

# Zhongping Yao

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92  
papers

2,353  
citations

26  
h-index

46  
g-index

95  
ext. papers

2,747  
ext. citations

5.1  
avg, IF

5  
L-index

#	Paper	IF	Citations
92	Performance and Mechanism of FeS/FeSO as highly effective Fenton-like catalyst for phenol degradation.. <i>Environmental Technology (United Kingdom)</i> , <b>2022</b> , 1-30	2.6	
91	Black PEO coating with enhanced thermal stability on titanium alloy and its thermal control properties. <i>Surface and Coatings Technology</i> , <b>2021</b> , 429, 127934	4.4	3
90	Revealing the enhancing mechanisms of Fe-Cu bimetallic catalysts for the Fenton-like degradation of phenol. <i>Chemosphere</i> , <b>2021</b> , 289, 133195	8.4	4
89	The enhanced catalytic activity and stability of Fe <sub>3</sub> O <sub>4</sub> -S@C Fenton-like catalyst for phenol degradation. <i>Research on Chemical Intermediates</i> , <b>2021</b> , 47, 3025-3035	2.8	2
88	Theoretical guidance for the construction of electron-rich reaction microcenters on CDBe bridges for enhanced Fenton-like degradation of tetracycline hydrochloride. <i>Chemical Engineering Journal</i> , <b>2021</b> , 411, 128535	14.7	15
87	Boosting electrocatalytic activity toward alkaline hydrogen evolution by strongly coupled ternary Ni <sub>3</sub> S <sub>4</sub> /Ni/Ni(OH) <sub>2</sub> hybrid. <i>Electrochimica Acta</i> , <b>2021</b> , 382, 138342	6.7	2
86	Synthesis of the SO <sub>4</sub> <sup>2-</sup> @Fe <sub>3</sub> O <sub>4</sub> /FeS coating catalyst on a TC4 titanium alloy for the enhanced Fenton-like degradation of phenol. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 1516-1524	3.6	3
85	Significantly Improved Dielectric Performance of Poly(1-butene)-Based Composite Films via Filling Polydopamine Modified Ba(ZrTi)O-Coated Multiwalled Carbon Nanotubes Nanoparticles. <i>Polymers</i> , <b>2021</b> , 13,	4.5	1
84	Facile Preparation of Cu <sub>2</sub> S/Cu Mesh For High-performance Solar Water Evaporation. <i>ChemistrySelect</i> , <b>2021</b> , 6, 7901-7905	1.8	2
83	Investigation of Cu heteroatoms and Cu clusters in Fe-Cu alloy and their special effect mechanisms on the Fenton-like catalytic activity and reusability. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 299, 120662	21.8	9
82	n-type polyaniline hole-blocking layer for high-efficiency QDSC by one-pot electropolymerization and selective aprotic cation ([EMIM]) doping. <i>Nanotechnology</i> , <b>2020</b> , 31, 315702	3.4	
81	Enhancing Hydrogen Evolution Reaction by Synergistically Coupling NiMo Alloy with Ni(OH) <sub>2</sub> Nanosheet on Carbon Cloth. <i>ChemistrySelect</i> , <b>2020</b> , 5, 6774-6779	1.8	7
80	Study of the Effect of PGDA Solvent on Film Formation and Curing Process of Two-Component Waterborne Polyurethane Coatings by FTIR Tracking. <i>Coatings</i> , <b>2020</b> , 10, 461	2.9	1
79	Self-Assembly of Amphiphilic Linear-Dendritic Carbosilane Block Surfactant for Waterborne Polyurethane Coating. <i>Polymers</i> , <b>2020</b> , 12,	4.5	2
78	Crystallization and Dielectric Properties of MWCNT /Poly(1-Butene) Composite Films by a Solution Casting Method. <i>Materials</i> , <b>2020</b> , 13,	3.5	2
77	Mo Doped Amorphous Co <sub>x</sub> Porous Leaf-Like Nanostructure on Ti Mesh as Electrocatalyst for Alkaline Hydrogen Production. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 114510	3.9	3
76	2D Carbide MXene under postetch low-temperature annealing for high performance supercapacitor electrode. <i>Electrochimica Acta</i> , <b>2020</b> , 359, 136960	6.7	14

