

Daniel A Heller

List of Publications by Citations

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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.

96
papers

8,532
citations

46
h-index

92
g-index

158
ext. papers

9,800
ext. citations

14.2
avg, IF

5.9
L-index

#	Paper	IF	Citations
96	Treating metastatic cancer with nanotechnology. <i>Nature Reviews Cancer</i> , 2011 , 12, 39-50	31.3	880
95	Near-infrared optical sensors based on single-walled carbon nanotubes. <i>Nature Materials</i> , 2005 , 4, 86-92	27	771
94	Single-Walled Carbon Nanotube Spectroscopy in Live Cells: Towards Long-Term Labels and Optical Sensors. <i>Advanced Materials</i> , 2005 , 17, 2793-2799	24	455
93	Optical detection of DNA conformational polymorphism on single-walled carbon nanotubes. <i>Science</i> , 2006 , 311, 508-11	33.3	435
92	Size-dependent cellular uptake and expulsion of single-walled carbon nanotubes: single particle tracking and a generic uptake model for nanoparticles. <i>ACS Nano</i> , 2009 , 3, 149-58	16.7	419
91	A vector-free microfluidic platform for intracellular delivery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 2082-7	11.5	293
90	Single-particle tracking of endocytosis and exocytosis of single-walled carbon nanotubes in NIH-3T3 cells. <i>Nano Letters</i> , 2008 , 8, 1577-85	11.5	278
89	Using Raman Spectroscopy to Elucidate the Aggregation State of Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 6905-6909	3.4	259
88	Multimodal optical sensing and analyte specificity using single-walled carbon nanotubes. <i>Nature Nanotechnology</i> , 2009 , 4, 114-20	28.7	255
87	Multimodal biomedical imaging with asymmetric single-walled carbon nanotube/iron oxide nanoparticle complexes. <i>Nano Letters</i> , 2007 , 7, 861-7	11.5	250
86	The rational design of nitric oxide selectivity in single-walled carbon nanotube near-infrared fluorescence sensors for biological detection. <i>Nature Chemistry</i> , 2009 , 1, 473-81	17.6	212
85	Concomitant length and diameter separation of single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2004 , 126, 14567-73	16.4	210
84	Molecular recognition using corona phase complexes made of synthetic polymers adsorbed on carbon nanotubes. <i>Nature Nanotechnology</i> , 2013 , 8, 959-68	28.7	205
83	Detection of single-molecule H ₂ O ₂ signalling from epidermal growth factor receptor using fluorescent single-walled carbon nanotubes. <i>Nature Nanotechnology</i> , 2010 , 5, 302-9	28.7	205
82	Understanding the Nature of the DNA-Assisted Separation of Single-Walled Carbon Nanotubes Using Fluorescence and Raman Spectroscopy. <i>Nano Letters</i> , 2004 , 4, 543-550	11.5	175
81	Single molecule detection of nitric oxide enabled by d(AT) ₁₅ DNA adsorbed to near infrared fluorescent single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2011 , 133, 567-81	16.4	140
80	Resonant Raman excitation profiles of individually dispersed single walled carbon nanotubes in solution. <i>Applied Physics A: Materials Science and Processing</i> , 2004 , 78, 1147-1155	2.6	127

