

# David P Cormode

## 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.

94 papers	6,286 citations	44 h-index	79 g-index
97 ext. papers	7,352 ext. citations	9.4 avg, IF	5.76 L-index

#	Paper	IF	Citations
94	Multifunctional gold nanoparticles for diagnosis and therapy of disease. <i>Molecular Pharmaceutics</i> , <b>2013</b> , 10, 831-47	5.6	496
93	Atherosclerotic plaque composition: analysis with multicolor CT and targeted gold nanoparticles. <i>Radiology</i> , <b>2010</b> , 256, 774-82	20.5	361
92	Nanocrystal core high-density lipoproteins: a multimodality contrast agent platform. <i>Nano Letters</i> , <b>2008</b> , 8, 3715-23	11.5	277
91	A statin-loaded reconstituted high-density lipoprotein nanoparticle inhibits atherosclerotic plaque inflammation. <i>Nature Communications</i> , <b>2014</b> , 5, 3065	17.4	269
90	Nanoparticulate assemblies of amphiphiles and diagnostically active materials for multimodality imaging. <i>Accounts of Chemical Research</i> , <b>2009</b> , 42, 904-14	24.3	223
89	Nanotechnology in medical imaging: probe design and applications. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2009</b> , 29, 992-1000	9.4	213
88	Nanoparticle contrast agents for computed tomography: a focus on micelles. <i>Contrast Media and Molecular Imaging</i> , <b>2014</b> , 9, 37-52	3.2	211
87	Improved biocompatibility and pharmacokinetics of silica nanoparticles by means of a lipid coating: a multimodality investigation. <i>Nano Letters</i> , <b>2008</b> , 8, 2517-25	11.5	204
86	Nanocatalysts promote <i>Streptococcus mutans</i> biofilm matrix degradation and enhance bacterial killing to suppress dental caries in vivo. <i>Biomaterials</i> , <b>2016</b> , 101, 272-84	15.6	156
85	Modified natural nanoparticles as contrast agents for medical imaging. <i>Advanced Drug Delivery Reviews</i> , <b>2010</b> , 62, 329-38	18.5	148
84	Tunable, biodegradable gold nanoparticles as contrast agents for computed tomography and photoacoustic imaging. <i>Biomaterials</i> , <b>2016</b> , 102, 87-97	15.6	138
83	Inhibiting macrophage proliferation suppresses atherosclerotic plaque inflammation. <i>Science Advances</i> , <b>2015</b> , 1,	14.3	137
82	Paramagnetic lipid-coated silica nanoparticles with a fluorescent quantum dot core: a new contrast agent platform for multimodality imaging. <i>Bioconjugate Chemistry</i> , <b>2008</b> , 19, 2471-9	6.3	133
81	CD163+ macrophages promote angiogenesis and vascular permeability accompanied by inflammation in atherosclerosis. <i>Journal of Clinical Investigation</i> , <b>2018</b> , 128, 1106-1124	15.9	126
80	Dextran-Coated Iron Oxide Nanoparticles as Biomimetic Catalysts for Localized and pH-Activated Biofilm Disruption. <i>ACS Nano</i> , <b>2019</b> , 13, 4960-4971	16.7	124
79	Emerging Biomedical Applications of Enzyme-Like Catalytic Nanomaterials. <i>Trends in Biotechnology</i> , <b>2018</b> , 36, 15-29	15.1	113
78	High-density lipoprotein-based contrast agents for multimodal imaging of atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2010</b> , 30, 169-76	9.4	97

