

Wei-Lin Chen

List of Publications by Year in descending order

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docs citations

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times ranked

3347
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#	ARTICLE	IF	CITATIONS
1	A tri-vanadium-capped Keggin phosphomolybdate: synthesis, characterization, photocatalytic and bifunctional electrocatalytic properties. <i>Tungsten</i> , 2022, 4, 99-108.	4.8	6
2	Defected MoS ₂ Modified by Vanadium-Substituted Keggin-Type Polyoxometalates as Electrocatalysts for Triiodide Reduction in Dye-Sensitized Solar Cells. <i>Inorganic Chemistry</i> , 2022, 61, 422-430.	4.0	3
3	Light induced ammonia synthesis by crystalline polyoxometalate-based hybrid frameworks coupled with the Sv-1T MoS ₂ cocatalyst. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 3828-3838.	6.0	7
4	Multimetal-based nitrogen doped carbon nanotubes bifunctional electrocatalysts for triiodide reduction and water-splitting synthesized from polyoxometalate- intercalated layered double hydroxide pyrolysis strategy. <i>Applied Catalysis B: Environmental</i> , 2021, 280, 119421.	20.2	36
5	The dual effect of inorganic fullerene-like {Mo ₁₃₂ } doped with SnO ₂ for efficient perovskite-based photodetectors. <i>Materials Chemistry Frontiers</i> , 2021, 5, 6931-6940.	5.9	5
6	Heteropoly Blue/Protonation-Defective Graphitic Carbon Nitride Heterojunction for the Photo-Driven Nitrogen Reduction Reaction. <i>Inorganic Chemistry</i> , 2021, 60, 5829-5839.	4.0	17
7	Polyoxometalate-Based Metal-Organic Framework/Polypyrrole Composites toward Enhanced Supercapacitor Performance. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 2063-2069.	2.0	12
8	Strategic Design of a Bifunctional NiFeCoW@NC Hybrid to Replace the Noble Platinum for Dye-Sensitized Solar Cells and Hydrogen Evolution Reactions. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 25010-25023.	8.0	17
9	Polyoxometalates-Based Semi-flexible Metal-Semiconductor Triboelectric Nanogenerators for Low Frequency and Small Amplitude Mechanical Energy Harvesting. <i>Chemistry - A European Journal</i> , 2021, 27, 10115-10122.	3.3	8
10	Transparent photodetectors based on polyoxometalate modified electrospun ZnO homojunction nanowire intersection arrays. <i>Materials Chemistry Frontiers</i> , 2021, 6, 15-23.	5.9	7
11	Polyoxometalate-Derived Multi-Component X/W ₂ C@X _N (X=Co, Si, Ge, B, and P) Nanoelectrocatalysts for Efficient Triiodide Reduction in Dye-Sensitized Solar Cells. <i>Chemistry - A European Journal</i> , 2020, 26, 4104-4111.	3.3	17
12	Keggin and Dawson polyoxometalates as electrodes for flexible and transparent piezoelectric nanogenerators to efficiently utilize mechanical energy in the environment. <i>Science Bulletin</i> , 2020, 65, 35-44.	9.0	28
13	Interfacial self-assembly engineering for constructing a 2D flexible superlattice polyoxometalate/rGO heterojunction for high-performance photovoltaic devices. <i>Dalton Transactions</i> , 2020, 49, 3766-3774.	3.3	11
14	Polyoxometalate film simultaneously converts multiple low-value all-weather environmental energy to electricity. <i>Nano Energy</i> , 2020, 68, 104349.	16.0	18
15	Polyoxometalate modified all-weather solar cells for energy harvesting. <i>Electrochimica Acta</i> , 2020, 330, 135215.	5.2	12
16	Ferroelectric polyoxometalate-modified nano semiconductor TiO ₂ for increasing electron lifetime and inhibiting electron recombination in dye-sensitized solar cells. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 3072-3080.	6.0	13
17	Nitrogen-doped carbon encapsulating ¹³ -MoC/Ni nanoparticles as efficient counter electrodes for dye-sensitized solar cells. <i>Journal of Coordination Chemistry</i> , 2020, 73, 2621-2631.	2.2	3
18	Highly dispersed redox-active polyoxometalates™ periodic deposition on multi-walled carbon nanotubes for boosting electrocatalytic triiodide reduction in dye-sensitized solar cells. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 1676-1684.	6.0	17

