Yong Wang

List of Publications by Year in Descending Order

53 papers	2,514 citations	20 h-index	50 g-index
54 ext. papers	3,285 ext. citations	10.1 avg, IF	5.67 L-index

#	Paper	IF	Citations
53	Efficient and Stable Red Perovskite Light-Emitting Diodes with Operational Stability >300 h. *Advanced Materials*, **2021**, 33, e2008820	24	38
52	Tailoring the Interface in FAPbI3 Planar Perovskite Solar Cells by Imidazole-Graphene-Quantum-Dots. *Advanced Functional Materials*, **2021**, 31, 2101438	15.6	20
51	Hot Carrier Dynamics and Charge Trapping in Surface Passivated □CsPbI Inorganic Perovskite. *Journal of Physical Chemistry Letters*, **2021**, 12, 6907-6913	6.4	1
50	Evaporation-Free Organic Solar Cells with High Efficiency Enabled by Dry and Nonimmersive Sintering Strategy. *Advanced Functional Materials*, **2021**, 31, 2010764	15.6	3
49	Stable Cesium-Rich Formamidinium/Cesium Pure-Iodide Perovskites for Efficient Photovoltaics. *ACS Energy Letters*, **2021**, 6, 2735-2741	20.1	9
48	Efficient and Stable CsPbI Inorganic Perovskite Photovoltaics Enabled by Crystal Secondary Growth. *Advanced Materials*, **2021**, 33, e2103688	24	24
47	Effect of Fe2B orientation morphology on high temperature erosion-wear behavior of FeB alloy in liquid zinc. *Wear*, **2021**, 484-485, 204038	3.5	1
46	Organic nanocrystals induced surface passivation towards high-efficiency and stable perovskite solar cells. *Nano Energy*, **2021**, 89, 106445	17.1	5
45	High Phase Stability in CsPbI Enabled by Pb-I Octahedra Anchors for Efficient Inorganic Perovskite Photovoltaics. *Advanced Materials*, **2020**, 32, e2000186	24	52
44	Realizing the ultimate goal of fully solution-processed organic solar cells: a compatible self-sintering method to achieve silver back electrode. *Journal of Materials Chemistry A*, **2020**, 8, 6083-6091	13	6
43	High crystallinity and photovoltaic performance of CsPbI3 film enabled by secondary dimension. *Journal of Energy Chemistry*, **2020**, 48, 181-186	12	9
42	2-Aminobenzenethiol-Functionalized Silver-Decorated Nanoporous Silicon Photoelectrodes for Selective CO2 Reduction. *Angewandte Chemie*, **2020**, 132, 11559-11566	3.6	4
41	Steric Mixed-Cation 2D Perovskite as a Methylammonium Locker to Stabilize MAPbI3. *Angewandte Chemie*, **2020**, 132, 1485-1489	3.6	11
40	Chemically Stable Black Phase CsPbI Inorganic Perovskites for High-Efficiency Photovoltaics. *Advanced Materials*, **2020**, 32, e2001025	24	48
39	Establishing Multifunctional Interface Layer of Perovskite Ligand Modified Lead Sulfide Quantum Dots for Improving the Performance and Stability of Perovskite Solar Cells. *Small*, **2020**, 16, e2002628	11	13
38	Triple Interface Passivation Strategy-Enabled Efficient and Stable Inverted Perovskite Solar Cells. *Small Methods*, **2020**, 4, 2000478	12.8	25
37	Highly Efficient (110) Orientated FA-MA Mixed Cation Perovskite Solar Cells via Functionalized Carbon Nanotube and Methylammonium Chloride Additive. *Small Methods*, **2020**, 4, 1900511	12.8	13

