

# Zhanli Chai

## List of Publications by Year in descending order

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36  
papers

542  
citations

759233

12  
h-index

677142

22  
g-index

36  
all docs

36  
docs citations

36  
times ranked

862  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nafion <sup>®</sup> “Carbon Nanocomposite Membranes Prepared Using Hydrothermal Carbonization for Proton <sup>+</sup> Exchange <sup>+</sup> Membrane Fuel Cells. <i>Advanced Functional Materials</i> , 2010, 20, 4394-4399.	14.9	99
2	A novel contractive effect of KTaO <sub>3</sub> nanocrystals via La <sup>3+</sup> doping and an enhanced photocatalytic performance. <i>Journal of Alloys and Compounds</i> , 2015, 622, 894-901.	5.5	58
3	Facile Construction of Bi <sub>2</sub> MoO <sub>6</sub> /Bi/g-C <sub>3</sub> N <sub>4</sub> toward Efficient Photocatalytic Oxidation of Indoor Gaseous Formaldehyde with a Wide Concentration Range under Visible Light Irradiation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 7710-7720.	6.7	35
4	Nanospherical composite of WO <sub>3</sub> wrapped NaTaO <sub>3</sub> : Improved photodegradation of tetracycline under visible light irradiation. <i>Applied Surface Science</i> , 2016, 388, 412-419.	6.1	29
5	Assembling Bi <sub>2</sub> MoO <sub>6</sub> /Ru/g-C <sub>3</sub> N <sub>4</sub> for Highly Effective Oxygen Generation from Water Splitting under Visible-Light Irradiation. <i>Inorganic Chemistry</i> , 2019, 58, 7374-7384.	4.0	29
6	Enhanced photocatalytic activity of Ag/Ag <sub>2</sub> Ta <sub>4</sub> O <sub>11</sub> /g-C <sub>3</sub> N <sub>4</sub> under wide-spectrum-light irradiation: H <sub>2</sub> evolution from water reduction without co-catalyst. <i>Journal of Colloid and Interface Science</i> , 2019, 550, 64-72.	9.4	23
7	Molecular Self-Assembly of Oxygen Deep-Doped Ultrathin C <sub>3</sub> N <sub>4</sub> with a Built-In Electric Field for Efficient Photocatalytic H <sub>2</sub> Evolution. <i>Inorganic Chemistry</i> , 2021, 60, 15782-15796.	4.0	23
8	Increased interface effects of Pt Fe alloy/CeO <sub>2</sub> /C with Pt Fe selective loading on CeO <sub>2</sub> for superior performance in direct methanol fuel cell. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 4794-4808.	7.1	21
9	Synthesis of NaYF <sub>4</sub> :Eu <sup>3+</sup> /Tb <sup>3+</sup> nanostructures with diverse morphologies and their size- and morphology-dependent photoluminescence. <i>CrystEngComm</i> , 2013, 15, 8262.	2.6	18
10	A novel strategy to promote photo-oxidative and reductive abilities via the construction of a bipolar Bi <sub>2</sub> WO <sub>6</sub> /N-SrTiO <sub>3</sub> material. <i>RSC Advances</i> , 2017, 7, 52218-52226.	3.6	16
11	A novel Au-loaded Na <sub>2</sub> Ta <sub>2</sub> O <sub>6</sub> multifunctional catalyst: Thermocatalytic and photocatalytic elimination of the poisonous nitrobenzene derivatives from wastewater under natural condition. <i>Journal of Alloys and Compounds</i> , 2017, 695, 60-69.	5.5	14
12	Thermoelectric metal tellurides with nanotubular structures synthesized by the Kirkendall effect and their reduced thermal conductivities. <i>CrystEngComm</i> , 2014, 16, 3507-3514.	2.6	13
13	In-situ synthesis of Ta <sub>2</sub> O <sub>5</sub> @few-layered rGO core-shell nanosphere with abundant oxygen vacancies for highly stable lithium-ion battery. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 1567-1575.	2.5	13
14	K <sub>4</sub> Nb <sub>6</sub> O <sub>17</sub> ·4.5H <sub>2</sub> O: A novel dual functional material with quick photoreduction of Cr(VI) and high adsorptive capacity of Cr(III). <i>Journal of Hazardous Materials</i> , 2014, 279, 537-545.	12.4	12
15	Phosphotungstic acid binding in situ to K <sub>4</sub> Nb <sub>6</sub> O <sub>17</sub> for the effective adsorption-photocatalytic removal of tetracycline. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	1.9	12
16	Regulating effect of heterojunctions on electrocatalytic oxidation of methanol for Pt/WO <sub>3</sub> -NaTaO <sub>3</sub> catalysts. <i>Dalton Transactions</i> , 2019, 48, 3061-3073.	3.3	12
17	Pt/N-rGO/Nb <sub>4</sub> N <sub>5</sub> Electrocatalyst with Multilayered Structure and Ternary Synergy for Promoting Alcohol Oxidation. <i>Journal of Alloys and Compounds</i> , 2020, 845, 156117.	5.5	12
18	Defects induced growth of Pt on the heterojunction of TaON N-rGO as highly CO-tolerant electrocatalyst for ethylene glycol oxidation. <i>Applied Surface Science</i> , 2021, 536, 147668.	6.1	11

