# David P Cormode

## List of Publications by Year in Descending Order



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| 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 | Repurposing ferumoxytol: Diagnostic and therapeutic applications of an FDA-approved nanoparticle.. *Theranostics*, **2022**, 12, 796-816 | 12.1 | 15 |
| 93 | Biodegradable AuNP-Based Plasmonic Nanogels as Contrast Agents for Computed Tomography and Photoacoustics. *Methods in Molecular Biology*, **2022**, 2393, 773-796 | 1.4 | 0 |
| 92 | Ferumoxytol Nanoparticles Target Biofilms Causing Tooth Decay in the Human Mouth. *Nano Letters* , **2021**, 21, 9442-9449 | 11.5 | 12 |
| 91 | Silver chalcogenide nanoparticles: a review of their biomedical applications. *Nanoscale*, **2021**, 13, 19306-19323 | 7.7 | 2 |
| 90 | 17 Heavy Elements for X-Ray Contrast **2021**, 457-484 | | 2 |
| 89 | X-ray-Based Techniques to Study the Nano-Bio Interface. *ACS Nano*, **2021**, 15, 3754-3807 | 16.7 | 18 |
| 88 | Detecting and Monitoring Hydrogels with Medical Imaging. *ACS Biomaterials Science and Engineering*, **2021**, 7, 4027-4047 | 5.5 | 3 |
| 87 | Novel Treatment for Glioblastoma Delivered by a Radiation Responsive and Radiopaque Hydrogel. *ACS Biomaterials Science and Engineering*, **2021**, 7, 3209-3220 | 5.5 | 5 |
| 86 | Precision targeting of bacterial pathogen via bi-functional nanozyme activated by biofilm microenvironment. *Biomaterials*, **2021**, 268, 120581 | 15.6 | 18 |
| 85 | Silver telluride nanoparticles as biocompatible and enhanced contrast agents for X-ray imaging: an breast cancer screening study. *Nanoscale*, **2021**, 13, 163-174 | 7.7 | 8 |
| 84 | In Vivo Molecular K-Edge Imaging of Atherosclerotic Plaque Using Photon-counting CT. *Radiology*, **2021**, 300, 98-107 | 20.5 | 10 |
| 83 | Ultrasmall Antioxidant Cerium Oxide Nanoparticles for Regulation of Acute Inflammation.. *ACS Applied Materials & Interfaces*, **2021**, 13, 60852-60864 | 9.5 | 3 |
| 82 | Multicolor spectral photon counting CT monitors and quantifies therapeutic cells and their encapsulating scaffold in a model of brain damage. *Nanotheranostics*, **2020**, 4, 129-141 | 5.6 | 8 |
| 81 | Biodegradable Gold Nanoclusters with Improved Excretion Due to pH-Triggered Hydrophobic-to-Hydrophilic Transition. *Journal of the American Chemical Society*, **2020**, 142, 7783-7794 | 16.4 | 19 |
| 80 | Recent Advances in Molecular Imaging with Gold Nanoparticles. *Bioconjugate Chemistry*, **2020**, 31, 303-314 | 6.3 | 43 |
| 79 | Radioprotective garment-inspired biodegradable polymetal nanoparticles for enhanced CT contrast production. *Chemistry of Materials*, **2020**, 32, 381-391 | 9.6 | 8 |
| 78 | Dextran-Coated Cerium Oxide Nanoparticles: A Computed Tomography Contrast Agent for Imaging the Gastrointestinal Tract and Inflammatory Bowel Disease. *ACS Nano*, **2020**, 14, 10187-10197 | 16.7 | 26 |

