

Ira A Weinstock

List of Publications by Year in descending order

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68
papers

3,050
citations

159585

30
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161849

54
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74
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74
docs citations

74
times ranked

2612
citing authors

#	ARTICLE	IF	CITATIONS
1	Dioxygen in Polyoxometalate Mediated Reactions. <i>Chemical Reviews</i> , 2018, 118, 2680-2717.	47.7	272
2	Polyoxometalate-decorated nanoparticles. <i>Chemical Society Reviews</i> , 2012, 41, 7479.	38.1	215
3	Equilibrating metal-oxide cluster ensembles for oxidation reactions using oxygen in water. <i>Nature</i> , 2001, 414, 191-195.	27.8	185
4	Equilibria between $\hat{1}\pm$ and $\hat{1}^2$ Isomers of Keggin Heteropolytungstates. <i>Journal of the American Chemical Society</i> , 1999, 121, 4608-4617.	13.7	154
5	Role of Alkali Metal Cation Size in the Energy and Rate of Electron Transfer to Solvent-Separated 1:1 [(M+)(Acceptor)] (M+= Li+, Na+, K+) Ion Pairs. <i>Journal of the American Chemical Society</i> , 2001, 123, 5292-5307.	13.7	152
6	Role of Cation Size in the Energy of Electron Transfer to 1:1 Polyoxometalate Ion Pairs {(M+)(Xn+VW11O40)}(8-n)- (M = Li, Na, K). <i>Journal of the American Chemical Society</i> , 2000, 122, 3544-3545.	13.7	113
7	The True Nature of the Di-iron(III) $\hat{1}^3$ -Keggin Structure in Water: A Catalytic Aerobic Oxidation and Chemistry of an Unsymmetrical Trimer. <i>Journal of the American Chemical Society</i> , 2006, 128, 11268-11277.	13.7	105
8	Self-Assembly and Structure of Directly Imaged Inorganic-Anion Monolayers on a Gold Nanoparticle. <i>Journal of the American Chemical Society</i> , 2009, 131, 17412-17422.	13.7	102
9	Flexible Pores of a Metal Oxide-Based Capsule Permit Entry of Comparatively Larger Organic Guests. <i>Journal of the American Chemical Society</i> , 2009, 131, 6380-6382.	13.7	102
10	Catalysis in a Porous Molecular Capsule: Activation by Regulated Access to Sixty Metal Centers Spanning a Truncated Icosahedron. <i>Journal of the American Chemical Society</i> , 2012, 134, 13082-13088.	13.7	81
11	Formation, Isomerization, and Derivatization of Keggin Tungstoaluminates. <i>Inorganic Chemistry</i> , 2001, 40, 6666-6675.	4.0	73
12	Reduction of O ₂ to Superoxide Anion (O ₂ ^{•-}) in Water by Heteropolytungstate Cluster-Anions. <i>Journal of the American Chemical Society</i> , 2006, 128, 17033-17042.	13.7	72
13	Nucleation and Island Growth of Alkanethiolate Ligand Domains on Gold Nanoparticles. <i>ACS Nano</i> , 2012, 6, 629-640.	14.6	72
14	On the trail of dioxygen activation. <i>Nature</i> , 1997, 388, 332-333.	27.8	66
15	A Spherical 24% Butyrate Aggregate with a Hydrophobic Cavity in a Capsule with Flexible Pores: Confinement Effects and Uptake/Release Equilibria at Elevated Temperatures. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8051-8056.	13.8	65
16	Host/guest chemistry with water-soluble gold nanoparticle supraspheres. <i>Nature Nanotechnology</i> , 2017, 12, 170-176.	31.5	62
17	Design of an inherently-stable water oxidation catalyst. <i>Nature Communications</i> , 2018, 9, 4896.	12.8	60
18	A regioselective Huisgen reaction inside a Keplerate polyoxomolybdate nanoreactor. <i>Dalton Transactions</i> , 2012, 41, 9852.	3.3	54

