

Fengxia Wei

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.

56
papers

4,292
citations

25
h-index

65
g-index

65
ext. papers

4,927
ext. citations

7.3
avg, IF

5.4
L-index

#	Paper	IF	Citations
56	A comparative study of additive manufactured and wrought SS316L: Pre-existing dislocations and grain boundary characteristics. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 833, 142546	5.3	1
55	Design and synthesis of single phase Hf _{0.25} Zr _{0.25} Ce _{0.25} Y _{0.125} Si _{0.125} O ₂ -high-entropy ceramics. <i>Journal of Alloys and Compounds</i> , 2022 , 904, 164097	5.7	0
54	Compositionally graded Al _x CoCrFeNi high-entropy alloy manufactured by laser powder bed fusion. <i>Materialia</i> , 2022 , 21, 101308	3.2	1
53	Additive manufacturing of high-strength and ductile high entropy alloy CoCrFeNiW _{0.2} composites via laser powder bed fusion and post-annealing. <i>Journal of Alloys and Compounds</i> , 2022 , 906, 164288	5.7	2
52	Ambient pressure fabrication of Ni-free high nitrogen austenitic stainless steel using laser powder bed fusion method. <i>Additive Manufacturing</i> , 2022 , 55, 102810	6.1	
51	Selective laser melting of FeAl alloys with simultaneous gradients in composition and microstructure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 821, 141608	5.3	5
50	In-situ warm shot peening on Ti-6Al-4V alloy: Effects of temperature on fatigue life, residual stress, microstructure and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2021 , 882, 160701	5.7	4
49	3D printing of ductile equiatomic Fe-Co alloy for soft magnetic applications. <i>Additive Manufacturing</i> , 2021 , 47, 102291	6.1	0
48	Compositionally graded CoCrFeNiTi high-entropy alloys manufactured by laser powder bed fusion: A combinatorial assessment. <i>Journal of Alloys and Compounds</i> , 2021 , 883, 160825	5.7	7
47	Electrodeposited Copper Micropillar Surfaces with Pulse Reverse Voltammetry for Enhanced Heat Dissipation. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 1041-1047	4	2
46	Fatigue life enhancement in alpha/beta Ti ₆ Al ₄ V after shot peening: An EBSD and TEM crystallographic orientation mapping study of surface layer. <i>Materialia</i> , 2020 , 12, 100813	3.2	11
45	Understanding the Structural and Electronic Properties of Bismuth Trihalides and Related Compounds. <i>Inorganic Chemistry</i> , 2020 , 59, 3377-3386	5.1	4
44	Tailoring the phase transition temperature to achieve high-performance cubic GeTe-based thermoelectrics. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18880-18890	13	33
43	Anion π -anion π radical interactions in bis(triphenylphosphonium)-naphthalene diimide salts. <i>Organic Chemistry Frontiers</i> , 2019 , 6, 110-115	5.2	9
42	Enhanced visible light absorption for lead-free double perovskite CsAgSbBr. <i>Chemical Communications</i> , 2019 , 55, 3721-3724	5.8	65
41	The effect of structural dimensionality on carrier mobility in lead-halide perovskites. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 23949-23957	13	26
40	Unraveling the Interfacial Structure-Performance Correlation of Flexible Metal-Organic Framework Membranes on Polymeric Substrates. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5570-5577	9.5	20

