

Zhao-Hui Zhou

List of Publications by Year in descending order

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108
papers

1,681
citations

279798

23
h-index

377865

34
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108
all docs

108
docs citations

108
times ranked

1551
citing authors

#	ARTICLE	IF	CITATIONS
1	Consistent approaches to van der Waals radii for the metallic elements. <i>Zeitschrift für Kristallographie</i> , 2009, 224, 375-383.	1.1	96
2	Syntheses and Spectroscopic and Structural Characterization of Molybdenum(VI) Citrate Monomeric Raceme and Dimer, $K_4[MoO_3(cit)] \cdot 2H_2O$ and $K_4[(MoO_2)_2O(Hcit)_2] \cdot 4H_2O$. <i>Inorganic Chemistry</i> , 2000, 39, 59-64.	4.0	69
3	Enzymatic and catalytic reduction of dinitrogen to ammonia: Density functional theory characterization of alternative molybdenum active sites. <i>International Journal of Quantum Chemistry</i> , 2005, 103, 344-353.	2.0	61
4	Syntheses and structures of the potassium-ammonium dioxycitratovanadate (V) and sodium oxocitrate vanadate (IV) dimers. <i>Inorganica Chimica Acta</i> , 1995, 237, 193-197.	2.4	56
5	Molybdenum(VI) complex with citric acid: synthesis and structural characterization of 1:1 ratio citrate molybdate $K_2Na_4[(MoO_2)_2(cit)_2] \cdot 5H_2O$. <i>Polyhedron</i> , 1997, 16, 75-79.	2.2	46
6	SYNTHESES, STRUCTURES AND SPECTROSCOPIC PROPERTIES OF NICKEL(II) CITRATE COMPLEXES, $(NH_4)_2[Ni(Hcit)(H_2O)_2] \cdot 2H_2O$ AND $(NH_4)_4[Ni(Hcit)_2] \cdot 2H_2O$. <i>Journal of Coordination Chemistry</i> , 1997, 42, 131-141.	2.2	40
7	Dimeric Dioxomolybdenum(VI) and Oxomolybdenum(V) Complexes with Citrate at Very Low pH and Neutral Conditions. <i>Inorganic Chemistry</i> , 2005, 44, 6912-6914.	4.0	40
8	Highly Enantioselective Henry Reactions of Aromatic Aldehydes Catalyzed by an Amino Alcohol-Copper(II) Complex. <i>Chemistry - A European Journal</i> , 2012, 18, 10515-10518.	3.3	40
9	Syntheses, crystal structures and biological relevance of glycolato and S-lactato molybdates. <i>Journal of Inorganic Biochemistry</i> , 2004, 98, 1037-1044.	3.5	39
10	Enantioselective Henry Reactions of Aliphatic Aldehydes and Application to the Synthesis of Safingol. <i>Chemistry - A European Journal</i> , 2013, 19, 16541-16544.	3.3	38
11	Synthesis, <i>in vitro</i> cytotoxicity, and structure-activity relationships (SAR) of multidentate oxido vanadium(V) complexes as anticancer agents. <i>Dalton Transactions</i> , 2018, 47, 10035-10045.	3.3	38
12	Metal-hydroxycarboxylate interactions: syntheses and structures of $K_2[VO_2(C_6H_6O_7)]_2 \cdot 4H_2O$ and $(NH_4)_2[VO_2(C_6H_6O_7)]_2 \cdot 2H_2O$. <i>Journal of Chemical Crystallography</i> , 1995, 25, 807-811.	1.1	36
13	A comparative study of crystallographic van der Waals radii. <i>Zeitschrift für Kristallographie - Crystalline Materials</i> , 2014, 229, 517-523.	0.8	35
14	Formations of Mixed-Valence Oxovanadium(V,IV) Citrates and Homocitrate with N-Heterocycle Chelated Ligand. <i>Inorganic Chemistry</i> , 2008, 47, 8714-8720.	4.0	33
15	Peroxomolybdate(VI)-citrate and -malate complex interconversions by pH-dependence. Synthetic, structural and spectroscopic studies. <i>Dalton Transactions</i> , 2004, , 1393-1399.	3.3	32
16	Syntheses, Spectroscopies and Structures of Molybdenum(VI) Complexes with Homocitrate. <i>Inorganic Chemistry</i> , 2006, 45, 8447-8451.	4.0	31
17	μ -Hydroxy coordination of mononuclear vanadyl citrate, malate and S-citramalate with N-heterocycle ligand, implying a new protonation pathway of iron-vanadium cofactor in nitrogenase. <i>Journal of Inorganic Biochemistry</i> , 2014, 141, 114-120.	3.5	31
18	Bidentate citrate with free terminal carboxyl groups, syntheses and characterization of citrate oxomolybdate(VI) and oxotungstate(VI), β - $Na_2[MO_2(H_2cit)_2] \cdot 3H_2O$ (M = Mo or W). <i>Journal of the Chemical Society Dalton Transactions</i> , 1999, , 4289-4290.	1.1	30

