

# Yang Shao

## List of Publications by Citations

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102  
papers

2,360  
citations

24  
h-index

45  
g-index

107  
ext. papers

2,837  
ext. citations

5.1  
avg, IF

5.25  
L-index

#	Paper	IF	Citations
102	Efficient Organic Heterojunction Photovoltaic Cells Based on Triplet Materials. <i>Advanced Materials</i> , <b>2005</b> , 17, 2841-2844	24	250
101	Effect of Ti additions on mechanical properties of NbMoTaW and VNbMoTaW refractory high entropy alloys. <i>Intermetallics</i> , <b>2017</b> , 84, 153-157	3.5	160
100	Atomic structure of T1 precipitates in Al <sub>0.5</sub> Ti <sub>1.5</sub> alloys revisited with HAADF-STEM imaging and small-angle X-ray scattering. <i>Acta Materialia</i> , <b>2011</b> , 59, 462-472	8.4	154
99	Microstructures and mechanical properties of Ti <sub>x</sub> NbMoTaW refractory high-entropy alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 712, 380-385	5.3	109
98	A senary TiZrHfCuNiBe high entropy bulk metallic glass with large glass-forming ability. <i>Materials Letters</i> , <b>2014</b> , 125, 151-153	3.3	80
97	Rapid decomposition of Direct Blue 6 in neutral solution by FeB amorphous alloys. <i>RSC Advances</i> , <b>2015</b> , 5, 6215-6221	3.7	78
96	Highly uniform and reproducible surface enhanced Raman scattering on air-stable metallic glassy nanowire array. <i>Scientific Reports</i> , <b>2014</b> , 4, 5835	4.9	78
95	Insight into the high reactivity of commercial FeSiB amorphous zero-valent iron in degrading azo dye solutions. <i>RSC Advances</i> , <b>2015</b> , 5, 34032-34039	3.7	72
94	Effects of Fe addition on glass-forming ability and mechanical properties of TiZrBe bulk metallic glass. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 536, 26-29	5.7	67
93	Unexpected high performance of Fe-based nanocrystallized ribbons for azo dye decomposition. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 14230-14240	13	56
92	Pseudo-quinary Ti <sub>20</sub> Zr <sub>20</sub> Hf <sub>20</sub> Be <sub>20</sub> (Cu <sub>20-x</sub> Ni <sub>x</sub> ) high entropy bulk metallic glasses with large glass forming ability. <i>Materials and Design</i> , <b>2015</b> , 87, 625-631	8.1	56
91	Fabrication and molecular dynamics analyses of highly thermal conductive reduced graphene oxide films at ultra-high temperatures. <i>Nanoscale</i> , <b>2017</b> , 9, 2340-2347	7.7	49
90	A TiZrBeFeCu bulk metallic glass with superior glass-forming ability and high specific strength. <i>Intermetallics</i> , <b>2013</b> , 43, 177-181	3.5	40
89	Direct experimental evidence of nano-voids formation and coalescence within shear bands. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 181909	3.4	38
88	Two-zone heterogeneous structure within shear bands of a bulk metallic glass. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 171901	3.4	37
87	High-Performance Carbon Dioxide Electrocatalytic Reduction by Easily Fabricated Large-Scale Silver Nanowire Arrays. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 17950-17956	9.5	35
86	Fabrication and microwave absorption properties of carbon-coated cementite nanocapsules. <i>Nanotechnology</i> , <b>2014</b> , 25, 035704	3.4	34