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19	Keggin-type Polyoxometalate-Based ZIF-67 for Enhanced Photocatalytic Nitrogen Fixation. <i>ChemSusChem</i> , 2020, 13, 2769-2778.	6.8	59
20	Keggin-type polyoxometalate/thiospinel octahedron heterostructures for photoelectronic devices. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 2621-2628.	6.0	11
21	Hierarchical Structure Superlattice $P_{2 \times 2}Mo_{18}/MoS_2@C$ Nanocomposites: A Kind of Efficient Counter Electrode Materials for Dye-Sensitized Solar Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 5824-5834.	5.1	30
22	Reduced State of the Graphene Oxide@Polyoxometalate Nanocatalyst Achieving High-Efficiency Nitrogen Fixation under Light Driving Conditions. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37927-37938.	8.0	45
23	Synthesis of copper(II)-imidazole complex modified sandwich-type polyoxometalates for enhancing the power conversion efficiency in dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2019, 168, 151-159.	3.7	10
24	Multifunctional keplerate-type polyoxometalate-organic polymer composite films for interface engineering in perovskite photodetectors. <i>Dyes and Pigments</i> , 2019, 166, 174-180.	3.7	9
25	Multi-functional rare earth-containing polyoxometalates achieving high-efficiency tumor therapy and visual fluorescence monitoring. <i>Inorganic Chemistry Communication</i> , 2019, 104, 40-47.	3.9	11
26	Dawson-type polyoxometalate-based vacancies $g-C_3N_4$ composite-nanomaterials for efficient photocatalytic nitrogen fixation. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 3315-3326.	6.0	32
27	Polyoxometalates in dye-sensitized solar cells. <i>Chemical Society Reviews</i> , 2019, 48, 260-284.	38.1	261
28	A Strategy to Obtain Long-Term Stable Heteropoly Blues for Photosensitive Property Investigations. <i>Advanced Optical Materials</i> , 2018, 6, 1800225.	7.3	25
29	Graphene with cobalt oxide and tungsten carbide as a low-cost counter electrode catalyst applied in Pt-free dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2018, 380, 18-25.	7.8	49
30	A strategy for highly dispersed Mo ₂ C/MoN hybrid nitrogen-doped graphene via ion-exchange resin synthesis for efficient electrocatalytic hydrogen reduction. <i>Nano Research</i> , 2018, 11, 4535-4548.	10.4	51
31	A strategy for utilizing hollow polyoxometalate nanocrystals to improve the efficiency of photovoltaic cells. <i>Inorganic Chemistry Communication</i> , 2018, 96, 73-80.	3.9	10
32	rGO Functionalized with a Highly Electronegative Keplerate-type Polyoxometalate for High-Energy Density Aqueous Asymmetric Supercapacitors. <i>Chemistry - an Asian Journal</i> , 2018, 13, 3304-3313.	3.3	38
33	Sandwich-type silicotungstate modified TiO ₂ microspheres for enhancing light harvesting and reducing electron recombination in dye-sensitized solar cells. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 559-565.	6.0	22
34	Low-cost p-type dye-sensitized solar cells based on Dawson-type transition metal-substituted polyoxometalate inorganic co-sensitizers. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1187-1191.	6.0	13
35	A Strategy to Enhance the Efficiency of Quantum Dot-Sensitized Solar Cells by Decreasing Electron Recombination with Polyoxometalate/TiO ₂ as the Electronic Interface Layer. <i>ChemSusChem</i> , 2017, 10, 2945-2954.	6.8	19
36	A Strategy for Breaking Polyoxometalate-based MOFs To Obtain High Loading Amounts of Nanosized Polyoxometalate Clusters to Improve the Performance of Dye-Sensitized Solar Cells. <i>Chemistry - A European Journal</i> , 2017, 23, 8871-8878.	3.3	31

