

Zhongping Yao

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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	SiC/Fe ₃ O ₄ dielectric/magnetic hybrid nanowires: controllable fabrication, characterization and electromagnetic wave absorption. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 16397-16402	13	175
91	Ultrahigh Mass Activity for Carbon Dioxide Reduction Enabled by Gold-Iron Core-Shell Nanoparticles. <i>Journal of the American Chemical Society</i> , 2017 , 139, 15608-15611	16.4	151
90	Covalent interaction enhanced electromagnetic wave absorption in SiC/Co hybrid nanowires. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 6517-6525	13	127
89	Microporous Ni-doped TiO ₂ film photocatalyst by plasma electrolytic oxidation. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 2617-22	9.5	124
88	Stacking fault and unoccupied densities of state dependence of electromagnetic wave absorption in SiC nanowires. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 4416-4423	7.1	112
87	Enhanced microwave absorption of Fe ₃ O ₄ nanocrystals after heterogeneously growing with ZnO nanoshell. <i>RSC Advances</i> , 2013 , 3, 3309	3.7	98
86	Electrochemical impedance spectroscopy of ceramic coatings on Ti6Al4V by micro-plasma oxidation. <i>Electrochimica Acta</i> , 2005 , 50, 3273-3279	6.7	88
85	Effect of Eu Doping on the Electrical Properties and Energy Storage Performance of PbZrO ₃ Antiferroelectric Thin Films. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 3234-3236	3.8	83
84	Fabrication of core-multishell MWCNT/Fe ₃ O ₄ /PANI/Au hybrid nanotubes with high-performance electromagnetic absorption. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10566-10572	13	82
83	Effect of additives on structure and corrosion resistance of ceramic coatings on Mg/Al alloy by micro-arc oxidation. <i>Current Applied Physics</i> , 2010 , 10, 719-723	2.6	77
82	Electric field-induced synthesis of dendritic nanostructured Fe for electromagnetic absorption application. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4571	13	60
81	Enhanced electrochemical reduction of CO ₂ to CO on Ag electrocatalysts with increased unoccupied density of states. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12616-12623	13	58
80	Structure and Properties of ZrO ₂ Ceramic Coatings on AZ91D Mg Alloy by Plasma Electrolytic Oxidation. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 555-558	3.8	58
79	Preparation of black high absorbance and high emissivity thermal control coating on Ti alloy by plasma electrolytic oxidation. <i>Surface and Coatings Technology</i> , 2014 , 253, 166-170	4.4	49
78	Preparation and structure of ceramic coatings containing zirconium oxide on Ti alloy by plasma electrolytic oxidation. <i>Journal of Materials Processing Technology</i> , 2008 , 205, 303-307	5.3	49
77	Synthesis of hierarchical dendritic micro-nano structure Co _x Fe _{1-x} alloy with tunable electromagnetic absorption performance. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12462	13	41
76	Preparation of PEO ceramic coating on Ti alloy and its high temperature oxidation resistance. <i>Current Applied Physics</i> , 2010 , 10, 698-702	2.6	38

