Yurii V Geletii

List of Publications by Year
in descending order

104	7,038	35	83
papers	citations	h-index	g-index
		109321	56724

119	119	119	5178
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Fast Soluble Carbon-Free Molecular Water Oxidation Catalyst Based on Abundant Metals. Science, 2010, 328, 342-345.	12.6	1,354
2	Polyoxometalate water oxidation catalysts and the production of green fuel. Chemical Society Reviews, 2012, 41, 7572.	38.1	678
3	An Allâ€Inorganic, Stable, and Highly Active Tetraruthenium Homogeneous Catalyst for Water Oxidation. Angewandte Chemie - International Edition, 2008, 47, 3896-3899.	13.8	559
4	Efficient Light-Driven Carbon-Free Cobalt-Based Molecular Catalyst for Water Oxidation. Journal of the American Chemical Society, 2011, 133, 2068-2071.	13.7	336
5	Homogeneous Light-Driven Water Oxidation Catalyzed by a Tetraruthenium Complex with All Inorganic Ligands. Journal of the American Chemical Society, 2009, 131, 7522-7523.	13.7	330
6	An Exceptionally Fast Homogeneous Carbon-Free Cobalt-Based Water Oxidation Catalyst. Journal of the American Chemical Society, 2014, 136, 9268-9271.	13.7	260
7	A Noble-Metal-Free, Tetra-nickel Polyoxotungstate Catalyst for Efficient Photocatalytic Hydrogen Evolution. Journal of the American Chemical Society, 2014, 136, 14015-14018.	13.7	213
8	Differentiating Homogeneous and Heterogeneous Water Oxidation Catalysis: Confirmation that [Co₄(H₂O)₂(Î±-PW₉O₃₄)₂]^{10â€“} Is a Molecular Water Oxidation Catalyst. Journal of the American Chemical Society, 2013, 135, 14110-14118.	13.7	196
9	Structural, Physicochemical, and Reactivity Properties of an All-Inorganic, Highly Active Tetraruthenium Homogeneous Catalyst for Water Oxidation. Journal of the American Chemical Society, 2009, 131, 17360-17370.	13.7	162
10	Cs9[(Î³-PW10O36)2Ru4O5(OH)(H2O)4], a new all-inorganic, soluble catalyst for the efficient visible-light-driven oxidation of water. Chemical Communications, 2010, 46, 2784.	4.1	145
11	Graphene-supported [{Ru4O4(OH)2(H2O)4}(Î³-SiW10O36)2]10âˆ’ for highly efficient electrocatalytic water oxidation. Energy and Environmental Science, 2013, 6, 2654.	30.8	124
12	Peroxynitrite Scavenging by Different Antioxidants. Part I: Convenient Assay. Nitric Oxide - Biology and Chemistry, 1999, 3, 40-54.	2.7	118
13	A nickel containing polyoxometalate water oxidation catalyst. Dalton Transactions, 2012, 41, 13043.	3.3	111
14	A Homogeneous Catalyst for Selective O2Oxidation at Ambient Temperature. Diversity-Based Discovery and Mechanistic Investigation of Thioether Oxidation by the Au(III)Cl2NO3(thioether)/O2System. Journal of the American Chemical Society, 2001, 123, 1625-1635.	13.7	105
15	The True Nature of the Di-iron(III) Î³-Keggin Structure in Water:Â Catalytic Aerobic Oxidation and Chemistry of an Unsymmetrical Trimer. Journal of the American Chemical Society, 2006, 128, 11268-11277.	13.7	105
16	Visible-light-driven hydrogen evolution from water using a noble-metal-free polyoxometalate catalyst. Journal of Catalysis, 2013, 307, 48-54.	6.2	95
17	Structurally Characterized Iridium(III)-Containing Polytungstate and Catalytic Water Oxidation Activity. Inorganic Chemistry, 2009, 48, 5596-5598.	4.0	88
18	Dioxygen and Water Activation Processes on Multi-Ru-Substituted Polyoxometalates: Comparison with the â€œBlue-Dimerâ€•Water Oxidation Catalyst. Journal of the American Chemical Society, 2009, 131, 6844-6854.	13.7	88

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19	Wateroxidation catalyzed by a new tetracobalt-substituted polyoxometalate complex: [{Co4(Î¼-OH)(H2O)3}(Si2W19O70)]11^{âˆ’}. Dalton Transactions, 2012, 41, 2084-2090.	3.3	87
