

# Titanium oxo-clusters: precursors for a Lego-like construction materials

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Organic-inorganic hybrid materials starting from the novel nanoscaled bismuth oxido methacrylate cluster [Bi <sub>38</sub> O <sub>45</sub> (OMc) <sub>24</sub> (DMSO) <sub>9</sub> ] <sub>2</sub> ·2DMSO·7H <sub>2</sub> O. <i>Chemical Communications</i> , 2011, 47, 6353.	2.2	39
2	New hybrid core-shell star-like architectures made of poly(n-butyl acrylate) grown from well-defined titanium oxo-clusters. <i>Journal of Materials Chemistry</i> , 2011, 21, 4470.	6.7	25
3	Extending the Family of Titanium Heterometallic oxoalkoxy Cages. <i>Inorganic Chemistry</i> , 2011, 50, 5655-5662.	1.9	49
4	Supramolecular design for polymer/titanium oxo-cluster hybrids: an open door to new organic-inorganic dynamers. <i>Polymer Chemistry</i> , 2011, 2, 2785.	1.9	8
5	Applications of advanced hybrid organic-inorganic nanomaterials: from laboratory to market. <i>Chemical Society Reviews</i> , 2011, 40, 696.	18.7	1,235
6	Nanoscale Structure Evolution in Alkoxide-Carboxylate Sol-Gel Precursor Solutions of Barium Titanate. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20449-20459.	1.5	16
8	Titanium, zirconium, hafnium. <i>Annual Reports on the Progress of Chemistry Section A</i> , 2012, 108, 146.	0.8	2
9	Hybridization in Materials Science - Evolution, Current State, and Future Aspirations. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 5097-5105.	1.0	78
10	Interfacial Electron Transfer into Functionalized Crystalline Polyoxotitanate Nanoclusters. <i>Journal of the American Chemical Society</i> , 2012, 134, 8911-8917.	6.6	72
11	Binding Modes of Carboxylate- and Acetylacetonate-Linked Chromophores to Homodisperse Polyoxotitanate Nanoclusters. <i>Journal of the American Chemical Society</i> , 2012, 134, 11695-11700.	6.6	129
12	Sol-gel TiO <sub>2</sub> in self-organization process: growth, ripening and sintering. <i>RSC Advances</i> , 2012, 2, 2294.	1.7	44
13	Titanium oxo-Clusters with Dicarboxylates: Single-Crystal Structure and Photochromic Effect. <i>Inorganic Chemistry</i> , 2012, 51, 8982-8988.	1.9	69
14	Luminescence properties of pHEMA-TiO <sub>2</sub> gels based hybrids materials. <i>Journal of Luminescence</i> , 2012, 132, 1192-1199.	1.5	11
15	Nonporous Titanium Oxo Molecular Clusters That Reversibly and Selectively Adsorb Carbon Dioxide. <i>Inorganic Chemistry</i> , 2013, 52, 9705-9707.	1.9	66
16	Synthesis, structure, and properties of organic-inorganic nanocomposites containing poly(titanium) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.78	30
17	Perylene carboxylate-modified titanium oxide gel, a functional material with photoswitchable fluorescence properties. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7973.	2.7	11
18	Metal-phenanthroline fused Ti <sub>17</sub> clusters, a single molecular source for sensitized photoconductive films. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9862.	5.2	71
19	Structure, Dynamics, and Phase Behavior of Water in TiO <sub>2</sub> Nanopores. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3330-3342.	1.5	63

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20	Toward colored reticular titanium-based hybrid networks: Evaluation of the reactivity of the [Ti <sub>8</sub> O <sub>8</sub> (OOCCH <sub>2</sub> But) <sub>16</sub> ] wheel with phenol, resorcinol and catechol. <i>Polyhedron</i> , 2013, 57, 70-76.	1.0	23
21	Conversion of methacrylate into 2-hydroxy-2-methylpropionate ligands in the coordination sphere of a Ag <sup>+</sup> -Zr oxo cluster. <i>Dalton Transactions</i> , 2013, 42, 6694.	1.6	3
22	A chiral porous metallosalan-organic framework containing titanium-oxo clusters for enantioselective catalytic sulfoxidation. <i>Chemical Science</i> , 2013, 4, 3154.	3.7	101
