Valerie C Pierre

List of Publications by Year
in descending order

55 papers	3,507 citations	172457 29 h-index	161849 54 g-index
59 all docs	59 docs citations	59 times ranked	4682 citing authors

#	Article	IF	Citations
1	Metallo-intercalators and metallo-insertors. Chemical Communications, 2007, , 4565.	4.1	746
2	Next Generation, High Relaxivity Gadolinium MRI Agents. Bioconjugate Chemistry, 2005, 16, 3-8.	3.6	301
3	Principles of responsive lanthanide-based luminescent probes for cellular imaging. Analytical and Bioanalytical Chemistry, 2009, 394, 107-120.	3.7	242
4	Contrast agents for MRI: 30+ years and where are we going?. Journal of Biological Inorganic Chemistry, 2014, 19, 127-131.	2.6	141
5	A Highly Selective Luminescent Sensor for the Time-Gated Detection of Potassium. Journal of the American Chemical Society, 2009, 131, 434-435.	13.7	137
6	Insights into finding a mismatch through the structure of a mispaired DNA bound by a rhodium intercalator. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 429-434.	7.1	115
7	Scaling laws at the nanosize: the effect of particle size and shape on the magnetism and relaxivity of iron oxide nanoparticle contrast agents. Journal of Materials Chemistry B, 2013, 1, 2818.	5.8	112
8	A Selective Luminescent Probe for the Direct Time-Gated Detection of Adenosine Triphosphate. Journal of the American Chemical Society, 2012, 134, 16099-16102.	13.7	108
9	Surface functionalization of magnetic iron oxide nanoparticles for MRI applications â€“ effect of anchoring group and ligand exchange protocol. Contrast Media and Molecular Imaging, 2011, 6, 189-199.	0.8	104
10	Conjugation Effects of Various Linkers on Gd(III) MRI Contrast Agents with Dendrimers: Optimizing the Hydroxypyridinonate (HOPO) Ligands with Nontoxic, Degradable Esteramide (EA) Dendrimers for High Relaxivity. Journal of the American Chemical Society, 2011, 133, 2390-2393.	13.7	90
11	Dendrimeric Gadolinium Chelate with Fast Water Exchange and High Relaxivity at High Magnetic Field Strength. Journal of the American Chemical Society, 2005, 127, 504-505.	13.7	84
12	Substituent Effects on Gd(III)-Based MRI Contrast Agents:â€‰ Optimizing the Stability and Selectivity of the Complex and the Number of Coordinated Water Molecules1. Inorganic Chemistry, 2006, 45, 8355-8364.	4.0	82
13	Toward Optimized High-Relaxivity MRI Agents:â€‰ The Effect of Ligand Basicity on the Thermodynamic Stability of Hexadentate Hydroxypyridonate/Catecholate Gadolinium(III) Complexes. Inorganic Chemistry, 2003, 42, 4930-4937.	4.0	77
14	A Bulky Rhodium Complex Bound to an Adenosine-Adenosine DNA Mismatch: General Architecture of the Metalloinsertion Binding Mode. Biochemistry, 2009, 48, 4247-4253.	2.5	73
15	Fe₃O₄@organic@Au: coreâ€“shell nanocomposites with high saturation magnetisation as magnetoplasmonic MRI contrast agents. Chemical Communications, 2011, 47, 2149-2151.	4.1	69
16	Fluorinated Paramagnetic Complexes: Sensitive and Responsive Probes for Magnetic Resonance Spectroscopy and Imaging. Frontiers in Chemistry, 2018, 6, 160.	3.6	65
17	Insertion of a Bulky Rhodium Complex into a DNA Cytosineâ^'Cytosine Mismatch:â€‰ An NMR Solution Study. Journal of the American Chemical Society, 2007, 129, 12287-12295.	13.7	64
18	Sensitive and selective time-gated luminescence detection of hydroxyl radical in water. Chemical Communications, 2010, 46, 2423.	4.1	64