75	A High-Efficient Carbon-Coated Iron-Based Fenton-Like Catalyst with Enhanced Cycle Stability and Regenerative Performance. <i>Catalysts</i> , <b>2020</b> , 10, 1486	4	4
74	Pre- or post-TiCl <sub>4</sub> treated TiO <sub>2</sub> nano-array photoanode for QDSSC: Ti <sup>3+</sup> self-doping, flat-band level and electron diffusion length. <i>Applied Surface Science</i> , <b>2019</b> , 491, 319-327	6.7	10
73	Preparation of the plasma electrolytic oxidation coating on Mg Li alloy and its thermal control performance. <i>Surface and Coatings Technology</i> , <b>2019</b> , 369, 252-256	4.4	13
72	Black ceramic coatings on Ti alloy with enhanced high absorptivity and high emissivity by plasma electrolytic oxidation. <i>International Journal of Applied Ceramic Technology</i> , <b>2019</b> , 16, 994-1003	2	4
71	Enhanced Hydrogen Evolution Activity of Ni/Ni <sub>3</sub> S <sub>2</sub> Nanosheet Grown on Ti Mesh by Cu Doped Ni. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, F168-F173	3.9	5
70	Hydrothermal synthesis of Ni-doped ZnS solid solution photocatalysts for photocatalytic H <sub>2</sub> production. <i>Research on Chemical Intermediates</i> , <b>2019</b> , 45, 4927-4940	2.8	7
69	Enhanced Fenton-like degradation of phenol by sulfur modified Fe <sub>2</sub> O <sub>3</sub> /Fe <sub>3</sub> O <sub>4</sub> /R-TiO <sub>2</sub> composite coating on Ti alloy prepared by plasma electrolytic oxidation. <i>Materials Research Express</i> , <b>2019</b> , 6, 095532	1.7	1
68	Ultrahigh capacitance of TiO <sub>2</sub> nanotube arrays/C/MnO <sub>2</sub> electrode for supercapacitor. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 805, 396-403	5.7	15
67	A Novel Flake-like Cu <sub>7</sub> S <sub>4</sub> Solar Absorber for High-Performance Large-Scale Water Evaporation. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 5154-5161	6.1	17
66	Preparation of high absorptance and high emissivity coatings on Mg-Li alloy by plasma electrolytic oxidation. <i>Materials Research Express</i> , <b>2019</b> , 6, 106428	1.7	0
65	Construction of TiO Nanotubes/C/MnO Composite Films as a Binder-Free Electrode for a High-Performance Supercapacitor. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 1591-1598	5.1	12
64	Effect of organic additives on structure and corrosion resistance of MAO coating. <i>Vacuum</i> , <b>2018</b> , 151, 8-14	3.7	14
63	Efficient homogeneous and isomorphic blocking layer skeleton rutile TiO <sub>2</sub> electron transfer structure for quantum dot sensitized solar cells. <i>Results in Physics</i> , <b>2018</b> , 11, 1015-1021	3.7	3
62	Preparation of Fe <sub>3</sub> O <sub>4</sub> /MWCNT nano-hybrid and its application as phenol sensor. <i>Materials Research Express</i> , <b>2018</b> , 5, 075003	1.7	1
61	Preparation of immobilized coating Fenton-like catalyst for high efficient degradation of phenol. <i>Environmental Pollution</i> , <b>2017</b> , 224, 552-558	9.3	23
60	Synthesis of carbon modified TiO <sub>2</sub> nanotubes composite films by gas thermal penetration as symmetrical and binder-free electrochemical supercapacitor. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 721, 795-802	5.7	8
59	A novel solid acid coating catalyst on Q235 carbon steel for Fenton-like oxidation of phenol under circumneutral pH. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 711, 278-286	5.7	7
58	Design of a novel immobilized solid acid coating and its application in Fenton-like oxidation of phenol. <i>Applied Surface Science</i> , <b>2017</b> , 409, 358-366	6.7	10

