Fengxia Wei

List of Publications by Citations

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	Synthesis and crystal chemistry of the hybrid perovskite (CH3NH3)PbI3 for solid-state sensitised solar cell applications. *Journal of Materials Chemistry A*, **2013**, 1, 5628	13	1972
55	Understanding heterogeneous electrocatalytic carbon dioxide reduction through operando techniques. *Nature Catalysis*, **2018**, 1, 922-934	36.5	318
54	The synthesis, structure and electronic properties of a lead-free hybrid inorganic–organic double perovskite (MA)2KBiCl6 (MA = methylammonium). *Materials Horizons*, **2016**, 3, 328-332	14.4	221
53	Synthesis and Properties of a Lead-Free Hybrid Double Perovskite: (CH3NH3)2AgBiBr6. *Chemistry of Materials*, **2017**, 29, 1089-1094	9.6	217
52	Exploring the properties of lead-free hybrid double perovskites using a combined computational-experimental approach. *Journal of Materials Chemistry A*, **2016**, 4, 12025-12029	13	176
51	Fundamental Carrier Lifetime Exceeding 1 μs in Cs2AgBiBr6 Double Perovskite. *Advanced Materials Interfaces*, **2018**, 5, 1800464	4.6	114
50	Crystal Growth, HOMO–LUMO Engineering, and Charge Transfer Degree in Perylene-FxTCNQ (x = 1, 2, 4) Organic Charge Transfer Binary Compounds. *Crystal Growth and Design*, **2016**, 16, 3019-3027	3.5	110
49	Crystal structure and phototransistor behavior of N-substituted heptacence. *ACS Applied Materials & Interfaces*, **2012**, 4, 1883-6	9.5	109
48	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
47	Enhanced visible light absorption for lead-free double perovskite CsAgSbBr. *Chemical Communications*, **2019**, 55, 3721-3724	5.8	65
46	Elastic properties and thermal expansion of lead-free halide double perovskite Cs2AgBiBr6. *Computational Materials Science*, **2018**, 141, 49-58	3.2	61
45	Fluorination of metal phthalocyanines: single-crystal growth, efficient N-channel organic field-effect transistors, and structure-property relationships. *Scientific Reports*, **2014**, 4, 7573	4.9	57
44	Factors Influencing the Mechanical Properties of Formamidinium Lead Halides and Related Hybrid Perovskites. *ChemSusChem*, **2017**, 10, 3740-3745	8.3	55
43	Solvent-Dependent Stoichiometry in Perylene–7,7,8,8-Tetracyanoquinodimethane Charge Transfer Compound Single Crystals. *Crystal Growth and Design*, **2014**, 14, 6376-6382	3.5	52
42	Synthesis and Characterization of the Rare-Earth Hybrid Double Perovskites: (CHNH)KGdCl and (CHNH)KYCl. *Journal of Physical Chemistry Letters*, **2017**, 8, 5015-5020	6.4	45
41	Atomically flat, large-sized, two-dimensional organic nanocrystals. *Small*, **2013**, 9, 990-5	11	45
40	One-pot synthesis of 4,8-dibromobenzo[1,2-c;4,5-c′]bis[1,2,5]thiadiazole. *Organic Letters*, **2010**, 12, 3340–3342	6.2	45

39	A new hydrazine-bridged thioantimonate Mn2Sb4S8(N2H4)2: Synthesis, structure, optical and magnetic properties. *Inorganic Chemistry Communication*, **2011**, 14, 884-888	3.1	36
38	Synthesis, crystal structure, and optical properties of a three-dimensional quaternary Hg-In-S-Cl chalcohalide: Hg7InS6Cl5. *Inorganic Chemistry*, **2012**, 51, 4414-6	5.1	35
37	Cooperative Enhancement of Second-Harmonic Generation from a Single CdS Nanobelt-Hybrid Plasmonic Structure. *ACS Nano*, **2015**, 9, 5018-26	16.7	34
36	Tailoring the phase transition temperature to achieve high-performance cubic GeTe-based thermoelectrics. *Journal of Materials Chemistry A*, **2020**, 8, 18880-18890	13	33
35	Variable temperature and high-pressure crystal chemistry of perovskite formamidinium lead iodide: a single crystal X-ray diffraction and computational study. *Chemical Communications*, **2017**, 53, 7537-7540	5.8	31
34	Impact of C□□□X (X = F, N) and □nteractions on Tuning the Degree of Charge Transfer in F6TNAP-Based Organic Binary Compound Single Crystals. *Crystal Growth and Design*, **2018**, 18, 1776-1785	3.5	28
33	Five-dimensional incommensurate structure of the melilite electrolyte [CaNd]2[Ga]2[Ga2O7]2. *Journal of the American Chemical Society*, **2011**, 133, 15200-11	16.4	28
32	The effect of structural dimensionality on carrier mobility in lead-halide perovskites. *Journal of Materials Chemistry A*, **2019**, 7, 23949-23957	13	26
31	Correlation of Local Structure and Diffusion Pathways in the Modulated Anisotropic Oxide Ion Conductor CeNbO(4.25). *Journal of the American Chemical Society*, **2016**, 138, 1273-9	16.4	25
30	Intercalation of organic molecules into SnS2 single crystals. *Journal of Solid State Chemistry*, **2013**, 198, 224-230	3.3	24
29	In situ formation of new organic ligands to construct two novel self-charge-transfer Pb(II)-based frameworks. *CrystEngComm*, **2012**, 14, 75-78	3.3	22
28	Unraveling the Interfacial Structure-Performance Correlation of Flexible Metal-Organic Framework Membranes on Polymeric Substrates. *ACS Applied Materials & Interfaces*, **2019**, 11, 5570-5577	9.5	20
27	Hydrogen Bonding versus Entropy: Revealing the Underlying Thermodynamics of the Hybrid Organic□norganic Perovskite [CH3NH3]PbBr3. *Chemistry of Materials*, **2018**, 30, 8782-8788	9.6	19
26	Anisotropic oxide ion conduction in melilite intermediate temperature electrolytes. *Journal of Materials Chemistry A*, **2015**, 3, 3091-3096	13	18
25	Crystallographic Correlations with Anisotropic Oxide Ion Conduction in Aluminum-Doped Neodymium Silicate Apatite Electrolytes. *Chemistry of Materials*, **2013**, 25, 1109-1120	9.6	18
24	Fergusonite-type CeNbO4+□Single crystal growth, symmetry revision and conductivity. *Journal of Solid State Chemistry*, **2013**, 204, 291-297	3.3	17
23	Mixed X-Site Formate-Hypophosphite Hybrid Perovskites. *Chemistry - A European Journal*, **2018**, 24, 11308-11313	4.8	15
22	Crystal chemistry of melilite [CaLa]2[Ga]2[Ga2O7]2: a five dimensional solid electrolyte. *Inorganic Chemistry*, **2012**, 51, 5941-9	5.1	15

