Professor Nicholas J. Long – Full Publications List (May 2021)

(* = corresponding author)

(203 journal publications, 2 patents, 18 refereed conference proceedings, 6 textbooks/chapters)

229) Gallium: New developments and applications in radiopharmaceutics
Blower PJ*; Cusnir R; Darwesh A; **Long NJ**; Ma MT; Osborne BE; Price TW; Reid G; Southworth R; Stasiuk GJ; Terry SYA; Torres Martin de Rosales R
ADVANCES IN INORGANIC CHEMISTRY, **2021**.
https://doi.org/10.1016/bs.adioch.2021.04.002

228) Long-lived lanthanide emissionviaa pH-sensitiveand switchable LRET complex
Boltersdorf T; Gavins FNE; **Long NJ***
CHEMICAL SCIENCE, **2021.**
https://pubs.rsc.org/en/content/articlepdf/2021/sc/d1sc01503f

227) A coumarin-porphyrin FRET break-apart probe for Heme Oxygenase-1 (HO-1)
Walter ERH; Ge Y; Mason JC; Boyle JJ*; **Long NJ***
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, 143, 6460-6469, **2021**
https://pubs.acs.org/doi/pdf/10.1021/jacs.0c12864

226) New bifunctional chelators incorporating dibromomaleimide groups for radiolabelling of antibodies with PET radioisotopes
Farleigh M; Pham TT; Yu Z; Sunassee K; Firth G; Forte N; Chudasama V; Baker JR; **Long NJ**, Rivas C*, Ma M*
BIOCONJUGATE CHEMISTRY, **2021.**
https://pubs.acs.org/doi/10.1021/acs.bioconjchem.0c00710

225) Synthesis and characterisation of a range of Fe, Co, Ru and Rh triphos complexes and investigations into the catalytic hydrogenation of leuvulinic acid
Omoruyi O; Page SJ; Apps S; White AJP; **Long NJ**; Miller PW*
JOUNRAL OF ORGANOMETALLIC CHEMISTRY, 935, 1-12, **2021.**
https://doi.org/10.1016/j.jorganchem.2020.121650

224) Optimised Power Harvesting by Controlling the Pressure Applied to Molecular Junctions
Wang X; Ismael A; Almutlg A; Alshammari M; Al-Jobory A; Alshehab A; Bennett TLR; Wilkinson LA; Cohen LF; **Long NJ**, Robinson BJ*, Lambert C*
CHEMICAL SCIENCE, 12, 5230-5235, **2021.**
https://pubs.rsc.org/en/content/articlepdf/2021/sc/d1sc00672j

223) Molecular-scale thermoelectricity: as simple as 'ABC'
Ismael A*; Al-Jobory A; Wang X; Alshehab A; Almutlg A; Alshammari M; Grace I; Bennett TLR; Wilkinson LA; Robinson BJ, **Long NJ**, Lambert C*
NANOSCALE ADVANCES, 2, 5329-5334, **2020.**
https://pubs.rsc.org/en/content/articlepdf/2020/na/d0na00772b

222) *In vivo* delivery of a fluorescent FPR2/ALXtargeted probe using focused ultrasound and microbubbles to image activated microglia
Morse SV; Boltersdorf T; Chan TG; Gavins FNE*; Choi, JJ*; **Long NJ***
RSC CHEMICAL BIOLOGY, **2020.**
https://pubs.rsc.org/en/content/articlepdf/2020/cb/d0cb00140f

221) Imaging of epileptogenic zone in drug-resistant epileptic models with an electricity-responsive paramagnetic contrast agent

Wang C; Sun W; Zhang J; Guo Q; Zhou W; Fan D; Liu H; Qi M; Gao X; Xu H; Gao Z; Tian M; Zhang H; Wang J; Wei Z; **Long NJ**; Mao Y*; Li C*
NATURE BIOMEDICAL ENGINEERING **2020.**
file://icnas4.cc.ic.ac.uk/nlong/downloads/s41551-020-00618-4%20(1).pdf