75	Influence of FeSO ₄ concentration on thermal emissivity of coatings formed on titanium alloy by micro-arc oxidation. <i>Applied Surface Science</i> , 2011 , 257, 10839-10844	6.7	37
74	Self-assembled CuO nanoarchitectures and their catalytic activity in the thermal decomposition of ammonium perchlorate. <i>Colloid and Polymer Science</i> , 2009 , 287, 853-858	2.4	37
73	Electrical and Energy Storage Performance of Eu-Doped PbZrO ₃ Thin Films with Different Gradient Sequences. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 1486-1488	3.8	36
72	CdTe Quantum Dots Encapsulated ZnO Nanorods for Highly Efficient Photoelectrochemical Degradation of Phenols. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 26529-26537	3.8	34
71	Phase Diagram and Enhanced Piezoelectric Response of Lead-Free BaTiO ₃ /CaTiO ₃ /BaHfO ₃ System. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 3244-3251	3.8	33
70	Influence of Co(CH ₃ COO) ₂ concentration on thermal emissivity of coatings formed on titanium alloy by micro-arc oxidation. <i>Current Applied Physics</i> , 2012 , 12, 284-290	2.6	33
69	Preparation of thermal control coatings on Ti alloy by plasma electrolytic oxidation in K ₂ ZrF ₆ solution. <i>Surface and Coatings Technology</i> , 2015 , 269, 273-278	4.4	31
68	Synthesis of chrysalis-like CuO nanocrystals and their catalytic activity in the thermal decomposition of ammonium perchlorate. <i>Journal of Chemical Sciences</i> , 2009 , 121, 1077-1081	1.8	31
67	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> , 2017 , 325, 579-587	4.4	27
66	Effects of ceramic coating by micro-plasma oxidation on the corrosion resistance of Ti-6Al-4V alloy. <i>Surface and Coatings Technology</i> , 2005 , 200, 2445-2450	4.4	25
65	Phase transition behavior and high piezoelectric properties in lead-free BaTiO ₃ /CaTiO ₃ /BaHfO ₃ ceramics. <i>Journal of Materials Science</i> , 2014 , 49, 62-69	4.3	24
64	Preparation of immobilized coating Fenton-like catalyst for high efficient degradation of phenol. <i>Environmental Pollution</i> , 2017 , 224, 552-558	9.3	23
63	Effects of cathode pulse at high frequency on structure and composition of Al ₂ TiO ₅ ceramic coatings on Ti alloy by plasma electrolytic oxidation. <i>Materials Chemistry and Physics</i> , 2011 , 126, 227-231	4.4	22
62	Influence of the frequency on the structure and corrosion resistance of ceramic coatings on Ti-6Al-4V alloy produced by micro-plasma oxidation. <i>Materials Chemistry and Physics</i> , 2005 , 92, 408-412	4.4	22
61	A Fe ₃ O ₄ /FeAl ₂ O ₄ composite coating via plasma electrolytic oxidation on Q235 carbon steel for Fenton-like degradation of phenol. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 14927-36	5.1	21
60	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> , 2009 , 488, 273-278	5.7	21
59	Durian-like multi-functional Fe ₃ O ₄ /Au nanoparticles: synthesis, characterization and selective detection of benzidine. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9746	13	19
58	Mo-doped titania films: preparation, characterization and application for splitting water. <i>New Journal of Chemistry</i> , 2011 , 35, 423-429	3.6	19

57	Black Ceramic Thermal Control Coating Prepared by Microarc Oxidation. <i>International Journal of Applied Ceramic Technology</i> , 2007 , 4, 269-275	2	19
56	A Novel Flake-like Cu ₇ S ₄ Solar Absorber for High-Performance Large-Scale Water Evaporation. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5154-5161	6.1	17
55	Investigation of absorptance and emissivity of thermal control coatings on Mg-Li alloys and OES analysis during PEO process. <i>Scientific Reports</i> , 2016 , 6, 29563	4.9	16
54	Role of Sulfites in the Water Splitting Reaction. <i>Journal of Solution Chemistry</i> , 2016 , 45, 67-80	1.8	16
53	A facile preparation of ceramic coatings on Ti alloys for thermal protection systems. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 143, 236-241	6.4	15
52	Ultrahigh capacitance of TiO ₂ nanotube arrays/C/MnO ₂ electrode for supercapacitor. <i>Journal of Alloys and Compounds</i> , 2019 , 805, 396-403	5.7	15
51	Theoretical guidance for the construction of electron-rich reaction microcenters on CO ₂ /Fe bridges for enhanced Fenton-like degradation of tetracycline hydrochloride. <i>Chemical Engineering Journal</i> , 2021 , 411, 128535	14.7	15
50	Preparation of thermal control coatings on Mg/Li alloys by plasma electrolytic oxidation. <i>Surface and Coatings Technology</i> , 2016 , 307, 1236-1240	4.4	15
49	Effect of organic additives on structure and corrosion resistance of MAO coating. <i>Vacuum</i> , 2018 , 151, 8-14	3.7	14
48	Luminescent Au ₁₁ nanocluster superlattices with high thermal stability. <i>Journal of Materials Chemistry</i> , 2012 , 22, 3632		14
47	2D Carbide MXene under postetch low-temperature annealing for high performance supercapacitor electrode. <i>Electrochimica Acta</i> , 2020 , 359, 136960	6.7	14
46	Preparation of the plasma electrolytic oxidation coating on Mg Li alloy and its thermal control performance. <i>Surface and Coatings Technology</i> , 2019 , 369, 252-256	4.4	13
45	Study on coating growth characteristics during the electrolytic oxidation of a magnesium/lithium alloy by optical emission spectroscopy analysis. <i>RSC Advances</i> , 2015 , 5, 68806-68814	3.7	13
44	Two new metal-organic frameworks possessing binodal high-connected topologies based on Cd ₄ -clusters and organic ligands. <i>Journal of Coordination Chemistry</i> , 2011 , 64, 222-231	1.6	13
43	Solvothermal synthesis of graphene nanosheets as the electrode materials for supercapacitors. <i>Ionics</i> , 2015 , 21, 801-808	2.7	12
42	Construction of TiO Nanotubes/C/MnO Composite Films as a Binder-Free Electrode for a High-Performance Supercapacitor. <i>Inorganic Chemistry</i> , 2019 , 58, 1591-1598	5.1	12
41	Design of a novel immobilized solid acid coating and its application in Fenton-like oxidation of phenol. <i>Applied Surface Science</i> , 2017 , 409, 358-366	6.7	10
40	Pre- or post-TiCl ₄ treated TiO ₂ nano-array photoanode for QDSSC: Ti ³⁺ self-doping, flat-band level and electron diffusion length. <i>Applied Surface Science</i> , 2019 , 491, 319-327	6.7	10

