Tatjana N Parac Vogt

List of Publications by Year
in descending order

219 papers	8,083 citations	50170 46 h-index	69108 77 g-index
240 all docs	240 docs citations	240 times ranked	6388 citing authors

#	Article	IF	Citations
1	The Self-Assembly of a Predesigned Tetrahedral M4L6 Supramolecular Cluster. Angewandte Chemie - International Edition, 1998, 37, 1840-1843.	7.2	436
2	Hybrid polyoxometalates as post-functionalization platforms: from fundamentals to emerging applications. Chemical Society Reviews, 2020, 49, 382-432.	18.7	279
3	Design, Formation and Properties of Tetrahedral M4L4and M4L6Supramolecular Clusters1. Journal of the American Chemical Society, 2001, 123, 8923-8938.	6.6	263
4	Carboxyl-Functionalized Task-Specific Ionic Liquids for Solubilizing Metal Oxides. Inorganic Chemistry, 2008, 47, 9987-9999.	1.9	232
5	Selective Encapsulation of Aqueous Cationic Guests into a Supramolecular Tetrahedral [M4L6]12-Anionic Host1. Journal of the American Chemical Society, 1998, 120, 8003-8004.	6.6	190
6	Towards polymetallic lanthanide complexes as dual contrast agents for magnetic resonance and optical imaging. Chemical Society Reviews, 2014, 43, 8178-8192.	18.7	141
7	Polyoxometalates as a Novel Class of Artificial Proteases: Selective Hydrolysis of Lysozyme under Physiological pH and Temperature Promoted by a Cerium(IV) Keggināâ€Type Polyoxometalate. Chemistry - A European Journal, 2013, 19, 2848-2858.	1.7	134
8	New Selectivity and Turnover in Peptide Hydrolysis by Metal Complexes. A Palladium(II) Aqua Complex Catalyzes Cleavage of Peptides Next to the Histidine Residue. Journal of the American Chemical Society, 1996, 118, 51-58.	6.6	127
9	Rare-Earth Quinolinates:Â Infrared-Emitting Molecular Materials with a Rich Structural Chemistry. Inorganic Chemistry, 2004, 43, 8461-8469.	1.9	124
10	Superactivity of MOF-808 toward Peptide Bond Hydrolysis. Journal of the American Chemical Society, 2018, 140, 6325-6335.	6.6	120
11	Design of High Coordination Number Metallomesogens by Decoupling of the Complex-Forming and Mesogenic Groups:â€‰ Nematic and Lamello-Columnar Mesophases. Chemistry of Materials, 2005, 17, 6589-6598.	3.2	113
12	Peptide Bond Hydrolysis Catalyzed by the Wellsâ€“Dawson Zr(Î±₂-P₂W₁₇O₆₁)₂ Polyoxometalate. Inorganic Chemistry, 2012, 51, 9902-9910.	1.9	113
13	meso Myths: What Drives Assembly of Helical versusmeso-[M2L3] Clusters?. Angewandte Chemie - International Edition, 1999, 38, 2878-2882.	7.2	111
14	Site-Specific Hydrolytic Cleavage of Cytochrome c and of Its Heme Undecapeptide, Promoted by Coordination Complexes of Palladium(II). Journal of the American Chemical Society, 1994, 116, 5218-5224.	6.6	109
15	Direct Observation of Molecularâ€Level Template Action Leading to Selfâ€Assembly of a Porous Framework. Chemistry - A European Journal, 2010, 16, 3926-3932.	1.7	106
16	Dynamic Isomerization of a Supramolecular Tetrahedral M4L6Cluster1. Journal of the American Chemical Society, 1999, 121, 4200-4206.	6.6	102
17	Temperature-Driven Mixing-Demixing Behavior of Binary Mixtures of the Ionic Liquid Choline Bis(trifluoromethylsulfonyl)imide and Water. Journal of Physical Chemistry B, 2009, 113, 1429-1437.	1.2	102