57	Ultrahigh Mass Activity for Carbon Dioxide Reduction Enabled by Gold-Iron Core-Shell Nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 15608-15611	16.4	151
56	Fabrication of environmentally friendly anti-corrosive composite coatings on AZ31B Mg alloy by plasma electrolytic oxidation and phytic acid/3-aminopropyltrimethoxysilane post treatment. <i>Surface and Coatings Technology</i> , <b>2017</b> , 325, 579-587	4.4	27
55	Experiment and numerical simulation investigations of the combustion and NO <sub>x</sub> emissions characteristics of an over-fire air system in a 600 MWe boiler. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2017</b> , 71, 944-961	2.3	2
54	Enhanced electrochemical reduction of CO <sub>2</sub> to CO on Ag electrocatalysts with increased unoccupied density of states. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 12616-12623	13	58
53	Investigation of absorptance and emissivity of thermal control coatings on Mg-Li alloys and OES analysis during PEO process. <i>Scientific Reports</i> , <b>2016</b> , 6, 29563	4.9	16
52	A Fe <sub>3</sub> O <sub>4</sub> /FeAl <sub>2</sub> O <sub>4</sub> composite coating via plasma electrolytic oxidation on Q235 carbon steel for Fenton-like degradation of phenol. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 14927-36	5.1	21
51	Synthesis of hierarchical dendritic micro/nano structure ZnFe <sub>2</sub> O <sub>4</sub> and photocatalytic activities for water splitting. <i>Chinese Journal of Chemical Engineering</i> , <b>2016</b> , 24, 1112-1116	3.2	7
50	Role of Sulfites in the Water Splitting Reaction. <i>Journal of Solution Chemistry</i> , <b>2016</b> , 45, 67-80	1.8	16
49	Fabrication of CdS-Coated ZnO Nanorods Arrays for Photoelectrocatalytic Degradation of Phenol. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2016</b> , 16, 8308-8314	1.3	2
48	Hydrothermal synthesis of a uniform sub-micrometer-spherical Zn <sub>0.83</sub> Cd <sub>0.17</sub> S photocatalyst with high activity for photocatalytic hydrogen production. <i>RSC Advances</i> , <b>2016</b> , 6, 51997-52003	3.7	2
47	Preparation of thermal control coatings on Mg/Li alloys by plasma electrolytic oxidation. <i>Surface and Coatings Technology</i> , <b>2016</b> , 307, 1236-1240	4.4	15
46	Covalent interaction enhanced electromagnetic wave absorption in SiC/Co hybrid nanowires. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 6517-6525	13	127
45	A facile preparation of ceramic coatings on Ti alloys for thermal protection systems. <i>Solar Energy Materials and Solar Cells</i> , <b>2015</b> , 143, 236-241	6.4	15
44	Stacking fault and unoccupied densities of state dependence of electromagnetic wave absorption in SiC nanowires. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 4416-4423	7.1	112
43	Polarization enhanced multi-grain-boundary dendritic micro/nano structure Fe for electromagnetic absorption applications: synthesis and characterization. <i>RSC Advances</i> , <b>2015</b> , 5, 25266-25272	3.7	5
42	Fabrication of core/multishell MWCNT/Fe <sub>3</sub> O <sub>4</sub> /PANI/Au hybrid nanotubes with high-performance electromagnetic absorption. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 10566-10572	13	82
41	Study on coating growth characteristics during the electrolytic oxidation of a magnesium/lithium alloy by optical emission spectroscopy analysis. <i>RSC Advances</i> , <b>2015</b> , 5, 68806-68814	3.7	13
40	Solvothermal synthesis of graphene nanosheets as the electrode materials for supercapacitors. <i>Ionics</i> , <b>2015</b> , 21, 801-808	2.7	12