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19	The first structural examples of tricitratotitanate [Ti(H ₂ cit) ₃] ²⁻ dianions Electronic supplementary information (ESI) available: ¹³ C NMR spectra, thermogravimetric analysis and powder X-ray diagram. See http://www.rsc.org/suppdata/dt/b3/b304358d/ . Dalton Transactions, 2003, , 2636.	3.3	29
20	Title is missing!. Transition Metal Chemistry, 1999, 24, 605-609.	1.4	28
21	Synthesis and characterization of homochiral polymeric S-malato molybdate(VI): toward the potentially stereospecific formation and absolute configuration of iron-molybdenum cofactor in nitrogenase. Journal of Inorganic Biochemistry, 2002, 90, 137-143.	3.5	25
22	Sinter-resistant Rh nanoparticles supported on $\hat{1}^3$ -Al ₂ O ₃ nanosheets as an efficient catalyst for dry reforming of methane. Nanoscale, 2020, 12, 20922-20932.	5.6	25
23	Ammonium barium citrato peroxotitanate(IV) Ba ₂ (NH ₄) ₂ [Ti ₄ (O ₂) ₄ (Hcit) ₂ (cit) ₂] \hat{A} ·10H ₂ O: a molecular precursor of stoichiometric BaTi ₂ O ₅ . Inorganic Chemistry Communication, 2004, 7, 169-172.	3.9	24
24	An asymmetric binuclear zinc(<i>ii</i>) complex with mixed iminodiacetate and phenanthroline ligands: synthesis, characterization, structural conversion and anticancer properties. Inorganic Chemistry Frontiers, 2016, 3, 959-968.	6.0	24
25	Synthesis, spectral, and structural characterizations of imidazole oxalato molybdenum(<i>iv</i> / <i>v</i> / <i>vi</i>) complexes. Dalton Transactions, 2013, 42, 1627-1636.	3.3	23
26	Synthesis and crystal structure of a zinc citrate complex [Zn(H ₂ cit)(H ₂ O)] _n . Journal of Coordination Chemistry, 2009, 62, 1484-1491.	2.2	22
27	Crystalline and solution chemistry of tetrameric and dimeric molybdenum(VI) citrato complexes. Inorganica Chimica Acta, 2013, 406, 27-36.	2.4	22
28	A novel hexanuclear titanium(<i>iv</i>)-oxo-iminodiacetate cluster with a Ti_6O_9 core: single-crystal structure and photocatalytic activities. Dalton Transactions, 2016, 45, 7581-7588.	3.3	22
29	Comparison of hydroxycarboxylato imidazole molybdenum(<i>iv</i>) complexes and nitrogenase protein structures: indirect evidence for the protonation of homocitrato FeMo-cofactors. Dalton Transactions, 2018, 47, 7412-7421.	3.3	22
30	The correlation between metal oxidation state and bond valence parameters for M ⁿ O bonds (M = V, Fe) Tj ETQq0 0 0 rgBT /Overlock 1 Zeitschrift Fur Kristallographie - Crystalline Materials, 2004, 219, 614-620.	0.8	21
31	Synthesis, Crystal Structure, and Magnetic Properties of Two Manganese(II) Polymers Bearing Ferrocenecarboxylato Ligands. European Journal of Inorganic Chemistry, 2007, 2040-2045.	2.0	21
32	4a,8a-Azaboranaphthalene-4-yl phosphine ligands: synthesis and electronic modulation in Suzuki-Miyaura coupling reactions. RSC Advances, 2015, 5, 75607-75611.	3.6	21
33	Enantiomeric and mesomeric mandelate complexes of molybdenum \hat{A} on their stereospecific formations and absolute configurations. Journal of Inorganic Biochemistry, 2004, 98, 1787-1794.	3.5	19
34	Manganese citrate complexes: syntheses, crystal structures and thermal properties. Journal of Coordination Chemistry, 2009, 62, 778-788.	2.2	19
35	Isolations and characterization of highly water-soluble dimeric lanthanide citrate and malate with ethylenediaminetetraacetate. Dalton Transactions, 2012, 41, 1202-1209.	3.3	19
36	Structure and spectroscopy of a bidentate bis-homocitrato dioxo-molybdenum(VI) complex: Insights relevant to the structure and properties of the FeMo-cofactor in nitrogenase. Journal of Inorganic Biochemistry, 2013, 118, 100-106.	3.5	19