23	Two novel nanoscaled bismuth oxido clusters, [Bi <sub>38</sub> O <sub>45</sub> (OMc) <sub>22</sub> (C <sub>8</sub> H <sub>7</sub> SO <sub>3</sub> ) <sub>2</sub> (DMSO) <sub>6</sub> (H <sub>2</sub> O) <sub>1.5</sub> ] $\cdot$ 2.5H <sub>2</sub> O and [Bi <sub>38</sub> O <sub>45</sub> (HSal) <sub>22</sub> (OMc) <sub>2</sub> (DMSO) <sub>15</sub> (H <sub>2</sub> O)] $\cdot$ DMSO $\cdot$ 2H <sub>2</sub> O. <i>Main Group Metal Chemistry</i> , 2013, 36, .	0.6	14
24	Influence of the Phosphonate Ligand on the Structure of Phosphonate-Substituted Titanium Oxo Clusters. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 5790-5796.	1.0	29
25	[Ti <sub>8</sub> O <sub>10</sub> (OOC <i>R</i> ) <sub>12</sub> ] [ <i>R</i> = CH(CH <sub>3</sub> ) <sub>2</sub> and CCl <sub>3</sub> ] Carboxylate Titanium Oxo-Clusters: Potential SBUs for the Synthesis of Metal-Organic Frameworks. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2013, 639, 2181-2185.	0.6	7
26	Direct Observation of the Binding Mode of the Phosphonate Anchor to Nanosized Polyoxotitanate Clusters. <i>Chemistry - A European Journal</i> , 2013, 19, 16651-16655.	1.7	34
27	Structural Investigation of Pyridinecarboxylato Titanium(IV) Complexes: An Uncommon Monomeric Octacoordinated Complex vs. a Hexaprismatic Architecture. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 357-363.	1.0	7
28	Acetic Acid Mediated Synthesis of Phosphonate-Substituted Titanium Oxo Clusters. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 2038-2045.	1.0	47
29	Molecular Engineering of Functional Inorganic and Hybrid Materials. <i>Chemistry of Materials</i> , 2014, 26, 221-238.	3.2	147
30	A novel manganese-doped large polyoxotitanate nanocluster. <i>Dalton Transactions</i> , 2014, 43, 3839-3841.	1.6	31
32	Mesoscopically structured nanocrystalline metal oxide thin films. <i>Nanoscale</i> , 2014, 6, 14025-14043.	2.8	18
33	The Structural Conversion of Multinuclear Titanium(IV) $\mu_4$ -Oxo-complexes. <i>Inorganic Chemistry</i> , 2014, 53, 10803-10810.	1.9	26
34	A novel luminescent monolayer thin film based on postsynthetic method and functional linker. <i>Journal of Materials Chemistry C</i> , 2014, 2, 5526-5532.	2.7	40
35	Robust Molecular Crystals of Titanium(IV)-oxo-Carboxylate Clusters Showing Water Stability and CO <sub>2</sub> Sorption Capability. <i>Inorganic Chemistry</i> , 2014, 53, 7288-7293.	1.9	37
36	Nano-building block based-hybrid organic-inorganic copolymers with self-healing properties. <i>Polymer Chemistry</i> , 2014, 5, 4474-4479.	1.9	23
37	A Square-Planar Tetracoordinate Oxygen-Containing Ti <sub>4</sub> O <sub>17</sub> Cluster Stabilized by Two 1,1'-Ferrocenedicarboxylato Ligands. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9193-9197.	7.2	41
38	Titanium-Oxo Cluster with 9-Anthracenecarboxylate Antennae: A Fluorescent and Photocurrent Transfer Material. <i>Inorganic Chemistry</i> , 2014, 53, 7233-7240.	1.9	59

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40	Synthesis, structure, and photocatalytic hydrogen of three environmentally friendly titanium oxo-clusters. <i>Inorganic Chemistry Communication</i> , 2014, 40, 22-25.	1.8	24
41	Crystallography and Properties of Polyoxotitanate Nanoclusters. <i>Chemical Reviews</i> , 2014, 114, 9645-9661.	23.0	256
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44	Thermoplastic softening behavior of organically modified polyoxotitanates: Effects of the amount of water and benzoylacetone for hydrolyzing alkoxides. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	3
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47	How Does Substitutional Doping Affect Visible Light Absorption in a Series of Homodisperse $Ti_{11}$ Polyoxotitanate Nanoparticles?. <i>Chemistry - A European Journal</i> , 2015, 21, 11538-11544.	1.7	39
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49	Retention of the Cluster Core Structure during Ligand Exchange Reactions of Carboxylate-Substituted Metal Oxo Clusters. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 2145-2151.	1.0	26
