaging. <i>ACS Nano</i> , 2011 , 5, 2587-92	16.7	75
7	Artificial surface-modified Si ₃ N ₄ nanopores for single surface-modified gold nanoparticle scanning. <i>Small</i> , 2011 , 7, 455-9	11	30
6	Oligonucleotide Delivery by Cell-Penetrating "Striped" Nanoparticles. <i>Angewandte Chemie</i> , 2011 , 123, 12520-12523	3.6	11
5	Oligonucleotide delivery by cell-penetrating "striped" nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 12312-12315	16.4	66
4	Determination of nanoparticle size distribution together with density or molecular weight by 2D analytical ultracentrifugation. <i>Nature Communications</i> , 2011 , 2, 335	17.4	182
3	Size limitations for the formation of ordered striped nanoparticles. <i>Journal of the American Chemical Society</i> , 2008 , 130, 798-9	16.4	96
2	Thermodynamic Study of the Reactivity of the Two Topological Point Defects Present in Mixed Self-Assembled Monolayers on Gold Nanoparticles. <i>Advanced Materials</i> , 2008 , 20, 4243-4247	24	27
1	Tetraspanin immunocapture phenotypes extracellular vesicles according to biofluid source but may limit identification of multiplexed cancer biomarkers		1