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37	Selective Ligand Conversion of Ethylenediamine Tetraacetate to Its Triacetate on Peroxotitanate(IV). <i>Inorganic Chemistry</i> , 2007, 46, 6846-6848.	4.0	18
38	Monomeric peroxy titanate coordinated with cyclohexanediaminetetraacetate: Towards the active oxygen species of the Ti(IV) site hosted in the titanium silicalite catalyst TS-1. <i>Polyhedron</i> , 2012, 35, 1-6.	2.2	17
39	Efficient synthesis of chiral benzofuryl β -amino alcohols via a catalytic asymmetric Henry reaction. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 1530-1536.	2.8	17
40	A lanthanum chelate possessing an open-channel framework with water nanotubes: properties and desalination. <i>Dalton Transactions</i> , 2014, 43, 6026.	3.3	15
41	Intrinsic Molybdenum-Based POMOFs with Impressive Gas Adsorptions and Photochromism. <i>Chemistry - A European Journal</i> , 2021, 27, 9643-9653.	3.3	15
42	Transformations and reductions of β -octamolybdates with their monomeric and dimeric amino polycarboxylates. <i>RSC Advances</i> , 2014, 4, 26499-26507.	3.6	14
43	Substitution of gadolinium ethylenediaminetetraacetate with phosphites: towards gadolinium deposit in nephrogenic systemic fibrosis. <i>Dalton Transactions</i> , 2014, 43, 639-645.	3.3	14
44	Dimeric 1,3-propanediaminetetraacetato lanthanides as the precursors of catalysts for the oxidative coupling of methane. <i>Dalton Transactions</i> , 2014, 43, 8690-8697.	3.3	14
45	Metal-Organic Frameworks with Double Channels for Rapid and Reversible Adsorption of 1,2-Ethylenediamine and Gases. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 1412-1418.	8.0	14
46	Expeditious biomimetically-inspired approaches to racemic homocitric acid lactone and per-homocitrate. <i>Tetrahedron</i> , 2007, 63, 2148-2152.	1.9	13
47	A stable water-soluble molecular precursor for the preparation of stoichiometric strontium titanate. <i>Inorganic Chemistry Communication</i> , 2008, 11, 1064-1066.	3.9	13
48	Chiral and achiral vanadyl lactates with vibrational circular dichroism: Toward the chiral metal cluster in nitrogenase. <i>Inorganica Chimica Acta</i> , 2016, 453, 501-506.	2.4	13
49	Wheel-Like Icosanuclear Peroxotitanate—A Stable Water-Soluble Catalyst for Oxygen Transfer Reactions. <i>Inorganic Chemistry</i> , 2018, 57, 14116-14122.	4.0	13
50	Preliminary Assignment of Protonated and Deprotonated Homocitrates in Extracted FeMo-Cofactors by Comparisons with Molybdenum(IV) Lactates and Oxidovanadium Glycolates. <i>Inorganic Chemistry</i> , 2019, 58, 2523-2532.	4.0	13
51	N-heterocycle chelated oxomolybdenum(VI and V) complexes with bidentate citrate. <i>Dalton Transactions</i> , 2008, , 2475.	3.3	12
52	Protonation of metal-bound β -hydroxycarboxylate ligand and implication for the role of homocitrate in nitrogenase: Computational study of the oxy-bidentate chelate ring opening. <i>International Journal of Quantum Chemistry</i> , 2006, 106, 2161-2168.	2.0	11
53	Peroxo-tungstates and Their Citrate and Tartrate Derivatives. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 1670-1677.	2.0	11
54	Mixed-Valence Vanadium (IV/V) Glycolates and Lactates with N-Heterocycle Ligands: Localized Structures and Catalytic Oxidation of Thioanisole. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 1228-1235.	2.0	11

