Nicolas P.E. Barry

List of Publications by Year
in descending order

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59 papers	3,646 citations	147801 31 h-index	133252 59 g-index
62 all docs	62 docs citations	62 times ranked	4751 citing authors

#	Article	IF	Citations
1	Exploration of the medical periodic table: towards new targets. Chemical Communications, 2013, 49, 5106.	4.1	633
2	PluronicÂ® block-copolymers in medicine: from chemical and biological versatility to rationalisation and clinical advances. Polymer Chemistry, 2014, 5, 3291-3297.	3.9	369
3	The Potent Oxidant Anticancer Activity of Organoiridium Catalysts. Angewandte Chemie - International Edition, 2014, 53, 3941-3946.	13.8	283
4	Organometallic Cages as Vehicles for Intracellular Release of Photosensitizers. Journal of the American Chemical Society, 2012, 134, 754-757.	13.7	272
5	Challenges for Metals in Medicine: How Nanotechnology May Help To Shape the Future. ACS Nano, 2013, 7, 5654-5659.	14.6	132
6	Dicarba-closo-dodecarborane-containing half-sandwich complexes of ruthenium, osmium, rhodium and iridium: biological relevance and synthetic strategies. Chemical Society Reviews, 2012, 41, 3264.	38.1	117
7	Nanoparticles of chitosan conjugated to organo-ruthenium complexes. Inorganic Chemistry Frontiers, 2016, 3, 1058-1064.	6.0	101
8	Hostâ€“Guest Chemistry in the Hexanuclear (Arene)ruthenium Metallaâ€Prismatic Cage [Ru₆(pâ€cymene)₆(tpt)₂(dhnq)₃]⁶⁺. European Journal of Inorganic Chemistry, 2009, 2009, 4695-4700.	2.0	93
9	Excellent Correlation between Drug Release and Portal Size in Metallaâ€Cage Drugâ€Delivery Systems. Chemistry - A European Journal, 2011, 17, 9669-9677.	3.3	90
10	Double Targeting of Tumours with Pyrenylâ€Modified Dendrimers Encapsulated in an Areneâ€“Ruthenium Metallaprism. Chemistry - A European Journal, 2011, 17, 1966-1971.	3.3	83
11	Anticancer activity of opened arene ruthenium metalla-assemblies. Dalton Transactions, 2010, 39, 5272.	3.3	76
12	Delivery of Floxuridine Derivatives to Cancer Cells by Water-Soluble Organometallic Cages. Bioconjugate Chemistry, 2012, 23, 461-471.	3.6	76
13	Interactions of ruthenium coordination cubes with DNA. Dalton Transactions, 2009, , 10717.	3.3	74
14	Anticancer activity of tetracationic arene ruthenium metalla-cycles. Dalton Transactions, 2011, 40, 7172.	3.3	71
15	100 years of metal coordination chemistry: from Alfred Werner to anticancer metallodrugs. Pure and Applied Chemistry, 2014, 86, 1897-1910.	1.9	66
16	Encapsulation of Pyreneâ€Functionalized Poly(benzyl ether) Dendrons into a Waterâ€Soluble Organometallic Cage. Chemistry - an Asian Journal, 2011, 6, 1595-1603.	3.3	63
17	Designing the Hostâ€Guest Properties of Tetranuclear Arene Ruthenium Metallaâ€Rectangles to Accommodate a Pyrene Molecule. European Journal of Inorganic Chemistry, 2010, 2010, 725-728.	2.0	55
18	Efficient photodynamic therapy of cancer using chemotherapeutic porphyrinâ€“ruthenium metalla-cubes. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 178-180.	2.2	54