79	Photoelectrochemical complexes for solar energy conversion that chemically and autonomously regenerate. <i>Nature Chemistry</i> , 2010 , 2, 929-936	17.6	120
78	P-selectin is a nanotherapeutic delivery target in the tumor microenvironment. <i>Science Translational Medicine</i> , 2016 , 8, 345ra87	17.5	112
77	A Carbon Nanotube Reporter of miRNA Hybridization Events In Vivo. <i>Nature Biomedical Engineering</i> , 2017 , 1,	19	111
76	Near-infrared fluorescent sensors based on single-walled carbon nanotubes for life sciences applications. <i>ChemSusChem</i> , 2011 , 4, 848-63	8.3	102
75	Sonication-induced changes in chiral distribution: A complication in the use of single-walled carbon nanotube fluorescence for determining species distribution. <i>Carbon</i> , 2005 , 43, 651-653	10.4	98
74	Senescence-Induced Vascular Remodeling Creates Therapeutic Vulnerabilities in Pancreas Cancer. <i>Cell</i> , 2020 , 181, 424-441.e21	56.2	96
73	Quantitative self-assembly prediction yields targeted nanomedicines. <i>Nature Materials</i> , 2018 , 17, 361-368	27	87
72	Peptide secondary structure modulates single-walled carbon nanotube fluorescence as a chaperone sensor for nitroaromatics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 8544-9	11.5	87
71	Achieving Individual-Nanotube Dispersion at High Loading in Single-Walled Carbon Nanotube Composites. <i>Advanced Materials</i> , 2005 , 17, 980-984	24	86
70	Targeted drug delivery strategies for precision medicines.. <i>Nature Reviews Materials</i> , 2021 , 6, 351-370	73.3	86
69	Hyperspectral Microscopy of Near-Infrared Fluorescence Enables 17-Chirality Carbon Nanotube Imaging. <i>Scientific Reports</i> , 2015 , 5, 14167	4.9	83
68	Mesoscale nanoparticles selectively target the renal proximal tubule epithelium. <i>Nano Letters</i> , 2015 , 15, 2358-64	11.5	82
67	Application of Nanoparticle Antioxidants to Enable Hyperstable Chloroplasts for Solar Energy Harvesting. <i>Advanced Energy Materials</i> , 2013 , 3, 881-893	21.8	80
66	Noninvasive ovarian cancer biomarker detection via an optical nanosensor implant. <i>Science Advances</i> , 2018 , 4, eaaq1090	14.3	78
65	A luciferase/single-walled carbon nanotube conjugate for near-infrared fluorescent detection of cellular ATP. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 1456-9	16.4	78
64	Stochastic analysis of stepwise fluorescence quenching reactions on single-walled carbon nanotubes: single molecule sensors. <i>Nano Letters</i> , 2008 , 8, 4299-304	11.5	76
63	Tumour-specific PI3K inhibition via nanoparticle-targeted delivery in head and neck squamous cell carcinoma. <i>Nature Communications</i> , 2017 , 8, 14292	17.4	71
62	Redox-active nanomaterials for nanomedicine applications. <i>Nanoscale</i> , 2017 , 9, 15226-15251	7.7	65

61	Exciton antennas and concentrators from core-shell and corrugated carbon nanotube filaments of homogeneous composition. <i>Nature Materials</i> , 2010 , 9, 833-9	27	63
60	A rapid, direct, quantitative, and label-free detector of cardiac biomarker troponin T using near-infrared fluorescent single-walled carbon nanotube sensors. <i>Advanced Healthcare Materials</i> , 2014 , 3, 412-23	10.1	61
59	Modular Click-in-emulsion bone-targeted nanogels. <i>Advanced Materials</i> , 2013 , 25, 1449-54	24	59
58	Cell Membrane Proteins Modulate the Carbon Nanotube Optical Bandgap via Surface Charge Accumulation. <i>ACS Nano</i> , 2016 , 10, 499-506	16.7	56
57	Patterned networks of mouse hippocampal neurons on peptide-coated gold surfaces. <i>Biomaterials</i> , 2005 , 26, 883-9	15.6	56
56	Divalent Ion and Thermally Induced DNA Conformational Polymorphism on Single-walled Carbon Nanotubes. <i>Macromolecules</i> , 2007 , 40, 6731-6739	5.5	53
55	Nanomedicines for kidney diseases. <i>Kidney International</i> , 2016 , 90, 740-5	9.9	52
54	A Carbon Nanotube Optical Reporter Maps Endolysosomal Lipid Flux. <i>ACS Nano</i> , 2017 , 11, 10689-10703	16.7	52
53	Selective Nanoparticle Targeting of the Renal Tubules. <i>Hypertension</i> , 2018 , 71, 87-94	8.5	52
52	Length-dependent optical effects in single walled carbon nanotubes. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 6211-3	3.4	48
51	An optical nanoreporter of endolysosomal lipid accumulation reveals enduring effects of diet on hepatic macrophages in vivo. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	47
50	HIV Detection via a Carbon Nanotube RNA Sensor. <i>ACS Sensors</i> , 2019 , 4, 1236-1244	9.2	46
49	Carbon nanotube population analysis from Raman and photoluminescence intensities. <i>Applied Physics Letters</i> , 2006 , 88, 023109	3.4	46
48	A Carbon Nanotube Optical Sensor Reports Nuclear Entry via a Noncanonical Pathway. <i>ACS Nano</i> , 2017 , 11, 3875-3882	16.7	42
47	DNA-Carbon Nanotube Complexation Affinity and Photoluminescence Modulation Are Independent. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21397-21405	9.5	42
46	Banning carbon nanotubes would be scientifically unjustified and damaging to innovation. <i>Nature Nanotechnology</i> , 2020 , 15, 164-166	28.7	40
45	A Fluorescent Carbon Nanotube Sensor Detects the Metastatic Prostate Cancer Biomarker uPA. <i>ACS Sensors</i> , 2018 , 3, 1838-1845	9.2	36
44	Helical polycarbodiimide cloaking of carbon nanotubes enables inter-nanotube exciton energy transfer modulation. <i>Journal of the American Chemical Society</i> , 2014 , 136, 15545-50	16.4	35