20	Revisiting the Polyoxometalate-Based Late-Transition-Metal-Oxo Complexes: The â€œOxo Wallâ€•Stands. Inorganic Chemistry, 2012, 51, 7025-7031.	4.0	86
21	Polyoxometalate Multiâ€Electronâ€Transfer Catalytic Systems for Water Splitting. European Journal of Inorganic Chemistry, 2014, 2014, 635-644.	2.0	85
22	Electrooxidation of Ethanol and Methanol Using the Molecular Catalyst [{Ru₄O₄(OH)₂(H₂O)₄}(Î³-SiW₁₀O₃₆)<sub Journal of the American Chemical Society, 2016, 138, 2617-2628.	13.7	81
23	Reduction of O2to Superoxide Anion (O2â€¢-) in Water by Heteropolytungstate Cluster-Anions. Journal of the American Chemical Society, 2006, 128, 17033-17042.	13.7	72
24	Terminal Gold-Oxo Complexes. Journal of the American Chemical Society, 2007, 129, 11118-11133.	13.7	72
25	Water splitting with polyoxometalate-treated photoanodes: enhancing performance through sensitizer design. Chemical Science, 2015, 6, 5531-5543.	7.4	67
26	Computational Modeling of Di-Transition-Metal-Substituted Î³-Keggin Polyoxometalate Anions. Structural Refinement of the Protonated Divacant Lacunary Silicodecatungstate. Inorganic Chemistry, 2004, 43, 7702-7708.	4.0	63
27	Voltammetric Determination of the Reversible Potentials for [{Ru₄O₄(OH)₂(H₂O)₄}(Î³-SiW₁₀O₃₆)<su over the pH Range of 2â€“12: Electrolyte Dependence and Implications for Water Oxidation Catalysis. Inorganic Chemistry, 2013, 52, 11986-11996.	4.0	53
28	[{Ni₄(OH)₃AsO₄}₄(<i>B</i>â€Î±â€PW₉O₃₄)<sub>4</su A New Polyoxometalate Structural Family with Catalytic Hydrogen Evolution Activity. Chemistry - A European Journal, 2015, 21, 17363-17370.	3.3	52
29	Insights into Photoinduced Electron Transfer between [Ru(bpy)3]2+ and [S2O8]2âˆ’ in Water: Computational and Experimental Studies. Journal of Physical Chemistry A, 2010, 114, 73-80.	2.5	51
30	Concerted Protonâˆ’Electron Transfer to Dioxygen in Water. Journal of the American Chemical Society, 2010, 132, 11678-11691.	13.7	45
31	Catalytic aerobic oxidation of 2-chloroethyl ethylsulfide, a mustard simulant, under ambient conditions. Journal of Molecular Catalysis A, 2001, 176, 49-63.	4.8	42
32	The Role of the Central Atom in Structure and Reactivity of Polyoxometalates with Adjacent d-Electron Metal Sites. Computational and Experimental Studies of Î³-[(Xn+O4)RuIII2(OH)2(MFM)10O32](8-n)-for MFM= Mo and W, and X = AlIII, SiIV, PV, and SVI. Journal of Physical Chemistry B, 2006, 110, 170-173.	2.6	42
33	Electron Exchange between Î±-Keggin Tungstoaluminates and a Well-Defined Cluster-Anion Probe for Studies in Electron Transfer. Inorganic Chemistry, 2005, 44, 8955-8966.	4.0	40
34	Computational Studies of the Geometry and Electronic Structure of an All-Inorganic and Homogeneous Tetra-Ru-Polyoxotungstate Catalyst for Water Oxidation and Its Four Subsequent One-Electron Oxidized Forms. Journal of Physical Chemistry A, 2010, 114, 535-542.	2.5	39
35	Stabilization of Polyoxometalate Water Oxidation Catalysts on Hematite by Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2017, 9, 35048-35056.	8.0	39
36	Polyoxometalates in the Design of Effective and Tunable Water Oxidation Catalysts. Israel Journal of Chemistry, 2011, 51, 238-246.	2.3	37

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37	Spectroscopic Studies of Light-driven Water Oxidation Catalyzed by Polyoxometalates. Industrial & Engineering Chemistry Research, 2012, 51, 11850-11859.	3.7	37
38	Catalysis of Peroxynitrite Reactions by Manganese and Iron Porphyrins. Nitric Oxide - Biology and Chemistry, 1997, 1, 507-521.	2.7	33
39	Vicinal Dinitridorutheniumâ€Substituted Polyoxometalates Î³â€{XW₁₀O₃₈{RuN}₂]^{6â^'} (X=Si or Ge). Chemistry - A European Journal, 2009, 15, 10233-10243.	3.3	33