18	Effects of Linkage Isomerism and of Acidâ^'Base Equilibria on Reactivity and Catalytic Turnover in Hydrolytic Cleavage of Histidyl Peptides Coordinated to Palladium(II). Identification of the Active Complex between Palladium(II) and the Histidyl Residue. Journal of the American Chemical Society, 1996, 118, 5946-5951.	6.6	96

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19	Highly Amino Acid Selective Hydrolysis of Myoglobin at Aspartate Residues as Promoted by Zirconium(IV)â€Substituted Polyoxometalates. Angewandte Chemie - International Edition, 2015, 54, 7391-7394.	7.2	94
20	Regioselective Hydrolysis of Human Serum Albumin by Zr^{IV}â€Substituted Polyoxotungstates at the Interface of Positively Charged Protein Surface Patches and Negatively Charged Amino Acid Residues. Chemistry - A European Journal, 2014, 20, 3894-3897.	1.7	92
21	Speciation of Rareâ€Earth Metal Complexes in Ionic Liquids: A Multipleâ€Technique Approach. Chemistry - A European Journal, 2009, 15, 1449-1461.	1.7	91
22	Hydrolytic Cleavage of an RNA-Model Phosphodiester Catalyzed by a Highly Negatively Charged Polyoxomolybdate [Mo₇O₂₄]^{6â^'}Cluster. Journal of the American Chemical Society, 2008, 130, 17400-17408.	6.6	87
23	New Regioselectivity in the Cleavage of Histidine-Containing Peptides by Palladium(II) Complexes Studied by Kinetic Experiments and Molecular Dynamics Simulations. Journal of the American Chemical Society, 1999, 121, 3127-3135.	6.6	77
24	Host within a Host: Encapsulation of Alkali Ionâ€‰â€“â€‰Crown Ether Complexes into a [Ga4L6]12 Supramolecular Cluster. Angewandte Chemie - International Edition, 2000, 39, 1239-1242.	7.2	75
25	Molecular interactions between serum albumin proteins and Keggin type polyoxometalates studied using luminescence spectroscopy. Physical Chemistry Chemical Physics, 2013, 15, 18378.	1.3	75
26	Amide bond hydrolysis in peptides and cyclic peptides catalyzed by a dimeric Zr(iv)-substituted Keggin type polyoxometalate. Dalton Transactions, 2013, 42, 10929.	1.6	70
27	Simultaneous three-dimensional visualization of mineralized and soft skeletal tissues by a novel microCT contrast agent with polyoxometalate structure. Biomaterials, 2018, 159, 1-12.	5.7	70
28	Potential MRI Contrast Agents Based on Micellar Incorporation of Amphiphilic Bis(alkylamide) Derivatives of [(Gdâ^'DTPA)(H2O)]2â^'. European Journal of Inorganic Chemistry, 2003, 2003, 3021-3027.	1.0	67
29	Dependence of hydrolytic cleavage of histidine-containing peptides by palladium(II) aqua complexes on the co-ordination modes of the peptides. Journal of the Chemical Society Dalton Transactions, 1997, , 2771-2776.	1.1	66
30	Hydrolytic cleavage of DNA-model substrates promoted by polyoxovanadates. Dalton Transactions, 2010, 39, 585-592.	1.6	64
31	Gadolinium DTPA-Monoamide Complexes Incorporated into Mixed Micelles as Possible MRI Contrast Agents. European Journal of Inorganic Chemistry, 2004, 2004, 3538-3543.	1.0	59
32	Cobalt(II) Complexes of Nitrileâ€Functionalized Ionic Liquids. Chemistry - A European Journal, 2010, 16, 1849-1858.	1.7	59
33	Questioning the paradigm of metal complex promoted phosphodiester hydrolysis: [Mo₇O₂₄]^{6â^'}polyoxometalate cluster as an unlikely catalyst for the hydrolysis of a DNA model substrate. Chemical Communications, 2008, , 85-87.	2.2	58