85	Imaging, core-loss, and low-loss electron-energy-loss spectroscopy mapping in aberration-corrected STEM. <i>Microscopy and Microanalysis</i> , <b>2010</b> , 16, 416-24	0.5	34
84	Experimental and Correlative Analyses of the Ageing Mechanism of Activated Carbon Based Supercapacitor. <i>Electrochimica Acta</i> , <b>2017</b> , 228, 214-225	6.7	33
83	Lightweight TiZrBeAl bulk metallic glasses with improved glass-forming ability and compressive plasticity. <i>Journal of Non-Crystalline Solids</i> , <b>2012</b> , 358, 2620-2625	3.9	29
82	Effects of Cu addition on the glass forming ability and corrosion resistance of Ti-Zr-Be-Ni alloys. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 725, 573-579	5.7	28
81	Quantification of the Ti oxidation state in BaTi <sub>1-x</sub> NbxO <sub>3</sub> compounds. <i>Ultramicroscopy</i> , <b>2010</b> , 110, 1014-1019	10.19	28
80	In-situ fabrication of MoSi <sub>2</sub> /SiC/Mo <sub>2</sub> C gradient anti-oxidation coating on Mo substrate and the crucial effect of Mo <sub>2</sub> C barrier layer at high temperature. <i>Applied Surface Science</i> , <b>2014</b> , 308, 261-268	6.7	25
79	Multi-phase nanocrystallization induced fast degradation of methyl orange by annealing Fe-based amorphous ribbons. <i>Intermetallics</i> , <b>2017</b> , 90, 30-35	3.5	24
78	Organic Solid Solutions: Formation and Applications in Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , <b>2005</b> , 15, 1781-1786	15.6	23
77	Effects of austenitizing temperature on the microstructure and electrochemical behavior of a martensitic stainless steel. <i>Journal of Applied Electrochemistry</i> , <b>2015</b> , 45, 375-383	2.6	22
76	Serration behaviours in metallic glasses with different plasticity. <i>Philosophical Magazine</i> , <b>2016</b> , 96, 2243-2255	2.55	22
75	The effect of simulated thermal cycling on thermal and mechanical stability of a Ti-based bulk metallic glass. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 575, 449-454	5.7	22
74	Effect of residual stress on azo dye degradation capability of Fe-based metallic glass. <i>Journal of Non-Crystalline Solids</i> , <b>2017</b> , 473, 74-78	3.9	22
73	In-situ synthesis, operation and regeneration of nanoporous silver with high performance toward oxygen reduction reaction. <i>Nano Energy</i> , <b>2019</b> , 58, 69-77	17.1	22
72	The shear band controlled deformation in metallic glass: a perspective from fracture. <i>Scientific Reports</i> , <b>2016</b> , 6, 21852	4.9	21
71	Centimeter-sized Ti-based bulk metallic glass with high specific strength. <i>Progress in Natural Science: Materials International</i> , <b>2012</b> , 22, 401-406	3.6	21
70	Structural and transport properties of epitaxial niobium-doped BaTiO <sub>3</sub> films. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 192114	3.4	21
69	Phase stabilities of high entropy alloys. <i>Scripta Materialia</i> , <b>2020</b> , 179, 40-44	5.6	20
68	Hierarchically Mesostructured Aluminum Current Collector for Enhancing the Performance of Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 16572-16580	9.5	20