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19	Investigation of the Preferential Doping Site and Regulating on the Visible Light Response and Redox Performance for Fe- and/or La-Doped $\text{InNbO}_4$ . <i>Inorganic Chemistry</i> , 2018, 57, 8558-8567.	4.0	10
20	Mesoporous lanthanum phosphate nanostructures containing $\text{H}_3\text{PO}_4$ as superior electrolyte for PEM fuel cells. <i>RSC Advances</i> , 2013, 3, 21928.	3.6	9
21	A novel adsorbent of $\text{Na}_2\text{Ta}_2\text{O}_6$ porous microspheres with $\text{F}^-$ gradient concentration distribution: High cationic selectivity and well-regulated recycling. <i>Journal of Hazardous Materials</i> , 2014, 265, 226-232.	12.4	9
22	Synergetic effect of heterojunction and doping of silver on $\text{ZnNb}_2\text{O}_6$ for superior visible-light photocatalytic activity and recyclability. <i>Solid State Sciences</i> , 2018, 84, 86-94.	3.2	8
23	Electrocatalytic Enhancement of 0D/1D/2D Multidimensional PtCo Alloy@Cobalt Benzoate/Graphene Composite Catalyst for Alcohol Electro-oxidation. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900946.	3.7	8
24	The controllable mutual transformation of $\text{Ag}^+/\text{Ag}_0$ pairs in $\text{Ag}_3\text{PO}_4/\text{Bi}_2\text{MoO}_6$ toward the high catalytic efficiency and durable reusability. <i>Journal of Materials Science</i> , 2018, 53, 16524-16538.	3.7	7
25	Solvent-controlled platinum nanocrystals with a high growth rate along $\sim 100\%$ to $\sim 111\%$ and enhanced electro-activity in the methanol oxidation reaction. <i>RSC Advances</i> , 2016, 6, 89098-89102.	3.6	6
26	A novel heterogeneous photocatalyst for Cr (VI) reduction via planting silicotungstic acid on the surface of calcium tantalate. <i>Molecular Catalysis</i> , 2018, 455, 48-56.	2.0	5
27	Complementary behavior of doping and loading in $\text{Ag}/\text{C}-\text{ZnTa}_2\text{O}_6$ for efficient visible-light photocatalytic redox towards broad wastewater remediation. <i>Photochemical and Photobiological Sciences</i> , 2020, 19, 1042-1053.	2.9	5
28	$\text{SnNb}_2\text{O}_6/\text{NiCo-LDH}$ Z-scheme heterojunction with regulated oxygen vacancies obtained by engineering the crystallinity for efficient and renewable photocatalytic $\text{H}_2$ evolution. <i>Catalysis Science and Technology</i> , 2021, 11, 6281-6290.	4.1	5
29	Ternary Interface of Pt   Few-layered $\text{Ni}_2\text{GO}$   TiN for the Boosting Electrocatalytic Activity in Ethylene Glycol Oxidation. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000808.	3.7	4
30	Integrating an $\text{Ag}^0$ -mediated $\text{Ag}_2\text{Ta}_4\text{O}_{11}/\text{Ag}_8(\text{Nb}_{0.5}\text{Ta}_{0.5})_2\text{O}_4$ heterojunction to quickly decontaminate indoor gaseous formaldehyde under indoor temperature, humidity and sunlight irradiation conditions. <i>Environmental Science: Nano</i> , 2020, 7, 1831-1840.	4.3	4
31	Concentration-dependent platinum nanoassemblies with morphology-controlled electroactivity and high durability for direct methanol fuel cells. <i>CrystEngComm</i> , 2015, 17, 6716-6723.	2.6	3
32	Regenerated CO anti-poisoning ability by anchoring highly oxidized platinum on oxygen-functionalized carbon spheres in one-step & two-phase synthesis for methanol electro-oxidation. <i>CrystEngComm</i> , 2017, 19, 4815-4823.	2.6	3
33	pH-Controllable regeneration and visible-light photocatalytic redox of carbon and nitrogen co-doped $\text{Zn}_3\text{Nb}_2\text{O}_8$ towards degradation of multiple contaminants. <i>Catalysis Science and Technology</i> , 2020, 10, 2810-2820.	4.1	3
34	Oxygen enriched carbonaceous nanospheres deep anchored with $\text{Pt}_{x}\text{Ni}_y\text{Co}_z$ alloy nanoparticles as versatile electrocatalyst. <i>Materials Letters</i> , 2020, 271, 127718.	2.6	2
35	Synergistic effect of $\text{Na}_2\text{Ta}_2\text{O}_6$ in Pt/sodium tantalate on promoted electrocatalytic ability toward alcohol electro-oxidation. <i>Journal of Electroanalytical Chemistry</i> , 2020, 864, 114083.	3.8	1
36	Multi-dimensional Structure: Electrocatalytic Enhancement of 0D/1D/2D Multidimensional PtCo Alloy@Cobalt Benzoate/Graphene Composite Catalyst for Alcohol Electro-oxidation ( <i>Adv. Mater.</i> )	3.7	10