Ira A Weinstock

List of Publications by Year
in descending order

68 papers	3,050 citations	182225 30 h-index	182931 54 g-index
74 all docs	74 docs citations	74 times ranked	2925 citing authors

#	Article	IF	Citations
1	Polyoxometalate-Complexed Indium Hydroxide: Atomically Homogeneous Impregnation via Countercation Exchange. Inorganic Chemistry, 2022, , .	1.9	7
2	Investigation into La(Fe/Mn)O₃ Perovskites Formation over Time during Molten Salt Synthesis. Inorganic Chemistry, 2022, 61, 6367-6375.	1.9	5
3	All-inorganic ferric wheel based on hexaniobate-anion linkers. Dalton Transactions, 2022, 51, 8600-8604.	1.6	5
4	Solution-State Catalysis of Visible Light-Driven Water Oxidation by Macroanion-Like Inorganic Complexes of Î³-FeOOH Nanocrystals. ACS Catalysis, 2021, 11, 11385-11395.	5.5	22
5	Soluble Complexes of Cobalt Oxide Fragments Bring the Unique CO₂ Photoreduction Activity of a Bulk Material into the Flexible Domain of Molecular Science. Journal of the American Chemical Society, 2021, 143, 20769-20778.	6.6	30
6	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.	6.6	12
7	Selective Oxidation by H₅[PV₂Mo₁₀O₄₀] in a Highly Acidic Medium. Inorganic Chemistry, 2020, 59, 11945-11952.	1.9	11
8	Dimension-Controlled Dewetting in Hydrophobic Porous Nanocapsules. Journal of Physical Chemistry C, 2020, 124, 10201-10208.	1.5	3
9	Ligand-Regulated Uptake of Dipolar-Aromatic Guests by Hydrophobically Assembled Suprasphere Hosts. Journal of the American Chemical Society, 2019, 141, 14078-14082.	6.6	7
10	A Simple Coulombic Model for 31P NMR Spectra of Cluster-Encapsulated Phosphorus Atoms. Inorganic Chemistry, 2019, 58, 8877-8883.	1.9	5
11	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.	6.6	12
12	Visibleâ€Lightâ€Driven Water Oxidation with a Polyoxometalateâ€Complexed Hematite Core of 275â€…Iron Atoms. Angewandte Chemie - International Edition, 2019, 58, 6584-6589.	7.2	51
13	Visibleâ€Lightâ€Driven Water Oxidation with a Polyoxometalateâ€Complexed Hematite Core of 275â€…Iron Atoms. Angewandte Chemie, 2019, 131, 6656-6661.	1.6	14
14	Water-soluble titanium-oxides: Complexes, clusters and nanocrystals. Coordination Chemistry Reviews, 2019, 382, 85-102.	9.5	54
15	Hexaniobate Cluster Anion Monolayers on Gold Nanoparticles: A New Structural Role for Alkali Metal Countercations. Inorganic Chemistry, 2019, 58, 1012-1015.	1.9	12
16	Dioxygen in Polyoxometalate Mediated Reactions. Chemical Reviews, 2018, 118, 2680-2717.	23.0	272
17	Design of an inherently-stable water oxidation catalyst. Nature Communications, 2018, 9, 4896.	5.8	60
18	Proton-coupled electron transfer from photo-excited CdS nanoparticles. Journal of Coordination Chemistry, 2018, 71, 2012-2024.	0.8	1