39	Preparation of thermal control coatings on Ti alloy by plasma electrolytic oxidation in K <sub>2</sub> ZrF <sub>6</sub> solution. <i>Surface and Coatings Technology</i> , <b>2015</b> , 269, 273-278	4.4	31
38	Phase transition behavior and high piezoelectric properties in lead-free BaTiO <sub>3</sub> /TaTiO <sub>3</sub> BaHfO <sub>3</sub> ceramics. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 62-69	4.3	24
37	SiC/Fe <sub>3</sub> O <sub>4</sub> dielectric/magnetic hybrid nanowires: controllable fabrication, characterization and electromagnetic wave absorption. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 16397-16402	13	175
36	Phase Diagram and Enhanced Piezoelectric Response of Lead-Free BaTiO <sub>3</sub> /TaTiO <sub>3</sub> BaHfO <sub>3</sub> System. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 3244-3251	3.8	33
35	Preparation of black high absorbance and high emissivity thermal control coating on Ti alloy by plasma electrolytic oxidation. <i>Surface and Coatings Technology</i> , <b>2014</b> , 253, 166-170	4.4	49
34	Determination and Relaxation of Residual Stress in 2024 Al-30 vol.% Magnesium Borate Whisker Composites. <i>Journal of Materials Engineering and Performance</i> , <b>2013</b> , 22, 3126-3133	1.6	2
33	CdTe Quantum Dots Encapsulated ZnO Nanorods for Highly Efficient Photoelectrochemical Degradation of Phenols. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 26529-26537	3.8	34
32	Durian-like multi-functional Fe <sub>3</sub> O <sub>4</sub> @Au nanoparticles: synthesis, characterization and selective detection of benzidine. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 9746	13	19
31	Synthesis of hierarchical dendritic micro-nano structure Co <sub>x</sub> Fe <sub>1-x</sub> alloy with tunable electromagnetic absorption performance. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 12462	13	41
30	Structure and Corrosion Resistance of PEO Ceramic Coatings on AZ91D Mg Alloy Under Three Kinds of Power Modes. <i>International Journal of Applied Ceramic Technology</i> , <b>2013</b> , 10, E310-E317	2	8
29	Electric field-induced synthesis of dendritic nanostructured Fe for electromagnetic absorption application. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 4571	13	60
28	Enhanced microwave absorption of Fe <sub>3</sub> O <sub>4</sub> nanocrystals after heterogeneously growing with ZnO nanoshell. <i>RSC Advances</i> , <b>2013</b> , 3, 3309	3.7	98
27	Luminescent Au <sub>11</sub> nanocluster superlattices with high thermal stability. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 3632		14
26	The heteroepitaxial growth of KDP/ADP. <i>Crystal Research and Technology</i> , <b>2012</b> , 47, 517-522	1.3	
25	Electrical and Energy Storage Performance of Eu-Doped PbZrO <sub>3</sub> Thin Films with Different Gradient Sequences. <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 1486-1488	3.8	36
24	Influence of Co(CH <sub>3</sub> COO) <sub>2</sub> concentration on thermal emissivity of coatings formed on titanium alloy by micro-arc oxidation. <i>Current Applied Physics</i> , <b>2012</b> , 12, 284-290	2.6	33
23	Mo-doped titania films: preparation, characterization and application for splitting water. <i>New Journal of Chemistry</i> , <b>2011</b> , 35, 423-429	3.6	19
22	Two new metal-organic frameworks possessing binodal high-connected topologies based on Cd <sub>4</sub> -clusters and organic ligands. <i>Journal of Coordination Chemistry</i> , <b>2011</b> , 64, 222-231	1.6	13