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54	Effect of kinetic features in synthesis of hybrid copolymers based on $Ti(OPri)_4$ and hydroxyethyl methacrylate on their structure and properties. <i>Russian Journal of Applied Chemistry</i> , 2015, 88, 197-207.	0.1	4
55	A tetrathiafulvalene-grafted titanium-oxo-cluster material: self-catalyzed crystal exfoliation and photocurrent response properties. <i>Journal of Materials Chemistry C</i> , 2015, 3, 409-415.	2.7	33
56	Organophosphonate bridged anatase mesocrystals: low temperature crystallization, thermal growth and hydrogen photo-evolution. <i>Dalton Transactions</i> , 2015, 44, 15544-15556.	1.6	20
57	Potent Reactivity in Solubilised Oxo-Titanium Polymers. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 2028-2032.	1.0	2
58	Polyoxometalate Complexes of Anatase-Titanium Dioxide Cores in Water. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12416-12421.	7.2	43
59	Influence of the $Ti(OiPr)_4$ : methacrylic acid ratio on the formed oxo/alkoxo clusters. <i>Monatshefte für Chemie</i> , 2015, 146, 897-902.	0.9	11

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61	Synthesis and O <sub>2</sub> Reactivity of a Titanium(III) Metal-Organic Framework. Inorganic Chemistry, 2015, 54, 10096-10104.	1.9	82
62	Synthesis, structure and properties of the manganese-doped polyoxotitanate cage [Ti <sub>18</sub> MnO <sub>30</sub> (OEt) <sub>20</sub> (MnPhen) <sub>3</sub> ] (Phen =) Tj ETQq0 0 0 rgBT / Overlock 10 Tf 50 65	1.9	10
63	Two Ti <sub>13</sub> -oxo-clusters showing non-compact structures, film electrode preparation and photocurrent properties. Dalton Transactions, 2015, 44, 19829-19835.	1.6	32
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68	Titanium complexes based on pyridine containing dialcohols: Effect of a ligand. Inorganic Chemistry Communication, 2016, 67, 1-5.	1.8	10
69	Titanium oxo-clusters derivatized from the Ti <sub>10</sub> O <sub>12</sub> (cat) <sub>8</sub> (py) <sub>8</sub> complex: structural investigation and spectroscopic studies of light absorption. Dalton Transactions, 2016, 45, 8760-8769.	1.6	18
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74	Hot Hole Hopping in a Polyoxotitanate Cluster Terminated with Catechol Electron Donors. Journal of Physical Chemistry C, 2016, 120, 20006-20015.	1.5	14
75	Sol-Gel Chemistry of Titanium Alkoxide toward HF: Impacts of Reaction Parameters. Crystal Growth and Design, 2016, 16, 5441-5447.	1.4	9
76	Water-Soluble Pentagonal-Prismatic Titanium-Oxo Clusters. Journal of the American Chemical Society, 2016, 138, 11097-11100.	6.6	145
77	Metal Oxide Clusters of Group 13-15 Elements. Structure and Bonding, 2016, , 201-268.	1.0	10

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79	Group 4 Metals as Secondary Building Units: Ti, Zr, and Hf-based MOFs. , 2016, , 137-170.		2
80	Two Titanium-oxo-Clusters with Malonate and Succinate Ligands: Single-Crystal Structures and Catalytic Property. <i>Journal of Cluster Science</i> , 2016, 27, 635-643.	1.7	11
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82	Novel properties and potential applications of functional ligand-modified polyoxotitanate cages. <i>Chemical Communications</i> , 2016, 52, 11180-11190.	2.2	97
83	Bandgap Engineering of Titanium "Oxo Clusters: Labile Surface Sites Used for Ligand Substitution and Metal Incorporation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5160-5165.	7.2	181
84	The core contribution of transmission electron microscopy to functional nanomaterials engineering. <i>Nanoscale</i> , 2016, 8, 1260-1279.	2.8	24
85	Small Titanium Oxo Clusters: Primary Structures of Titanium(IV) in Water. <i>Inorganic Chemistry</i> , 2016, 55, 3212-3214.	1.9	40