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55	Assignment of protonated R-homocitrate in extracted FeMo-cofactor of nitrogenase via vibrational circular dichroism spectroscopy. <i>Communications Chemistry</i> , 2020, 3, .	4.5	11
56	Asymmetric dinuclear hydroxyl and ethoxyl citrato dioxovanadates(V). <i>Journal of Coordination Chemistry</i> , 2007, 60, 1419-1426.	2.2	10
57	pH Dependent formations of dinuclear molybdenum(V) and incomplete cubane molybdenum(IV) complexes with nitrilotriacetate. <i>Inorganic Chemistry Communication</i> , 2007, 10, 1461-1464.	3.9	10
58	Bond-valence analyses of the crystal structures of FeMo/V cofactors in FeMo/V proteins. <i>Acta Crystallographica Section D: Structural Biology</i> , 2020, 76, 428-437.	2.3	10
59	Structures and thermal properties of strontium and barium 1,3-propanediaminetetraacetates. <i>Journal of Coordination Chemistry</i> , 2013, 66, 1906-1915.	2.2	9
60	Interaction of Gd-DTPA with phosphate and phosphite: toward the reaction intermediate in nephrogenic systemic fibrosis. <i>Dalton Transactions</i> , 2016, 45, 5388-5394.	3.3	9
61	Degradations of novel tetranuclear vanadyl glycolates to dinuclear species. <i>Polyhedron</i> , 2017, 122, 99-104.	2.2	9
62	Stereodivergent synthesis of all the four stereoisomers of antidepressant reboxetine. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 5395-5401.	2.8	9
63	Gas Adsorption of Mixed-Valence Trinuclear Oxothiomolybdenum Glycolates. <i>Inorganic Chemistry</i> , 2020, 59, 4874-4881.	4.0	9
64	Interactions of vanadium with amino acids—Monodentate coordination of vanadyl proline, lysine and histidine and catalytic degradations of methyl orange. <i>Polyhedron</i> , 2019, 159, 375-381.	2.2	8
65	Cation exchange in a fluorescent zinc-based metal-organic framework for cadmium ion detection. <i>CrystEngComm</i> , 2021, 23, 7442-7449.	2.6	8
66	Bond valence parameters linearly dependent on the molybdenum oxidation states. <i>Science Bulletin</i> , 2002, 47, 978-981.	1.7	7
67	Mixed ligand oxidovanadium(IV) complexes: Synthesis, spectral, structural characterization and catalytic degradations of methyl orange. <i>Inorganica Chimica Acta</i> , 2019, 486, 395-400.	2.4	7
68	Isolated Mixed-Valence Iron Vanadium Malate and Its Metal Hydrates (M = Fe ²⁺), <i>Inorganic Chemistry</i> , 2020, 59, 12768-12777.	4.0	7
69	Exploring Anticancer Activities and Structure-Activity Relationships of Binuclear Oxidovanadium(IV) Complexes. <i>ACS Applied Bio Materials</i> , 2021, 4, 8571-8583.	4.6	7
70	Syntheses and catalytic oxidation of tetrameric and polymeric copper(II) 1,3-propanediaminetetraacetates. <i>Polyhedron</i> , 2014, 81, 142-146.	2.2	6
71	Mixed-ligand lanthanide complexes constructed by flexible 1,3-propanediaminetetraacetate and rigid terephthalate. <i>Journal of Coordination Chemistry</i> , 2019, 72, 1547-1559.	2.2	6
72	Transformations of dimeric and tetrameric glycolato peroxotitanates and their thermal decompositions for the preparations of anatase and rutile oxides. <i>Journal of Solid State Chemistry</i> , 2019, 277, 169-174.	2.9	6

