

# Yang Shao

## List of Publications by Year in descending order

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104  
papers

3,296  
citations

182225

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107  
all docs

107  
docs citations

107  
times ranked

3640  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-quality graphene from the surface of CrFeCoNiC high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2022, 889, 161712.	2.8	1
2	NiFe Layered Double Hydroxides Grown on a Corrosion-Resistant Cell Cathode for Oxygen Evolution Electrocatalysis. <i>Advanced Energy Materials</i> , 2022, 12, 2102372.	10.2	51
3	NiFe Layered Double Hydroxides Grown on a Corrosion-Resistant Cell Cathode for Oxygen Evolution Electrocatalysis ( <i>Adv. Energy Mater.</i> 2/2022). <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	6
4	High-entropy induced a glass-to-glass transition in a metallic glass. <i>Nature Communications</i> , 2022, 13, 2183.	5.8	34
5	Intrinsic fast kinetics on the degradation of azo dye by iron in alkaline condition. <i>Chemical Engineering Journal Advances</i> , 2022, , 100321.	2.4	0
6	Theoretical and experimental study of metallic glass die-imprinting for manufacturing large-size micro/nano structures. <i>Journal of Materials Processing Technology</i> , 2022, 307, 117699.	3.1	4
7	Pressure-induced local structural crossover in a high-entropy metallic glass. <i>Physical Review B</i> , 2022, 105, .	1.1	2
8	Segregating the homogeneous passive film and understanding the passivation mechanism of Ti-based metallic glasses. <i>Corrosion Science</i> , 2021, 178, 109078.	3.0	19
9	Magical oxygen: Tuning Cu&Ag nanoporous membrane into nanoporous (Cu&Ag)@Ag core-shell alloy. <i>Physica B: Condensed Matter</i> , 2021, 614, 413011.	1.3	4
10	Cheap, fast and durable degradation of azo dye wastewater by zero-valent iron structural composites. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106314.	3.3	7
11	Stress-induced activation of the commercial Fe-based metallic glass ribbons for azo dye degradation. <i>Journal of Non-Crystalline Solids</i> , 2021, 572, 121117.	1.5	3
12	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> , 2021, 62, 708-715.	0.2	0
13	Excellent long-term reactivity of inhomogeneous nanoscale Fe-based metallic glass in wastewater purification. <i>Science China Materials</i> , 2020, 63, 453-466.	3.5	22
14	An abnormal correlation between electron work function and corrosion resistance in Ti-Zr-Be-(Ni/Fe) metallic glasses. <i>Corrosion Science</i> , 2020, 165, 108392.	3.0	29
15	Effect of Mo Addition on The Microstructure and Mechanical Properties of CoCuFeNi High Entropy Alloy. <i>Metals</i> , 2020, 10, 1017.	1.0	8
16	Nanoporous silver using pulsed laser deposition for high-performance oxygen reduction reaction and hydrogen peroxide sensing. <i>Nanoscale</i> , 2020, 12, 19413-19419.	2.8	14
17	How does the structural inhomogeneity influence the shear band behaviours of metallic glasses. <i>Philosophical Magazine</i> , 2020, 100, 1663-1681.	0.7	3
18	Phase stabilities of high entropy alloys. <i>Scripta Materialia</i> , 2020, 179, 40-44.	2.6	51