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| 77 | Nanoparticle contrast agents for X-ray imaging applications. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2020**, 12, e1642 | 9.2 | 21 |
| 76 | Renally Excretable and Size-Tunable Silver Sulfide Nanoparticles for Dual-Energy Mammography or Computed Tomography. *Chemistry of Materials*, **2019**, 31, 7845-7854 | 9.6 | 13 |
| 75 | Activatable Hybrid Polyphosphazene-AuNP Nanoprobe for ROS Detection by Bimodal PA/CT Imaging. *ACS Applied Materials & Interfaces*, **2019**, 11, 28648-28656 | 9.5 | 25 |
| 74 | Effect of Gold Nanoparticle Size on Their Properties as Contrast Agents for Computed Tomography. *Scientific Reports*, **2019**, 9, 14912 | 4.9 | 80 |
| 73 | Evaluation of silver sulfide nanoparticles as a contrast agent for spectral photon-counting digital mammography: a phantom study **2019**, | | 2 |
| 72 | Dextran-Coated Iron Oxide Nanoparticles as Biomimetic Catalysts for Localized and pH-Activated Biofilm Disruption. *ACS Nano*, **2019**, 13, 4960-4971 | 16.7 | 124 |
| 71 | Nanoinformatics Revolutionizes Personalized Cancer Therapy. *Trends in Cancer*, **2018**, 4, 397-399 | 12.5 | 3 |
| 70 | Emerging Biomedical Applications of Enzyme-Like Catalytic Nanomaterials. *Trends in Biotechnology*, **2018**, 36, 15-29 | 15.1 | 113 |
| 69 | Topical ferumoxytol nanoparticles disrupt biofilms and prevent tooth decay in vivo via intrinsic catalytic activity. *Nature Communications*, **2018**, 9, 2920 | 17.4 | 79 |
| 68 | Polyphosphazene-Based Nanoparticles as Contrast Agents. *ACS Symposium Series*, **2018**, 77-100 | 0.4 | 4 |
| 67 | Assessment of candidate elements for development of spectral photon-counting CT specific contrast agents. *Scientific Reports*, **2018**, 8, 12119 | 4.9 | 32 |
| 66 | CD163+ macrophages promote angiogenesis and vascular permeability accompanied by inflammation in atherosclerosis. *Journal of Clinical Investigation*, **2018**, 128, 1106-1124 | 15.9 | 126 |
| 65 | Nanoparticle Contrast Agents for Medical Imaging **2018**, 219-250 | | 1 |
| 64 | Material decomposition in an arbitrary number of dimensions using noise compensating projection. *Biomedical Physics and Engineering Express*, **2018**, 4, 015007 | 1.5 | 1 |
| 63 | Water-Dispersible Bismuth-Organic Materials with Computed Tomography Contrast Properties. *ACS Applied Bio Materials*, **2018**, 1, 1918-1926 | 4.1 | 7 |
| 62 | Wulff in a cage gold nanoparticles as contrast agents for computed tomography and photoacoustic imaging. *Nanoscale*, **2018**, 10, 18749-18757 | 7.7 | 21 |
| 61 | Multicolour imaging with spectral photon-counting CT: a phantom study. *European Radiology Experimental*, **2018**, 2, 34 | 4.5 | 40 |
| 60 | An all-in-one nanoparticle (AION) contrast agent for breast cancer screening with DEM-CT-MRI-NIRF imaging. *Nanoscale*, **2018**, 10, 17236-17248 | 7.7 | 36 |

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| 59 | Improved Peritoneal Cavity and Abdominal Organ Imaging Using a Biphasic Contrast Agent Protocol and Spectral Photon Counting Computed Tomography K-Edge Imaging. *Investigative Radiology*, **2018**, 53, 629-639 | 10.1 | 29 |
| 58 | Review of an initial experience with an experimental spectral photon-counting computed tomography system. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2017**, 873, 27-35 | 1.2 | 60 |
| 57 | Use of Nanoparticle Contrast Agents for Cell Tracking with Computed Tomography. *Bioconjugate Chemistry*, **2017**, 28, 1581-1597 | 6.3 | 80 |
| 56 | Nanoparticles for Cardiovascular Imaging with CT **2017**, 357-384 | | |
| 55 | Evaluation of spectral photon counting computed tomography K-edge imaging for determination of gold nanoparticle biodistribution in vivo. *Nanoscale*, **2017**, 9, 18246-18257 | 7.7 | 57 |
| 54 | Multicolor spectral photon-counting computed tomography: in vivo dual contrast imaging with a high count rate scanner. *Scientific Reports*, **2017**, 7, 4784 | 4.9 | 81 |
| 53 | Effect of Gold Nanoparticle Size and Coating on Labeling Monocytes for CT Tracking. *Bioconjugate Chemistry*, **2017**, 28, 260-269 | 6.3 | 32 |
| 52 | Tunable, biodegradable gold nanoparticles as contrast agents for computed tomography and photoacoustic imaging. *Biomaterials*, **2016**, 102, 87-97 | 15.6 | 138 |
| 51 | Nanocatalysts promote Streptococcus mutans biofilm matrix degradation and enhance bacterial killing to suppress dental caries in vivo. *Biomaterials*, **2016**, 101, 272-84 | 15.6 | 156 |
| 50 | Labeling monocytes with gold nanoparticles to track their recruitment in atherosclerosis with computed tomography. *Biomaterials*, **2016**, 87, 93-103 | 15.6 | 92 |
| 49 | Gold Nanoparticles for Biomedical Applications: Synthesis and In Vitro Evaluation. *Methods in Pharmacology and Toxicology*, **2016**, 87-111 | 1.1 | 6 |
| 48 | Gold silver alloy nanoparticles (GSAN): an imaging probe for breast cancer screening with dual-energy mammography or computed tomography. *Nanoscale*, **2016**, 8, 13740-54 | 7.7 | 63 |
| 47 | Development of silica-encapsulated silver nanoparticles as contrast agents intended for dual-energy mammography. *European Radiology*, **2016**, 26, 3301-9 | 8 | 27 |
| 46 | Lipoproteins and lipoprotein mimetics for imaging and drug delivery. *Advanced Drug Delivery Reviews*, **2016**, 106, 116-131 | 18.5 | 96 |
| 45 | Radiation Dosimetry of the Fibrin-Binding Probe 64Cu-FBP8 and Its Feasibility for PET Imaging of Deep Vein Thrombosis and Pulmonary Embolism in Rats. *Journal of Nuclear Medicine*, **2015**, 56, 1088-93 | 8.9 | 21 |
| 44 | Inhibiting macrophage proliferation suppresses atherosclerotic plaque inflammation. *Science Advances*, **2015**, 1, | 14.3 | 137 |
| 43 | Multisite Thrombus Imaging and Fibrin Content Estimation With a Single Whole-Body PET Scan in Rats. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2015**, 35, 2114-21 | 9.4 | 37 |
| 42 | Systematic in vitro toxicological screening of gold nanoparticles designed for nanomedicine applications. *Toxicology in Vitro*, **2015**, 29, 1445-53 | 3.6 | 53 |