40	Detailed Electrochemical Studies of the Tetraruthenium Polyoxometalate Water Oxidation Catalyst in Acidic Media: Identification of an Extended Oxidation Series using Fourier Transformed Alternating Current Voltammetry. Inorganic Chemistry, 2012, 51, 11521-11532.	4.0	33
41	Kinetics and mechanism of low-temperature ozone decomposition by Co-ions adsorbed on silica. Catalysis Today, 1999, 53, 715-723.	4.4	31
42	Mechanism of the Divanadium-Substituted Polyoxotungstate [Î³-1,2-H₂SiV₂W₁₀O₄₀]^{4â^'}Catalyzed Olefin Epoxidation by H₂O₂: A Computational Study. Inorganic Chemistry, 2009, 48, 1871-1878.	4.0	29
43	Oxidation of saturated hydrocarbons by hydrogen peroxide in pyridine solution catalysed by copper and iron perchlorates. Journal of the Chemical Society Chemical Communications, 1988, , 936.	2.0	27
44	Can the Ebselen Derivatives Catalyze the Isomerization of Peroxynitrite to Nitrate?. Journal of the American Chemical Society, 2003, 125, 3877-3888.	13.7	27
45	Asymmetric terminal ligation on substituted sites in a disorder-free Keggin anion, [Î²-SiFe2W10O36(OH)2(H2O)Cl]5â€“. Dalton Transactions, 2005, , 2017.	3.3	27
46	Complex catalysts from self-repairing ensembles to highly reactive air-based oxidation systems. Comptes Rendus Chimie, 2007, 10, 305-312.	0.5	27
47	Insights into Photoinduced Electron Transfer Between [Ru(mptpy)₂]⁴⁺ (mptpy) Tj ETQq1 1 0.784314 rgBT /C Computational and Experimental Studies. Journal of Physical Chemistry A, 2010, 114, 6284-6297.	2.5	27
48	Insights into the Mechanism of O₂ Formation and Release from the Mn₄O₄L₆ â€œCubaneâ€•Cluster. Journal of Physical Chemistry A, 2010, 114, 11417-11424.	2.5	27
49	Mediator Enhanced Water Oxidation Using Rb₄[Ru^{II}(bpy)₃]₅[{Ru^{III}₄O₄(OH)<sub>2</s Film Modified Electrodes. Inorganic Chemistry, 2014, 53, 7561-7570.	4.0	26
50	An Inorganic Chromophore Based on a Molecular Oxide Supported Metal Carbonyl Cluster: [P2W17O61{Re(CO)3}3{ORb(H2O)}(Î¼3-OH)]9â€“. Inorganic Chemistry, 2013, 52, 13490-13495.	4.0	24
51	New complexes and materials for O2-based oxidations. Journal of Molecular Catalysis A, 2006, 251, 234-238.	4.8	22
52	Late transition metal-oxo compounds and open-framework materials that catalyze aerobic oxidations. Advances in Inorganic Chemistry, 2008, , 245-272.	1.0	22
53	Multi-Tasking POM Systems. Frontiers in Chemistry, 2018, 6, 365.	3.6	22
54	Theoretical Studies of the Reaction Mechanisms of Dimethylsulfide and Dimethylselenide with Peroxynitrite. Journal of Physical Chemistry A, 2003, 107, 5862-5873.	2.5	21

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55	A Hexanuclear Cobalt(II) Cluster Incorporated in a Bananaâ€Shaped Tungstovanadate: [(Co(OH₂)Co₂VW₉O₃₄)₂(VW₆O₂₆)]<sup European Journal of Inorganic Chemistry, 2013, 2013, 1720-1725.	2.0	20
56	Speciation and Dynamics in the [Co₄V₂W₁₈O₆₈]^{10â€“}/Co(II)_{aq}/CoO<sub><i>x</i></su Catalytic Water Oxidation System. ACS Catalysis, 2018, 8, 11952-11959.	11.2	19
57	Synthesis, crystal structures, MÃ¶ssbauer spectra, and redox properties of binuclear and tetranuclear iron-sulfur nitrosyl clusters. Russian Chemical Bulletin, 2000, 49, 444-451.	1.5	18
58	Nitrogen-Atom Transfer from [PW₁₁O₃₉Ru^{VI}N]^{4â^'} to PPh₃. Inorganic Chemistry, 2009, 48, 9436-9443.	4.0	18
59	Bis(4â€²-(4-pyridyl)-2,2â€²:6â€²,2â€²â€²-terpyridine)ruthenium(ii) complexes and their N-alkylated derivatives in catalytic light-driven water oxidation. RSC Advances, 2013, 3, 20647.	3.6	18
60	Highly efficient and stable catalyst for peroxynitrite decomposition. Canadian Journal of Chemistry, 2001, 79, 792-794.	1.1	17