36	Efficient Interconnection in Perovskite Tandem Solar Cells. *Small Methods*, **2020**, 4, 2000093	12.8	20
35	Spontaneous low-temperature crystallization of □FAPbI3 for highly efficient perovskite solar cells. *Science Bulletin*, **2019**, 64, 1608-1616	10.6	27
34	Photostability of MAPbI3 Perovskite Solar Cells by Incorporating Black Phosphorus. *Solar Rrl*, **2019**, 3, 1900197	7.1	28
33	Fast Charge Diffusion in MAPb(IBr) Films for High-Efficiency Solar Cells Revealed by Ultrafast Time-Resolved Reflectivity. *Journal of Physical Chemistry A*, **2019**, 123, 2674-2678	2.8	5
32	Thermodynamically stabilized □CsPbI-based perovskite solar cells with efficiencies >18. *Science*, **2019**, 365, 591-595	33.3	644
31	Inorganic CsPbI3 Perovskites toward High-Efficiency Photovoltaics. *Energy and Environmental Materials*, **2019**, 2, 73-78	13	27
30	The Role of Dimethylammonium Iodide in CsPbI Perovskite Fabrication: Additive or Dopant?. *Angewandte Chemie - International Edition*, **2019**, 58, 16691-16696	16.4	264
29	The Role of Dimethylammonium Iodide in CsPbI3 Perovskite Fabrication: Additive or Dopant?. *Angewandte Chemie*, **2019**, 131, 16844-16849	3.6	32
28	Organic salt mediated growth of phase pure and stable all-inorganic CsPbX3 (X = I, Br) perovskites for efficient photovoltaics. *Science Bulletin*, **2019**, 64, 1773-1779	10.6	29
27	A Facile Low Temperature Fabrication of High Performance CsPbI2Br All-Inorganic Perovskite Solar Cells. *Solar Rrl*, **2018**, 2, 1700180	7.1	124
26	A mixed-cation lead iodide MA1□EAxPbI3 absorber for perovskite solar cells. *Journal of Energy Chemistry*, **2018**, 27, 215-218	12	18
25	Li dopant induces moisture sensitive phase degradation of an all-inorganic CsPbIBr perovskite. *Chemical Communications*, **2018**, 54, 9809-9812	5.8	66
24	Efficient □CsPbI3 Photovoltaics with Surface Terminated Organic Cations. *Joule*, **2018**, 2, 2065-2075	27.8	210
23	Integration of a functionalized graphene nano-network into a planar perovskite absorber for high-efficiency large-area solar cells. *Materials Horizons*, **2018**, 5, 868-873	14.4	21
22	Interfacial morphology and corrosion-wear behavior of cast Fe-3.5 wt.% B steel in liquid zinc. *Corrosion Science*, **2018**, 131, 290-299	6.8	11
21	Bifunctional Stabilization of All-Inorganic □CsPbI Perovskite for 17% Efficiency Photovoltaics. *Journal of the American Chemical Society*, **2018**, 140, 12345-12348	16.4	434
20	Effect of erosion angle and Fe2B orientation on cavitation erosion and interfaces of Fe-B alloy in high-velocity flowing zinc. *Wear*, **2018**, 412-413, 60-68	3.5	5
19	A first principles study of adhesion and electronic structure at Fe (110)/graphite (0001) interface. *Applied Surface Science*, **2017**, 405, 497-502	6.7	13

18	Investigation of erosion properties of directionally solidified FeB alloy in various velocities liquid zinc. *Journal of Materials Research*, **2017**, 32, 2381-2388	2.5	3
17	CH3NH3Cl Assisted Solvent Engineering for Highly Crystallized and Large Grain Size Mixed-Composition (FAPbI3)0.85(MAPbBr3)0.15 Perovskites. *Crystals*, **2017**, 7, 272	2.3	20
16	Effects of Mn addition on the two-body abrasive wear behavior of Fe-3.0 wt% B alloy. *Tribology International*, **2016**, 103, 243-251	4.9	40
15	Three-Body Abrasive Behavior of Cementite–Iron Composite with Different Cementite Volume Fractions. *Tribology Letters*, **2016**, 62, 1	2.8	13
14	Erosion–corrosion interaction of FeB alloy in flowing zinc. *Materials Science and Technology*, **2016**, 32, 49-56	1.5	6
13	Interface characterization and erosion–corrosion behavior of directional Fe-3.5 wt.% B steel in flowing liquid zinc at various temperatures. *Corrosion Science*, **2016**, 104, 260-268	6.8	14
12	Interfacial morphologies and erosion–corrosion behavior of directional Fe-3.5 wt.% B steel in flowing liquid Zn containing 0.30 wt.% Al. *Corrosion Science*, **2016**, 112, 25-35	6.8	14
11	Effect of carbon equivalent on thermal and mechanical properties of compacted graphite cast iron. *Journal of Materials Research*, **2016**, 31, 2516-2523	2.5	5
10	Investigation on two-body abrasive wear behavior and mechanism of Fe3.0 wt% B cast alloy with different chromium content. *Wear*, **2016**, 362-363, 68-77	3.5	37
9	Effects of Chromium Addition on Preparation and Properties of Bulk Cementite. *Journal of Iron and Steel Research International*, **2016**, 23, 842-850	1.2	7
8	Investigation of flowing liquid zinc erosion and corrosion properties of the FeB alloy at various times. *Journal of Materials Research*, **2015**, 30, 727-735	2.5	8
7	Effect of crystal orientation on microstructure and properties of bulk Fe2B intermetallic. *Journal of Materials Research*, **2015**, 30, 257-265	2.5	13
6	Effect of Fe 2 B orientation on erosion–corrosion behavior of Fe3.5 wt.% B steel in flowing zinc. *Corrosion Science*, **2015**, 98, 240-248	6.8	29
5	Effect of erosion speed on the interaction between erosion and corrosion of the Fe3.5 wt% B alloy in a flowing zinc bath. *Journal of Materials Research*, **2015**, 30, 852-859	2.5	4
4	Effects of Erosion Angle on Erosion Properties of Fe-B Alloy in Flowing Liquid Zinc. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2015**, 46, 1900-1907	2.3	17
3	Effect of 0.3 wt.% Al Addition in Flowing Liquid Zinc on the Erosion-Corrosion Behavior of Fe-3.5 wt.% B Alloy. *Journal of Materials Engineering and Performance*, **2015**, 24, 2444-2450	1.6	3
2	Multifunctional Ion-Lock Interface Layer Achieved by Solid–Solid Contact Approach for Stabilizing Perovskite Solar Cells. *Advanced Functional Materials*,2200473	15.6	4
1	Buried Interface Modification in Perovskite Solar Cells: A Materials Perspective. *Advanced Energy Materials*,2104030	21.8	16