39	Impact of CH ₃ NH ₂ (X = F, N) and π Interactions on Tuning the Degree of Charge Transfer in F6TNAP-Based Organic Binary Compound Single Crystals. <i>Crystal Growth and Design</i> , 2018 , 18, 1776-1785	3.5	28
38	Elastic properties and thermal expansion of lead-free halide double perovskite Cs ₂ AgBiBr ₆ . <i>Computational Materials Science</i> , 2018 , 141, 49-58	3.2	61
37	Mixed X-Site Formate-Hypophosphite Hybrid Perovskites. <i>Chemistry - A European Journal</i> , 2018 , 24, 11309-11313	4.8	13
36	Synthesis, crystal structure, magnetic and electronic properties of the caesium-based transition metal halide Cs ₃ Fe ₂ Br ₉ . <i>Journal of Materials Chemistry C</i> , 2018 , 6, 3573-3577	7.1	12
35	Understanding heterogeneous electrocatalytic carbon dioxide reduction through operando techniques. <i>Nature Catalysis</i> , 2018 , 1, 922-934	36.5	318
34	Hydrogen Bonding versus Entropy: Revealing the Underlying Thermodynamics of the Hybrid Organic-Inorganic Perovskite [CH ₃ NH ₃]PbBr ₃ . <i>Chemistry of Materials</i> , 2018 , 30, 8782-8788	9.6	19
33	Fundamental Carrier Lifetime Exceeding 1 μs in Cs ₂ AgBiBr ₆ Double Perovskite. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800464	4.6	114
32	Synthesis and Properties of a Lead-Free Hybrid Double Perovskite: (CH ₃ NH ₃) ₂ AgBiBr ₆ . <i>Chemistry of Materials</i> , 2017 , 29, 1089-1094	9.6	217
31	Variable temperature and high-pressure crystal chemistry of perovskite formamidinium lead iodide: a single crystal X-ray diffraction and computational study. <i>Chemical Communications</i> , 2017 , 53, 7537-7540	5.8	31
30	Factors Influencing the Mechanical Properties of Formamidinium Lead Halides and Related Hybrid Perovskites. <i>ChemSusChem</i> , 2017 , 10, 3683-3683	8.3	
29	Synthesis and Characterization of the Rare-Earth Hybrid Double Perovskites: (CHNH)KGdCl and (CHNH)KYCl. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5015-5020	6.4	45
28	Factors Influencing the Mechanical Properties of Formamidinium Lead Halides and Related Hybrid Perovskites. <i>ChemSusChem</i> , 2017 , 10, 3740-3745	8.3	55
27	Exploring the properties of lead-free hybrid double perovskites using a combined computational-experimental approach. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12025-12029	13	176
26	Correlation of Local Structure and Diffusion Pathways in the Modulated Anisotropic Oxide Ion Conductor CeNbO(4.25). <i>Journal of the American Chemical Society</i> , 2016 , 138, 1273-9	16.4	25
25	Synthesis and Crystal Structure Characterization of Oxysilicate Apatites for Stabilization of Sr and Rare-Earth Elements. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 1761-1768	3.8	2
24	Crystal Growth, HOMO-LUMO Engineering, and Charge Transfer Degree in Perylene-FxTCNQ (x = 1, 2, 4) Organic Charge Transfer Binary Compounds. <i>Crystal Growth and Design</i> , 2016 , 16, 3019-3027	3.5	110
23	The synthesis, structure and electronic properties of a lead-free hybrid inorganic-organic double perovskite (MA) ₂ KBiCl ₆ (MA = methylammonium). <i>Materials Horizons</i> , 2016 , 3, 328-332	14.4	221
22	Cooperative Enhancement of Second-Harmonic Generation from a Single CdS Nanobelt-Hybrid Plasmonic Structure. <i>ACS Nano</i> , 2015 , 9, 5018-26	16.7	34