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37	Ag/Ag _x H ₃ PMo ₁₂ O ₄₀ Nanowires with Enhanced Visible-Light-Driven Photocatalytic Performance. ACS Applied Materials & Interfaces, 2017, 9, 422-430.	8.0	75
38	A Reusable N-Doped Carbon-Coated Mo ₂ C Composite Counter Electrode for High-Efficiency Dye-Sensitized Solar Cells. Chemistry - A European Journal, 2017, 23, 17311-17317.	3.3	36
39	Micelle-Directing Synthesis of Ag-Doped WO ₃ and MoO ₃ Composites for Photocatalytic Water Oxidation and Organic Dye Adsorption. Chemistry - an Asian Journal, 2017, 12, 2597-2603.	3.3	21
40	Three Keggin-Type Transition Metal-Substituted Polyoxometalates as Pure Inorganic Photosensitizers for p-Type Dye-Sensitized Solar Cells. Chemistry - A European Journal, 2016, 22, 3234-3238.	3.3	22
41	Encapsulation of tungstophosphoric acid into harmless MIL-101(Fe) for effectively removing cationic dye from aqueous solution. RSC Advances, 2016, 6, 81622-81630.	3.6	48
42	Keplerate-type polyoxometalate/semiconductor composite electrodes with light-enhanced conductivity towards highly efficient photoelectronic devices. Journal of Materials Chemistry A, 2016, 4, 14025-14032.	10.3	49
43	TiO ₂ film decorated with highly dispersed polyoxometalate nanoparticles synthesized by micelle directed method for the efficiency enhancement of dye-sensitized solar cells. Journal of Power Sources, 2016, 328, 1-7.	7.8	24
44	Pure inorganic D-A type polyoxometalate/reduced graphene oxide nanocomposite for the photoanode of dye-sensitized solar cells. Journal of Materials Chemistry A, 2016, 4, 3297-3303.	10.3	37
45	The improved efficiency of quantum-dot-sensitized solar cells with a wide spectrum and pure inorganic donor-acceptor type polyoxometalate as a collaborative cosensitizer. Journal of Materials Chemistry A, 2016, 4, 4125-4133.	10.3	31
46	Polyoxometalate-assisted synthesis of transition-metal cubane clusters as artificial mimics of the oxygen-evolving center of photosystem II. Coordination Chemistry Reviews, 2016, 313, 94-110.	18.8	111
47	Membrane-Inspired Acidically Stable Dye-Sensitized Photocathode for Solar Fuel Production. Journal of the American Chemical Society, 2016, 138, 1174-1179.	13.7	122
48	Dimeric [Mo ₂ S ₁₂] ²⁺ Cluster: A Molecular Analogue of MoS ₂ Edges for Superior Hydrogen-Evolution Electrocatalysis. Angewandte Chemie - International Edition, 2015, 54, 15181-15185.	13.8	160
49	Photosensitive polyoxometalate-induced formation of thermotropic liquid crystal nanomaterial and its photovoltaic effect. RSC Advances, 2015, 5, 8194-8198.	3.6	6
50	Enhanced Visible Photovoltaic Response of TiO ₂ Thin Film with an All-Inorganic Donor-Acceptor Type Polyoxometalate. ACS Applied Materials & Interfaces, 2015, 7, 13714-13721.	8.0	78
51	A strategy for breaking the MOF template to obtain small-sized and highly dispersive polyoxometalate clusters loaded on solid films. Journal of Materials Chemistry A, 2015, 3, 14573-14577.	10.3	25
52	The composite material based on Dawson-type polyoxometalate and activated carbon as the supercapacitor electrode. Inorganic Chemistry Communication, 2015, 55, 149-152.	3.9	31
53	The assembly of vanadium(<i>iv</i>)-substituted Keggin-type polyoxometalate/graphene nanocomposite and its application in photovoltaic system. Journal of Materials Chemistry A, 2015, 3, 10174-10178.	10.3	30
54	Synthesis and photocatalytic hydrogen evolution activity of three Keggin-type polyoxometalates with different central atoms. Inorganic Chemistry Communication, 2015, 61, 184-186.	3.9	13

