

Dr Qianqian Ni's Publication List

Year 2023

- Biomimetic Nanovaccine-mediated multivalent IL-15 self- transpresentation (MIST) for potent and safe cancer immunotherapy
24 October 2023 **NATURE COMMUNICATIONS** 14(6748):1-18
Wang K, ... **Ni Q# (corresponding author)**, et al.
DOI: 10.1038/s41467-023-42155-z
- Materials Engineering Strategies for Cancer Vaccine Adjuvant Development
9 May 2023 **CHEMICAL SOCIETY REVIEWS** 25 pages ROYAL SOC CHEMISTRY
Zhang X, ... **Ni Q# (corresponding author)**, et al.
DOI: 10.1039/D2CS00647B
- Activatable NIR-II Photothermal Lipid Nanoparticles for Improved Messenger RNA Delivery
19 Apr 2023 **ANGEWANDTE CHEMIE-INTERNATIONAL EDITION** 8 pages WILEY-V C H VERLAG GMBH
Li B, ... **Ni Q# (corresponding author)**
DOI: 10.1002/ANIE.202302676
- Engineered Toll-like Receptor Nanoagonist Binding to Extracellular Matrix Elicits Safe and Robust Antitumor Immunity
28 Mar 2023 **ACS NANO** 17(6):5340-5353 (14 pages) AMER CHEMICAL SOC
Yang L, ... **Ni Q# (corresponding author)**, et al.
DOI: 10.1021/ACSNANO.2C08429
- MOF-derived Bimetallic Nanozyme to Catalyze ROS Scavenging for Protection of Myocardial Injury
1 Jan 2023 **Theranostics** 13(8):2721-2733
Xiang K, ... **Ni Q# (corresponding author)**, et al.
DOI: 10.7150/THNO.83543

Year 2022

- Gold Nanostar@Polyaniline Theranostic Agent with High Photothermal Conversion Efficiency for Photoacoustic Imaging-Guided Anticancer Phototherapy at a Low Dosage
29 Jun 2022 **ACS Applied Materials & Interfaces** 14(25):28570-28580
American Chemical Society (ACS)
Wang Y, Yang Y, Yang L, Lin Y, Tian Y, **Ni Q**, Wang S, Ju H, Guo J, Lu G
DOI: 10.1021/ACSAMI.2C05679
- One-year Outcomes of CCTA Alone Versus Machine Learning-based FFRCT for Coronary Artery Disease: A Single-center, Prospective Study
17 Feb 2022 **Eur Radiol** 32:5179-5188
Qiao H, Tang C, Schoepf UJ, Bayer 2nd RR, Tesche C, Di Jiang M, Yin C, Zhou C, Zhou F, Lu M, Jiang J, Lu G, **Ni Q**, Zhang L
DOI: 10.1007/s00330-022-08604-x

Year 2021

- The Effect of Coronary Calcification on Diagnostic Performance of Machine Learning-based CT-FFR: A Chinese Multicenter Study
Mar 2021 **Eur Radiol** 3(31):1482-1493
Jiang M, ... **Ni Q# (corresponding author)**, et al.
DOI: 10.1007/s00330-020-07261-2