220) Hematoma resolution *in vivo* is directed by Activating Transcription Factor 1 (ATF1)
Boyle JJ; Seneviratne A; Han Y; Wong E; Walter E; Jiang L; Cave L; **Long NJ,** Carling, D; Mason JC; Haskard DO; Boyle JJ*
CIRCULATION RESEARCH, 127, 928-947, **2020.**
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219) Tuning the thermoelectrical properties of anthracene-based self-assembled monolayers
Ismael A; Wang X; Bennett TLR; Wilkinson LA; Robinson BJ*; **Long NJ***; Cohen LF*; Lambert CJ*
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218) Targeted Molecular Iron Oxide Contrast Agents for Imaging Atherosclerotic Plaque
Evans RJ; Lavin B; Phinikaridou A; Chooi K; Mohri Z; Wong E; Boyle JJ; Krams, R; Botnar, R; **Long NJ***
NANOTHERANOSTICS, 4(4), 184-194, **2020.**
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217) Targeting of Formyl Peptide Receptor 2 for *in vivo* imaging of acute vascular inflammation
Boltersdorf T; Ansari J; Senchenkova EY; Groeper J; Pajonczyk D; Vital SA; Kaur, G; Alexander, S; Vogl, T; Rescher U; **Long NJ***; Gavins, FNE*.
THERANOSTICS, 10, 2659-2674, **2020.**
https://www.thno.org/v10p6599.pdf

216) PET Imaging of Liposomal Glucocorticoids using 89Zr-oxine: Theranostic Applications in Inflammatory Arthritis
Gawne PJ; Clarke F; Turjeman K; Cope AP; **Long NJ**; Barenholz Y; Terry SYA; de Rosales RTM*****
THERANOSTICS, 10, 3867-3879, **2020.**
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215) Scale-Up of Room-Temperature Constructive Quantum Interference from Single Molecules to Self-Assembled Molecular-Electronic Films
Wang X; Bennett TLR; Ismael I; Wilkinson LA; Hamill J; White AJP; Grace, IM; Kolosov, OV; Albrecht T; Robinson BJ*; **Long NJ***; Cohen LF*; Lambert CJ*
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214) Synthesis and *in vivo* behaviour of an exendin-4-based MRI probe capable of β-cell-dependent contrast enhancement in the pancreas
Clough T; Coakley, EJ; Rivas C; Zhao, L; Baxan N; Martinez-Sanchez A*; Rutter GA*; **Long NJ***
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213) Neuron labeling with rhodamine-conjugated Gd-based MRI contrast agents delivered to the brain via focused ultrasound
Morse SV; Boltersdorf T; Harriss BI; Chan TG; Baxan N; Jung HS; Pouloipoulos AN; Choi, JJ; **Long NJ***
THERANOSTICS, 10, 2659-2674, **2020**
https://www.thno.org/v10p2659.pdf

212) DO2A-based ligands for gallium-68 chelation: synthesis, radiochemistry and ex vivo cardiac uptake
Smith AJ; Osborne BE; Keeling GP; Blower PJ; Southworth R; **Long NJ***
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211) Reactivation of Epstein–Barr virus by a dual-responsive fluorescent EBNA1-targeting agent with Zn2+-chelating function
Jiang L; Lung HL; Huang T; Lan R; Zha S; Chan LS; Thor W; Tsoi T; Chau H; Boreström C; Cobb S; Tsao SW; Bian Z; Law G*; Wong W; Tai WC; Chau YW; Du Y; Tang LHX; Chiang AKS; Middeldorp JM; Lo K; Mak N*; **Long NJ***; Wong K*
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Boltersdorf, T; Ansari, J; Senchenkova EY; Jiang L; White, AJP; Coogan M; Gavins FNE; **Long NJ***
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Xie C; Chau HF; Zhang JX; Tong S; Jiang L; Fok WY; Lung HL; Zha S; Zou R; Jiao J; Ng CF; Ma P; Zhang J; Lin J; Shiu KK; Bunzli JCG; Wong WK; **Long NJ*;** Law GL*; Wong KL*
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McCluskey S; Haslop A; Coello C; Gunn R; Tate E; Southworth R; Plisson C; **Long NJ*;** Wells L*
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Mundil R; Wilson LE; Schaarschmidt D; Cisarova I; Merna J*; **Long NJ***
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206) Cobalt(I) triphos dinitrogen complexes: activation and silyl-functionalisation of N2
Apps SL: Miller PW*; **Long NJ***
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Hernandez-Gil J; Braga M; Harriss BI; Carroll LS; Leow CH; Tang MX; Aboagye EO*; **Long NJ***
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204) A glassware- free combinatorial synthesis of green quantum dots using bubble wrap
Mann PB; Afzal, K; **Long NJ**; Thanou M; Green M*
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203) Gold-induced desulfurization in a bis(ferrocenyl) alkane dithiol
Pensa E; Karpowicz R; Jablonski A; Trzybinski D; Wozniak K; Sakic D; Vrcek V; **Long NJ**; Albrecht TA*; Kowalski K*
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202) Rapid short-pulse ultrasound delivers drugs uniformly across the murine blood-brain barrier with negligible disruption
Morse SV; Pouliopoulos AN; Chan TG; Copping MJ; Lin JL; **Long NJ**; Choi JJ*****
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Zhang G; Lin ST; Leow GH; Pang KT; Hernandez-Gil J; **Long NJ**; Eckersley R; Matsunaga T; Tang MX*****
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Clough TJ; Jiang LJ; Wong KL*****; **Long NJ***
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199) Heteromultimetallic compounds based on polyfunctional carboxylate linkers
Jantan KA; McArdle JM; Mognon L; Fiorini V; Wilkinson LA; White AJP; **Long NJ*;** Wilton-Ely JDET*****
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198) Bicarbonate inhibition of carbonic anhydrase mimics hinders catalytic efficiency: elucidating the mechanism and gaining insight toward improving speed and efficiency
Rains JGD; O'Donnelly K; Oliver T; Woscholski R*****; **Long NJ*;** Barter LMC*****
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197) Cyanoferrocenes as redox-active metalloligands for coordination-driven self-assembly
Wilkinson LA; Massey E; Yue TTC; White AJP; **Long NJ***
DALTON TRANSACTIONS, 48, 72-78, **2019**
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196) Custom-made ceria nanoparticles show a neuroprotective effect by modulating phenotypic polarization of the microglia
Zeng F; Wu Y; Li X; Ge X; Guo Q; Lou X; Cao Z; Hu B; **Long NJ**; Mao Y*****; Li C*****
ANGEWANDTE CHEMIE INTERNATIONAL EDITION, 57*,* 5808-5812**, 2018**
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195) Multi-functional bismuth-doped bioglasses: combining bioactivity and photothermal response for bone tumor treatment and tissue repair
Wang L; **Long NJ**; Li L; Lu Y; Li M; Cao J; Zhang Y; Zhang Q; Xu S; Yang Z; Mao C; Peng M*****
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Smith A; Gawne P; Blower PJ; Ma, M; Southworth R*****; **Long NJ***
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193) Synthesis and characterisation of linear and towards cyclic diferrocenes with alkynyl spacers
Wilson L; Jian X; White AJP; **Long NJ***
INORGANICS, 6, 95-103, **2018**

