

Shengtian Wang

List of Publications by Year in descending order

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35
papers

918
citations

394421

19
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454955

30
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35
docs citations

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times ranked

1387
citing authors

#	ARTICLE	IF	CITATIONS
1	Single step conversion of cellulose to levulinic acid using temperature-responsive dodeca-aluminotungstic acid catalysts. <i>Green Chemistry</i> , 2016, 18, 742-752.	9.0	84
2	Catalytic wet air oxidation of dye pollutants by polyoxomolybdate nanotubes under room condition. <i>Applied Catalysis B: Environmental</i> , 2009, 86, 182-189.	20.2	79
3	Acid-base bifunctional HPA nanocatalysts promoting heterogeneous transesterification and esterification reactions. <i>Catalysis Science and Technology</i> , 2013, 3, 2204.	4.1	50
4	A fast and facile electrochemical method for the simultaneous detection of epinephrine, uric acid and folic acid based on ZrO ₂ /ZnO nanocomposites as sensing material. <i>Analytica Chimica Acta</i> , 2020, 1104, 69-77.	5.4	49
5	Conversion of highly concentrated fructose into 5-hydroxymethylfurfural by acid-base bifunctional HPA nanocatalysts induced by choline chloride. <i>RSC Advances</i> , 2014, 4, 63055-63061.	3.6	48
6	A heteropoly acid ionic crystal containing Cr as an active catalyst for dehydration of monosaccharides to produce 5-HMF in water. <i>Catalysis Science and Technology</i> , 2015, 5, 2496-2502.	4.1	48
7	Formation of gold nanoparticles and self-assembly into dimer and trimer aggregates. <i>Materials Letters</i> , 2005, 59, 1383-1386.	2.6	47
8	Removal of organic dye by air and macroporous ZnO/MoO ₃ /SiO ₂ hybrid under room conditions. <i>Applied Surface Science</i> , 2011, 257, 7913-7919.	6.1	46
9	Tailoring the Synergistic Bronsted-Lewis acidic effects in Heteropolyacid catalysts: Applied in Esterification and Transesterification Reactions. <i>Scientific Reports</i> , 2015, 5, 13764.	3.3	41
10	An ultrasensitive sensor based on polyoxometalate and zirconium dioxide nanocomposites hybrids material for simultaneous detection of toxic clenbuterol and ractopamine. <i>Sensors and Actuators B: Chemical</i> , 2019, 288, 347-355.	7.8	38
11	Electrochemical sensor based on an electrode modified with porous graphitic carbon nitride nanosheets (C ₃ N ₄) embedded in graphene oxide for simultaneous determination of ascorbic acid, dopamine and uric acid. <i>Mikrochimica Acta</i> , 2020, 187, 149.	5.0	38
12	Fabrication of polyoxometalate/GO/PDDA hybrid nanocomposite modified electrode and electrocatalysis for nitrite ion, ascorbic acid and dopamine. <i>Journal of Electroanalytical Chemistry</i> , 2018, 824, 91-98.	3.8	32
13	Graphene oxide and reduced graphene oxide as novel stationary phases via electrostatic assembly for open-tubular capillary electrochromatography. <i>Electrophoresis</i> , 2013, 34, 1869-1876.	2.4	30
14	A water-tolerant C ₁₆ H ₃ PW ₁₁ CrO ₃₉ catalyst for the efficient conversion of monosaccharides into 5-hydroxymethylfurfural in a micellar system. <i>RSC Advances</i> , 2013, 3, 23051.	3.6	27
15	Heteropolyacids embedded in a lipid bilayer covalently bonded to graphene oxide for the facile one-pot conversion of glycerol to lactic acid. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8325-8333.	10.3	27
16	Fabrication of Electro-Active Pt/Imo ₆ O ₂₄ /Graphene Oxide Nanohybrid Modified Electrode for the Simultaneous Determination of Ascorbic Acid, Dopamine and Uric Acid. <i>Journal of the Electrochemical Society</i> , 2019, 166, H351-H358.	2.9	23
17	Fabrication of a novel nanocomposite electrode with ZnO-MoO ₃ and biochar derived from mushroom biomaterials for the detection of acetaminophen in the presence of DA. <i>Microchemical Journal</i> , 2021, 161, 105719.	4.5	22
18	Polyoxometalate Immobilized on Graphene via Click Reaction for Simultaneous Dismutation of H ₂ O ₂ and Oxidation of Sulfur Mustard Simulant. <i>ACS Applied Nano Materials</i> , 2019, 2, 6971-6981.	5.0	21