77	Iron oxide core oil-in-water emulsions as a multifunctional nanoparticle platform for tumor targeting and imaging. <i>Biomaterials</i> , <b>2009</b> , 30, 6947-54	15.6	97
76	An ApoA-I mimetic peptide high-density-lipoprotein-based MRI contrast agent for atherosclerotic plaque composition detection. <i>Small</i> , <b>2008</b> , 4, 1437-44	11	96
75	Lipoproteins and lipoprotein mimetics for imaging and drug delivery. <i>Advanced Drug Delivery Reviews</i> , <b>2016</b> , 106, 116-131	18.5	96
74	RGD peptide functionalized and reconstituted high-density lipoprotein nanoparticles as a versatile and multimodal tumor targeting molecular imaging probe. <i>FASEB Journal</i> , <b>2010</b> , 24, 1689-99	0.9	93
73	Labeling monocytes with gold nanoparticles to track their recruitment in atherosclerosis with computed tomography. <i>Biomaterials</i> , <b>2016</b> , 87, 93-103	15.6	92
72	Single step reconstitution of multifunctional high-density lipoprotein-derived nanomaterials using microfluidics. <i>ACS Nano</i> , <b>2013</b> , 7, 9975-83	16.7	89
71	Dextran coated bismuth-iron oxide nanohybrid contrast agents for computed tomography and magnetic resonance imaging. <i>Journal of Materials Chemistry B</i> , <b>2014</b> , 2, 8239-8248	7.3	88
70	A fluorescent, paramagnetic and PEGylated gold/silica nanoparticle for MRI, CT and fluorescence imaging. <i>Contrast Media and Molecular Imaging</i> , <b>2010</b> , 5, 231-6	3.2	87
69	Synthesis, X-ray Opacity, and Biological Compatibility of Ultra-High Payload Elemental Bismuth Nanoparticle X-ray Contrast Agents. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 2266-2274	9.6	82
68	Multicolor spectral photon-counting computed tomography: in vivo dual contrast imaging with a high count rate scanner. <i>Scientific Reports</i> , <b>2017</b> , 7, 4784	4.9	81
67	Use of Nanoparticle Contrast Agents for Cell Tracking with Computed Tomography. <i>Bioconjugate Chemistry</i> , <b>2017</b> , 28, 1581-1597	6.3	80
66	Effect of Gold Nanoparticle Size on Their Properties as Contrast Agents for Computed Tomography. <i>Scientific Reports</i> , <b>2019</b> , 9, 14912	4.9	80
65	Topical ferumoxytol nanoparticles disrupt biofilms and prevent tooth decay in vivo via intrinsic catalytic activity. <i>Nature Communications</i> , <b>2018</b> , 9, 2920	17.4	79
64	Incorporation of an apoE-derived lipopeptide in high-density lipoprotein MRI contrast agents for enhanced imaging of macrophages in atherosclerosis. <i>Contrast Media and Molecular Imaging</i> , <b>2008</b> , 3, 233-42	3.2	77
63	Quantum dot and Cy5.5 labeled nanoparticles to investigate lipoprotein biointeractions via FRET resonance energy transfer. <i>Nano Letters</i> , <b>2010</b> , 10, 5131-8	11.5	69
62	Engineering of lipid-coated PLGA nanoparticles with a tunable payload of diagnostically active nanocrystals for medical imaging. <i>Chemical Communications</i> , <b>2012</b> , 48, 5835-7	5.8	66
61	Gold nanocrystal labeling allows low-density lipoprotein imaging from the subcellular to macroscopic level. <i>ACS Nano</i> , <b>2013</b> , 7, 9761-70	16.7	65
60	Collagen-specific peptide conjugated HDL nanoparticles as MRI contrast agent to evaluate compositional changes in atherosclerotic plaque regression. <i>JACC: Cardiovascular Imaging</i> , <b>2013</b> , 6, 373-84	8.4	63

59	Gold silver alloy nanoparticles (GSAN): an imaging probe for breast cancer screening with dual-energy mammography or computed tomography. <i>Nanoscale</i> , <b>2016</b> , 8, 13740-54	7.7	63
58	Review of an initial experience with an experimental spectral photon-counting computed tomography system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2017</b> , 873, 27-35	1.2	60
57	Comparison of synthetic high density lipoprotein (HDL) contrast agents for MR imaging of atherosclerosis. <i>Bioconjugate Chemistry</i> , <b>2009</b> , 20, 937-43	6.3	60
56	The biological properties of iron oxide core high-density lipoprotein in experimental atherosclerosis. <i>Biomaterials</i> , <b>2011</b> , 32, 206-13	15.6	59
55	Evaluation of spectral photon counting computed tomography K-edge imaging for determination of gold nanoparticle biodistribution in vivo. <i>Nanoscale</i> , <b>2017</b> , 9, 18246-18257	7.7	57
54	High-relaxivity gadolinium-modified high-density lipoproteins as magnetic resonance imaging contrast agents. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 6283-9	3.4	56
53	Multifunctional imaging nanoprobe. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , <b>2010</b> , 2, 138-50	9.2	55
52	Systematic in vitro toxicological screening of gold nanoparticles designed for nanomedicine applications. <i>Toxicology in Vitro</i> , <b>2015</b> , 29, 1445-53	3.6	53
51	Dual-modality, fluorescent, PLGA encapsulated bismuth nanoparticles for molecular and cellular fluorescence imaging and computed tomography. <i>Nanoscale</i> , <b>2014</b> , 6, 13104-12	7.7	48
50	Recent Advances in Molecular Imaging with Gold Nanoparticles. <i>Bioconjugate Chemistry</i> , <b>2020</b> , 31, 303-314	16.5	43
49	Multicolour imaging with spectral photon-counting CT: a phantom study. <i>European Radiology Experimental</i> , <b>2018</b> , 2, 34	4.5	40
48	Inorganic nanocrystals as contrast agents in MRI: synthesis, coating and introduction of multifunctionality. <i>NMR in Biomedicine</i> , <b>2013</b> , 26, 766-80	4.4	39
47	Nanodisco balls: control over surface versus core loading of diagnostically active nanocrystals into polymer nanoparticles. <i>ACS Nano</i> , <b>2014</b> , 8, 9143-53	16.7	38
46	Nanoparticles as magnetic resonance imaging contrast agents for vascular and cardiac diseases. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , <b>2011</b> , 3, 146-161	9.2	38
45	Multisite Thrombus Imaging and Fibrin Content Estimation With a Single Whole-Body PET Scan in Rats. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2015</b> , 35, 2114-21	9.4	37
44	An all-in-one nanoparticle (AION) contrast agent for breast cancer screening with DEM-CT-MRI-NIRF imaging. <i>Nanoscale</i> , <b>2018</b> , 10, 17236-17248	7.7	36
43	HDL as a contrast agent for medical imaging. <i>Clinical Lipidology</i> , <b>2009</b> , 4, 493-500		34
42	Nanoparticle Loaded Polymeric Microbubbles as Contrast Agents for Multimodal Imaging. <i>Langmuir</i> , <b>2015</b> , 31, 11858-67	4	33