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19	Polyoxometalateâ€Engineered Building Blocks with Gold Cores for the Selfâ€Assembly of Responsive Waterâ€Soluble Nanostructures. Angewandte Chemie - International Edition, 2017, 56, 7083-7087.	7.2	12
20	Polyoxometalateâ€Engineered Building Blocks with Gold Cores for the Selfâ€Assembly of Responsive Waterâ€Soluble Nanostructures. Angewandte Chemie, 2017, 129, 7189-7193.	1.6	3
21	Counterintuitive Adsorption of [PW₁₁O₃₉]^{7â€“} on Au(100). Inorganic Chemistry, 2017, 56, 3961-3969.	1.9	18
22	Influence of Polyoxometalate Protecting Ligands on Catalytic Aerobic Oxidation at the Surfaces of Gold Nanoparticles in Water. Inorganic Chemistry, 2017, 56, 2400-2408.	1.9	35
23	Hostâ€“guest chemistry with water-soluble gold nanoparticle supraspheres. Nature Nanotechnology, 2017, 12, 170-176.	15.6	62
24	The Uptake and Assembly of Alkanes within a Porous Nanocapsule in Water: New Information about Hydrophobic Confinement. Angewandte Chemie - International Edition, 2016, 55, 4476-4481.	7.2	26
25	The Uptake and Assembly of Alkanes within a Porous Nanocapsule in Water: New Information about Hydrophobic Confinement. Angewandte Chemie, 2016, 128, 4552-4557.	1.6	10
26	Densely Packed Hydrophobic Clustering: Encapsulated Valerates Form a Highâ€Temperatureâ€Stable {Mo₁₃₂} Capsule System. Angewandte Chemie, 2016, 128, 6746-6749.	1.6	1
27	Titelbild: Densely Packed Hydrophobic Clustering: Encapsulated Valerates Form a Highâ€Temperatureâ€Stable {Mo₁₃₂} Capsule System (Angew. Chem. 23/2016). Angewandte Chemie, 2016, 128, 6673-6673.	1.6	0
28	Densely Packed Hydrophobic Clustering: Encapsulated Valerates Form a Highâ€Temperatureâ€Stable {Mo₁₃₂} Capsule System. Angewandte Chemie - International Edition, 2016, 55, 6634-6637.	7.2	18
29	Polyoxometalate Complexes of Anataseâ€Titanium Dioxide Cores in Water. Angewandte Chemie, 2015, 127, 12593-12598.	1.6	14
30	Polyoxometalate Complexes of Anataseâ€Titanium Dioxide Cores in Water. Angewandte Chemie - International Edition, 2015, 54, 12416-12421.	7.2	43
31	Amplified Rate Acceleration by Simultaneous Up-Regulation of Multiple Active Sites in an Endo-Functionalized Porous Capsule. Journal of the American Chemical Society, 2015, 137, 12740-12743.	6.6	22
32	Addressing a â€œBlack Boxâ€•of Bottom-Up Synthesis: Revealing the Structures of Growing Colloidal-Nanocrystal Nuclei. Inorganic Chemistry, 2015, 54, 10521-10523.	1.9	1
33	Electrocatalysis by Polyoxometalate-Protected Gold Nanoparticles. Journal of Cluster Science, 2014, 25, 771-779.	1.7	8
34	Ligandâ€Shellâ€Directed Assembly and Depolymerization of Patchy Nanoparticles. Angewandte Chemie - International Edition, 2013, 52, 968-972.	7.2	16
35	Stepwiseâ€Resolved Thermodynamics of Hydrophobic Selfâ€Assembly. Angewandte Chemie - International Edition, 2013, 52, 8358-8362.	7.2	28
36	POLYOXOMETALATE-PROTECTED METAL NANOPARTICLES: SYNTHESIS, STRUCTURE AND CATALYSIS. World Scientific Series in Nanoscience and Nanotechnology, 2013, , 1-47.	0.1	1