Year 2020

- Orderly Curled Silica Nanosheets with a Small Size and Macromolecular Loading Pores: Synthesis and Delivery of Macromolecules to Eradicate Drug-Resistant Cancer
30 Dec 2020 **ACS APPLIED MATERIALS & INTERFACES** 12(52):57810-57820 (11 pages) AMER CHEMICAL SOC
Zhang Y, Teng Z, **Ni Q***, Tao J, Cao X, Wen Y, Wu L, Fang C, Wan B, Zhang X, Lu G
DOI: 10.1021/ACSAMI.0C19497
- A Deep Learning Approach to Characterize 2019 Coronavirus Disease (COVID-19) Pneumonia in Chest CT Images
Dec 2020 **Eur Radiol** 30(12):6517-6527
Ni Q*, Sun Z, Qi L, Chen W, Yang Y, Wang L, Zhang X, Yang L, Fang Y, Xing Z, Zhou Z, Yu Y, Lu G, Zhang L
10.1007/s00330-020-07044-9
- Early Stratification of Radiotherapy Response by Activatable Inflammation Magnetic Resonance Imaging
1 Dec 2020 **Nature Communications** 11(1)
Zhou Z, Deng H, Yang W, Wang Z, Lin L, Munasinghe J, Jacobson O, Liu Y, Tang L, **Ni Q**, Kang F, Liu Y, Niu G, Bai R, Qian C, Song J, Chen X
DOI: 10.1038/S41467-020-16771-Y
- Coronavirus Disease 2019 (COVID-19): A Perspective from China.
Aug 2020 **Radiology** 296(2): E15-E25
Zu Z, Jiang M, Xu P, Chen W, **Ni Q**, Lu G, Zhang L
DOI: 10.1148/RADIOL.2020200490
- The Influence of Image Quality on Diagnostic Performance of a Machine Learning Based Fractional Flow Reserve Derived from Coronary CT Angiography
May 2020 **Eur Radiol** 30(5): 2525-2534
Xu P, ... **Ni Q# (corresponding author)**, et al.
DOI: 10.1007/s00330-019-06571-4
- Solvent-Assisted Self-Assembly of a Metal-Organic Framework Based Biocatalyst for Cascade Reaction Driven Photodynamic Therapy
8 Apr 2020 **JOURNAL OF THE AMERICAN CHEMICAL SOCIETY** 142(14):6822-6832 (11 pages) AMER CHEMICAL SOC
He L, **Ni Q**, Mu J, Fan W, Liu L, Wang Z, Li L, Tang W, Liu Y, Cheng Y, Tang L, Yang Z, Liu Y, Zou J, Yang W, Jacobson O, Zhang F, Huang P, Chen X
DOI: 10.1021/JACS.0C02497
- Enhancing Selective Photosensitizer Accumulation and Oxygen Supply for High-efficacy Photodynamic Therapy Toward Glioma by 5-aminolevulinic Acid Loaded Nanoplatform
1 Apr 2020 **Biomaterials** 232:119677
Wang X, Tian Y, Liao X, Tang Y, **Ni Q**, Sun J, Zhao Y, Zhang J, Teng Z, Lu G
DOI: 10.1016/j.jcis.2020.01.020

- Artificial Intelligence in the Management of Intracranial Aneurysms: Current Status and Future Perspectives
1 Mar 2020 **AMERICAN JOURNAL OF NEURORADIOLOGY** 41(3):373-379 (7 pages) AMER SOC NEURORADIOLOGY
Shi Z, Hu B, Schoepf UJ, Savage R, Dargis D, Pan C, Li X, **Ni Q**, Lu G, Zhang L
DOI: 10.3174/AJNR.A6468
- Pifithrin- μ Incorporated in Gold Nanoparticle Amplifies Pro-apoptotic Unfolded Protein Response Cascades to Potentiate Synergistic Glioblastoma Therapy
1 Feb 2020 **Biomaterials** 232:119677
Zhua H, ... **Ni Q# (corresponding author)**, et al.
DOI: 10.1016/j.biomaterials.2019.119677
- A Bi-adjuvant Nanovaccine that Potentiates Immunogenicity of Neoantigen for Combination Immunotherapy of Colorectal Cancer
1 Jan 2020 **Science Advances** 6(12)
Ni Q*, Zhang F, Liu Y, Wang Z, Yu G, Liang B, Niu G, Su T, Zhu G, Lu G, Zhang L, Chen X
DOI: 10.1126/SCIADV.AAW6071

Year 2019

- Biodegradable Hollow Manganese/Cobalt Oxide Nanoparticles for Tumor Theranostics
27 Nov 2019 **Nanoscale** 11 (47), 23021-23026
Ren Q, Yang K, Zou R, Wan Z, Shen Z, Wu G, Zhou Z, **Ni Q**, Fan W, Hu J, Liu Y
DOI: 10.1039/C9NR07725A
- Machine Learning Using CT-FFR Predicts Proximal Atherosclerotic Plaque Formation Associated with LAD Myocardial Bridging
Aug 2019 **J Am Coll Cardiol Img** 12 (8 Part 1), 1591-1593
Zhou F, Tang C, Schoepf UJ, Tesche C, Rollins J, Liu H, Zhou C, Yan J, Lu M, Lu G, **Ni Q**, Zhang L
DOI: 10.1016/j.jcmg.2019.01.018
- Porphyrin Nanocage-Embedded Single-Molecular Nanoparticles for Cancer Nanotheranostics
24 Jun 2019 **Angewandte Chemie - International Edition** 58(26):8799-8803
Yu G, Cen TY, He Z, Wang SP, Wang Z, Ying XW, Li S, Jacobson O, Wang S, Wang L, Lin LS, Tian R, Zhou Z, **Ni Q**, Li X, Chen X
DOI: 10.1002/ANIE.201903277
- Multiparametric Functional Magnetic Resonance Imaging for Evaluating Renal Allograft Injury
1 Jun 2019 **KOREAN JOURNAL OF RADIOLOGY** 20(6):894-908 (15 pages)
KOREAN RADIOLOGICAL SOC
Yu Y, **Ni Q**, Wang Z, Chen M, Zhang L
DOI: 10.3348/KJR.2018.0540
- Advances in Immunotherapy of Type I Diabetes
15 Jan 2019 **Advanced Drug Delivery Reviews** 139:83-91
Ni Q*, Pham NB, Meng WS, Zhu G, Chen X
DOI: 10.1016/J.ADDR.2018.12.003