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19	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> , 2020, 388, 122043.	6.5	20
20	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> , 2020, 786, 139417.	2.6	15
21	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> , 2020, 786, 139442.	2.6	10
22	The novel Ti-based metallic glass with excellent glass forming ability and an elastic constant dependent glass forming criterion. <i>Materialia</i> , 2019, 8, 100433.	1.3	14
23	Novel corrosion behaviours of the annealing and cryogenic thermal cycling treated Ti-based metallic glasses. <i>Intermetallics</i> , 2019, 110, 106467.	1.8	23
24	Scalable preparation of hierarchical porous activated carbon/graphene composites for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 10058-10066.	5.2	19
25	Centimeter-sized Ti-rich bulk metallic glasses with superior specific strength and corrosion resistance. <i>Journal of Non-Crystalline Solids</i> , 2019, 512, 206-210.	1.5	18
26	Understanding the Fracture Behaviors of Metallic Glasses—An Overview. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4277.	1.3	11
27	In-situ synthesis, operation and regeneration of nanoporous silver with high performance toward oxygen reduction reaction. <i>Nano Energy</i> , 2019, 58, 69-77.	8.2	27
28	Electrochemical corrosion resistance of the amorphous and crystalline Pd-based alloys in simulated seawater. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2018, 69, 1509-1515.	0.8	2
29	The effect of void defects on the shear band nucleation of metallic glasses. <i>Intermetallics</i> , 2018, 94, 114-118.	1.8	21
30	Hierarchically Mesostructured Aluminum Current Collector for Enhancing the Performance of Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 16572-16580.	4.0	32
31	Microstructures and Mechanical Properties of AlCrFeNiMo <sub>0.5</sub> Ti <sub>x</sub> High Entropy Alloys. <i>Chinese Physics Letters</i> , 2018, 35, 036102.	1.3	5
32	Microstructures and mechanical properties of Ti NbMoTaW refractory high-entropy alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 712, 380-385.	2.6	209
33	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> , 2018, 69, 641-647.	0.8	28
34	High-Performance Carbon Dioxide Electrocatalytic Reduction by Easily Fabricated Large-Scale Silver Nanowire Arrays. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 17950-17956.	4.0	51
35	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> , 2018, 25, 608-613.	1.4	4
36	Fabrication and molecular dynamics analyses of highly thermal conductive reduced graphene oxide films at ultra-high temperatures. <i>Nanoscale</i> , 2017, 9, 2340-2347.	2.8	71

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37	Experimental and Correlative Analyses of the Ageing Mechanism of Activated Carbon Based Supercapacitor. <i>Electrochimica Acta</i> , 2017, 228, 214-225.	2.6	46
38	Effect of Ti additions on mechanical properties of NbMoTaW and VNbMoTaW refractory high entropy alloys. <i>Intermetallics</i> , 2017, 84, 153-157.	1.8	289
39	Understanding the effects of Poisson's ratio on the shear band behavior and plasticity of metallic glasses. <i>Journal of Materials Science</i> , 2017, 52, 6789-6799.	1.7	14
40	Unexpected high performance of Fe-based nanocrystallized ribbons for azo dye decomposition. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14230-14240.	5.2	74
41	Oxide-derived nanostructured metallic-glass electrodes for efficient electrochemical hydrogen generation. <i>RSC Advances</i> , 2017, 7, 27058-27064.	1.7	17
42	The multiple shear bands and plasticity in metallic glasses: A possible origin from stress redistribution. <i>Journal of Alloys and Compounds</i> , 2017, 695, 3457-3466.	2.8	17
43	One-pot preparation of nanoporous Ag-Cu@Ag core-shell alloy with enhanced oxidative stability and robust antibacterial activity. <i>Scientific Reports</i> , 2017, 7, 10249.	1.6	29
44	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> , 2017, 725, 573-579.	2.8	37
45	Effect of residual stress on azo dye degradation capability of Fe-based metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2017, 473, 74-78.	1.5	29
46	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> , 2017, 111, .	1.5	7
47	Multi-phase nanocrystallization induced fast degradation of methyl orange by annealing Fe-based amorphous ribbons. <i>Intermetallics</i> , 2017, 90, 30-35.	1.8	34
48	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> , 2016, 47, 5395-5400.	1.1	13
49	The shear band controlled deformation in metallic glass: a perspective from fracture. <i>Scientific Reports</i> , 2016, 6, 21852.	1.6	22
50	Serration behaviours in metallic glasses with different plasticity. <i>Philosophical Magazine</i> , 2016, 96, 2243-2255.	0.7	23
51	The material-dependence of plasticity in metallic glasses: An origin from shear band thermology. <i>Materials and Design</i> , 2016, 96, 189-194.	3.3	13
52	A non-viscous-featured fractograph in metallic glasses. <i>Philosophical Magazine</i> , 2016, 96, 542-550.	0.7	2
53	A study of cooling process in bulk metallic glasses fabrication. <i>AIP Advances</i> , 2015, 5, .	0.6	14
54	Microstructure, phase stability and mechanical properties of Nb-Ni-Ti-Co-Zr and Nb-Ni-Ti-Co-Zr-Hf high entropy alloys. <i>Progress in Natural Science: Materials International</i> , 2015, 25, 365-369.	1.8	33