43	Color-blind fluorescence detection for four-color DNA sequencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 5346-51	11.5	35
42	Role of adsorbed surfactant in the reaction of aryl diazonium salts with single-walled carbon nanotubes. <i>Langmuir</i> , 2012 , 28, 1309-21	4	33
41	Lipid-modified aminoglycoside derivatives for in vivo siRNA delivery. <i>Advanced Materials</i> , 2013 , 25, 4641-4	4	33
40	Measuring uptake dynamics of multiple identifiable carbon nanotube species via high-speed confocal Raman imaging of live cells. <i>Nano Letters</i> , 2012 , 12, 6170-4	11.5	31
39	Photoluminescent carbon nanotubes interrogate the permeability of multicellular tumor spheroids. <i>Carbon</i> , 2016 , 97, 99-109	10.4	30
38	Synthetic molecular recognition nanosensor paint for microalbuminuria. <i>Nature Communications</i> , 2019 , 10, 3605	17.4	30
37	Progress Towards Applications of Carbon Nanotube Photoluminescence. <i>ECS Journal of Solid State Science and Technology</i> , 2017 , 6, M3075-M3077	2	25
36	Selective nanoparticle-mediated targeting of renal tubular Toll-like receptor 9 attenuates ischemic acute kidney injury. <i>Kidney International</i> , 2020 , 98, 76-87	9.9	24
35	Advances in the clinical translation of nanotechnology. <i>Current Opinion in Biotechnology</i> , 2017 , 46, 66-73	11.4	23
34	Polymer cloaking modulates the carbon nanotube protein corona and delivery into cancer cells. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 6637-6644	7.3	19
33	Long-term in vivo biocompatibility of single-walled carbon nanotubes. <i>PLoS ONE</i> , 2020 , 15, e0226791	3.7	17
32	Synthesis, pharmacokinetics, and biological use of lysine-modified single-walled carbon nanotubes. <i>International Journal of Nanomedicine</i> , 2014 , 9, 4245-55	7.3	16
31	Control of Carbon Nanotube Solvatochromic Response to Chemotherapeutic Agents. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37947-37953	9.5	14
30	The Chemistry of Single-Walled Nanotubes. <i>MRS Bulletin</i> , 2009 , 34, 950-961	3.2	14
29	Single Nanotube Spectral Imaging To Determine Molar Concentrations of Isolated Carbon Nanotube Species. <i>Analytical Chemistry</i> , 2017 , 89, 1073-1077	7.8	13
28	An Nanosensor Measures Compartmental Doxorubicin Exposure. <i>Nano Letters</i> , 2019 , 19, 4343-4354	11.5	12
27	A perception-based nanosensor platform to detect cancer biomarkers. <i>Science Advances</i> , 2021 , 7, eabj08523	11.3	10
26	Harnessing nanotechnology to expand the toolbox of chemical biology. <i>Nature Chemical Biology</i> , 2021 , 17, 129-137	11.7	10