Year 2018

- Smart Bacterial Magnetic Nanoparticles for Tumor-targeting Magnetic Resonance Imaging of HER2-positive Breast Cancers
29 Nov 2018 **ACS Applied Materials & Interfaces** 11(4):3654-3665
Zhang Y, Ni Q, Xu C, Wan B, Geng Y, Zheng G, Yang Z, Tao J, Zhao Y, Wen J, Zhang J, Wang S, Tang Y, Li Y, Zhang Q, Liu L, Teng Z, Lu G
DOI: 10.1021/acsami.8b15838
- Polymeric Nanoparticles with a Glutathione-Sensitive Heterodimeric Multifunctional Prodrug for In Vivo Drug Monitoring and Synergistic Cancer Therapy
11 Jun 2018 **Angewandte Chemie - International Edition** 57(24):7066-7070
Zhang F, Ni Q*, Jacobson O, Cheng S, Liao A, Wang Z, He Z, Yu G, Song J, Ma Y, Niu G, Zhang L, Zhu G, Chen X
DOI: 10.1002/ANIE.201801984
- Oxygen-evolving Mesoporous Organosilica Coated Prussian Blue Nanoplatform for Highly Efficient Photodynamic Therapy of Tumors
May 2018 **Advanced Science** 5 (5), 1700847
Yang Z, Tian W, Wang Q, Zhao Y, Zhang Y, Tian Y, Tang Y, Wang S, Liu Y, Ni Q, Lu G, Teng Z, Zhang L
DOI: 10.1016/j.jcmg.2019.01.018
- In Situ shRNA Synthesis on DNA-Polylactide Nanoparticles to Treat Multidrug Resistant Breast Cancer
8 Mar 2018 **Advanced Materials** 30(10)
Ni Q*, Zhang F, Zhang Y, Zhu G, Wang Z, Teng Z, Wang C, Yung BC, Niu G, Lu G, Zhang L, Chen X
DOI: 10.1002/ADMA.201705737
- Toxic Reactive Oxygen Species Enhanced Synergistic Combination Therapy by Self-Assembled Metal-Phenolic Network Nanoparticles
22 Feb 2018 **Advanced Materials** 30(8)
Dai Y, Yang Z, Cheng S, Wang Z, Zhang R, Zhu G, Wang Z, Yung BC, Tian R, Jacobson O, Xu C, Ni Q, Song J, Sun X, Niu G, Chen X
DOI: 10.1002/ADMA.201704877
- Hypochlorous Acid Promoted Platinum Drug Chemotherapy by Myeloperoxidase-Encapsulated Therapeutic Metal Phenolic Nanoparticles
1 Jan 2018 **ACS NANO** 12(1):455-463 (9 pages) AMER CHEMICAL SOC
Dai Y, Cheng S, Wang Z, Zhang R, Yang Z, Wang J, Yung BC, Wang Z, Jacobson O, Xu C, Ni Q, Yu G, Zhou Z, Chen X
DOI: 10.1021/ACSNANO.7B06852

Year 2017

- Albumin/Vaccine Nanocomplexes that Assemble in vivo for Combination Cancer Immunotherapy
1 Dec 2017 **Nature Communications** 8(1)
Zhu G, Lynn GM, Jacobson O, Chen K, Liu Y, Zhang H, Ma Y, Zhang F, Tian R, Ni Q, Cheng S, Wang Z, Lu N, Yung BC, Wang Z, Lang L, Fu X, Jin A, Weiss ID, Vishwasrao H, Niu G, Shroff H, Klinman DM, Seder RA, Chen X
DOI: 10.1038/S41467-017-02191-Y
- Microneedle-array Patches Loaded with Dual Mineralized Protein/Peptide Particles for Type 2 Diabetes Therapy
1 Dec 2017 **Nature Communications** 8(1)

Chen W, Tian R, Xu C, Yung BC, Wang G, Liu Y, Ni Q, Zhang F, Zhou Z, Wang J, Niu G, Ma Y, Fu L, Chen X