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73	Synthesis, spectral and structural characterization of vanadium lactate, malate and citrate with large counter cation. <i>Journal of Molecular Structure</i> , 2020, 1207, 127805.	3.6	6
74	Access to Chiral Tertiary $\hat{1}\pm$ -Hydroxy- $\hat{1}^2$ -Ynyl Esters via One-Pot Addition and Kinetic Resolution. <i>Synlett</i> , 2014, 25, 809-812.	1.8	5
75	Well-defined lanthanum ethylenediaminetetraacetates as the precursors of catalysts for the oxidative coupling of methane. <i>Inorganica Chimica Acta</i> , 2015, 434, 221-229.	2.4	5
76	Carbonate and phosphite encaged in frameworks constructed from square lanthanum aminopolycarboxylates and sodium chloride. <i>Dalton Transactions</i> , 2019, 48, 2959-2966.	3.3	5
77	Highly water-soluble dimeric and trimeric lanthanide carbonates with ethylenediaminetetraacetates as precursors of catalysts for the oxidative coupling reaction of methane. <i>New Journal of Chemistry</i> , 2022, 46, 3707-3715.	2.8	5
78	Formation and catalytic activity of novel water soluble di[ethylenediaminetetraacetato bis(N-oxido)] lanthanides. <i>Inorganic Chemistry Communication</i> , 2013, 35, 9-12.	3.9	4
79	Halide assisted formation of polymeric ethylenediaminetetraacetato lead($\langle\text{scpi}\rangle$) complexes. <i>New Journal of Chemistry</i> , 2017, 41, 5198-5204.	2.8	4
80	2-Methylimidazole Copper Iminodiacetates for the Adsorption of Oxygen and Catalytic Oxidation of Cyclohexane. <i>Molecules</i> , 2020, 25, 1286.	3.8	4
81	Isolated molybdenum-based microporous POMs for selective adsorption of gases. <i>Dalton Transactions</i> , 2022, 51, 5239-5249.	3.3	4
82	Synthesis, spectroscopic, and structural characterization of two malate zinc coordination polymers with imidazole or 2,2'-bipyridine. <i>Journal of Coordination Chemistry</i> , 2010, 63, 3589-3598.	2.2	3
83	Formation of N-oxido copper ethylenediaminetetraacetate and propanediaminetetraacetate and their selective degradation to iminodiacetate and propanediaminediacetate. <i>Dalton Transactions</i> , 2019, 48, 13388-13395.	3.3	3
84	Molybdenum imidazole citrate and bipyridine homocitrate in different oxidation states $\hat{1}\pm$ balance between coordinated $\hat{1}\pm$ -hydroxy and $\hat{1}\pm$ -alkoxy groups. <i>RSC Advances</i> , 2019, 9, 519-528.	3.6	3
85	Spontaneous conversions of glutamine, histidine and arginine into $\hat{1}\pm$ -hydroxycarboxylates with NH_4^+ VO ₃ or V ₂ O ₅ . <i>Dalton Transactions</i> , 2020, 49, 11921-11930.	3.3	3
86	Novel bidentate oxovanadium(IV) glycolate, $\hat{1}\pm$ -hydroxybutyrate and citrate with terpyridine and their conversions to nitrosyl products. <i>Journal of Inorganic Biochemistry</i> , 2020, 208, 111086.	3.5	3
87	$\hat{1}\pm$ -hydroxybutyrate and citrate with terpyridine and their conversions to nitrosyl products. <i>Scientia Sinica Chimica</i> , 2014, 44, 1849-1864.	0.4	3
88	Mixed-Ligand Oxidovanadium(IV/V) Complexes Chelated by $\hat{1}\pm$ -Hydroxycarboxylate and 2-(1H-imidazol-2-yl)pyridine: Localized Structures and Gas Adsorption. <i>European Journal of Inorganic Chemistry</i> , 2022, 2022, e202100877.	2.0	3
89	Successive constructions of regular tetra-, hexa- and octanuclear microporous polyoxovanadates($\langle\text{scpi}\rangle$) for gas adsorption. <i>Dalton Transactions</i> , 2022, 51, 11286-11294.	3.3	3
90	Solid and solution study of tetranuclear zinc citrates with N-donor chelates. <i>Journal of Coordination Chemistry</i> , 2014, 67, 2470-2478.	2.2	2