34	Nitrile-Functionalized Pyridinium, Pyrrolidinium, and Piperidinium Ionic Liquids. Journal of Physical Chemistry B, 2011, 115, 8424-8438.	1.2	58
35	Interactions between polyoxometalates and biological systems: from drug design to artificial enzymes. Current Opinion in Biotechnology, 2019, 58, 92-99.	3.3	58
36	Hydrolysis of DNA model substrates catalyzed by metal-substituted Wellsâ€“Dawson polyoxometalates. Dalton Transactions, 2012, 41, 10028.	1.6	56

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37	Phosphoesterase activity of polyoxomolybdates: diffusion ordered NMR spectroscopy as a tool for obtaining insights into the reactivity of polyoxometalate clusters. Chemical Communications, 2008, , 2774.	2.2	53
38	Molecular Origin of the Hydrolytic Activity and Fixed Regioselectivity of a Zr^{IV}â€Substituted Polyoxotungstate as Artificial Protease. Chemistry - A European Journal, 2014, 20, 9567-9577.	1.7	53
39	Lanthanide(III) nosylates as new nitration catalysts. Tetrahedron Letters, 2004, 45, 3137-3139.	0.7	52
40	Structural characterization and reactivity of Î³-octamolybdate functionalized by proline. Journal of Inorganic Biochemistry, 2008, 102, 1589-1598.	1.5	51
41	Selective hydrolysis of oxidized insulin chain B by a Zr(<scp>iv</scp>)-substituted Wellsâ€“Dawson polyoxometalate. Dalton Transactions, 2015, 44, 1539-1548.	1.6	51
42	Monodispersed MOF-808 Nanocrystals Synthesized via a Scalable Room-Temperature Approach for Efficient Heterogeneous Peptide Bond Hydrolysis. Chemistry of Materials, 2021, 33, 7057-7066.	3.2	51
43	Probing Polyoxometalateâ€“Protein Interactions Using Molecular Dynamics Simulations. Chemistry - A European Journal, 2016, 22, 15280-15289.	1.7	50
44	Structural Characterization of the Complex between Hen Eggâ€White Lysozyme and Zr^{IV}â€Substituted Keggin Polyoxometalate as Artificial Protease. Chemistry - A European Journal, 2015, 21, 11692-11695.	1.7	49
45	Keggin Structure, QuÅ•VÄdis?. Frontiers in Chemistry, 2018, 6, 346.	1.8	49
46	Water-Tolerant and Atom Economical Amide Bond Formation by Metal-Substituted Polyoxometalate Catalysts. ACS Catalysis, 2019, 9, 10245-10252.	5.5	49
47	A Heterobimetallic Rutheniumâ€“Gadolinium Complex as a Potential Agent for Bimodal Imaging. Inorganic Chemistry, 2011, 50, 10005-10014.	1.9	48
48	The Dawn of Metal-Oxo Clusters as Artificial Proteases: From Discovery to the Present and Beyond. Accounts of Chemical Research, 2021, 54, 1673-1684.	7.6	48
49	Synthesis, Characterization, and Pharmacokinetic Evaluation of a Potential MRI Contrast Agent Containing Two Paramagnetic Centers with Albumin Binding Affinity. Chemistry - A European Journal, 2005, 11, 3077-3086.	1.7	47
50	Amino acid side chain induced selectivity in the hydrolysis of peptides catalyzed by a Zr(iv)-substituted Wellsâ€“Dawson type polyoxometalate. Dalton Transactions, 2013, 42, 15437.	1.6	47
51	Multinuclear Diffusion NMR Spectroscopy and DFT Modeling: A Powerful Combination for Unraveling the Mechanism of Phosphoester Bond Hydrolysis Catalyzed by Metalâ€Substituted Polyoxometalates. Chemistry - A European Journal, 2015, 21, 4428-4439.	1.7	47
52	High-resolution contrast-enhanced microCT reveals the true three-dimensional morphology of the murine placenta. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13927-13936.	3.3	47