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87	Fullerene-like Polyoxotitanium Cage with High Solution Stability. <i>Journal of the American Chemical Society</i> , 2016, 138, 2556-2559.	6.6	183
88	A new cadmium-doped titanium "oxo cluster with stable photocatalytic H <sub>2</sub> evolution properties. <i>Dalton Transactions</i> , 2016, 45, 4501-4503.	1.6	30
89	A novel hexanuclear titanium( <sup>iv</sup> )-oxo-iminodiacetate cluster with a <b>Ti<sub>6</sub>O<sub>9</sub></b> core: single-crystal structure and photocatalytic activities. <i>Dalton Transactions</i> , 2016, 45, 7581-7588.	1.6	22
90	Interfacial charge transfer in a functionalized polyoxotitanate cluster. <i>Inorganica Chimica Acta</i> , 2016, 443, 279-283.	1.2	19
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92	Novel Eu-containing titania composites derived from a new Eu( <sup>iii</sup> )-doped polyoxotitanate cage. <i>RSC Advances</i> , 2016, 6, 57-60.	1.7	21
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96	Inverse coordination – An emerging new chemical concept. Oxygen and other chalcogens as coordination centers. <i>Coordination Chemistry Reviews</i> , 2017, 338, 1-26.	9.5	47
97	Synthesis and photocatalytic H <sub>2</sub> evolution properties of four titanium-oxo-clusters based on a cyclohex-3-ene-1-carboxylate ligand. <i>Dalton Transactions</i> , 2017, 46, 10630-10634.	1.6	21
98	Anion-π Interactions and Metastability: Structural Transformations in a Silver-Pyrazine Network. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 2628-2636.	1.0	4
99	Assembling Polyoxo-Titanium Clusters and CdS Nanoparticles to a Porous Matrix for Efficient and Tunable H <sub>2</sub> Evolution Activities with Visible Light. <i>Advanced Materials</i> , 2017, 29, 1603369.	11.1	113
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101	Titanium coordination compounds: from discrete metal complexes to metal-organic frameworks. <i>Chemical Society Reviews</i> , 2017, 46, 3431-3452.	18.7	239
102	Connecting Titanium-Oxo Clusters by Nitrogen Heterocyclic Ligands to Produce Multiple Cluster Series with Photocatalytic H <sub>2</sub> Evolution Activities. <i>Crystal Growth and Design</i> , 2017, 17, 3592-3595.	1.4	37
103	Titanium Oxo Cluster with Six Peripheral Ferrocene Units and Its Photocurrent Response Properties for Saccharides. <i>Inorganic Chemistry</i> , 2017, 56, 6451-6458.	1.9	44
104	A ferrocenecarboxylate-functionalized titanium-oxo-cluster: the ferrocene wheel as a sensitizer for photocurrent response. <i>Dalton Transactions</i> , 2017, 46, 8057-8064.	1.6	44
105	Titanium-Oxo Cluster Based Precise Assembly for Multidimensional Materials. <i>Chemistry of Materials</i> , 2017, 29, 2681-2684.	3.2	50
106	[Ti <sub>12</sub> In <sub>6</sub> O <sub>18</sub> (OCC <sub>6</sub> H <sub>5</sub> ) <sub>30</sub> ]: a multifunctional hetero-polyoxotitanate nanocluster with high stability and visible photoactivity. <i>Dalton Transactions</i> , 2017, 46, 678-684.	1.6	31
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109	A cluster-based mesoporous Ti-MOF with sodalite supercages. <i>Chemical Communications</i> , 2017, 53, 11670-11673.	2.2	74
110	Two titanium(IV)-oxo-clusters: synthesis, structures, characterization and recycling catalytic activity in the oxygenation of sulfides. <i>Dalton Transactions</i> , 2017, 46, 14348-14355.	1.6	11
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112	Alkoxido-Derivatised Lindqvist- and Keggin-Type Polyoxometalates. <i>Structure and Bonding</i> , 2017, , 139-163.	1.0	0
113	Microporous Cyclic Titanium-Oxo Clusters with Labile Surface Ligands. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16252-16256.	7.2	90

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115	Mixed-Ligand Titanium Oxide Clusters: Structural Insights into the Formation and Binding of Organic Molecules and Transformation into Oxide Nanostructures on Hydrolysis and Thermolysis. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 4117-4122.	1.0	27