67	Large-area and uniform amorphous metallic nanowire arrays prepared by die nanoimprinting. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 605, 7-11	5.7	20
66	A New Centimeter-Sized Ti-Based Quaternary Bulk Metallic Glass with Good Mechanical Properties. <i>Advanced Engineering Materials</i> , <b>2013</b> , 15, 691-696	3.5	20
65	One-pot preparation of nanoporous Ag-Cu@Ag core-shell alloy with enhanced oxidative stability and robust antibacterial activity. <i>Scientific Reports</i> , <b>2017</b> , 7, 10249	4.9	20
64	Fe-based bulk amorphous alloys with high glass formation ability and high saturation magnetization. <i>Science Bulletin</i> , <b>2015</b> , 60, 396-399	10.6	18
63	Microstructure, phase stability and mechanical properties of Nb <sub>40</sub> Ni <sub>10</sub> Co <sub>20</sub> Zr and Nb <sub>40</sub> Ni <sub>10</sub> Co <sub>20</sub> Zr <sub>10</sub> high entropy alloys. <i>Progress in Natural Science: Materials International</i> , <b>2015</b> , 25, 365-369	3.6	18
62	Effect of thermal cycling on the mechanical properties of Zr <sub>41</sub> Ti <sub>14</sub> Cu <sub>12.5</sub> Ni <sub>10</sub> Be <sub>22.5</sub> alloy. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2012</b> , 55, 2357-2361	3.6	18
61	Scalable preparation of hierarchical porous activated carbon/graphene composites for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 10058-10066	13	17
60	The effect of void defects on the shear band nucleation of metallic glasses. <i>Intermetallics</i> , <b>2018</b> , 94, 114-118	3.8	15
59	Structures and corrosion properties of the AlCrFeNiMo <sub>0.5</sub> Ti <sub>x</sub> high entropy alloys. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2018</b> , 69, 641-647	1.6	15
58	Centimeter-sized Ti-rich bulk metallic glasses with superior specific strength and corrosion resistance. <i>Journal of Non-Crystalline Solids</i> , <b>2019</b> , 512, 206-210	3.9	14
57	Atomic structure and bonding of the interfacial bilayer between Au nanoparticles and epitaxially regrown MgAl <sub>2</sub> O <sub>4</sub> substrates. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 231607	3.4	14
56	Excellent long-term reactivity of inhomogeneous nanoscale Fe-based metallic glass in wastewater purification. <i>Science China Materials</i> , <b>2020</b> , 63, 453-466	7.1	14
55	The multiple shear bands and plasticity in metallic glasses: A possible origin from stress redistribution. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 695, 3457-3466	5.7	13
54	The material-dependence of plasticity in metallic glasses: An origin from shear band thermology. <i>Materials and Design</i> , <b>2016</b> , 96, 189-194	8.1	13
53	Coexistence of A- and B-Site Vacancy Compensation in La-Doped Sr <sub>1-x</sub> BaxTiO <sub>3</sub> . <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 2903-2908	3.8	13
52	Understanding the effects of Poisson's ratio on the shear band behavior and plasticity of metallic glasses. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 6789-6799	4.3	12
51	Oxide-derived nanostructured metallic-glass electrodes for efficient electrochemical hydrogen generation. <i>RSC Advances</i> , <b>2017</b> , 7, 27058-27064	3.7	12
50	Serration Behavior of a Zr-Based Metallic Glass Under Different Constrained Loading Conditions. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2016</b> , 47, 5395-5400	2.3	12