53	Ln₁₂â€Containing 60â€Tungstogermanates: Synthesis, Structure, Luminescence, and Magnetic Studies. Chemistry - A European Journal, 2015, 21, 18168-18176.	1.7	46
54	Polyoxomolybdate Promoted Hydrolysis of a DNA-Model Phosphoester Studied by NMR and EXAFS Spectroscopy. Inorganic Chemistry, 2011, 50, 11552-11560.	1.9	45

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55	Proteinâ€Assisted Formation and Stabilization of Catalytically Active Polyoxometalate Species. Chemistry - A European Journal, 2018, 24, 10099-10108.	1.7	45
56	Regioselective Cleavage by a Palladium(II) Aqua Complex of a Polypeptide in Different Overall Conformations. Inorganic Chemistry, 1998, 37, 2141-2144.	1.9	43
57	Nanozymatic Activity of UiO-66 Metalâ€“Organic Frameworks: Tuning the Nanopore Environment Enhances Hydrolytic Activity toward Peptide Bonds. ACS Applied Nano Materials, 2020, 3, 8931-8938.	2.4	42
58	Hydrolysis of Serine-Containing Peptides at Neutral pH Promoted by [MoO₄]^{2â€“}Oxyanion. Inorganic Chemistry, 2011, 50, 12025-12033.	1.9	41
59	Hydrolysis of Dipeptides Catalyzed by a Zirconium(IV)â€Substituted Lindqvist Type Polyoxometalate. European Journal of Inorganic Chemistry, 2013, 2013, 4601-4611.	1.0	41
60	Dinuclear Lanthanide Schiff-Base Complexes Forming a Rectangular Columnar Mesophase. European Journal of Inorganic Chemistry, 2006, 2006, 150-157.	1.0	40
61	Tetranuclear d-f Metallostars: Synthesis, Relaxometric, and Luminescent Properties. Inorganic Chemistry, 2012, 51, 8775-8783.	1.9	40
62	The forgotten chemistry of group(IV) metals: A survey on the synthesis, structure, and properties of discrete Zr(IV), Hf(IV), and Ti(IV) oxo clusters. Coordination Chemistry Reviews, 2021, 438, 213886.	9.5	40
63	Pharmacokinetic andin vivo evaluation of a self-assembled gadolinium(III)-iron(II) contrast agent with high relaxivity. Contrast Media and Molecular Imaging, 2006, 1, 267-278.	0.4	39
64	A Selfâ€Assembled Complex with a Titanium(IV) Catecholate Core as a Potential Bimodal Contrast Agent. Chemistry - A European Journal, 2012, 18, 293-302.	1.7	39
65	Tuning the Selectivity and Reactivity of Metalâ€Substituted Polyoxometalates as Artificial Proteases by Varying the Nature of the Embedded Lewis Acid Metal Ion. European Journal of Inorganic Chemistry, 2016, 2016, 5098-5105.	1.0	39
66	Relaxometric Study of Copper [15]Metallacrown-5 Gadolinium Complexes Derived from Î±-Aminohydroxamic Acids. Chemistry - A European Journal, 2006, 12, 204-210.	1.7	38
67	A Tripodal Rutheniumâ€“Gadolinium Metallostar as a Potential Î±vÎ²3Integrin Specific Bimodal Imaging Contrast Agent. Inorganic Chemistry, 2012, 51, 6405-6411.	1.9	38
68	Interplay between structural parameters and reactivity of Zr₆-based MOFs as artificial proteases. Chemical Science, 2020, 11, 6662-6669.	3.7	38
69	When structural and electronic analogy leads to reactivity: the unprecedented phosphodiesterase activity of vanadates. Chemical Communications, 2009, , 965-967.	2.2	37
70	Synthesis and characterization of dinuclear heterometallic lanthanide complexes exhibiting MRI and luminescence response. Dalton Transactions, 2010, 39, 5721.	1.6	36
71	NMR Solution Structure and Dynamics of the Peptidyl-prolyl cisâ€“trans Isomerase Domain of the Trigger Factor from Mycoplasma genitalium Compared to FK506-binding Protein. Journal of Molecular Biology, 2002, 318, 1097-1115.	2.0	35