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| 41 | Nanoparticle Loaded Polymeric Microbubbles as Contrast Agents for Multimodal Imaging. *Langmuir* , **2015**, 31, 11858-67 | 4 | 33 |
| 40 | Dextran coated bismuth-iron oxide nanohybrid contrast agents for computed tomography and magnetic resonance imaging. *Journal of Materials Chemistry B*, **2014**, 2, 8239-8248 | 7.3 | 88 |
| 39 | Nanoparticle contrast agents for computed tomography: a focus on micelles. *Contrast Media and Molecular Imaging*, **2014**, 9, 37-52 | 3.2 | 211 |
| 38 | Dual-modality, fluorescent, PLGA encapsulated bismuth nanoparticles for molecular and cellular fluorescence imaging and computed tomography. *Nanoscale*, **2014**, 6, 13104-12 | 7.7 | 48 |
| 37 | Nanodisco balls: control over surface versus core loading of diagnostically active nanocrystals into polymer nanoparticles. *ACS Nano*, **2014**, 8, 9143-53 | 16.7 | 38 |
| 36 | Synthesis, X-ray Opacity, and Biological Compatibility of Ultra-High Payload Elemental Bismuth Nanoparticle X-ray Contrast Agents. *Chemistry of Materials*, **2014**, 26, 2266-2274 | 9.6 | 82 |
| 35 | A statin-loaded reconstituted high-density lipoprotein nanoparticle inhibits atherosclerotic plaque inflammation. *Nature Communications*, **2014**, 5, 3065 | 17.4 | 269 |
| 34 | Myeloid cell microsomal prostaglandin E synthase-1 fosters atherogenesis in mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 6828-33 | 11.5 | 31 |
| 33 | High spectral and spatial resolution X-ray transmission radiography and tomography using a Color X-ray Camera. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2014**, 735, 644-644 | 1.2 | 26 |
| 32 | The complex fate in plasma of gadolinium incorporated into high-density lipoproteins used for magnetic imaging of atherosclerotic plaques. *Bioconjugate Chemistry*, **2013**, 24, 1039-48 | 6.3 | 9 |
| 31 | Letter to the editor re: spectral Hounsfield units--a new radiological concept. *European Radiology*, **2013**, 23, 640-1 | 8 | 6 |
| 30 | Single step reconstitution of multifunctional high-density lipoprotein-derived nanomaterials using microfluidics. *ACS Nano*, **2013**, 7, 9975-83 | 16.7 | 89 |
| 29 | Gold nanocrystal labeling allows low-density lipoprotein imaging from the subcellular to macroscopic level. *ACS Nano*, **2013**, 7, 9761-70 | 16.7 | 65 |
| 28 | Multifunctional gold nanoparticles for diagnosis and therapy of disease. *Molecular Pharmaceutics*, **2013**, 10, 831-47 | 5.6 | 496 |
| 27 | Collagen-specific peptide conjugated HDL nanoparticles as MRI contrast agent to evaluate compositional changes in atherosclerotic plaque regression. *JACC: Cardiovascular Imaging*, **2013**, 6, 373-84 | 8.4 | 63 |
| 26 | Inorganic nanocrystals as contrast agents in MRI: synthesis, coating and introduction of multifunctionality. *NMR in Biomedicine*, **2013**, 26, 766-80 | 4.4 | 39 |
| 25 | High-density lipoprotein is a nanoparticle, but not all nanoparticles are high-density lipoprotein. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, E3548 | 11.5 | 5 |
| 24 | Nanoclusters of iron oxide: effect of core composition on structure, biocompatibility, and cell labeling efficacy. *Bioconjugate Chemistry*, **2012**, 23, 941-50 | 6.3 | 11 |