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19	Systems biology approach for in vivo photodynamic therapy optimization of ruthenium-porphyrin compounds. Journal of Photochemistry and Photobiology B: Biology, 2012, 117, 80-89.	3.8	51
20	Oxidative Stress in Cancer Therapy: Friend or Enemy?. ChemBioChem, 2022, 23, .	2.6	49
21	Anticancer activity of osmium metalla-rectangles. Dalton Transactions, 2010, 39, 2816.	3.3	48
22	Highly Efficient NMR Enantiodiscrimination of Chiral Octanuclear Metalla-Boxes in Polar Solvent. Organometallics, 2009, 28, 4894-4897.	2.3	47
23	Designing Supramolecular Liquid-Crystalline Hybrids from Pyrenyl-Containing Dendrimers and Arene Ruthenium Metallacycles. Journal of the American Chemical Society, 2014, 136, 17616-17625.	13.7	45
24	In Vivo Selectivity and Localization of Reactive Oxygen Species (ROS) Induction by Osmium Anticancer Complexes That Circumvent Platinum Resistance. Journal of Medicinal Chemistry, 2018, 61, 9246-9255.	6.4	44
25	Synthesis and controlled growth of osmium nanoparticles by electron irradiation. Dalton Transactions, 2015, 44, 20308-20311.	3.3	43
26	Synthesis, Characterization and Anticancer Activity of Porphyrin-Containing Organometallic Cubes. Australian Journal of Chemistry, 2010, 63, 1529.	0.9	42
27	Organometallic boxes built from 5,10,15,20-tetra(4-pyridyl)porphyrin panels and hydroxyquinonato-bridged diruthenium clips. Inorganic Chemistry Communication, 2008, 11, 1300-1303.	3.9	40
28	Enhancement of Cytotoxicity by Combining Pyrenyl-Dendrimers and Arene Ruthenium Metallacages. Inorganic Chemistry, 2012, 51, 7119-7124.	4.0	39
29	Permanent Encapsulation or Host-Guest Behavior of Aromatic Molecules in Hexanuclear Arene Ruthenium Prisms. European Journal of Inorganic Chemistry, 2010, 2010, 2400-2405.	2.0	34
30	Precious metal carborane polymer nanoparticles: characterisation of micellar formulations and anticancer activity. Faraday Discussions, 2014, 175, 229-240.	3.2	33
31	Fabrication of crystals from single metal atoms. Nature Communications, 2014, 5, 3851.	12.8	31
32	Encapsulation of inorganic and organic guest molecules into an organometallic hexacationic arene osmium metalla-prism: Synthesis, characterisation and anticancer activity. Journal of Organometallic Chemistry, 2012, 705, 1-6.	1.8	29
33	Arene ruthenium dithiolatoâ€“carborane complexes for boron neutron capture therapy (BNCT). Journal of Organometallic Chemistry, 2015, 796, 17-25.	1.8	27
34	Photochemical [2+2] cycloaddition of the olefinic double bonds in the supramolecular rectangle [Ru4(Î·6-p-cymene)4(Î¼-oxalato)2(Î¼-4,4â€²-bipyridylethylene)2]4+. Inorganic Chemistry Communication, 2009, 12, 465-468.	2.9	21
35	Encapsulation of hydrophobic pyrenylÂcycloplatinate complexes within a water-soluble arene ruthenium metallaÂcage. Inorganic Chemistry Communication, 2012, 18, 25-28.	3.9	21
36	Thermochromic organometallic complexes: experimental and theoretical studies of 16- to 18-electron interconversions of adducts of arene Ru(<scp>ii</scp>) carboranes with aromatic amine ligands. Dalton Transactions, 2013, 42, 2580-2587.	3.3	19