41	Assessment of candidate elements for development of spectral photon-counting CT specific contrast agents. <i>Scientific Reports</i> , <b>2018</b> , 8, 12119	4.9	32
40	Effect of Gold Nanoparticle Size and Coating on Labeling Monocytes for CT Tracking. <i>Bioconjugate Chemistry</i> , <b>2017</b> , 28, 260-269	6.3	32
39	A versatile and tunable coating strategy allows control of nanocrystal delivery to cell types in the liver. <i>Bioconjugate Chemistry</i> , <b>2011</b> , 22, 353-61	6.3	32
38	Myeloid cell microsomal prostaglandin E synthase-1 fosters atherogenesis in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 6828-33	11.5	31
37	Improved Peritoneal Cavity and Abdominal Organ Imaging Using a Biphasic Contrast Agent Protocol and Spectral Photon Counting Computed Tomography K-Edge Imaging. <i>Investigative Radiology</i> , <b>2018</b> , 53, 629-639	10.1	29
36	Development of silica-encapsulated silver nanoparticles as contrast agents intended for dual-energy mammography. <i>European Radiology</i> , <b>2016</b> , 26, 3301-9	8	27
35	High spectral and spatial resolution X-ray transmission radiography and tomography using a Color X-ray Camera. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2014</b> , 735, 644-644	1.2	26
34	Dextran-Coated Cerium Oxide Nanoparticles: A Computed Tomography Contrast Agent for Imaging the Gastrointestinal Tract and Inflammatory Bowel Disease. <i>ACS Nano</i> , <b>2020</b> , 14, 10187-10197	16.7	26
33	Activatable Hybrid Polyphosphazene-AuNP Nanoprobe for ROS Detection by Bimodal PA/CT Imaging. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 28648-28656	9.5	25
32	Radiation Dosimetry of the Fibrin-Binding Probe $^{64}\text{Cu}$ -FBP8 and Its Feasibility for PET Imaging of Deep Vein Thrombosis and Pulmonary Embolism in Rats. <i>Journal of Nuclear Medicine</i> , <b>2015</b> , 56, 1088-93	8.9	21
31	Wulff in a cage gold nanoparticles as contrast agents for computed tomography and photoacoustic imaging. <i>Nanoscale</i> , <b>2018</b> , 10, 18749-18757	7.7	21
30	Nanoparticle contrast agents for X-ray imaging applications. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , <b>2020</b> , 12, e1642	9.2	21
29	Biodegradable Gold Nanoclusters with Improved Excretion Due to pH-Triggered Hydrophobic-to-Hydrophilic Transition. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 7783-7794	16.4	19
28	X-ray-Based Techniques to Study the Nano-Bio Interface. <i>ACS Nano</i> , <b>2021</b> , 15, 3754-3807	16.7	18
27	Precision targeting of bacterial pathogen via bi-functional nanozyme activated by biofilm microenvironment. <i>Biomaterials</i> , <b>2021</b> , 268, 120581	15.6	18
26	Repurposing ferumoxytol: Diagnostic and therapeutic applications of an FDA-approved nanoparticle.. <i>Theranostics</i> , <b>2022</b> , 12, 796-816	12.1	15
25	Renally Excretable and Size-Tunable Silver Sulfide Nanoparticles for Dual-Energy Mammography or Computed Tomography. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 7845-7854	9.6	13
24	Ferumoxytol Nanoparticles Target Biofilms Causing Tooth Decay in the Human Mouth. <i>Nano Letters</i> , <b>2021</b> , 21, 9442-9449	11.5	12