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55	Co-sensitization promoted light harvesting with a new mixed-addenda polyoxometalate [Cu(C ₁₂ H ₈ N ₂) ₂] ₂ [V ₂ W ₄ O ₁₈] in dye-sensitized solar cells. Dalton Transactions, 2015, 44, 18553-18562.	2.2	2
56	A TiO ₂ @{Mo368} composite: synthesis, characterization, and application in dye-sensitized solar cells. Journal of Coordination Chemistry, 2014, 67, 3873-3883.	3.3	237
57	Incorporating Polyoxometalates into a Porous MOF Greatly Improves Its Selective Adsorption of Cationic Dyes. Chemistry - A European Journal, 2014, 20, 6927-6933.	3.3	21
58	Polyoxometalate supported complexes as effective electron-transfer mediators in dye-sensitized solar cells. Dalton Transactions, 2014, 43, 1493-1497.	4.1	56
59	Two carboxyethyltin functionalized polyoxometalates for assembly on carbon nanotubes as efficient counter electrode materials in dye-sensitized solar cells. Chemical Communications, 2014, 50, 14678-14681.	8.0	71
60	A Novel Carboxyethyltin Functionalized Sandwich-type Germanotungstate: Synthesis, Crystal Structure, Photosensitivity, and Application in Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 7876-7884.	3.9	18
61	The photovoltaic performance of dye-sensitized solar cells enhanced by using Dawson-type heteropolyacid and heteropoly blue-TiO ₂ composite films as photoanode. Inorganic Chemistry Communication, 2014, 47, 138-143.	3.7	35
62	Polyoxometalate/TiO ₂ Interfacial Layer with the Function of Accelerating Electron Transfer and Retarding Recombination for Dye-Sensitized Solar Cells. Industrial & Engineering Chemistry Research, 2014, 53, 150-156.	3.9	10
63	The research of employing polyoxometalates as pure-inorganic electron-transfer mediators on dye-sensitized solar cells. Inorganic Chemistry Communication, 2014, 46, 89-93.	2.0	22
64	The Application of ZnO Nanoparticles Containing Polyoxometalates in Dye-Sensitized Solar Cells. European Journal of Inorganic Chemistry, 2013, 2013, 1951-1959.	10.3	59
65	A new electrodeposition approach for preparing polyoxometalates-based electrochromic smart windows. Journal of Materials Chemistry A, 2013, 1, 216-220.	3.3	58
66	Polyoxometalate-“anatase TiO ₂ composites are introduced into the photoanode of dye-sensitized solar cells to retard the recombination and increase the electron lifetime. Dalton Transactions, 2013, 42, 2691.	10.3	26
67	A photovoltaic system composed of a keplerate-type polyoxometalate and a water-soluble poly(p-phenylenevinylene) derivative. Journal of Materials Chemistry A, 2013, 1, 6727.	3.9	14
68	Synthesis and catalytic properties of novel POM@TiO ₂ composite materials. Inorganic Chemistry Communication, 2013, 38, 96-99.	3.9	25
69	The research of a new polyoxometalates based photosensitizer on dye sensitized solar cell. Inorganic Chemistry Communication, 2013, 38, 78-82.	3.7	36
70	Electropolymerization Polyoxometalate (POM)-Doped PEDOT Film Electrodes with Mastoid Microstructure and Its Application in Dye-Sensitized Solar Cells (DSSCs). Industrial & Engineering Chemistry Research, 2013, 52, 6694-6703.	2.2	8
71	One polyoxometalate-based hybrid 3-D network: synthesis, structure, photo- and electro-catalytic properties. Journal of Coordination Chemistry, 2012, 65, 3254-3263.	3.3	32
72	A long-term stable Pt counter electrode modified by POM-based multilayer film for high conversion efficiency dye-sensitized solar cells. Dalton Transactions, 2012, 41, 2227.		