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37	Rational design of an arene ruthenium chlorin conjugate for in vivo anticancer activity. Inorganica Chimica Acta, 2014, 414, 134-140.	2.4	15
38	Osmium Atoms and Os₂ Molecules Move Faster on Selenium-Doped Compared to Sulfur-Doped Boronic Graphenic Surfaces. Chemistry of Materials, 2015, 27, 5100-5105.	6.7	14
39	Dynamics of formation of Ru, Os, Ir and Au metal nanocrystals on doped graphitic surfaces. Chemical Communications, 2016, 52, 3895-3898.	4.1	13
40	Pseudo electron-deficient organometallics: limited reactivity towards electron-donating ligands. Dalton Transactions, 2017, 46, 15676-15683.	3.3	13
41	Controlled fabrication of osmium nanocrystals by electron, laser and microwave irradiation and characterisation by microfocus X-ray absorption spectroscopy. Chemical Communications, 2017, 53, 12898-12901.	4.1	12
42	Synthesis, Characterisation and In Vitro Anticancer Activity of Catalytically Active Indole-Based Half-Sandwich Complexes. Molecules, 2020, 25, 4540.	3.8	12
43	Anti-inflammatory activity of electron-deficient organometallics. Royal Society Open Science, 2017, 4, 170786.	2.4	11
44	Pyrene: The Guest of Honor. , 2016, , 421-461.		10
45	Effect of Temperature on the Nucleation and Growth of Precious Metal Nanocrystals. Angewandte Chemie - International Edition, 2019, 58, 18482-18486.	13.8	10
46	Preclinical Anticancer Activity of an Electronâ€Ðeficient Organoruthenium(II) Complex. ChemMedChem, 2020, 15, 982-987.	3.2	10
47	The Sound of Chemistry: Translating Infrared Wavenumbers into Musical Notes. Journal of Chemical Education, 2020, 97, 703-709.	2.3	9
48	A multinuclear1H,13C and11B solid-state MAS NMR study of 16- and 18-electron organometallic ruthenium and osmium carborane complexes. Dalton Transactions, 2014, 43, 4945-4949.	3.3	8
49	Schizophrenia: synthetic strategies and recent advances in drug design. MedChemComm, 2018, 9, 759-782.	3.4	8
50	The synthesis and unexpected solution chemistry of thermochromic carborane-containing osmium half-sandwich complexes. Dalton Transactions, 2016, 45, 1763-1768.	3.3	7
51	New Class of Hybrid Materials for Detection, Capture, and â€œOn-Demandâ€•Release of Carbon Monoxide. ACS Applied Materials & Interfaces, 2018, 10, 13693-13701.	8.0	7
52	Anticancer Activity of Electronâ€Ðeficient Metal Complexes against Colorectal Cancer inâ€…vitro Models. ChemMedChem, 2019, 14, 1887-1893.	3.2	7
53	Influence of boron doping on the dynamics of formation of Os metal nanoclusters on graphitic surfaces. Chemical Communications, 2019, 55, 6038-6041.	4.1	7
54	Indole-containing arene-ruthenium complexes with broad spectrum activity against antibiotic-resistant bacteria. Current Research in Microbial Sciences, 2022, 3, 100099.	2.3	6

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55	Ru2(CO)4(OOCR)2L2 sawhorse-type complexes containing axial 5-(4-pyridyl)-10,15,20-triphenylporphyrin ligands. Inorganica Chimica Acta, 2011, 371, 59-62.	2.4	5
56	Halide Control of N,N-Coordination versus N,C-Cyclometalation and Stereospecific Phenyl Ring Deuteration of Osmium(II) p-Cymene Phenylazobenzothiazole Complexes. Organometallics, 2017, 36, 4367-4375.	2.3	4
57	Controlled Release of Carbon Monoxide from a Pseudo Electron-Deficient Organometallic Complex. ACS Omega, 2018, 3, 15623-15627.	3.5	3
58	Effect of Temperature on the Nucleation and Growth of Precious Metal Nanocrystals. Angewandte Chemie, 2019, 131, 18653-18657.	2.0	3
59	Evaluation of the Toxicity of Two Electronâ€Deficient Halfâ€Sandwich Complexes against Human Lymphocytes from Healthy Individuals. ChemMedChem, 2021, 16, 624-629.	3.2	3