21	Synthesis of $\text{Ni}_x\text{Co}_{(1-x)}\text{F}_2$ ($x = 0, 0.25, 0.50, 0.75, 1.0$) and application in lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2015 , 653, 434-443	5.7	13
20	Anisotropic oxide ion conduction in melilite intermediate temperature electrolytes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 3091-3096	13	18
19	Fluorination of metal phthalocyanines: single-crystal growth, efficient N-channel organic field-effect transistors, and structure-property relationships. <i>Scientific Reports</i> , 2014 , 4, 7573	4.9	57
18	Solvent-Dependent Stoichiometry in Perylene π ,7,8,8-Tetracyanoquinodimethane Charge Transfer Compound Single Crystals. <i>Crystal Growth and Design</i> , 2014 , 14, 6376-6382	3.5	52
17	Intercalation of organic molecules into SnS_2 single crystals. <i>Journal of Solid State Chemistry</i> , 2013 , 198, 224-230	3.3	24
16	Fergusonite-type CeNbO_4 -Single crystal growth, symmetry revision and conductivity. <i>Journal of Solid State Chemistry</i> , 2013 , 204, 291-297	3.3	17
15	Crystallographic Correlations with Anisotropic Oxide Ion Conduction in Aluminum-Doped Neodymium Silicate Apatite Electrolytes. <i>Chemistry of Materials</i> , 2013 , 25, 1109-1120	9.6	18
14	Atomically flat, large-sized, two-dimensional organic nanocrystals. <i>Small</i> , 2013 , 9, 990-5	11	45
13	Observation of atomic scale compositional and displacive modulations in incommensurate melilite electrolytes. <i>Journal of Solid State Chemistry</i> , 2013 , 203, 291-296	3.3	2
12	Synthesis and crystal chemistry of the hybrid perovskite $(\text{CH}_3\text{NH}_3)\text{PbI}_3$ for solid-state sensitised solar cell applications. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5628	13	1972
11	Organic Nanocrystals: Atomically Flat, Large-Sized, Two-Dimensional Organic Nanocrystals (Small 7/2013). <i>Small</i> , 2013 , 9, 962-962	11	3
10	In situ formation of new organic ligands to construct two novel self-charge-transfer Pb(II)-based frameworks. <i>CrystEngComm</i> , 2012 , 14, 75-78	3.3	22
9	Crystal chemistry of melilite $[\text{CaLa}]_2[\text{Ga}]_2[\text{Ga}_2\text{O}_7]_2$: a five dimensional solid electrolyte. <i>Inorganic Chemistry</i> , 2012 , 51, 5941-9	5.1	15
8	Synthesis, crystal structure, and optical properties of a three-dimensional quaternary Hg-In-S-Cl chalcogenide: $\text{Hg}_7\text{In}_6\text{S}_6\text{Cl}_5$. <i>Inorganic Chemistry</i> , 2012 , 51, 4414-6	5.1	35
7	Crystal structure and phototransistor behavior of N-substituted heptacene. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 1883-6	9.5	109
6	Synthesis, Structure, Physical Properties, and Displacement Current Measurement of an n-Type Organic Semiconductor: 2:3,5:6-Bis(1,1-dicyanoethylene-2,2-dithiolate)-quinone. <i>Australian Journal of Chemistry</i> , 2012 , 65, 1674	1.2	9
5	Five-dimensional incommensurate structure of the melilite electrolyte $[\text{CaNd}]_2[\text{Ga}]_2[\text{Ga}_2\text{O}_7]_2$. <i>Journal of the American Chemical Society</i> , 2011 , 133, 15200-11	16.4	28
4	Single crystal growth of apatite-type Al-doped neodymium silicates by the floating zone method. <i>Journal of Crystal Growth</i> , 2011 , 333, 70-73	1.6	9

- 3 A new hydrazine-bridged thioantimonate $Mn_2Sb_4S_8(N_2H_4)_2$: Synthesis, structure, optical and magnetic properties. *Inorganic Chemistry Communication*, **2011**, 14, 884-888 3.1 36
- 2 Synthesis, characterization, self-assembly, and physical properties of 11-methylbenzo[d]pyreno[4,5-b]furan. *Organic Letters*, **2011**, 13, 3004-7 6.2 87
- 1 One-pot synthesis of 4,8-dibromobenzo[1,2-c;4,5-c']bis[1,2,5]thiadiazole. *Organic Letters*, **2010**, 12, 3340-3 6.2 45