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19	The basis for the molecular recognition and the selective time-gated luminescence detection of ATP and GTP by a lanthanide complex. Chemical Science, 2013, 4, 4052.	7.4	64
20	Design and applications of metal-based molecular receptors and probes for inorganic phosphate. Chemical Society Reviews, 2020, 49, 1090-1108.	38.1	60
21	Tuning the Coordination Number of Hydroxypyridonate-Based Gadolinium Complexes:Â Implications for MRI Contrast Agents1. Journal of the American Chemical Society, 2006, 128, 5344-5345.	13.7	49
22	Fe- and Ln-DOTAm-F12 Are Effective Paramagnetic Fluorine Contrast Agents for MRI in Water and Blood. Inorganic Chemistry, 2017, 56, 1546-1557.	4.0	49
23	Electrodeposited Fe and Feâ€“Au nanowires as MRI contrast agents. Chemical Communications, 2016, 52, 12634-12637.	4.1	47
24	Fe(III)-Templated Gd(III) Self-AssembliesA New Route toward Macromolecular MRI Contrast Agents1. Journal of the American Chemical Society, 2006, 128, 9272-9273.	13.7	46
25	A ratiometric probe for the selective time-gated luminescence detection of potassium in water. Chemical Communications, 2011, 47, 541-543.	4.1	46
26	Comparing Strategies in the Design of Responsive Contrast Agents for Magnetic Resonance Imaging: A Case Study with Copper and Zinc. Accounts of Chemical Research, 2018, 51, 342-351.	15.6	44
27	Basis for Sensitive and Selective Time-Delayed Luminescence Detection of Hydroxyl Radical by Lanthanide Complexes. Inorganic Chemistry, 2013, 52, 9390-9398.	4.0	43
28	Eight-Coordinate, Stable Fe(II) Complex as a Dual ¹⁹F and CEST Contrast Agent for Ratiometric pH Imaging. Inorganic Chemistry, 2017, 56, 12206-12213.	4.0	41
29	Gadolinium Complex for the Catch and Release of Phosphate from Water. Environmental Science & Technology, 2017, 51, 4549-4558.	10.0	35
30	A turn-on luminescent europium probe for cyanide detection in water. Chemical Communications, 2018, 54, 9210-9213.	4.1	28
31	Toward Optimized High-Relaxivity MRI Agents:Â Thermodynamic Selectivity of Hydroxypyridonate/Catecholate Ligands1. Inorganic Chemistry, 2004, 43, 8520-8525.	4.0	27
32	Magnetoluminescent Light Switches â€“ Dual Modality in DNA Detection. Journal of the American Chemical Society, 2013, 135, 8966-8972.	13.7	25
33	A Combination of Factors: Tuning the Affinity of Europium Receptors for Phosphate in Water. Inorganic Chemistry, 2019, 58, 16087-16099.	4.0	24
34	Complete on/off responsive ParaCEST MRI contrast agents for copper and zinc. Dalton Transactions, 2018, 47, 11346-11357.	3.3	19
35	Metallointercalators-DNA Tetrahedron Supramolecular Self-Assemblies with Increased Serum Stability. ACS Nano, 2022, 16, 2928-2941.	14.6	18
36	Effect of Lanthanide Complex Structure on Cell Viability and Association. Inorganic Chemistry, 2014, 53, 6013-6021.	4.0	17

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37	The Stability of the Complex and the Basicity of the Anion Impact the Selectivity and Affinity of Tripodal Gadolinium Complexes for Anions. Inorganic Chemistry, 2019, 58, 15189-15201.	4.0	17
38	A Magnetoplasmonic Imaging Agent for Copper(I) with Dual Response by MRI and Dark Field Microscopy. ACS Nano, 2013, 7, 5842-5849.	14.6	16
39	A responsive particulate MRI contrast agent for copper(i): a cautionary tale. Dalton Transactions, 2012, 41, 8039.	3.3	15
40	The Ligand Cap Affects the Coordination Number but Not Necessarily the Affinity for Anions of Tris-Bidentate Europium Complexes. Inorganic Chemistry, 2020, 59, 4096-4108.	4.0	14
41	Magnetoluminescent Agents for Dual MRI and Time-Gated Fluorescence Imaging. European Journal of Inorganic Chemistry, 2012, 2012, 2141-2147.	2.0	11
42	Design Principles and Applications of Selective Lanthanide-Based Receptors for Inorganic Phosphate. Frontiers in Chemistry, 2022, 10, 821020.	3.6	10
43	Catechol-Based Functionalizable Ligands for Gallium-68 Positron Emission Tomography Imaging. Inorganic Chemistry, 2020, 59, 12025-12038.	4.0	9
44	Turning an Aptamer into a Light-Switch Probe with a Single Bioconjugation. Bioconjugate Chemistry, 2015, 26, 63-70.	3.6	8
45	Achieving selectivity for copper over zinc with luminescent terbium probes bearing phenanthridine antennas. Dalton Transactions, 2018, 47, 2202-2213.	3.3	7
46	A Walk Across the Lanthanide Series: Trend in Affinity for Phosphate and Stability of Lanthanide Receptors from La(III) to Lu(III). Inorganic Chemistry, 2021, 60, 15808-15817.	4.0	7
47	A General Design Strategy Enabling the Synthesis of Hydrolysiâ€Resistant, Waterâ€Stable Titanium(IV) Complexes. Angewandte Chemie - International Edition, 2022, 61, .	13.8	7
48	Phosphonate coating of commercial iron oxide nanoparticles for nanowarming cryopreserved samples. Journal of Materials Chemistry B, 2022, 10, 3734-3746.	5.8	7
49	Development of a Click-Chemistry Reagent Compatible with Mass Cytometry. Scientific Reports, 2018, 8, 6657.	3.3	5
50	Exploiting the Fluxionality of Lanthanide Complexes in the Design of Paramagnetic Fluorine Probes. Inorganic Chemistry, 2022, 61, 4130-4142.	4.0	5
51	Design and Evaluation of the Environmental Outreach Activity for Middle School Students. ACS Omega, 2020, 5, 25175-25187.	3.5	4
52	Carbonyl(Î·5-pentamethylcyclopentadienyl)(triflato-O)(triisopropylphosphine-P)ruthenium(II). Acta Crystallographica Section E: Structure Reports Online, 2002, 58, m482-m483.	0.2	2
53	Achieving Selectivity for Phosphate over Pyrophosphate in Ethanol with Iron(III)-Based Fluorescent Probes. Jacs Au, 2022, 2, 1604-1609.	7.9	2
54	A General Design Strategy Enabling the Synthesis of Hydrolysiâ€Resistant, Waterâ€Stable Titanium(IV) Complexes. Angewandte Chemie, 2022, 134, .	2.0	1

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55	Design and Evaluation of the Environmental Outreach Activity for Middle School Students. ACS Omega, 2020, 5, 25175-25187.	3.5	0