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192) Synthesis and reactivity of an N-triphos Mo(0) dinitrogen complex
App SL; White AJP; Miller PW*****; **Long NJ***
DALTON TRANSACTIONS, 47*,* 11386-11396**, 2018**
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191) Manganese-52: applications in cell radiolabelling and liposomal nanomedicine PET imaging using oxine (8-hydroxyquinoline) as an ionophore
Gawne P; Man F; Fonslet J; Radia R; Bordoloi J; Cleveland M; Jimenez-Royo P; Gabizon A; Blower PJ; **Long NJ**; de Rosales RTM*****
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190) A radiolabelled Zn(II) sensing fluorescent probe
Price TW; Firth G; Eling CJ; Kinnon M; **Long NJ**; Sturge J; Stasiuk GJ*****
CHEMICAL COMMUNICATIONS, 54*,* 3227-3230**, 2018**
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Li H; Harris BI; Phinikaridou A; Lacerda S; Ramniceanu G; Doan B-T; Chan C-F; Lo W-S; Botnar RM; Lan R; Richard C*****; Law G-L*****; **Long NJ*;** Wong K-L*****
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Leber R; Wilson LE; Robaschik P; Inkpen MS; Payne DJ; **Long NJ**; Albrecht T; Hirjibehedin C*****; Heutz S*****
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186) Insulated molecular wires: inhibiting orthogonal contacts in metal complex based molecular junctions
Al-Owaedi OA; Bock S; Milan DC; Oerthel M-C; Inkpen MS; Yufit DS; Sobolev AN; **Long NJ**; Albrecht T; Higgins SJ; Bryce MR; Nichols R*****; Lambert CJ*****; Low PJ*****
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Anders DA; Bongarzone S; Fortt R; Gee AD*****; **Long NJ***
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Gallo J*****; Harriss BI; Hernandez-Gil J; Banobre-Lopez M; **Long NJ***
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182) Optically and acoustically triggerable sub-micron phase-change contrast agents for enhanced photoacoustic and ultrasound imaging.
Lin S; Shah A; Hernández-Gil J; Stanziola A; Harriss BI; Matsunaga TO; **Long N**; Bamber J; Tang M-X*****
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Phanopoulos A; White AJP; **Long NJ*;** Miller PW*****
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Duerrbeck A; Gorelik S; Hobley J; Yong AM; Subramanian SG; Hor TSA*****; **Long NJ***
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Edwards PP; Krebs B; **Long NJ**; Raithby PR*****
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165) Comparing a series of 8-quinolinolato complexes of aluminium, titanium and zinc as initiators for the ring-opening polymerization of rac-lactide

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Phanopoulos A; White AJP; **Long NJ*;** Miller PW*****
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