72	Polyoxometalates as artificial nucleases: hydrolytic cleavage of DNA promoted by a highly negatively charged Zr^{IV}-substituted Keggin polyanion. Chemical Communications, 2017, 53, 617-620.	2.2	34

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73	Spectroscopic Study of the Interaction between Horse Heart Myoglobin and Zirconium(IV)â€Substituted Polyoxometalates as Artificial Proteases. ChemPhysChem, 2017, 18, 2451-2458.	1.0	34
74	Hydrolytic Activity of Vanadate toward Serine-Containing Peptides Studied by Kinetic Experiments and DFT Theory. Inorganic Chemistry, 2012, 51, 8848-8859.	1.9	33
75	Thermodynamic study of the interaction between hen egg white lysozyme and Ce(<scp>iv</scp>)-Keggin polyoxotungstate as artificial protease. Physical Chemistry Chemical Physics, 2014, 16, 21778-21787.	1.3	33
76	Liquid-crystalline azines formed by the rare-earth promoted decomposition of hydrazide â€œhabbeâ€• ligands: structural and thermal properties. Journal of Materials Chemistry, 2003, 13, 1639-1645.	6.7	32
77	Synthesis and Characterization of Holmium-Doped Iron Oxide Nanoparticles. Materials, 2014, 7, 1155-1164.	1.3	32
78	Reactivity of Dimeric Tetrazirconium(IV) Wellsâ€“Dawson Polyoxometalate toward Dipeptide Hydrolysis Studied by a Combined Experimental and Density Functional Theory Approach. Inorganic Chemistry, 2015, 54, 11477-11492.	1.9	32
79	A zirconium metal-organic framework with SOC topological net for catalytic peptide bond hydrolysis. Nature Communications, 2022, 13, 1284.	5.8	32
80	Discrete Hf₁₈ Metalâ€oxo Cluster as a Heterogeneous Nanozyme for Siteâ€Specific Proteolysis. Angewandte Chemie - International Edition, 2020, 59, 9094-9101.	7.2	31
81	En Route to a Heterogeneous Catalytic Direct Peptide Bond Formation by Zr-Based Metalâ€“Organic Framework Catalysts. ACS Catalysis, 2021, 11, 7647-7658.	5.5	31
82	Paramagnetic liposomes containing amphiphilic bisamide derivatives of Gd-DTPA with aromatic side chain groups as possible contrast agents for magnetic resonance imaging. European Biophysics Journal, 2006, 35, 136-144.	1.2	30
83	A new metallostar complex based on an aluminum(iii) 8-hydroxyquinoline core as a potential bimodal contrast agent. Dalton Transactions, 2012, 41, 10549.	1.6	30
84	Micellar self-assemblies of gadolinium(iii)/europium(iii) amphiphilic complexes as model contrast agents for bimodal imaging. Dalton Transactions, 2014, 43, 3589.	1.6	30
85	Interaction Study and Reactivity of Zr^{IV}â€Substituted Wellsâ€“Dawson Polyoxometalate towards Hydrolysis of Peptide Bonds in Surfactant Solutions. Chemistry - A European Journal, 2016, 22, 3775-3784.	1.7	30
86	Molecular Insight from DFT Computations and Kinetic Measurements into the Steric Factors Influencing Peptide Bond Hydrolysis Catalyzed by a Dimeric Zr(IV)-Substituted Keggin Type Polyoxometalate. Inorganic Chemistry, 2016, 55, 9316-9328.	1.9	30
87	Lanthanide(III)-Induced Conversion of 12-Metallacrown-4 to 5-Metallacrown-5 Complexes in Solution. European Journal of Inorganic Chemistry, 2005, 2005, 3303-3310.	1.0	29
88	A versatile and highly efficient post-functionalization method for grafting organic molecules onto Anderson-type polyoxometalates. Dalton Transactions, 2015, 44, 19059-19062.	1.6	29