61	Oxidation of Reduced Keggin Heteropolytungstates by Dioxygen in Water Catalyzed by Cu(II). ACS Catalysis, 2015, 5, 7048-7054.	11.2	17
62	Mechanistic Studies of O₂-Based Sulfoxidations Catalyzed by NO_{<i>x</i>}/Br Systems. ACS Catalysis, 2011, 1, 1364-1370.	11.2	16
63	A dodecanuclear Zn cluster sandwiched by polyoxometalate ligands. Dalton Transactions, 2012, 41, 9908.	3.3	16
64	Collecting meaningful early-time kinetic data in homogeneous catalytic water oxidation with a sacrificial oxidant. Physical Chemistry Chemical Physics, 2014, 16, 11942-11949.	2.8	16
65	Tafel Slope Analyses for Homogeneous Catalytic Reactions. Catalysts, 2021, 11, 87.	3.5	16
66	Density Functional Study of the Roles of Chemical Composition of Di-Transition-Metal-Substituted Î³-Keggin Polyoxometalate Anions. Journal of Physical Chemistry B, 2006, 110, 5230-5237.	2.6	15
67	Di- and Tri-Cobalt Silicotungstates: Synthesis, Characterization, and Stability Studies. Inorganic Chemistry, 2013, 52, 1018-1024.	4.0	15
68	Does Peroxynitrite Partition between Aqueous and Gas Phases? Implication for Lipid Peroxidation. Chemical Research in Toxicology, 2001, 14, 1232-1238.	3.3	12
69	Peroxynitrite Reactions with Dimethylsulfide and Dimethylselenide:â€‰ An Experimental Study. Journal of Physical Chemistry A, 2004, 108, 289-294.	2.5	12
70	The Efficient Oxidation of Alkanes by Hydrogen Peroxide in Pyridine Mixed Solvents Catalysed by Copper and Other Transition Metal Salts. Mendeleev Communications, 1991, 1, 115-116.	1.6	10
71	A density functional study of geometry and electronic structures of [(SiO4)(MIII)2(OH)2W10O32]4â^', M=Mo, Ru and Rh. Journal of Molecular Catalysis A, 2007, 262, 227-235.	4.8	10
72	Synergetic Catalysis of Copper and Iron in Oxidation of Reduced Keggin Heteropolytungstates by Dioxygen. Inorganic Chemistry, 2018, 57, 311-318.	4.0	10

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73	Ionic-strength dependence of electron-transfer reactions of Keggin heteropolytungstates: Mechanistic probes of O2 activation in water. Journal of Molecular Catalysis A, 2006, 251, 255-262.	4.8	9
74	The role of the heteroatom (XÂ=ÂSiIV, PV, and SVI) on the reactivity of {Î³-[(H2O)RuIII(Î¼-OH)2RuIII(H2O)][X n+W10O36]}(8â˜'n)â˜' with the O2 molecule. Theoretical Chemistry Accounts, 2011, 130, 197-207.	1.4	9
75	Electron capture and transport by heteropolyanions: Multi-functional electrolytes for biomass-based fuel cells. Journal of Molecular Catalysis A, 2007, 262, 59-66.	4.8	8
76	Catalysis of ascorbic acid oxidation with peroxynitrite by biomimetic Cu -complexes. Reaction Kinetics and Catalysis Letters, 2002, 77, 277-285.	0.6	7
77	Catalysts for selective aerobic oxidation under ambient conditions. Catalysis By Metal Complexes, 2003, , 227-264.	0.6	7
78	Catalysts for Aerobic Decontamination of Chemical Warfare Agents under Ambient Conditions. ACS Symposium Series, 2007, , 198-209.	0.5	7
79	Multi-Electron-Transfer Catalysts Needed for Artificial Photosynthesis. Materials Research Society Symposia Proceedings, 2012, 1387, 1.	0.1	7
80	A solvent-free solid catalyst for the selective and color-indicating ambient-air removal of sulfur mustard. Communications Chemistry, 2021, 4, .	4.5	7
81	Cation Radicals of Heterocyclic N-Oxides and Their Reactions. Heterocycles, 1989, 28, 677.	0.7	7
82	Structurally Precise Two-Transition-Metal Water Oxidation Catalysts: Quantifying Adjacent 3d Metals by Synchrotron X-Radiation Anomalous Dispersion Scattering. Inorganic Chemistry, 2022, 61, 6252-6262.	4.0	7
83	Cation-radical of pyridine N-oxide and its reactions with Câ˜'H bonds. Reaction Kinetics and Catalysis Letters, 1988, 37, 307-312.	0.6	6