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19	Fabrication of Trifunctional Polyoxometalate-Decorated Chitosan Nanofibers for Selective Production of 2,5-Diformylfuran. <i>ChemSusChem</i> , 2019, 12, 3515-3523.	6.8	20
20	First triple-functional polyoxometalate Cs _{10.6} [H _{2.4} GeNb ₁₃ O ₄₁] for highly selective production of methyl levulinate directly from cellulose. <i>Cellulose</i> , 2018, 25, 6405-6419.	4.9	18
21	Oxidative Desulfurization by Oxygen Using Amphiphilic Quaternary Ammonium Peroxovanadium Polyoxometalates. <i>Catalysis Surveys From Asia</i> , 2015, 19, 257-264.	2.6	15
22	Ultra-deep desulfurization via reactive adsorption on peroxophosphomolybdate/agarose hybrids. <i>Chemosphere</i> , 2014, 111, 631-637.	8.2	14
23	Hydrolysis and alcoholysis of polysaccharides with high efficiency catalyzed by a (C ₁₆ TA) _x H _{6x} P ₂ W ₁₈ O ₆₂ nanoassembly. <i>RSC Advances</i> , 2015, 5, 94155-94163.	3.6	14
24	Visual detection of H ₂ O ₂ and melamine based on PW ₁₁ MO ₃₉ (M = Cu ²⁺ , Co ²⁺ ,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 52 PW ₉ M ₃ O ₃₄ (M = Cu ²⁺ ,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 52	2.8	14
25	Polyoxometalate@g-C ₃ N ₄ nanocomposite for enhancing visible light photoelectrocatalytic performance. <i>Chemosphere</i> , 2021, 279, 130559.	8.2	13
26	Fabrication of H ₃ PW ₁₂ O ₄₀ /agarose membrane for catalytic production of biodiesel through esterification and transesterification. <i>RSC Advances</i> , 2016, 6, 81794-81801.	3.6	11
27	Decoration of chitosan microspheres with Brønsted heteropolyacids and Lewis ion Ti: trifunctional catalysts for esterification to biodiesel. <i>RSC Advances</i> , 2017, 7, 42422-42429.	3.6	11
28	The fabrication of trifunctional polyoxometalate hybrids for the cascade conversion of glycerol to lactic acid. <i>Catalysis Science and Technology</i> , 2020, 10, 207-214.	4.1	10
29	Incorporation of Ce ³⁺ ions into dodecatungstophosphoric acid for the production of biodiesel from waste cooking oil. <i>Materials Science and Engineering C</i> , 2018, 92, 922-931.	7.3	7
30	On-plate enzyme and inhibition assay of glucose-6-phosphate dehydrogenase using thin-layer chromatography. <i>Journal of Separation Science</i> , 2015, 38, 2907-2914.	2.5	5
31	Electrochemical sensor based on the polyoxometalate nanocluster [(NH ₄) ₁₂ [Mo ₃₆ (NO) ₄ O ₁₀₈ (H ₂ O) ₁₆].33H ₂ O and molybdenum disulfide nanocomposite materials for simultaneous detection of dihydroxybenzene isomers. <i>Microchemical Journal</i> , 2022, 177, 107232.	4.5	5
32	Efficient mineralization of phenol by a temperature-responsive polyoxometalate catalyst under wet peroxide oxidation at lower temperatures. <i>RSC Advances</i> , 2017, 7, 43681-43688.	3.6	4
33	Degradation of phenol by air and polyoxometalate nanofibers using a continuous mode. <i>RSC Advances</i> , 2014, 4, 25404-25409.	3.6	3
34	Fabrication of a Dendritic Heteropolyacid as Self-Separated, Water-Resistant Catalyst for Biodiesel Fuel Production. <i>Energy Technology</i> , 2015, 3, 871-877.	3.8	2
35	Production of Biodiesel Through Esterification Reaction Using Choline Exchanging Polytungstoboric Acids as Temperature-Responsive Catalysts. <i>Catalysis Surveys From Asia</i> , 2017, 21, 151-159.	2.6	2