89	Lanthanide(III) Complexes of Diethylenetriaminepentaacetic Acid (DTPA)â€“Bisamide Derivatives as Potential Agents for Bimodal (Optical/Magnetic Resonance) Imaging. European Journal of Inorganic Chemistry, 2013, 2013, 2629-2639.	1.0	28
90	Ceric ammonium nitrate (CAN) as oxidizing or nitrating reagent for organic reactions in ionic liquids. Tetrahedron Letters, 2009, 50, 4582-4586.	0.7	27

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91	Investigating Polyoxometalateâ€“Protein Interactions at Chemically Distinct Binding Sites. Journal of Physical Chemistry B, 2018, 122, 7219-7232.	1.2	27
92	Hydrolysis of carboxyesters promoted by vanadium(<scp>v</scp>) oxyanions. Dalton Transactions, 2011, 40, 295-300.	1.6	26
93	Solution Speciation of the Dinuclear Zr^{IV}â€Substituted Keggin Polyoxometalate [{Î±â€PW₁₁O₃₉Zr(Î¼â€OH)(H₂O)}₂]^{8â€“} and Its Reactivity towards DNAâ€Model Phosphodiester Hydrolysis. European Journal of Inorganic Chemistry, 2014, 2014, 5276-5284.	1.0	25
94	Eu(III) luminescence and tryptophan fluorescence spectroscopy as a tool for understanding interactions between hen egg white lysozyme and metal-substituted Keggin type polyoxometalates. Journal of Inorganic Biochemistry, 2015, 150, 72-80.	1.5	25
95	Exploring polyoxometalates as non-destructive staining agents for contrast-enhanced microfocus computed tomography of biological tissues. Acta Biomaterialia, 2020, 105, 253-262.	4.1	25
96	Bimetallic Ce/Zr UiO-66 Metalâ€“Organic Framework Nanostructures as Peptidase and Oxidase Nanozymes. ACS Applied Nano Materials, 2021, 4, 5748-5757.	2.4	25
97	Comparative Study of the Reactivity of Zirconium(IV)â€Substituted Polyoxometalates towards the Hydrolysis of Oligopeptides. European Journal of Inorganic Chemistry, 2015, 2015, 2206-2215.	1.0	24
98	Detailed Mechanism of Phosphoanhydride Bond Hydrolysis Promoted by a Binuclear Zr^{IV}-Substituted Keggin Polyoxometalate Elucidated by a Combination of ³¹P, ³¹P DOSY, and ³¹P EXSY NMR Spectroscopy. Inorganic Chemistry, 2016, 55, 4864-4873.	1.9	24
99	Selectivity and Reactivity of ZrIV and CeIV Substituted Keggin Type Polyoxometalates Toward Cytochrome c in Surfactant Solutions. Frontiers in Chemistry, 2018, 6, 372.	1.8	24
100	Chemical Mimics of Aspartateâ€Directed Proteases: Predictive and Strictly Specific Hydrolysis of a Globular Protein at Aspâ^'X Sequence Promoted by Polyoxometalate Complexes Rationalized by a Combined Experimental and Theoretical Approach. Chemistry - A European Journal, 2019, 25, 14370-14381.	1.7	24
101	Adducts of Schiff Bases with Tris(Î²-diketonato)lanthanide(III) Complexes: Structure and Liquid-Crystalline Behaviour. European Journal of Inorganic Chemistry, 2003, 2003, 3028-3033.	1.0	23
102	Bis(phenylethylamide) Derivatives of Gd-DTPA as Potential Receptor-Specific MRI Contrast Agents. European Journal of Inorganic Chemistry, 2007, 2007, 2061-2067.	1.0	23
103	Phosphate Ester Bond Hydrolysis Promoted by Lanthanide-Substituted Keggin-type Polyoxometalates Studied by a Combined Experimental and Density Functional Theory Approach. Inorganic Chemistry, 2016, 55, 9898-9911.	1.9	23
104	Highly Selective and Tunable Protein Hydrolysis by a Polyoxometalate Complex in Surfactant Solutions: A Step toward the Development of Artificial Metalloproteases for Membrane Proteins. ACS Omega, 2017, 2, 2026-2033.	1.6	23
