

# Valerie C Pierre

## List of Publications by Year in descending order

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55  
papers

3,507  
citations

172386

29  
h-index

161767

54  
g-index

59  
all docs

59  
docs citations

59  
times ranked

4682  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metallo-intercalators and metallo-insertors. <i>Chemical Communications</i> , 2007, , 4565.	2.2	746
2	Next Generation, High Relaxivity Gadolinium MRI Agents. <i>Bioconjugate Chemistry</i> , 2005, 16, 3-8.	1.8	301
3	Principles of responsive lanthanide-based luminescent probes for cellular imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 107-120.	1.9	242
4	Contrast agents for MRI: 30+ years and where are we going?. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 127-131.	1.1	141
5	A Highly Selective Luminescent Sensor for the Time-Gated Detection of Potassium. <i>Journal of the American Chemical Society</i> , 2009, 131, 434-435.	6.6	137
6	Insights into finding a mismatch through the structure of a mispaired DNA bound by a rhodium intercalator. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 429-434.	3.3	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. <i>Journal of Materials Chemistry B</i> , 2013, 1, 2818.	2.9	112
8	A Selective Luminescent Probe for the Direct Time-Gated Detection of Adenosine Triphosphate. <i>Journal of the American Chemical Society</i> , 2012, 134, 16099-16102.	6.6	108
9	Surface functionalization of magnetic iron oxide nanoparticles for MRI applications – effect of anchoring group and ligand exchange protocol. <i>Contrast Media and Molecular Imaging</i> , 2011, 6, 189-199.	0.4	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. <i>Journal of the American Chemical Society</i> , 2011, 133, 2390-2393.	6.6	90
11	Dendrimeric Gadolinium Chelate with Fast Water Exchange and High Relaxivity at High Magnetic Field Strength. <i>Journal of the American Chemical Society</i> , 2005, 127, 504-505.	6.6	84
12	Substituent Effects on Gd(III)-Based MRI Contrast Agents: Optimizing the Stability and Selectivity of the Complex and the Number of Coordinated Water Molecules. <i>Inorganic Chemistry</i> , 2006, 45, 8355-8364.	1.9	82
13	Toward Optimized High-Relaxivity MRI Agents: The Effect of Ligand Basicity on the Thermodynamic Stability of Hexadentate Hydroxypyridonate/Catecholate Gadolinium(III) Complexes. <i>Inorganic Chemistry</i> , 2003, 42, 4930-4937.	1.9	77
14	A Bulky Rhodium Complex Bound to an Adenosine-Adenosine DNA Mismatch: General Architecture of the Metalloinsertion Binding Mode. <i>Biochemistry</i> , 2009, 48, 4247-4253.	1.2	73
15	Fe <sub>3</sub> O <sub>4</sub> @organic@Au: core-shell nanocomposites with high saturation magnetisation as magnetoplasmonic MRI contrast agents. <i>Chemical Communications</i> , 2011, 47, 2149-2151.	2.2	69
16	Fluorinated Paramagnetic Complexes: Sensitive and Responsive Probes for Magnetic Resonance Spectroscopy and Imaging. <i>Frontiers in Chemistry</i> , 2018, 6, 160.	1.8	65
17	Insertion of a Bulky Rhodium Complex into a DNA Cytosine-Cytosine Mismatch: An NMR Solution Study. <i>Journal of the American Chemical Society</i> , 2007, 129, 12287-12295.	6.6	64
18	Sensitive and selective time-gated luminescence detection of hydroxyl radical in water. <i>Chemical Communications</i> , 2010, 46, 2423.	2.2	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. <i>Chemical Science</i> , 2013, 4, 4052.	3.7	64
20	Design and applications of metal-based molecular receptors and probes for inorganic phosphate. <i>Chemical Society Reviews</i> , 2020, 49, 1090-1108.	18.7	60
21	Tuning the Coordination Number of Hydroxypyridonate-Based Gadolinium Complexes: Implications for MRI Contrast Agents. <i>Journal of the American Chemical Society</i> , 2006, 128, 5344-5345.	6.6	49
22	Fe- and Ln-DOTAm-F12 Are Effective Paramagnetic Fluorine Contrast Agents for MRI in Water and Blood. <i>Inorganic Chemistry</i> , 2017, 56, 1546-1557.	1.9	49
23	Electrodeposited Fe and Fe-Au nanowires as MRI contrast agents. <i>Chemical Communications</i> , 2016, 52, 12634-12637.	2.2	47
24	Fe(III)-Templated Gd(III) Self-Assemblies: A New Route toward Macromolecular MRI Contrast Agents. <i>Journal of the American Chemical Society</i> , 2006, 128, 9272-9273.	6.6	46
25	A ratiometric probe for the selective time-gated luminescence detection of potassium in water. <i>Chemical Communications</i> , 2011, 47, 541-543.	2.2	46
26	Comparing Strategies in the Design of Responsive Contrast Agents for Magnetic Resonance Imaging: A Case Study with Copper and Zinc. <i>Accounts of Chemical Research</i> , 2018, 51, 342-351.	7.6	44