39	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> , 2011 , 8, 112-119	2	10
38	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> , 2021 , 299, 120662 ^{21.8}	21.8	9
37	Synthesis of carbon modified TiO ₂ nanotubes composite films by gas thermal penetration as symmetrical and binder-free electrochemical supercapacitor. <i>Journal of Alloys and Compounds</i> , 2017 , 721, 795-802	5.7	8
36	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> , 2013 , 10, E310-E317	2	8
35	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> , 2017 , 711, 278-286	5.7	7
34	Enhancing Hydrogen Evolution Reaction by Synergistically Coupling NiMo Alloy with Ni(OH) ₂ Nanosheet on Carbon Cloth. <i>ChemistrySelect</i> , 2020 , 5, 6774-6779	1.8	7
33	Synthesis of hierarchical dendritic micro/nano structure ZnFe ₂ O ₄ and photocatalytic activities for water splitting. <i>Chinese Journal of Chemical Engineering</i> , 2016 , 24, 1112-1116	3.2	7
32	Hydrothermal synthesis of Ni-doped ZnS solid solution photocatalysts for photocatalytic H ₂ production. <i>Research on Chemical Intermediates</i> , 2019 , 45, 4927-4940	2.8	7
31	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> , 2007 , 42, 9434-9439	4.3	7
30	Pseudo-capacitance properties of porous metal oxide nanoplatelets derived from hydrotalcite-like compounds. <i>Journal of Applied Electrochemistry</i> , 2009 , 39, 1803-1808	2.6	6
29	Enhanced Hydrogen Evolution Activity of Ni/Ni ₃ S ₂ Nanosheet Grown on Ti Mesh by Cu Doped Ni. <i>Journal of the Electrochemical Society</i> , 2019 , 166, F168-F173	3.9	5
28	Polarization enhanced multi-grain-boundary dendritic micro/nano structure Fe for electromagnetic absorption applications: synthesis and characterization. <i>RSC Advances</i> , 2015 , 5, 25266-25272 ^{23.7}	23.7	5
27	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> , 2019 , 16, 994-1003	2	4
26	Revealing the enhancing mechanisms of Fe-Cu bimetallic catalysts for the Fenton-like degradation of phenol. <i>Chemosphere</i> , 2021 , 289, 133195	8.4	4
25	A High-Efficient Carbon-Coated Iron-Based Fenton-Like Catalyst with Enhanced Cycle Stability and Regenerative Performance. <i>Catalysts</i> , 2020 , 10, 1486	4	4
24	Mo Doped Amorphous Co _x Porous Leaf-Like Nanostructure on Ti Mesh as Electrocatalyst for Alkaline Hydrogen Production. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 114510	3.9	3
23	Black PEO coating with enhanced thermal stability on titanium alloy and its thermal control properties. <i>Surface and Coatings Technology</i> , 2021 , 429, 127934	4.4	3
22	Synthesis of the SO ₄ Be ₃ O ₄ /FeS coating catalyst on a TC4 titanium alloy for the enhanced Fenton-like degradation of phenol. <i>New Journal of Chemistry</i> , 2021 , 45, 1516-1524	3.6	3