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73	Review: The chirality and bionic studies of polyoxometalates: the synthetic strategy and structural chemistry. <i>Journal of Coordination Chemistry</i> , 2012, 65, 1-18.	2.2	18
74	Polyoxometalate-assisted synthesis of the ZnO polyhedra in an alkali solution and their photoelectrical properties. <i>Materials Letters</i> , 2012, 87, 39-42.	2.6	10
75	A Series of [MnMo ₉ O ₃₂] ⁶⁻ Based Solids: Homochiral Transferred from Adjacent Polyoxoanions to One-, Two-, and Three-Dimensional Frameworks. <i>Crystal Growth and Design</i> , 2012, 12, 1111-1117.	3.0	25
76	New extended poly(oxomolybdophosphates) based on strontium(ii) linkers. <i>CrystEngComm</i> , 2011, 13, 3417.	2.6	28
77	Two new methylimidazole modified H ₂ VO ₄ -sandwich-type polytungstoantimonates. <i>Journal of Coordination Chemistry</i> , 2011, 64, 71-81.	2.2	9
78	Controllable assembly of four new POM-based supramolecular compounds by altering the POM secondary building units from pseudo-Keggin to classical Keggin. <i>CrystEngComm</i> , 2011, 13, 2687.	2.6	37
79	Two New Extended Frameworks Constructed from the Sandwiching Polytungstoantimonate Clusters. <i>Journal of Cluster Science</i> , 2011, 22, 73-85.	3.3	11
80	Two new compounds with microporous constructed by Waugh-type polyoxoanion and transition metal ions. <i>Science China Chemistry</i> , 2011, 54, 1418-1422.	8.2	2
81	Two Chain Like B-Type-Anderson-Based Hybrids Synthesized in Choline Chloride/Urea Eutectic Mixture. <i>Journal of Cluster Science</i> , 2010, 21, 133-145.	3.3	22
82	A New Molybdophosphate Constructed From {Mo ₂ VO ₄ (H ₂ O) ₆ } ²⁺ and 1-Hydroxyethylidenediphosphonate. <i>Journal of Cluster Science</i> , 2010, 21, 147-154.	3.3	11
83	Resolution of chiral polyoxoanion [P ₂ Mo ₁₈ O ₆₂] ⁶⁻ with histidine. <i>CrystEngComm</i> , 2010, 12, 2044.	2.6	36
84	Spontaneous resolution of a new diphosphonate-functionalized polyoxomolybdate. <i>CrystEngComm</i> , 2010, 12, 4017.	2.6	30
85	Synthesis, structures and electrochemical properties of four organic-inorganic hybrid polyoxometalates constructed from polyoxotungstate clusters and transition metal complexes. <i>Transition Metal Chemistry</i> , 2009, 34, 281-288.	1.4	4
86	One-Pot Assembly of a New Mixed-Valent Aggregate Based on Inorganic Polyoxometalate Ligands. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009, 635, 1678-1687.	1.2	7
87	Theoretical studies on redox properties, protonation sites, and electronic spectrum of a new type of polyoxometalate [Ti ₁₂ Nb ₆ O ₄₄] ¹⁰⁻ by DFT. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 1560-1565.	2.0	5
88	Three new multidimensional organic-inorganic hybrids based on polyoxometalates and copper coordination polymers with 4,4'-bipyridine ligands. <i>Inorganica Chimica Acta</i> , 2009, 362, 1412-1420.	2.4	26
89	Structural characterization of two lanthanide compounds based on polyoxometalate building units. <i>Journal of Coordination Chemistry</i> , 2009, 62, 347-357.	2.2	16
90	Two new polyoxometalate-based organic-inorganic hybrids: synthesis, crystal structure and characterization. <i>Journal of Coordination Chemistry</i> , 2009, 62, 1035-1050.	2.2	5

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91	Theoretical study of the electronic and redox properties of different metal-substituted Lindqvist-type polyanions. <i>Molecular Physics</i> , 2009, 107, 53-58.	1.7	1
92	Two New One-Dimensional Chain-Like Compounds Constructed from the Sandwich-Type Polyoxotungstate Clusters. <i>Journal of Cluster Science</i> , 2008, 19, 401-410.	3.3	8
93	A new polyoxometalate-based 3d ⁴ -4f heterometallic aggregate: a model for the design and synthesis of new heterometallic clusters. <i>Dalton Transactions</i> , 2008, , 865-867.	3.3	99
94	Building block approach to nanostructures: step-by-step assembly of large lanthanide-containing polytungstoarsenate aggregates. <i>Dalton Transactions</i> , 2007, , 4293.	3.3	101
95	An Inorganic Aggregate Based on a Sandwich-Type Polyoxometalate with Lanthanide and Potassium Cations: From 1D Chiral Ladder-Like Chains to a 3D Open Framework. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 2216-2220.	2.0	61