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- Tumor Acidic Microenvironment Targeted Drug Delivery Based on pH-LIP-modified Mesoporous Organosilica Nanoparticles
13 Sep 2017 **ACS Applied Materials & Interfaces** 9(36):30543-30552 AMER CHEMICAL SOC
Zhang Y, Dang M, Tian Y, Zhu Y, Liu W, Tian W, Su Y, Ni Q, Xu C, Lu N, Tao J, Li Y, Zhao S, Zhao Y, Yang Z, Sun L, Teng Z, Lu G
DOI: 10.1021/acsami.7b10840
- Transformative Nanomedicine of an Amphiphilic Camptothecin Prodrug for Long Circulation and High Tumor Uptake in Cancer Therapy
Sep 2017 **ACS NANO** 11(9):8838-8848 (11 pages) AMER CHEMICAL SOC
Zhang F, Zhu G, Jacobson O, Liu Y, Chen K, Yu G, Ni Q, Fan J, Yang Z, Xu F, Fu X, Wang Z, Ma Y, Niu G, Zhao X, Chen X
DOI: 10.1021/ACSNANO.7B03003
- Small Intracranial Aneurysms: Diagnostic Accuracy of CT Angiography
26 Jun 2017 **Radiology** 285(3):941-952.
Yang Z, Ni Q*, Schoepf UJ, De Cecco CN, Lin H, Duguay TM, Zhou C, Zhao Y, Lu G, Zhang L
DOI: 10.1148/radiol.2017162290
- Periodic Mesoporous Organosilica Coated Prussian Blue for MR/PA Dual-Modal Imaging-Guided Photothermal-Chemotherapy of Triple Negative Breast Cancer
Mar 2017 **Advanced Science** 4(3):1600356
Tian W, Su Y, Tian Y, Wang S, Su X, Liu Y, Zhang Y, Tang Y, Ni Q, Liu W, Dang M, Wang C, Zhang J, Teng Z, Lu G
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- Efficient Nanovaccine Delivery in Cancer Immunotherapy
9 Mar 2017 **ACS NANO** 11(3):2387-2392 (6 pages) AMER CHEMICAL SOC
Zhu G, Zhang F, Ni Q, Niu G, Chen X
DOI: 10.1021/ACSNANO.7B00978
- Mesoporous Organosilica Nanoparticles with Large Radial Pores Via An Assembly-reconstruction Process in Bi-phase
7 Mar 2017 **Journal of Materials Chemistry B** 5(14):2625-2634 ROYAL SOC CHEMISTRY
Dang M, Li W, Zheng Y, Su X, Ma X, Zhang Y, Ni Q, Tao J, Zhang J, Lu G, Teng Z, Wang L
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- Gold Nanorod Embedded Large-pore Mesoporous Organosilica Nanospheres for Gene and Photothermal Cooperative Therapy of Triple Negative Breast Cancer
14 Dec 2016 **Nanoscale** 9(4):1466-1474
Ni Q*, Teng Z, Dang M, Tian Y, Zhang Y, Huang P, Su X, Lu N, Yang Z, Tian W, Wang S, Liu W, Tang Y, Lu G, Zhang L
DOI: 10.1039/C6NR07598C
- Image Quality, Radiation Dose and Diagnostic Accuracy of 70 kVp Whole Brain Volumetric CT Perfusion Imaging: A Preliminary Study
Nov 2016 **Eur Radiol** 26(11):4184-4193

Fang X, Ni Q, Schoepf UJ, Zhou C, Chen G, Luo S, Fuller SR, De Cecco CN, Zhang L, Lu G

DOI: 10.1007/s00330-016-4225-6

- Cerebral CTA with Low Tube Voltage and Low Contrast Material Volume for Detection of Intracranial Aneurysms
Oct 2016 **AJNR Am J Neuroradiol** 37(10):1774-1780
Ni Q*, Chen G, Schoepf UJ, Klitsie MAJ, De Cecco CN, Zhou C, Luo S, Lu G, Zhang L
DOI: 10.3174/AJNR.A4803
- A Multifunctional PB@mSiO₂-PEG/DOX Nanoplatfom for Combined Photothermal-Chemotherapy of Tumor
13 Jul 2016 **ACS Applied Materials & Interfaces** 8(27):17038-17046
Su Y, Teng Z, Yao H, Wang S, Tian Y, Zhang Y, Liu W, Tian W, Zheng L, Lu N, Ni Q, Su X, Tang Y, Sun J, Liu Y, Wu J, Yang G, Lu G, Zhang L
DOI: 10.1021/acsami.6b01147
- Single Phase Dual-energy CT Angiography: One-stop-shop tool for Evaluating Aneurysmal Subarachnoid Hemorrhage
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Year 2015

- 70-kVp High-pitch Computed Tomography Pulmonary Angiography with 40 mL Contrast Agent: Initial Experience
1 Dec 2015 **Academic Radiology** 22(12):1562-1570
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