49	Ti-Zr-Be-Fe quaternary bulk metallic glasses designed by Fe alloying. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2013</b> , 56, 2090-2097	3.6	12
48	The pressure dependence of the structure and superconducting transition temperature of MgB <sub>2</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, 1103-1113	1.8	12
47	An abnormal correlation between electron work function and corrosion resistance in Ti-Zr-Be-(Ni/Fe) metallic glasses. <i>Corrosion Science</i> , <b>2020</b> , 165, 108392	6.8	12
46	High-accuracy bulk metallic glass mold insert for hot embossing of complex polymer optical devices. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2015</b> , 53, 463-467	2.6	11
45	Porous composite architecture bestows Fe-based glassy alloy with high and ultra-durable degradation activity in decomposing azo dye. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 388, 122043	12.8	11
44	Facile synthesis of air-stable nano/submicro dendritic copper structures and their anti-oxidation properties. <i>RSC Advances</i> , <b>2014</b> , 4, 33362-33365	3.7	11
43	Unique energy-storage behavior related to structural heterogeneity in high-entropy metallic glass. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 786, 139417	5.3	10
42	A study of cooling process in bulk metallic glasses fabrication. <i>AIP Advances</i> , <b>2015</b> , 5, 117111	1.5	10
41	Applications of Aberration-corrected TEM and STEM in Complex Oxides and Nanostructured Materials. <i>Microscopy and Microanalysis</i> , <b>2009</b> , 15, 154-155	0.5	10
40	Novel corrosion behaviours of the annealing and cryogenic thermal cycling treated Ti-based metallic glasses. <i>Intermetallics</i> , <b>2019</b> , 110, 106467	3.5	9
39	Fabrication of CrSi <sub>2</sub> /MoSi <sub>2</sub> /SiC/Mo <sub>2</sub> C gradient composite coating on Mo substrate and the stabilizing effect of Cr on the coating's anti-oxidation properties. <i>Surface and Coatings Technology</i> , <b>2015</b> , 282, 188-199	4.4	9
38	The novel Ti-based metallic glass with excellent glass forming ability and an elastic constant dependent glass forming criterion. <i>Materialia</i> , <b>2019</b> , 8, 100433	3.2	9
37	Effect of alternating voltage treatment on corrosion resistance of AZ91D magnesium alloy. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2012</b> , 63, 505-516	1.6	9
36	Effects of the Cooling Rate on the Plasticity of Pd 40.5 Ni 40.5 P 19 Bulk Metallic Glasses. <i>Chinese Physics Letters</i> , <b>2011</b> , 28, 116104	1.8	9
35	Sr ion distribution and local structure in La <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2006</b> , 18, 5579-5586	1.8	8
34	Preparation of Fe <sub>70</sub> Ni <sub>10</sub> B <sub>20</sub> metallic nano-ribbons. <i>Materials Letters</i> , <b>2013</b> , 93, 103-106	3.3	7
33	Size effect in Pd <sub>77.5</sub> Cu <sub>6</sub> Si <sub>16.5</sub> metallic glass micro-wires: More scattered strength with decreasing diameter. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 011905	3.4	7
32	Nanoporous silver using pulsed laser deposition for high-performance oxygen reduction reaction and hydrogen peroxide sensing. <i>Nanoscale</i> , <b>2020</b> , 12, 19413-19419	7.7	7

31	Understanding the Fracture Behaviors of Metallic Glasses: An Overview. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 4277	2.6	7
30	A Centimeter-Sized Quaternary Ti-Zr-Be-Ag Bulk Metallic Glass. <i>Advances in Materials Science and Engineering</i> , <b>2014</b> , 2014, 1-5	1.5	6
29	Morphology and structure evolution of metallic nanowire arrays prepared by die nanoimprinting. <i>Science Bulletin</i> , <b>2015</b> , 60, 629-633	10.6	5
28	Chemical composition dependence of atomic oxygen erosion resistance in Cu-rich bulk metallic glasses. <i>Science Bulletin</i> , <b>2012</b> , 57, 4801-4804		5
27	NiFe Layered Double Hydroxides Grown on a Corrosion-Cell Cathode for Oxygen Evolution Electrocatalysis. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2102372	21.8	5
26	Experimental and Theoretical Advances in Amorphous Alloys. <i>Advances in Materials Science and Engineering</i> , <b>2014</b> , 2014, 1-2	1.5	4
25	Nanocrystalline Phase Formation inside Shear Bands of Pd-Cu-Si Metallic Glass. <i>Advances in Materials Science and Engineering</i> , <b>2014</b> , 2014, 1-4	1.5	4
24	Effect of hydrostatic pressure on the nature of passive film of pure nickel. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2011</b> , 62, 269-274	1.6	4
23	Corrosion behavior of Mg-10Gd-2Y-0.4Zr alloy under thin electrolyte layers. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2010</b> , 61, 388-397	1.6	4
22	Cryogenic Charpy impact toughness of (Ti <sub>41</sub> Zr <sub>25</sub> Be <sub>26</sub> Ni <sub>8</sub> ) <sub>93</sub> Cu <sub>7</sub> bulk metallic glass. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 786, 139442	5.3	4
21	Segregating the homogeneous passive film and understanding the passivation mechanism of Ti-based metallic glasses. <i>Corrosion Science</i> , <b>2021</b> , 178, 109078	6.8	4
20	A stochastic analysis of the effect of magnetic field on the pitting corrosion susceptibility of pure magnesium. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2010</b> , 61, 306-312	1.6	3
19	Effect of Mo Addition on The Microstructure and Mechanical Properties of CoCuFeNi High Entropy Alloy. <i>Metals</i> , <b>2020</b> , 10, 1017	2.3	3
18	Cheap, fast and durable degradation of azo dye wastewater by zero-valent iron structural composites. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 106314	6.8	3
17	How does the structural inhomogeneity influence the shear band behaviours of metallic glasses. <i>Philosophical Magazine</i> , <b>2020</b> , 100, 1663-1681	1.6	2
16	A non-viscous-featured fractograph in metallic glasses. <i>Philosophical Magazine</i> , <b>2016</b> , 96, 542-550	1.6	2
15	Fe-based multi-phase nanocrystalline ribbons with hierarchically flowerlike structured metal oxides after modified by Orange II for CrVI absorption. <i>Journal of Iron and Steel Research International</i> , <b>2018</b> , 25, 608-613	1.2	2
14	Ultrafine eutectic Ti <sub>x</sub> Sn <sub>y</sub> /TiNi composites with high damping capacity. <i>Rare Metals</i> , <b>2013</b> , 32, 196-200	5.5	2