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117	A gigantic polyoxozirconate with visible photoactivity. <i>Dalton Transactions</i> , 2017, 46, 10185-10188.	1.6	10
118	Stable Heteropolyoxotitanate Nanocluster for Full Solar Spectrum Photocatalytic Hydrogen Evolution. <i>Journal of Physical Chemistry C</i> , 2017, 121, 18326-18332.	1.5	20
119	Microporous Cyclic Titanium Oxide Clusters with Labile Surface Ligands. <i>Angewandte Chemie</i> , 2017, 129, 16470-16474.	1.6	21
120	Deep eutectic-solvothermal synthesis of titanium-oxo clusters protected by $\pi$ -conjugated chromophores. <i>Chemical Communications</i> , 2017, 53, 8078-8080.	2.2	36
121	Hybrid Graphene-Polyoxometalates Nanofluids as Liquid Electrodes for Dual Energy Storage in Novel Flow Cells. <i>Chemical Record</i> , 2018, 18, 1076-1084.	2.9	33
122	Additive manufacturing of polymer-derived titania for one-step solar water purification. <i>Materials Today Communications</i> , 2018, 15, 288-293.	0.9	55
124	In Situ Self-Assembled Polyoxotitanate Cages on Flexible Cellulosic Substrates: Multifunctional Coating for Hydrophobic, Antibacterial, and UV-Blocking Applications. <i>Advanced Functional Materials</i> , 2018, 28, 1800345.	7.8	45
125	Dicarboxylate Ligands Oriented Assembly of {Ti <sub>3</sub> ( $\mu_4$ -O)} Units: From Dimer to Coordination Triangles and Rectangles. <i>Inorganic Chemistry</i> , 2018, 57, 5642-5647.	1.9	16
126	Titanium-based metal-organic frameworks for photocatalytic applications. <i>Coordination Chemistry Reviews</i> , 2018, 359, 80-101.	9.5	246
127	Additive manufacturing of 3D nano-architected metals. <i>Nature Communications</i> , 2018, 9, 593.	5.8	372
128	Stable Metal-Organic Frameworks: Design, Synthesis, and Applications. <i>Advanced Materials</i> , 2018, 30, e1704303.	11.1	1,740
129	Synthetic strategies, diverse structures and tuneable properties of polyoxo-titanium clusters. <i>Chemical Society Reviews</i> , 2018, 47, 404-421.	18.7	272
130	Designed Cluster Assembly of Multidimensional Titanium Coordination Polymers: Syntheses, Crystal Structure and Properties. <i>Chemistry - A European Journal</i> , 2018, 24, 2952-2961.	1.7	42
131	Energy transfer and photoluminescence properties of lanthanide-containing polyoxotitanate cages coordinated by salicylate ligands. <i>Dalton Transactions</i> , 2018, 47, 5679-5686.	1.6	22
132	Synthesis, characterization and properties of titanium phosphonate clusters. <i>Polyhedron</i> , 2018, 147, 1-8.	1.0	13



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133	Heterogeneous catalysts based on mesoporous metal-organic frameworks. <i>Coordination Chemistry Reviews</i> , 2018, 373, 199-232.	9.5	113
134	Influence of tunable pore size on photocatalytic and photoelectrochemical performances of hierarchical porous TiO <sub>2</sub> /C nanocomposites synthesized via dual-Templating. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 341-349.	10.8	43
135	[Ti <sub>8</sub> Zr <sub>2</sub> O <sub>12</sub> (COO) <sub>16</sub> ] Cluster: An Ideal Inorganic Building Unit for Photoactive Metal-Organic Frameworks. <i>ACS Central Science</i> , 2018, 4, 105-111.	5.3	204
136	The structure and photocatalytic activity of the tetranuclear titanium(IV) oxo-complex with 4-aminobenzoate ligands. <i>Polyhedron</i> , 2018, 141, 110-117.	1.0	14
137	Ligand dependent assembly of trinuclear titanium-oxo units into coordination tetrahedra and capsules. <i>Dalton Transactions</i> , 2018, 47, 663-665.	1.6	20
138	Titanium-Oxide Host Clusters with Exchangeable Guests. <i>Journal of the American Chemical Society</i> , 2018, 140, 66-69.	6.6	77
139	Single-crystal-to-single-crystal desolvation in a Ti <sub>32</sub> nanoring cluster. <i>CrystEngComm</i> , 2018, 20, 7062-7065.	1.3	6
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