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55	Morphology and structure evolution of metallic nanowire arrays prepared by die nanoimprinting. <i>Science Bulletin</i> , 2015, 60, 629-633.	4.3	9
56	Effects of austenitizing temperature on the microstructure and electrochemical behavior of a martensitic stainless steel. <i>Journal of Applied Electrochemistry</i> , 2015, 45, 375-383.	1.5	31
57	Fe-based bulk amorphous alloys with high glass formation ability and high saturation magnetization. <i>Science Bulletin</i> , 2015, 60, 396-399.	4.3	21
58	Insight into the high reactivity of commercial Fe <sub>78</sub> Si <sub>22</sub> B amorphous zero-valent iron in degrading azo dye solutions. <i>RSC Advances</i> , 2015, 5, 34032-34039.	1.7	96
59	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> , 2015, 53, 463-467.	2.4	16
60	Rapid decomposition of Direct Blue 6 in neutral solution by Fe <sub>78</sub> B amorphous alloys. <i>RSC Advances</i> , 2015, 5, 6215-6221.	1.7	96
61	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> , 2015, 87, 625-631.	3.3	83
62	Fabrication of CrSi <sub>2</sub> /MoSi <sub>2</sub> /Si <sub>3</sub> N <sub>4</sub> /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> , 2015, 282, 188-199.	2.2	15
63	Experimental and Theoretical Advances in Amorphous Alloys. <i>Advances in Materials Science and Engineering</i> , 2014, 2014, 1-2.	1.0	6
64	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> , 2014, 105, .	1.5	16
65	Nanocrystalline Phase Formation inside Shear Bands of Pd-Cu-Si Metallic Glass. <i>Advances in Materials Science and Engineering</i> , 2014, 2014, 1-4.	1.0	4
66	Direct experimental evidence of nano-voids formation and coalescence within shear bands. <i>Applied Physics Letters</i> , 2014, 105, 181909.	1.5	51
67	Novel Ti <sub>3</sub> Sn based high damping material with high strength. <i>Materials Research Innovations</i> , 2014, 18, S4-584-S4-587.	1.0	2
68	A Centimeter-Sized Quaternary Ti-Zr-Be-Ag Bulk Metallic Glass. <i>Advances in Materials Science and Engineering</i> , 2014, 2014, 1-5.	1.0	6
69	In-situ fabrication of MoSi <sub>2</sub> /Si <sub>3</sub> N <sub>4</sub> /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> , 2014, 308, 261-268.	3.1	32
70	A senary TiZrHfCuNiBe high entropy bulk metallic glass with large glass-forming ability. <i>Materials Letters</i> , 2014, 125, 151-153.	1.3	112
71	Facile synthesis of air-stable nano/submicro dendritic copper structures and their anti-oxidation properties. <i>RSC Advances</i> , 2014, 4, 33362-33365.	1.7	12
72	Large-area and uniform amorphous metallic nanowire arrays prepared by die nanoimprinting. <i>Journal of Alloys and Compounds</i> , 2014, 605, 7-11.	2.8	26

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73	Fabrication and microwave absorption properties of carbon-coated cementite nanocapsules. <i>Nanotechnology</i> , 2014, 25, 035704.	1.3	36
74	Highly Uniform and Reproducible Surface Enhanced Raman Scattering on Air-stable Metallic Glassy Nanowire Array. <i>Scientific Reports</i> , 2014, 4, 5835.	1.6	86
75	A New Centimeter-Sized Ti-Based Quaternary Bulk Metallic Glass with Good Mechanical Properties. <i>Advanced Engineering Materials</i> , 2013, 15, 691-696.	1.6	21
76	Ti-Zr-Be-Fe quaternary bulk metallic glasses designed by Fe alloying. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013, 56, 2090-2097.	2.0	12
77	A Ti-Zr-Be-Cu bulk metallic glass with superior glass-forming ability and high specific strength. <i>Intermetallics</i> , 2013, 43, 177-181.	1.8	45
78	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> , 2013, 575, 449-454.	2.8	32
79	Preparation of Fe-Ni-P-B metallic nano-ribbons. <i>Materials Letters</i> , 2013, 93, 103-106.	1.3	7
80	Ultrafine eutectic Ti x Sn y /TiNi composites with high damping capacity. <i>Rare Metals</i> , 2013, 32, 196-200.	3.6	3
81	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> , 2013, 113, 044102.	1.1	2
82	Two-zone heterogeneous structure within shear bands of a bulk metallic glass. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	43
83	Effects of Fe addition on glass-forming ability and mechanical properties of Ti-Zr-Be bulk metallic glass. <i>Journal of Alloys and Compounds</i> , 2012, 536, 26-29.	2.8	70
84	Centimeter-sized Ti-based bulk metallic glass with high specific strength. <i>Progress in Natural Science: Materials International</i> , 2012, 22, 401-406.	1.8	24
85	Lightweight Ti-Zr-Be-Al bulk metallic glasses with improved glass-forming ability and compressive plasticity. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 2620-2625.	1.5	30
86	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> , 2012, 55, 2357-2361.	2.0	22
87	Chemical composition dependence of atomic oxygen erosion resistance in Cu-rich bulk metallic glasses. <i>Science Bulletin</i> , 2012, 57, 4801-4804.	1.7	6
88	Effect of alternating voltage treatment on corrosion resistance of AZ91D magnesium alloy. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2012, 63, 505-516.	0.8	10
89	Effect of hydrostatic pressure on the nature of passive film of pure nickel. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2011, 62, 269-274.	0.8	7
90	Atomic structure of T1 precipitates in Al-Li-Cu alloys revisited with HAADF-STEM imaging and small-angle X-ray scattering. <i>Acta Materialia</i> , 2011, 59, 462-472.	3.8	198