23	Nanoclusters of iron oxide: effect of core composition on structure, biocompatibility, and cell labeling efficacy. <i>Bioconjugate Chemistry</i> , <b>2012</b> , 23, 941-50	6.3	11
22	In Vivo Molecular K-Edge Imaging of Atherosclerotic Plaque Using Photon-counting CT. <i>Radiology</i> , <b>2021</b> , 300, 98-107	20.5	10
21	The complex fate in plasma of gadolinium incorporated into high-density lipoproteins used for magnetic imaging of atherosclerotic plaques. <i>Bioconjugate Chemistry</i> , <b>2013</b> , 24, 1039-48	6.3	9
20	Science to practice: versatile method to track transplanted encapsulated islet cells with multiple imaging modalities. <i>Radiology</i> , <b>2011</b> , 258, 1-2	20.5	9
19	Multicolor spectral photon counting CT monitors and quantifies therapeutic cells and their encapsulating scaffold in a model of brain damage. <i>Nanotheranostics</i> , <b>2020</b> , 4, 129-141	5.6	8
18	Radioprotective garment-inspired biodegradable polymetal nanoparticles for enhanced CT contrast production. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 381-391	9.6	8
17	Silver telluride nanoparticles as biocompatible and enhanced contrast agents for X-ray imaging: an breast cancer screening study. <i>Nanoscale</i> , <b>2021</b> , 13, 163-174	7.7	8
16	Water-Dispersible Bismuth-Organic Materials with Computed Tomography Contrast Properties. <i>ACS Applied Bio Materials</i> , <b>2018</b> , 1, 1918-1926	4.1	7
15	Gold Nanoparticles for Biomedical Applications: Synthesis and In Vitro Evaluation. <i>Methods in Pharmacology and Toxicology</i> , <b>2016</b> , 87-111	1.1	6
14	Letter to the editor re: spectral Hounsfield units--a new radiological concept. <i>European Radiology</i> , <b>2013</b> , 23, 640-1	8	6
13	High-density lipoprotein is a nanoparticle, but not all nanoparticles are high-density lipoprotein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, E3548	11.5	5
12	Novel Treatment for Glioblastoma Delivered by a Radiation Responsive and Radiopaque Hydrogel. <i>ACS Biomaterials Science and Engineering</i> , <b>2021</b> , 7, 3209-3220	5.5	5
11	Polyphosphazene-Based Nanoparticles as Contrast Agents. <i>ACS Symposium Series</i> , <b>2018</b> , 77-100	0.4	4
10	Nanoinformatics Revolutionizes Personalized Cancer Therapy. <i>Trends in Cancer</i> , <b>2018</b> , 4, 397-399	12.5	3
9	Detecting and Monitoring Hydrogels with Medical Imaging. <i>ACS Biomaterials Science and Engineering</i> , <b>2021</b> , 7, 4027-4047	5.5	3
8	Ultrasmall Antioxidant Cerium Oxide Nanoparticles for Regulation of Acute Inflammation.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 60852-60864	9.5	3
7	Evaluation of silver sulfide nanoparticles as a contrast agent for spectral photon-counting digital mammography: a phantom study <b>2019</b> ,		2
6	Silver chalcogenide nanoparticles: a review of their biomedical applications. <i>Nanoscale</i> , <b>2021</b> , 13, 19306-19323	19.3	2

5	17 Heavy Elements for X-Ray Contrast <b>2021</b> , 457-484		2
4	Nanoparticle Contrast Agents for Medical Imaging <b>2018</b> , 219-250		1
3	Material decomposition in an arbitrary number of dimensions using noise compensating projection. <i>Biomedical Physics and Engineering Express</i> , <b>2018</b> , 4, 015007	1.5	1
2	Biodegradable AuNP-Based Plasmonic Nanogels as Contrast Agents for Computed Tomography and Photoacoustics. <i>Methods in Molecular Biology</i> , <b>2022</b> , 2393, 773-796	1.4	0
1	Nanoparticles for Cardiovascular Imaging with CT <b>2017</b> , 357-384		