21	Synthesis of NixCo(1−x)F2 (x = 0, 0.25, 0.50, 0.75, 1.0) and application in lithium ion batteries. *Journal of Alloys and Compounds*, **2015**, 653, 434-443	5.7	13
20	Synthesis, crystal structure, magnetic and electronic properties of the caesium-based transition metal halide Cs3Fe2Br9. *Journal of Materials Chemistry C*, **2018**, 6, 3573-3577	7.1	12
19	Fatigue life enhancement in alpha/beta Ti–6Al–4V after shot peening: An EBSD and TEM crystallographic orientation mapping study of surface layer. *Materialia*, **2020**, 12, 100813	3.2	11
18	Anion–π and anion–radical interactions in bis(triphenylphosphonium)-naphthalene diimide salts. *Organic Chemistry Frontiers*, **2019**, 6, 110-115	5.2	9
17	Single crystal growth of apatite-type Al-doped neodymium silicates by the floating zone method. *Journal of Crystal Growth*, **2011**, 333, 70-73	1.6	9
16	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. *Australian Journal of Chemistry*, **2012**, 65, 1674	1.2	9
15	Compositionally graded CoCrFeNiTi high-entropy alloys manufactured by laser powder bed fusion: A combinatorial assessment. *Journal of Alloys and Compounds*, **2021**, 883, 160825	5.7	7
14	Selective laser melting of Fe–Al alloys with simultaneous gradients in composition and microstructure. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 821, 141608	5.3	5
13	Understanding the Structural and Electronic Properties of Bismuth Trihalides and Related Compounds. *Inorganic Chemistry*, **2020**, 59, 3377-3386	5.1	4
12	In-situ warm shot peening on Ti-6Al-4V alloy: Effects of temperature on fatigue life, residual stress, microstructure and mechanical properties. *Journal of Alloys and Compounds*, **2021**, 882, 160701	5.7	4
11	Organic Nanocrystals: Atomically Flat, Large-Sized, Two-Dimensional Organic Nanocrystals (Small 7/2013). *Small*, **2013**, 9, 962-962	11	3
10	Electrodeposited Copper Micropillar Surfaces with Pulse Reverse Voltammetry for Enhanced Heat Dissipation. *ACS Applied Electronic Materials*, **2020**, 2, 1041-1047	4	2
9	Observation of atomic scale compositional and displacive modulations in incommensurate melilite electrolytes. *Journal of Solid State Chemistry*, **2013**, 203, 291-296	3.3	2
8	Synthesis and Crystal Structure Characterization of Oxysilicate Apatites for Stabilization of Sr and Rare-Earth Elements. *Journal of the American Ceramic Society*, **2016**, 99, 1761-1768	3.8	2
7	Additive manufacturing of high-strength and ductile high entropy alloy CoCrFeNiW0.2 composites via laser powder bed fusion and post-annealing. *Journal of Alloys and Compounds*, **2022**, 906, 164288	5.7	2
6	A comparative study of additive manufactured and wrought SS316L: Pre-existing dislocations and grain boundary characteristics. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2022**, 833, 142546	5.3	1
5	Compositionally graded AlxCoCrFeNi high-entropy alloy manufactured by laser powder bed fusion. *Materialia*, **2022**, 21, 101308	3.2	1
4	Design and synthesis of single phase Hf0.25Zr0.25Ce0.25Y0.125Si0.125O2−δ high-entropy ceramics. *Journal of Alloys and Compounds*, **2022**, 904, 164097	5.7	0

3	3D printing of ductile equiatomic Fe-Co alloy for soft magnetic applications. *Additive Manufacturing* , **2021**, 47, 102291	6.1	0
2	Factors Influencing the Mechanical Properties of Formamidinium Lead Halides and Related Hybrid Perovskites. *ChemSusChem*, **2017**, 10, 3683-3683	8.3	
1	Ambient pressure fabrication of Ni-free high nitrogen austenitic stainless steel using laser powder bed fusion method. *Additive Manufacturing*, **2022**, 55, 102810	6.1	