105	A Magnetic Chameleon: Biocompatible Lanthanide Fluoride Nanoparticles with Magnetic Field Dependent Tunable Contrast Properties as a Versatile Contrast Agent for Low to Ultrahigh Field MRI and Optical Imaging in Biological Window. Chemistry - A European Journal, 2018, 24, 7388-7397.	1.7	23
106	Lanthanide(III) Tosylates as New Acylation Catalysts. European Journal of Organic Chemistry, 2005, 2005, 1810-1815.	1.2	22
107	Mandelohydroxamic Acid as Ligand for Copper(II) 15-Metallacrown-5 Lanthanide(III) and Copper(II) 15-Metallacrown-5 Uranyl Complexes. European Journal of Inorganic Chemistry, 2006, 2006, 1466-1474.	1.0	22
108	Trinuclear rare earth metal complexes based on 1,3,5-triamino-1,3,5-trideoxy-cis inositol as catalysts for the hydrolysis of phosphodiesters. Dalton Transactions, 2011, 40, 1230.	1.6	22

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109	Dysprosium Complexes and Their Micelles as Potential Bimodal Agents for Magnetic Resonance and Optical Imaging. Chemistry - A European Journal, 2013, 19, 16019-16028.	1.7	22
110	Controlled Synthesis of a Novel Heteropolymetallic Complex with Selectively Incorporated Lanthanide(III) Ions. Inorganic Chemistry, 2014, 53, 1257-1259.	1.9	22
111	Understanding the Regioselective Hydrolysis of Human Serum Albumin by Zr(IV)-Substituted Polyoxotungstates Using Tryptophan Fluorescence Spectroscopy. Inorganics, 2015, 3, 230-245.	1.2	22
112	Hydrolysis of the RNA model substrate catalyzed by a binuclear Zr^{IV}-substituted Keggin polyoxometalate. Dalton Transactions, 2015, 44, 15690-15696.	1.6	22
113	Mechanism of the highly effective peptide bond hydrolysis by MOF-808 catalyst under biologically relevant conditions. Physical Chemistry Chemical Physics, 2020, 22, 25136-25145.	1.3	22
114	Lanthanide(III) complexes of aromatic sulfonic acids as catalysts for the nitration of toluene. Journal of Alloys and Compounds, 2004, 374, 46-49.	2.8	21
115	Pentacopper(II) complexes of Î±-aminohydroxamic acids: uranyl-induced conversion of a 12-metallacrown-4 to a 15-metallacrown-5. Journal of Inorganic Biochemistry, 2005, 99, 497-504.	1.5	21
116	Gallium(III)-Containing, Sandwich-Type Heteropolytungstates: Synthesis, Solution Characterization, and Hydrolytic Studies toward Phosphoester and Phosphoanhydride Bond Cleavage. Inorganic Chemistry, 2016, 55, 9204-9211.	1.9	21
117	Ovariectomy increases RANKL protein expression in bone marrow adipocytes of C3H/HeJ mice. American Journal of Physiology - Endocrinology and Metabolism, 2019, 317, E1050-E1054.	1.8	21
118	Magnetofluorescent micellar complexes of terbium(<scp>iii</scp>) as potential bimodal contrast agents for magnetic resonance and optical imaging. Chemical Communications, 2015, 51, 2984-2986.	2.2	20
119	Kinetic studies of phosphoester hydrolysis promoted by a dimeric tetrazirconium(<scp>iv</scp>) Wellsâ€“Dawson polyoxometalate. Dalton Transactions, 2016, 45, 12174-12180.	1.6	20
120	Multifunctional Î²-NaGdF₄:Ln³⁺ (Ln = Yb, Er, Dy) nanoparticles with NIR to visible upconversion and high transverse relaxivity: a potential bimodal contrast agent for high-field MRI and optical imaging. RSC Advances, 2016, 6, 61443-61448.	1.7	20