21	Efficient homogeneous and isomorphic blocking layer β -phase rutile TiO ₂ electron transfer structure for quantum dot sensitized solar cells. <i>Results in Physics</i> , 2018 , 11, 1015-1021	3.7	3
20	Self-Assembly of Amphiphilic Linear-Dendritic Carbosilane Block Surfactant for Waterborne Polyurethane Coating. <i>Polymers</i> , 2020 , 12,	4.5	2
19	Crystallization and Dielectric Properties of MWCNT /Poly(1-Butene) Composite Films by a Solution Casting Method. <i>Materials</i> , 2020 , 13,	3.5	2
18	Determination and Relaxation of Residual Stress in 2024 Al-30 vol.% Magnesium Borate Whisker Composites. <i>Journal of Materials Engineering and Performance</i> , 2013 , 22, 3126-3133	1.6	2
17	Experiment and numerical simulation investigations of the combustion and NO _x emissions characteristics of an over-fire air system in a 600 MWe boiler. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017 , 71, 944-961	2.3	2
16	The enhanced catalytic activity and stability of Fe ₃ O ₄ -S@C Fenton-like catalyst for phenol degradation. <i>Research on Chemical Intermediates</i> , 2021 , 47, 3025-3035	2.8	2
15	Boosting electrocatalytic activity toward alkaline hydrogen evolution by strongly coupled ternary Ni ₃ S ₄ /Ni/Ni(OH) ₂ hybrid. <i>Electrochimica Acta</i> , 2021 , 382, 138342	6.7	2
14	Fabrication of CdS-Coated ZnO Nanorods Arrays for Photoelectrocatalytic Degradation of Phenol. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 8308-8314	1.3	2
13	Hydrothermal synthesis of a uniform sub-micrometer-spherical Zn _{0.83} Cd _{0.17} S photocatalyst with high activity for photocatalytic hydrogen production. <i>RSC Advances</i> , 2016 , 6, 51997-52003	3.7	2
12	Facile Preparation of Cu ₂ S/Cu Mesh For High-performance Solar Water Evaporation. <i>ChemistrySelect</i> , 2021 , 6, 7901-7905	1.8	2
11	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> , 2020 , 10, 461	2.9	1
10	Enhanced Fenton-like degradation of phenol by sulfur modified β -Fe ₂ O ₃ /Fe ₃ O ₄ /R-TiO ₂ composite coating on Ti alloy prepared by plasma electrolytic oxidation. <i>Materials Research Express</i> , 2019 , 6, 095532	1.7	1
9	Structural and morphological control of Mo doped titania films. <i>Catalysis Science and Technology</i> , 2011 , 1, 385	5.5	1
8	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> , 2021 , 13,	4.5	1
7	Preparation of Fe ₃ O ₄ /MWCNT nano-hybrid and its application as phenol sensor. <i>Materials Research Express</i> , 2018 , 5, 075003	1.7	1
6	Preparation of high absorptance and high emissivity coatings on Mg-Li alloy by plasma electrolytic oxidation. <i>Materials Research Express</i> , 2019 , 6, 106428	1.7	0
5	n-type polyaniline hole-blocking layer for high-efficiency QDSC by one-pot electropolymerization and selective aprotic cation ([EMIM]) doping. <i>Nanotechnology</i> , 2020 , 31, 315702	3.4	
4	The heteroepitaxial growth of KDP/ADP. <i>Crystal Research and Technology</i> , 2012 , 47, 517-522	1.3	

- 3 Calcination/acid-activation treatment of an anodic oxidation TiO₂/Ti film catalyst. *Rare Metals*, **2009**, 28, 428-433 5.5
- 2 Effect of Na₂SO₄ on Structure and Corrosion Resistance of Ceramics Coatings Containing Zirconium Oxide on Ti-6Al-4V Alloy. *Journal of the American Ceramic Society*, **2006**, 89, 060612075903009-???
- 1 Performance and Mechanism of FeS/FeSO as highly effective Fenton-like catalyst for phenol degradation.. *Environmental Technology (United Kingdom)*, **2022**, 1-30 2.6