#	Article	IF	Citations
37	InnenrÃ¼cktitelbild: Stepwise-Resolved Thermodynamics of Hydrophobic Self-Assembly (Angew. Chem.) Tj ETQq1 1 0.784314 rgBT /O	1.6	0
38	Regioselective placement of alkanethiolate domains on tetrahedral and octahedral gold nanocrystals. Chemical Communications, 2012, 48, 9765.	2.2	14
39	Orientations of polyoxometalate anions on gold nanoparticles. Dalton Transactions, 2012, 41, 9849.	1.6	20
40	Role of the Alkali-Metal Cation Size in the Self-Assembly of Polyoxometalate-Monolayer Shells on Gold Nanoparticles. Inorganic Chemistry, 2012, 51, 7436-7438.	1.9	41
41	Polyoxometalate-decorated nanoparticles. Chemical Society Reviews, 2012, 41, 7479.	18.7	215
42	Nucleation and Island Growth of Alkanethiolate Ligand Domains on Gold Nanoparticles. ACS Nano, 2012, 6, 629-640.	7.3	72
43	Polyoxometalate-directed assembly of water-soluble AgCl nanocubes. Chemical Communications, 2012, 48, 2207.	2.2	12
44	A regioselective Huisgen reaction inside a Keplerate polyoxomolybdate nanoreactor. Dalton Transactions, 2012, 41, 9852.	1.6	54
45	Catalysis in a Porous Molecular Capsule: Activation by Regulated Access to Sixty Metal Centers Spanning a Truncated Icosahedron. Journal of the American Chemical Society, 2012, 134, 13082-13088.	6.6	81
46	The Reduction of Dioxygen by Keggin Heteropolytungstates. Israel Journal of Chemistry, 2011, 51, 247-258.	1.0	6
47	Guests on Different Internal Capsule Sites Exchange with Each Other and with the Outside. Angewandte Chemie - International Edition, 2011, 50, 410-414.	7.2	53
48	Reversible binding of an inorganic cluster-anion to the surface of a gold nanoparticle. Inorganica Chimica Acta, 2010, 363, 4416-4420.	1.2	17
49	Cation mediated self-assembly of inorganic cluster anion building blocks. Dalton Transactions, 2010, 39, 6143.	1.6	48
50	Concerted Protonâ°'Electron Transfer to Dioxygen in Water. Journal of the American Chemical Society, 2010, 132, 11678-11691.	6.6	45
51	A Spherical 24â€‰Butyrate Aggregate with a Hydrophobic Cavity in a Capsule with Flexible Pores: Confinement Effects and Uptakeâ€"Release Equilibria at Elevated Temperatures. Angewandte Chemie - International Edition, 2009, 48, 8051-8056.	7.2	65
52	Self-Assembly and Structure of Directly Imaged Inorganic-Anion Monolayers on a Gold Nanoparticle. Journal of the American Chemical Society, 2009, 131, 17412-17422.	6.6	102
53	Flexible Pores of a Metal Oxide-Based Capsule Permit Entry of Comparatively Larger Organic Guests. Journal of the American Chemical Society, 2009, 131, 6380-6382.	6.6	102
54	Outer-Sphere Oxidation of the Superoxide Radical Anion. Inorganic Chemistry, 2008, 47, 404-406.	1.9	22

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55	Direct Imaging of the Ligand Monolayer on an Anion-Protected Metal Nanoparticle through Cryogenic Trapping of its Solution-State Structure. Journal of the American Chemical Society, 2008, 130, 16480-16481.	6.6	45
56	Relative Energies of Î± and Î² Isomers of Keggin Dodecatungstogallate. Inorganic Chemistry, 2006, 45, 958-960.	1.9	26
57	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.	6.6	105
58	Reduction of O2to Superoxide Anion (O2â€¢-) in Water by Heteropolytungstate Cluster-Anions. Journal of the American Chemical Society, 2006, 128, 17033-17042.	6.6	72
59	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
60	Electron Exchange between Î±-Keggin Tungstoaluminates and a Well-Defined Cluster-Anion Probe for Studies in Electron Transfer. Inorganic Chemistry, 2005, 44, 8955-8966.	1.9	40
61	Dimerization of A-Î±-[SiNb3W9O40]7-by pH-Controlled Formation of Individual Nbâ^'Î¼-Oâ^'Nb Linkages. Inorganic Chemistry, 2003, 42, 5537-5544.	1.9	51
62	Stability and Structure in Î±- and Î²-Keggin Heteropolytungstates, [Xn+W12O40](8-n)-, X = p-Block Cation. Inorganic Chemistry, 2002, 41, 6950-6952.	1.9	44
63	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. Journal of the American Chemical Society, 2001, 123, 5292-5307.	6.6	152
64	Formation, Isomerization, and Derivatization of Keggin Tungstoaluminates. Inorganic Chemistry, 2001, 40, 6666-6675.	1.9	73
65	Equilibrating metal-oxide cluster ensembles for oxidation reactions using oxygen in water. Nature, 2001, 414, 191-195.	13.7	185
66	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). Journal of the American Chemical Society, 2000, 122, 3544-3545.	6.6	113
67	Equilibria between Î± and Î² Isomers of Keggin Heteropolytungstates. Journal of the American Chemical Society, 1999, 121, 4608-4617.	6.6	154
68	On the trail of dioxygen activation. Nature, 1997, 388, 332-333.	13.7	66