13	Structural investigation of interface and defects in epitaxial Bi <sub>3.25</sub> La <sub>0.75</sub> Ti <sub>3</sub> O <sub>12</sub> film on SrRuO <sub>3</sub> /SrTiO <sub>3</sub> (111) and (100). <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 044102	2.5	2
12	Electrochemical corrosion resistance of the amorphous and crystalline Pd-based alloys in simulated seawater. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2018</b> , 69, 1509-1515	1.6	1
11	Novel Ti <sub>3</sub> Sn based high damping material with high strength. <i>Materials Research Innovations</i> , <b>2014</b> , 18, S4-584-S4-587	1.9	1
10	The role of lattice misfit strains in the deposition of epitaxial (Ba <sub>1-x</sub> Sr <sub>x</sub> )Ti <sub>0.5</sub> Nb <sub>0.5</sub> O <sub>3</sub> films. <i>Journal of Crystal Growth</i> , <b>2009</b> , 311, 2753-2758	1.6	1
9	NiFe Layered Double Hydroxides Grown on a Corrosion-Cell Cathode for Oxygen Evolution Electrocatalysis (Adv. Energy Mater. 2/2022). <i>Advanced Energy Materials</i> , <b>2022</b> , 12, 2270006	21.8	1
8	Magical oxygen: Tuning Cu&Ag nanoporous membrane into nanoporous (Cu&Ag)@Ag core-shell alloy. <i>Physica B: Condensed Matter</i> , <b>2021</b> , 614, 413011	2.8	1
7	Stress-induced activation of the commercial Fe-based metallic glass ribbons for azo dye degradation. <i>Journal of Non-Crystalline Solids</i> , <b>2021</b> , 572, 121117	3.9	1
6	High-entropy induced a glass-to-glass transition in a metallic glass.. <i>Nature Communications</i> , <b>2022</b> , 13, 2183	17.4	1
5	Microstructures and Mechanical Properties of AlCrFeNiMo 0.5 Ti x High Entropy Alloys. <i>Chinese Physics Letters</i> , <b>2018</b> , 35, 036102	1.8	0
4	Simulation of Structural Parameters and Superconducting Transition Temperature of MgB <sub>2</sub> under Pressure. <i>Materials Science Forum</i> , <b>2005</b> , 475-479, 3319-3322	0.4	
3	High-quality graphene from the surface of CrFeCoNiC high-entropy alloy. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 889, 161712	5.7	
2	Effect of TiC Addition on the High-Temperature Hardness and the Carbide Stability in Al <sub>0.2</sub> CoCrFeNi <sub>1.5</sub> Ti High-Entropy Alloy. <i>Russian Journal of Non-Ferrous Metals</i> , <b>2021</b> , 62, 708-715	0.8	
1	Intrinsic fast kinetics on the degradation of azo dye by iron in alkaline condition. <i>Chemical Engineering Journal Advances</i> , <b>2022</b> , 100321	3.6	