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91	Effects of the Cooling Rate on the Plasticity of Pd <sub>40.5</sub> Ni <sub>40.5</sub> P <sub>19</sub> Bulk Metallic Glasses. Chinese Physics Letters, 2011, 28, 116104.	1.3	10
92	Imaging, Core-Loss, and Low-Loss Electron-Energy-Loss Spectroscopy Mapping in Aberration-Corrected STEM. Microscopy and Microanalysis, 2010, 16, 416-424.	0.2	36
93	Quantification of the Ti oxidation state in BaTi <sub>1-x</sub> Nb <sub>x</sub> O <sub>3</sub> compounds. Ultramicroscopy, 2010, 110, 1014-1019.	0.8	32
94	A stochastic analysis of the effect of magnetic field on the pitting corrosion susceptibility of pure magnesium. Materials and Corrosion - Werkstoffe Und Korrosion, 2010, 61, 306-312.	0.8	6
95	Corrosion behavior of Mg <sub>10</sub> Gd <sub>2</sub> Y <sub>0.4</sub> Zr alloy under thin electrolyte layers. Materials and Corrosion - Werkstoffe Und Korrosion, 2010, 61, 388-397.	0.8	5
96	Coexistence of A <sup>2+</sup> and B <sup>2+</sup> Site Vacancy Compensation in La <sup>3+</sup> -Doped Sr <sub>1-x</sub> Ba <sub>x</sub> TiO <sub>3</sub> . Journal of the American Ceramic Society, 2010, 93, 2903-2908.	1.9	16
97	The role of lattice misfit strains in the deposition of epitaxial (Ba <sub>1-y</sub> Sr <sub>y</sub> )Ti <sub>0.5</sub> Nb <sub>0.5</sub> O <sub>3</sub> films. Journal of Crystal Growth, 2009, 311, 2753-2758.	0.7	1
98	Applications of Aberration-corrected TEM and STEM in Complex Oxides and Nanostructured Materials. Microscopy and Microanalysis, 2009, 15, 154-155.	0.2	13
99	Structural and transport properties of epitaxial niobium-doped BaTiO <sub>3</sub> films. Applied Physics Letters, 2008, 93, 192114.	1.5	21
100	Sr ion distribution and local structure in La <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> . Journal of Physics Condensed Matter, 2006, 18, 5579-5586.	0.7	8
101	Organic Solid Solutions: Formation and Applications in Organic Light-Emitting Diodes. Advanced Functional Materials, 2005, 15, 1781-1786.	7.8	30
102	Efficient Organic Heterojunction Photovoltaic Cells Based on Triplet Materials. Advanced Materials, 2005, 17, 2841-2844.	11.1	267
103	Simulation of Structural Parameters and Superconducting Transition Temperature of MgB <sub>2</sub> under Pressure. Materials Science Forum, 2005, 475-479, 3319-3322.	0.3	0
104	The pressure dependence of the structure and superconducting transition temperature of MgB <sub>2</sub> . Journal of Physics Condensed Matter, 2004, 16, 1103-1113.	0.7	12