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91	Unusual N-oxide formation in the peroxidation of cobalt(II) ethylenediaminetetraacetates. Dalton Transactions, 2017, 46, 1290-1296.	3.3	2
92	Solid and solution chemistry of protonated and deprotonated mononuclear molybdenum(VI) citrates. Journal of Coordination Chemistry, 2017, 70, 93-102.	2.2	2
93	Iron molybdenum nitrilotriacetate and iminodiacetate IR spectroscopy, structural characterization and CO ₂ adsorption. New Journal of Chemistry, 2018, 42, 18526-18532.	2.8	2
94	Structural characterization of vanadium terpyridine complexes for the study of in-situ ligand cyclization reaction. IOP Conference Series: Materials Science and Engineering, 0, 509, 012158.	0.6	2
95	Triazole-assisted trinuclear oxidovanadium(IV) complexes for gas adsorptions. Inorganic Chemistry Communication, 2021, 129, 108661.	3.9	2
96	Gel self-assembly of lanthanum aminopolycarboxylates with skeleton structures and adsorptions of gases. New Journal of Chemistry, 2021, 45, 16816-16821.	2.8	2
97	Statistical analysis of P _N clusters in Mo/VFe protein crystals using a bond valence method toward their electronic structures. RSC Advances, 2022, 12, 5214-5224.	3.6	2
98	Comparisons of bond valences and distances for CO- and N ₂ -bound clusters of FeMo-cofactors. New Journal of Chemistry, 2022, 46, 9519-9525.	2.8	2
99	Syntheses, Characterization and Stereochemistry of S- and R, S-Hydrogenmalato Dioxotungsten(VI). Journal of Coordination Chemistry, 2003, 56, 133-139.	2.2	1
100	Three-Dimensional Structure of Barium-Cupric Nitrilotriacetate and One-Dimensional Structure of Cobalt-Cupric Nitrilotriacetate: Template Effect of Cations on the Formation of Coordination Polymers. Journal of Inorganic and Organometallic Polymers and Materials, 2014, 24, 819-826.	3.7	1
101	Novel isopolymolybdates with different configurations of hexagram, double dish, and triangular dodecahedron. Journal of Solid State Chemistry, 2021, 300, 122229.	2.9	1
102	Molybdenum citrate towards the protonation of FeMo-co in nitrogenase. Chinese Science Bulletin, 2021, 66, 2702-2708.	0.7	1
103	Confined and synergistic effects between protonated amines and gases in the frameworks of lanthanum 1,3-propanediaminetetraacetates. Microporous and Mesoporous Materials, 2022, 335, 111813.	4.4	1
104	Total synthesis of (-)-goniopyprone. Chinese Journal of Chemistry, 2010, 11, 479-480.	4.9	0
105	Conversions between dimeric and polymeric ketopiperazinediacetato complexes constructed by water-layers. CrystEngComm, 2013, 15, 7999.	2.6	0
106	Regioselective conversions of H ₄ pda (1,2-propanediaminetetraacetic acid) and H ₄ eed _{3a} to their triacetates on peroxotitanates. Dalton Transactions, 2019, 48, 16943-16951.	3.3	0
107	Polymeric copper(II) diethylenetriaminepentaacetates for gas adsorptions. Polyhedron, 2021, 195, 114970.	2.2	0
108	Efficient Synthesis of p-Hydroxyphenyl Ethanol from Hydrogenation of Methyl p-Hydroxyphenylacetate with CNTs-promoted Cu-Zr Catalyst. Chemical Research in Chinese Universities, 2021, 37, 745-750.	2.6	0