84	Effects of Competitive Active-Site Ligand Binding on Proton- and Electron-Transfer Properties of the [Co4(H2O)2(PW9O34)2]10â˜' Polyoxometalate Water Oxidation Catalyst. Journal of Cluster Science, 2017, 28, 839-852.	3.3	6
85	Aerobic oxidation of glycerol catalyzed by M salts of PMo12O403-(M = K+, Zn2+, Cu2+, Al3+, Cr3+, Fe3+). Applied Catalysis A: General, 2019, 579, 52-57.	4.3	6
86	Heterogenization of polyoxometalates as solid catalysts in aerobic oxidation of glycerol. Catalysis Science and Technology, 2020, 10, 3771-3781.	4.1	6
87	Studies on the Mechanism of Gif Reactions. , 1993, , 225-242.		6
88	Interfacial charge transfer dynamics in TiO 2 -sensitizer-Ru 4 POM photocatalytic systems for water oxidation. , 2011, , .		5
89	In Situ Recrystallization of Polyoxometalates: From 0D Architectures to 2D Inorganicâ€"Organic Hybrids. European Journal of Inorganic Chemistry, 2013, 2013, 1827-1834.	2.0	4
90	Phenazinee di-N-oxide radical cation and its reactions with hydrocarbons. Russian Chemical Bulletin, 1996, 45, 1889-1895.	1.5	3

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91	Highly efficient and stable catalyst for peroxynitrite decomposition. Canadian Journal of Chemistry, 2001, 79, 792-794.	1.1	3
92	Mechanism and parameters of oxidation of alkylaromatic hydrocarbons in the presence of cobalt and bromine ions. Petroleum Chemistry: USSR (English Translation of Neftekhimiya), 1978, 18, 145-153.	0.0	2
93	Oxidation rate of saturated hydrocarbons by permanganate in aqueous solutions. Bulletin of the Academy of Sciences of the USSR Division of Chemical Science, 1982, 31, 1473-1474.	0.0	1
94	Route of autooxidation of organic compounds through a metal ion and bromide catalysis. Petroleum Chemistry: USSR (English Translation of Neftekhimiya), 1986, 26, 234-246.	0.0	1
95	Electrogenerated cation radicals of heteroaromatic N-oxides and oxidation of cyclohexane induced by them. Bulletin of the Academy of Sciences of the USSR Division of Chemical Science, 1990, 39, 886-890.	0.0	1
96	Oxidation of Ethylbenzene by Phenazine-Di-N-Oxide Radical Cation. Studies in Surface Science and Catalysis, 1991, 66, 641-647.	1.5	1
97	Formation and redox properties of a complex of phenazine di-N-oxide with a proton. Bulletin of the Russian Academy of Sciences Division of Chemical Science, 1992, 41, 655-659.	0.0	1
98	Phenazine Di-N-toxide Radical Cation Reactions with Secondary Amines. Evidence for Oxygen Cation Transfer. Mendeleev Communications, 1993, 3, 142-143.	1.6	1
99	Evaluation of antioxidant activity using peroxynitrite as a source of radicals. Methods in Enzymology, 2002, 359, 366-379.	1.0	1
100	Structural and mechanistic studies of tunable, stable, fast multi-cobalt water oxidation catalysts. Proceedings of SPIE, 2011, , .	0.8	1
101	Computational Modeling of Di-Transition-Metal-Substituted ?-Keggin Polyoxometalate Anions. Structural Refinement of the Protonated Divacant Lacunary Silicodecatungstate.. ChemInform, 2005, 36, no.	0.0	0
102	Multi-electron Transfer Catalysts for Air-Based Organic Oxidations and Water Oxidation. NATO Science for Peace and Security Series B: Physics and Biophysics, 2012, , 229-242.	0.3	0
103	Polyoxometalate systems to probe catalyst environment and structure in water oxidation catalysis. Advances in Inorganic Chemistry, 2022, , 351-372.	1.0	0
104	Insights into the Mechanism of H2O2-based Olefin Epoxidation Catalyzed by the Lacunary [Î³-(SiO4) W10O32H4]4â^'and di-V-substituted-Î³-Keggin [Î³-1,2-H2SiV2W10O40]4â^' Polyoxometalates. A Computational Study. , 0, , 215-230.		0