21	Influence of FeSO <sub>4</sub> concentration on thermal emissivity of coatings formed on titanium alloy by micro-arc oxidation. <i>Applied Surface Science</i> , <b>2011</b> , 257, 10839-10844	6.7	37
20	Effects of Working Frequency on the Structure and Corrosion Resistance of Plasma Electrolytic Oxidation Coatings Formed on a ZK60 Mg Alloy. <i>International Journal of Applied Ceramic Technology</i> , <b>2011</b> , 8, 112-119	2	10
19	Effect of Eu Doping on the Electrical Properties and Energy Storage Performance of PbZrO <sub>3</sub> Antiferroelectric Thin Films. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 3234-3236	3.8	83
18	Effects of cathode pulse at high frequency on structure and composition of Al <sub>2</sub> TiO <sub>5</sub> ceramic coatings on Ti alloy by plasma electrolytic oxidation. <i>Materials Chemistry and Physics</i> , <b>2011</b> , 126, 227-231	4.4	22
17	Structural and morphological control of Mo doped titania films. <i>Catalysis Science and Technology</i> , <b>2011</b> , 1, 385	5.5	1
16	Microporous Ni-doped TiO <sub>2</sub> film photocatalyst by plasma electrolytic oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2010</b> , 2, 2617-22	9.5	124
15	Preparation of PEO ceramic coating on Ti alloy and its high temperature oxidation resistance. <i>Current Applied Physics</i> , <b>2010</b> , 10, 698-702	2.6	38
14	Effect of additives on structure and corrosion resistance of ceramic coatings on MgTi alloy by micro-arc oxidation. <i>Current Applied Physics</i> , <b>2010</b> , 10, 719-723	2.6	77
13	Self-assembled CuO nanoarchitectures and their catalytic activity in the thermal decomposition of ammonium perchlorate. <i>Colloid and Polymer Science</i> , <b>2009</b> , 287, 853-858	2.4	37
12	Pseudo-capacitance properties of porous metal oxide nanoplatelets derived from hydrotalcite-like compounds. <i>Journal of Applied Electrochemistry</i> , <b>2009</b> , 39, 1803-1808	2.6	6
11	Synthesis of chrysalis-like CuO nanocrystals and their catalytic activity in the thermal decomposition of ammonium perchlorate. <i>Journal of Chemical Sciences</i> , <b>2009</b> , 121, 1077-1081	1.8	31
10	Calcination/acid-activation treatment of an anodic oxidation TiO <sub>2</sub> /Ti film catalyst. <i>Rare Metals</i> , <b>2009</b> , 28, 428-433	5.5	
9	Effects of cathode pulse at low frequency on the structure and composition of plasma electrolytic oxidation ceramic coatings. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 488, 273-278	5.7	21
8	Preparation and structure of ceramic coatings containing zirconium oxide on Ti alloy by plasma electrolytic oxidation. <i>Journal of Materials Processing Technology</i> , <b>2008</b> , 205, 303-307	5.3	49
7	Structure and Properties of ZrO <sub>2</sub> Ceramic Coatings on AZ91D Mg Alloy by Plasma Electrolytic Oxidation. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 555-558	3.8	58
6	Black Ceramic Thermal Control Coating Prepared by Microarc Oxidation. <i>International Journal of Applied Ceramic Technology</i> , <b>2007</b> , 4, 269-275	2	19
5	Effects of duty ratio at high frequency on growth mechanism of micro-plasma oxidation ceramic coatings on Ti alloy. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 9434-9439	4.3	7
4	Effect of Na <sub>2</sub> SO <sub>4</sub> on Structure and Corrosion Resistance of Ceramics Coatings Containing Zirconium Oxide on Ti-6Al-4V Alloy. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 060612075903009-377	3.8	

3	Electrochemical impedance spectroscopy of ceramic coatings on Ti <sub>6</sub> Al <sub>4</sub> V by micro-plasma oxidation. <i>Electrochimica Acta</i> , <b>2005</b> , 50, 3273-3279	6.7	88
2	Effects of ceramic coating by micro-plasma oxidation on the corrosion resistance of Ti <sub>6</sub> Al <sub>4</sub> V alloy. <i>Surface and Coatings Technology</i> , <b>2005</b> , 200, 2445-2450	4.4	25
1	Influence of the frequency on the structure and corrosion resistance of ceramic coatings on Ti <sub>6</sub> Al <sub>4</sub> V alloy produced by micro-plasma oxidation. <i>Materials Chemistry and Physics</i> , <b>2005</b> , 92, 408-412	4.4	22