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19	Water-soluble titanium-oxides: Complexes, clusters and nanocrystals. <i>Coordination Chemistry Reviews</i> , 2019, 382, 85-102.	18.8	54
20	Guests on Different Internal Capsule Sites Exchange with Each Other and with the Outside. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 410-414.	13.8	53
21	Dimerization of A ^{1±} -[SiNb ₃ W ₉ O ₄₀] ⁷⁻ by pH-Controlled Formation of Individual Nb ^{1/4} -O ^{1/4} -Nb Linkages. <i>Inorganic Chemistry</i> , 2003, 42, 5537-5544.	4.0	51
22	Visible-Light-Driven Water Oxidation with a Polyoxometalate-Complexed Hematite Core of 275 Iron Atoms. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6584-6589.	13.8	51
23	Cation mediated self-assembly of inorganic cluster anion building blocks. <i>Dalton Transactions</i> , 2010, 39, 6143.	3.3	48
24	Direct Imaging of the Ligand Monolayer on an Anion-Protected Metal Nanoparticle through Cryogenic Trapping of its Solution-State Structure. <i>Journal of the American Chemical Society</i> , 2008, 130, 16480-16481.	13.7	45
25	Concerted Proton-Electron Transfer to Dioxygen in Water. <i>Journal of the American Chemical Society</i> , 2010, 132, 11678-11691.	13.7	45
26	Stability and Structure in ^{1±} - and ¹² -Keggin Heteropolytungstates, [X _n +W ₁₂ O ₄₀](8-n)-, X = p-Block Cation. <i>Inorganic Chemistry</i> , 2002, 41, 6950-6952.	4.0	44
27	Polyoxometalate Complexes of Anatase-Titanium Dioxide Cores in Water. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12416-12421.	13.8	43
28	Role of the Alkali-Metal Cation Size in the Self-Assembly of Polyoxometalate-Monolayer Shells on Gold Nanoparticles. <i>Inorganic Chemistry</i> , 2012, 51, 7436-7438.	4.0	41
29	Electron Exchange between ^{1±} -Keggin Tungstoaluminates and a Well-Defined Cluster-Anion Probe for Studies in Electron Transfer. <i>Inorganic Chemistry</i> , 2005, 44, 8955-8966.	4.0	40
30	Influence of Polyoxometalate Protecting Ligands on Catalytic Aerobic Oxidation at the Surfaces of Gold Nanoparticles in Water. <i>Inorganic Chemistry</i> , 2017, 56, 2400-2408.	4.0	35
31	Soluble Complexes of Cobalt Oxide Fragments Bring the Unique CO ₂ Photoreduction Activity of a Bulk Material into the Flexible Domain of Molecular Science. <i>Journal of the American Chemical Society</i> , 2021, 143, 20769-20778.	13.7	30
32	Stepwise-Resolved Thermodynamics of Hydrophobic Self-Assembly. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8358-8362.	13.8	28
33	Relative Energies of ^{1±} and ¹² Isomers of Keggin Dodecatungstogallate. <i>Inorganic Chemistry</i> , 2006, 45, 958-960.	4.0	26
34	The Uptake and Assembly of Alkanes within a Porous Nanocapsule in Water: New Information about Hydrophobic Confinement. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4476-4481.	13.8	26
35	Outer-Sphere Oxidation of the Superoxide Radical Anion. <i>Inorganic Chemistry</i> , 2008, 47, 404-406.	4.0	22
36	Amplified Rate Acceleration by Simultaneous Up-Regulation of Multiple Active Sites in an Endo-Functionalized Porous Capsule. <i>Journal of the American Chemical Society</i> , 2015, 137, 12740-12743.	13.7	22

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37	Solution-State Catalysis of Visible Light-Driven Water Oxidation by Macroanion-Like Inorganic Complexes of Fe^{3+} -FeOOH Nanocrystals. ACS Catalysis, 2021, 11, 11385-11395.	11.2	22
38	Orientations of polyoxometalate anions on gold nanoparticles. Dalton Transactions, 2012, 41, 9849.	3.3	20
39	Densely Packed Hydrophobic Clustering: Encapsulated Valerates Form a High-Temperature-Stable Mo_{132} Capsule System. Angewandte Chemie - International Edition, 2016, 55, 6634-6637.	13.8	18
40	Counterintuitive Adsorption of $[\text{PW}_{11}\text{O}_{39}]^{7-}$ on Au(100). Inorganic Chemistry, 2017, 56, 3961-3969.	4.0	18
41	Reversible binding of an inorganic cluster-anion to the surface of a gold nanoparticle. Inorganica Chimica Acta, 2010, 363, 4416-4420.	2.4	17
42	Ligand-Shell-Directed Assembly and Depolymerization of Patchy Nanoparticles. Angewandte Chemie - International Edition, 2013, 52, 968-972.	13.8	16
43	Regioselective placement of alkanethiolate domains on tetrahedral and octahedral gold nanocrystals. Chemical Communications, 2012, 48, 9765.	4.1	14
44	Polyoxometalate Complexes of Anatase-Titanium Dioxide Cores in Water. Angewandte Chemie, 2015, 127, 12593-12598.	2.0	14
45	Visible-Light-Driven Water Oxidation with a Polyoxometalate-Complexed Hematite Core of 275 Iron Atoms. Angewandte Chemie, 2019, 131, 6656-6661.	2.0	14
46	Polyoxometalate-directed assembly of water-soluble AgCl nanocubes. Chemical Communications, 2012, 48, 2207.	4.1	12
47	Polyoxometalate-Engineered Building Blocks with Gold Cores for the Self-Assembly of Responsive Water-Soluble Nanostructures. Angewandte Chemie - International Edition, 2017, 56, 7083-7087.	13.8	12
48	Alcohols as Latent Hydrophobes: Entropically Driven Uptake of 1,2-Diol Functionalized Ligands by a Porous Capsule in Water. Journal of the American Chemical Society, 2019, 141, 9170-9174.	13.7	12
49	Hexaniobate Cluster Anion Monolayers on Gold Nanoparticles: A New Structural Role for Alkali Metal Counteranions. Inorganic Chemistry, 2019, 58, 1012-1015.	4.0	12
50	Self-Assembly and Ionic-Lattice-like Secondary Structure of a Flexible Linear Polymer of Highly Charged Inorganic Building Blocks. Journal of the American Chemical Society, 2020, 142, 7295-7300.	13.7	12
51	Selective Oxidation by $\text{H}_5\text{PV}_2\text{Mo}_{10}\text{O}_{40}$ in a Highly Acidic Medium. Inorganic Chemistry, 2020, 59, 11945-11952.	4.0	11
52	The Uptake and Assembly of Alkanes within a Porous Nanocapsule in Water: New Information about Hydrophobic Confinement. Angewandte Chemie, 2016, 128, 4552-4557.	2.0	10
53	Ionic-strength dependence of electron-transfer reactions of Keggin heteropolytungstates: Mechanistic probes of O_2 activation in water. Journal of Molecular Catalysis A, 2006, 251, 255-262.	4.8	9
54	Electrocatalysis by Polyoxometalate-Protected Gold Nanoparticles. Journal of Cluster Science, 2014, 25, 771-779.	3.3	8