25	Nanoreporter of an Enzymatic Suicide Inactivation Pathway. <i>Nano Letters</i> , 2020 , 20, 7819-7827	11.5	9
24	Electrostatic Screening Modulates Analyte Binding and Emission of Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 10592-10599	3.8	9
23	Glutathione-S-transferase Fusion Protein Nanosensor. <i>Nano Letters</i> , 2020 , 20, 7287-7295	11.5	8
22	Dynamic manipulation of modes in an optical waveguide using dielectrophoresis. <i>Electrophoresis</i> , 2012 , 33, 2075-85	3.6	7
21	Electroporation-induced changes in tumor vasculature and microenvironment can promote the delivery and increase the efficacy of sorafenib nanoparticles. <i>Bioelectrochemistry</i> , 2019 , 130, 107328	5.6	6
20	Tumor-targeted nanoparticles improve the therapeutic index of BCL2 and MCL1 dual inhibition. <i>Blood</i> , 2021 , 137, 2057-2069	2.2	6
19	Detection of ovarian cancer via the spectral fingerprinting of quantum-defect-modified carbon nanotubes in serum by machine learning.. <i>Nature Biomedical Engineering</i> , 2022 ,	19	6
18	En route to single-step, two-phase purification of carbon nanotubes facilitated by high-throughput spectroscopy. <i>Scientific Reports</i> , 2021 , 11, 10618	4.9	5
17	Optical Voltammetry of Polymer-Encapsulated Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 24200-24208	3.8	4
16	Kidney-Targeted Renalase Agonist Prevents Cisplatin-Induced Chronic Kidney Disease by Inhibiting Regulated Necrosis and Inflammation.. <i>Journal of the American Society of Nephrology: JASN</i> , 2021 ,	12.7	4
15	Renal proximal tubular NEMO plays a critical role in ischemic acute kidney injury. <i>JCI Insight</i> , 2020 , 5,	9.9	4
14	Single-Chirality Near-Infrared Carbon Nanotube Sub-Cellular Imaging and FRET Probes. <i>Nano Letters</i> , 2021 , 21, 6441-6448	11.5	4
13	Merging Data Curation and Machine Learning to Improve Nanomedicines.. <i>Advanced Drug Delivery Reviews</i> , 2022 , 114172	18.5	4
12	Modulating Single Walled Carbon Nanotube Fluorescence in Response to Specific Molecular Adsorption. <i>AIP Conference Proceedings</i> , 2005 ,	0	3
11	Can Fish and Cell Phones Teach Us about Our Health?. <i>ACS Sensors</i> , 2019 , 4, 2566-2570	9.2	1
10	Molecular recognition using corona phase complexes made of synthetic polymers adsorbed on carbon nanotubes 2014 ,		1
9	Kidney-Targeted Redox Scavenger Therapy Prevents Cisplatin-Induced Acute Kidney Injury.. <i>Frontiers in Pharmacology</i> , 2021 , 12, 790913	5.6	1
8	Near Infrared Spectral Imaging of Carbon Nanotubes for Biomedicine 2020 , 103-132		1

- 7 The IFN β /PDL1 Pathway Enhances CD8T-DCT Interaction to Promote Hypertension.. *Circulation Research*, **2022**, 101161CIRCRESAHA121320373 15.7 1
- 6 Drug Delivery: Lipid-Modified Aminoglycoside Derivatives for In Vivo siRNA Delivery (Adv. Mater. 33/2013). *Advanced Materials*, **2013**, 25, 4680-4680 24
- 5 Non-Covalent Coatings on Carbon Nanotubes Mediate Photosensitizer Interactions. *ACS Applied Materials & Interfaces*, **2021**, 13, 51343-51350 9.5
- 4 Machine Learning for Molecular Perceptron: A Perception-Based Sensing System. *ECS Meeting Abstracts*, **2020**, MA2020-01, 632-632 0
- 3 Developing Ovarian Cancer Sensors Using Molecular Perceptron. *ECS Meeting Abstracts*, **2021**, MA2021-01, 538-538 0
- 2 Nanotargeting to the kidney **2022**, 439-449
- 1 Emerging technologies in cancer detection **2022**, 353-392