27	Basis for Sensitive and Selective Time-Delayed Luminescence Detection of Hydroxyl Radical by Lanthanide Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 9390-9398.	1.9	43
28	Eight-Coordinate, Stable Fe(II) Complex as a Dual <sup>19</sup> F and CEST Contrast Agent for Ratiometric pH Imaging. <i>Inorganic Chemistry</i> , 2017, 56, 12206-12213.	1.9	41
29	Gadolinium Complex for the Catch and Release of Phosphate from Water. <i>Environmental Science &amp; Technology</i> , 2017, 51, 4549-4558.	4.6	35
30	A turn-on luminescent europium probe for cyanide detection in water. <i>Chemical Communications</i> , 2018, 54, 9210-9213.	2.2	28
31	Toward Optimized High-Relaxivity MRI Agents: Thermodynamic Selectivity of Hydroxypyridonate/Catecholate Ligands. <i>Inorganic Chemistry</i> , 2004, 43, 8520-8525.	1.9	27
32	Magnetoluminescent Light Switches – Dual Modality in DNA Detection. <i>Journal of the American Chemical Society</i> , 2013, 135, 8966-8972.	6.6	25
33	A Combination of Factors: Tuning the Affinity of Europium Receptors for Phosphate in Water. <i>Inorganic Chemistry</i> , 2019, 58, 16087-16099.	1.9	24
34	Complete on/off responsive ParaCEST MRI contrast agents for copper and zinc. <i>Dalton Transactions</i> , 2018, 47, 11346-11357.	1.6	19
35	Metallointercalators-DNA Tetrahedron Supramolecular Self-Assemblies with Increased Serum Stability. <i>ACS Nano</i> , 2022, 16, 2928-2941.	7.3	18
36	Effect of Lanthanide Complex Structure on Cell Viability and Association. <i>Inorganic Chemistry</i> , 2014, 53, 6013-6021.	1.9	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. <i>Inorganic Chemistry</i> , 2019, 58, 15189-15201.	1.9	17
38	A Magnetoplasmonic Imaging Agent for Copper(I) with Dual Response by MRI and Dark Field Microscopy. <i>ACS Nano</i> , 2013, 7, 5842-5849.	7.3	16
39	A responsive particulate MRI contrast agent for copper(i): a cautionary tale. <i>Dalton Transactions</i> , 2012, 41, 8039.	1.6	15
40	The Ligand Cap Affects the Coordination Number but Not Necessarily the Affinity for Anions of Tris-Bidentate Europium Complexes. <i>Inorganic Chemistry</i> , 2020, 59, 4096-4108.	1.9	14
41	Magnetoluminescent Agents for Dual MRI and Time-Gated Fluorescence Imaging. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 2141-2147.	1.0	11
42	Design Principles and Applications of Selective Lanthanide-Based Receptors for Inorganic Phosphate. <i>Frontiers in Chemistry</i> , 2022, 10, 821020.	1.8	10
43	Catechol-Based Functionalizable Ligands for Gallium-68 Positron Emission Tomography Imaging. <i>Inorganic Chemistry</i> , 2020, 59, 12025-12038.	1.9	9
44	Turning an Aptamer into a Light-Switch Probe with a Single Bioconjugation. <i>Bioconjugate Chemistry</i> , 2015, 26, 63-70.	1.8	8
45	Achieving selectivity for copper over zinc with luminescent terbium probes bearing phenanthridine antennas. <i>Dalton Transactions</i> , 2018, 47, 2202-2213.	1.6	7
46	A Walk Across the Lanthanide Series: Trend in Affinity for Phosphate and Stability of Lanthanide Receptors from La(III) to Lu(III). <i>Inorganic Chemistry</i> , 2021, 60, 15808-15817.	1.9	7
47	A General Design Strategy Enabling the Synthesis of Hydrolysis-Resistant, Water-Stable Titanium(IV) Complexes. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	7
48	Phosphonate coating of commercial iron oxide nanoparticles for nanowarming cryopreserved samples. <i>Journal of Materials Chemistry B</i> , 2022, 10, 3734-3746.	2.9	7
49	Development of a Click-Chemistry Reagent Compatible with Mass Cytometry. <i>Scientific Reports</i> , 2018, 8, 6657.	1.6	5
50	Exploiting the Fluxionality of Lanthanide Complexes in the Design of Paramagnetic Fluorine Probes. <i>Inorganic Chemistry</i> , 2022, 61, 4130-4142.	1.9	5
51	Design and Evaluation of the Environmental Outreach Activity for Middle School Students. <i>ACS Omega</i> , 2020, 5, 25175-25187.	1.6	4
52	Carbonyl( $\eta$ -5-pentamethylcyclopentadienyl)(triflate-O)(triisopropylphosphine-P)ruthenium(II). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2002, 58, m482-m483.	0.2	2
53	Achieving Selectivity for Phosphate over Pyrophosphate in Ethanol with Iron(III)-Based Fluorescent Probes. <i>Jacs Au</i> , 2022, 2, 1604-1609.	3.6	2
54	A General Design Strategy Enabling the Synthesis of Hydrolysis-Resistant, Water-Stable Titanium(IV) Complexes. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	1

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55	Design and Evaluation of the Environmental Outreach Activity for Middle School Students. ACS Omega, 2020, 5, 25175-25187.	1.6	0