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55	Ligand-Regulated Uptake of Dipolar-Aromatic Guests by Hydrophobically Assembled Suprasphere Hosts. <i>Journal of the American Chemical Society</i> , 2019, 141, 14078-14082.	13.7	7
56	Polyoxometalate-Complexed Indium Hydroxide: Atomically Homogeneous Impregnation via Counteranion Exchange. <i>Inorganic Chemistry</i> , 2022, , .	4.0	7
57	The Reduction of Dioxygen by Keggin Heteropolytungstates. <i>Israel Journal of Chemistry</i> , 2011, 51, 247-258.	2.3	6
58	A Simple Coulombic Model for ^{31}P NMR Spectra of Cluster-Encapsulated Phosphorus Atoms. <i>Inorganic Chemistry</i> , 2019, 58, 8877-8883.	4.0	5
59	Investigation into $\text{La}(\text{Fe}/\text{Mn})\text{O}_{3-x}$ Perovskites Formation over Time during Molten Salt Synthesis. <i>Inorganic Chemistry</i> , 2022, 61, 6367-6375.	4.0	5
60	All-inorganic ferric wheel based on hexaniobate-anion linkers. <i>Dalton Transactions</i> , 2022, 51, 8600-8604.	3.3	5
61	Polyoxometalate-Engineered Building Blocks with Gold Cores for the Self-Assembly of Responsive Water-Soluble Nanostructures. <i>Angewandte Chemie</i> , 2017, 129, 7189-7193.	2.0	3
62	Dimension-Controlled Dewetting in Hydrophobic Porous Nanocapsules. <i>Journal of Physical Chemistry C</i> , 2020, 124, 10201-10208.	3.1	3
63	POLYOXOMETALATE-PROTECTED METAL NANOPARTICLES: SYNTHESIS, STRUCTURE AND CATALYSIS. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2013, , 1-47.	0.1	1
64	Addressing a "Black Box" of Bottom-Up Synthesis: Revealing the Structures of Growing Colloidal-Nanocrystal Nuclei. <i>Inorganic Chemistry</i> , 2015, 54, 10521-10523.	4.0	1
65	Densely Packed Hydrophobic Clustering: Encapsulated Valerates Form a High-Temperature-Stable $\{\text{Mo}_{132}\}$ Capsule System. <i>Angewandte Chemie</i> , 2016, 128, 6746-6749.	2.0	1
66	Proton-coupled electron transfer from photo-excited CdS nanoparticles. <i>Journal of Coordination Chemistry</i> , 2018, 71, 2012-2024.	2.2	1
67	Innen- und Außentitelbild: Stepwise-Resolved Thermodynamics of Hydrophobic Self-Assembly (<i>Angew. Chem.</i>) Tj ETQq1 1,0.784314 rgBT / 0 2.0	2.0	0
68	Titelbild: Densely Packed Hydrophobic Clustering: Encapsulated Valerates Form a High-Temperature-Stable $\{\text{Mo}_{132}\}$ Capsule System (<i>Angew. Chem.</i> 23/2016). <i>Angewandte Chemie</i> , 2016, 128, 6673-6673.	2.0	0