121	Editorial: Polyoxometalates in Catalysis, Biology, Energy and Materials Science. Frontiers in Chemistry, 2019, 7, 646.	1.8	20
122	Hybrid assemblies of a symmetric designer protein and polyoxometalates with matching symmetry. Chemical Communications, 2020, 56, 11601-11604.	2.2	20
123	A new acetylcholinesterase allosteric site responsible for binding voluminous negatively charged molecules â€“ the role in the mechanism of AChE inhibition. European Journal of Pharmaceutical Sciences, 2020, 151, 105376.	1.9	20
124	A Modular Approach towards the Synthesis of Targetâ€Specific MRI Contrast Agents. European Journal of Inorganic Chemistry, 2011, 2011, 3577-3585.	1.0	19
125	Assembly of near infra-red emitting upconverting nanoparticles and multiple Gd(iii)-chelates as a potential bimodal contrast agent for MRI and optical imaging. Dalton Transactions, 2015, 44, 11331-11339.	1.6	19
126	Influence of the amino acid side chain on peptide bond hydrolysis catalyzed by a dimeric Zr(<scp>iv</scp>)-substituted Keggin type polyoxometalate. New Journal of Chemistry, 2016, 40, 976-984.	1.4	19

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127	A Simple Nucleophilic Substitution as a Versatile Postfunctionalization Method for the Coupling of Nucleophiles to an Anderson-Type Polyoxometalate. Inorganic Chemistry, 2017, 56, 3095-3101.	1.9	19
128	Selective Hydrolysis of Ovalbumin Promoted by Hf(IV)-Substituted Wells-Dawson-Type Polyoxometalate. Frontiers in Chemistry, 2018, 6, 614.	1.8	19
129	Redox Activity of Ce(IV)-Substituted Polyoxometalates toward Amino Acids and Peptides. Inorganic Chemistry, 2020, 59, 10569-10577.	1.9	19
130	Homogeneous Metal Catalysts with Inorganic Ligands: Probing Ligand Effects in Lewis Acid Catalyzed Direct Amide Bond Formation. ACS Catalysis, 2021, 11, 271-277.	5.5	19
131	Nature of equilibrium shifts in racemic praseodymium(iii) tris(2,2â€²-oxydiacetate) induced by interaction with chiral probes. Dalton Transactions RSC, 2002, , 1602-1606.	2.3	18
132	Noncovalent Complexes Formed between Metalâ€Substituted Polyoxometalates and Hen Egg White Lysozyme. European Journal of Inorganic Chemistry, 2019, 2019, 506-511.	1.0	18
133	Mesomorphism of lanthanide-containing Schiff's base complexes with chloride counterions. Liquid Crystals, 2002, 29, 1209-1216.	0.9	17
134	Temperature swing adsorption of NOx over Keggin type heteropolyacids. Energy and Environmental Science, 2010, 3, 910.	15.6	17
135	A Mechanistic Study of the Spontaneous Hydrolysis of Glycylserine as the Simplest Model for Protein Selfâ€Cleavage. Chemistry - A European Journal, 2014, 20, 456-466.	1.7	17
136	Ultrasmall Superparamagnetic Iron Oxide Nanoparticles with Europium(III) DO3A as a Bimodal Imaging Probe. Chemistry - A European Journal, 2016, 22, 4521-4527.	1.7	17
137	Direct observation of the Zr^{IV} interaction with the carboxamide bond in a noncovalent complex between Hen Egg White Lysozyme and a Zr-substituted Keggin polyoxometalate. Acta Crystallographica Section C, Structural Chemistry, 2018, 74, 1348-1354.	0.2	17
138	Hydrolysis of chemically distinct sites of human serum albumin by polyoxometalate: A hybrid QM/MM (ONIOM) study. Journal of Computational Chemistry, 2019, 40, 51-61.	1.5	17
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