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|---|---|---|---|
| 23 | Engineering of lipid-coated PLGA nanoparticles with a tunable payload of diagnostically active nanocrystals for medical imaging. *Chemical Communications*, **2012**, 48, 5835-7 | 5.8 | 66 |
| 22 | Nanoparticles as magnetic resonance imaging contrast agents for vascular and cardiac diseases. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2011**, 3, 146-161 | 9.2 | 38 |
| 21 | A versatile and tunable coating strategy allows control of nanocrystal delivery to cell types in the liver. *Bioconjugate Chemistry*, **2011**, 22, 353-61 | 6.3 | 32 |
| 20 | The biological properties of iron oxide core high-density lipoprotein in experimental atherosclerosis. *Biomaterials*, **2011**, 32, 206-13 | 15.6 | 59 |
| 19 | Science to practice: versatile method to track transplanted encapsulated islet cells with multiple imaging modalities. *Radiology*, **2011**, 258, 1-2 | 20.5 | 9 |
| 18 | RGD peptide functionalized and reconstituted high-density lipoprotein nanoparticles as a versatile and multimodal tumor targeting molecular imaging probe. *FASEB Journal*, **2010**, 24, 1689-99 | 0.9 | 93 |
| 17 | Atherosclerotic plaque composition: analysis with multicolor CT and targeted gold nanoparticles. *Radiology*, **2010**, 256, 774-82 | 20.5 | 361 |
| 16 | High-density lipoprotein-based contrast agents for multimodal imaging of atherosclerosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2010**, 30, 169-76 | 9.4 | 97 |
| 15 | Quantum dot and Cy5.5 labeled nanoparticles to investigate lipoprotein biointeractions via Förster resonance energy transfer. *Nano Letters*, **2010**, 10, 5131-8 | 11.5 | 69 |
| 14 | Modified natural nanoparticles as contrast agents for medical imaging. *Advanced Drug Delivery Reviews*, **2010**, 62, 329-38 | 18.5 | 148 |
| 13 | A fluorescent, paramagnetic and PEGylated gold/silica nanoparticle for MRI, CT and fluorescence imaging. *Contrast Media and Molecular Imaging*, **2010**, 5, 231-6 | 3.2 | 87 |
| 12 | Multifunctional imaging nanoprobes. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2010**, 2, 138-50 | 9.2 | 55 |
| 11 | HDL as a contrast agent for medical imaging. *Clinical Lipidology*, **2009**, 4, 493-500 | | 34 |
| 10 | Nanotechnology in medical imaging: probe design and applications. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2009**, 29, 992-1000 | 9.4 | 213 |
| 9 | Iron oxide core oil-in-water emulsions as a multifunctional nanoparticle platform for tumor targeting and imaging. *Biomaterials*, **2009**, 30, 6947-54 | 15.6 | 97 |
| 8 | High-relaxivity gadolinium-modified high-density lipoproteins as magnetic resonance imaging contrast agents. *Journal of Physical Chemistry B*, **2009**, 113, 6283-9 | 3.4 | 56 |
| 7 | Comparison of synthetic high density lipoprotein (HDL) contrast agents for MR imaging of atherosclerosis. *Bioconjugate Chemistry*, **2009**, 20, 937-43 | 6.3 | 60 |
| 6 | Nanoparticulate assemblies of amphiphiles and diagnostically active materials for multimodality imaging. *Accounts of Chemical Research*, **2009**, 42, 904-14 | 24.3 | 223 |

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| 5 | Nanocrystal core high-density lipoproteins: a multimodality contrast agent platform. *Nano Letters*, **2008**, 8, 3715-23 | 11.5 | 277 |
| 4 | Improved biocompatibility and pharmacokinetics of silica nanoparticles by means of a lipid coating: a multimodality investigation. *Nano Letters*, **2008**, 8, 2517-25 | 11.5 | 204 |
| 3 | An ApoA-I mimetic peptide high-density-lipoprotein-based MRI contrast agent for atherosclerotic plaque composition detection. *Small*, **2008**, 4, 1437-44 | 11 | 96 |
| 2 | Incorporation of an apoE-derived lipopeptide in high-density lipoprotein MRI contrast agents for enhanced imaging of macrophages in atherosclerosis. *Contrast Media and Molecular Imaging*, **2008**, 3, 233-42 | 3.2 | 77 |
| 1 | Paramagnetic lipid-coated silica nanoparticles with a fluorescent quantum dot core: a new contrast agent platform for multimodality imaging. *Bioconjugate Chemistry*, **2008**, 19, 2471-9 | 6.3 | 133 |