Huaiwu Zhang

List of Publications by Citations

46 papers	1,852 citations	17 h-index	43 g-index
54 ext. papers	2,390 ext. citations	5.9 avg, IF	5.61 L-index

#	Paper	IF	Citations
46	CdS-Based photocatalysts. *Energy and Environmental Science*, **2018**, 11, 1362-1391	35.4	765
45	All-Carbon-Electrode-Based Endurable Flexible Perovskite Solar Cells. *Advanced Functional Materials*, **2018**, 28, 1706777	15.6	203
44	Two-Dimensional Transition Metal MXene-Based Photocatalysts for Solar Fuel Generation. *Journal of Physical Chemistry Letters*, **2019**, 10, 3488-3494	6.4	125
43	Constructing functionalized plasmonic gold/titanium dioxide nanosheets with small gold nanoparticles for efficient photocatalytic hydrogen evolution. *Journal of Colloid and Interface Science*, **2019**, 555, 94-103	9.3	91
42	Porous graphitic carbon nitride for solar photocatalytic applications. *Nanoscale Horizons*, **2020**, 5, 765-786	10.8	79
41	Topological Magnonics: A Paradigm for Spin-Wave Manipulation and Device Design. *Physical Review Applied*, **2018**, 9,	4.3	66
40	One-Step Solid-Phase Synthesis of 2D Ultrathin CdS Nanosheets for Enhanced Visible-Light Photocatalytic Hydrogen Evolution. *Solar Rrl*, **2019**, 3, 1900062	7.1	48
39	Interfacial modification of titanium dioxide to enhance photocatalytic efficiency towards H production. *Journal of Colloid and Interface Science*, **2019**, 556, 376-385	9.3	44
38	Controllably degradable transient electronic antennas based on water-soluble PVA/TiO2 films. *Journal of Materials Science*, **2018**, 53, 2638-2647	4.3	43
37	Low Temperature Firing of Li0.43Zn0.27Ti0.13Fe2.17O4 Ferrites with Enhanced Magnetic Properties. *Journal of the American Ceramic Society*, **2015**, 98, 2556-2560	3.8	38
36	Carbon-Graphitic Carbon Nitride Hybrids for Heterogeneous Photocatalysis. *Small*, **2021**, 17, e2005231	11	37
35	Ti3C2Tx MXene Sponge Composite as Broadband Terahertz Absorber. *Advanced Optical Materials*, **2020**, 8, 2001120	8.1	36
34	Synthesis of Highly Uniform and Compact Lithium Zinc Ferrite Ceramics via an Efficient Low Temperature Approach. *Inorganic Chemistry*, **2017**, 56, 4513-4521	5.1	35
33	Proximity-Induced Magnetic Order in a Transferred Topological Insulator Thin Film on a Magnetic Insulator. *ACS Nano*, **2018**, 12, 5042-5050	16.7	31
32	A Facile Method for Preparation of CuO-TiO NTA Heterojunction with Visible-Photocatalytic Activity. *Nanoscale Research Letters*, **2018**, 13, 221	5	25
31	Investigation of grain boundary diffusion and grain growth of lithium zinc ferrites with low activation energy. *Journal of the American Ceramic Society*, **2018**, 101, 5037-5045	3.8	23
30	Synthesis and photocatalytic H2-production activity of plasma-treated Ti3C2Tx MXene modified graphitic carbon nitride. *Journal of the American Ceramic Society*, **2020**, 103, 849-858	3.8	20

29	Ferromagnetism at room temperature in Cr-doped anodic titanium dioxide nanotubes. *Journal of Applied Physics*, **2014**, 115, 17C304	2.5	15
28	Twisted Magnon as a Magnetic Tweezer. *Physical Review Letters*, **2020**, 124, 217204	7.4	13
27	Open-top TiO2 nanotube arrays with enhanced photovoltaic and photochemical performances via a micromechanical cleavage approach. *Journal of Materials Chemistry A*, **2015**, 3, 14279-14283	13	13
26	Low-Temperature Sintering and Microwave Dielectric Properties of (Mg0.95Zn0.05)2(Ti0.8Sn0.2)O4–(Ca0.8Sr0.2)TiO3 Composite Ceramics. *Journal of the American Ceramic Society*, **2013**, 96, 3114-3119	3.8	13
25	Magnetic force microscopy investigation of the static magnetic domain structure and domain rotation in Fe-x at. %Ga alloys. *Applied Physics Letters*, **2009**, 95, 152511	3.4	12
24	Low-temperature firing and microwave properties of TiO2 modified Li2ZnTi3O8 ceramics doped with B2O3. *Journal of Materials Science: Materials in Electronics*, **2013**, 24, 3303-3308	2.1	10
23	Effect of ZnO–B2O3–SiO2 glass additive on magnetic properties of low-sintering Li0.43Zn0.27Ti0.13Fe2.17O4 ferrites. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 811-817	2.1	9
22	Microwave/Millimeter-Wave Garnet Films. *IEEE Transactions on Magnetics*, **2011**, 47, 295-299	2	7
21	Microstructure, magnetic-dielectric properties of flexible composite film for high frequency applications. *Ceramics International*, **2019**, 45, 6350-6355	5.1	7
20	Fabrication of Heterostructured Metal Oxide/TiO Nanotube Arrays Prepared via Thermal Decomposition and Crystallization. *Inorganic Chemistry*, **2018**, 57, 10249-10256	5.1	6
19	Electromagnetic Properties of a New Ferrite-Ceramic Composite Material. *IEEE Transactions on Magnetics*, **2009**, 45, 4314-4316	2	5
18	A Facile Method for Loading CeO Nanoparticles on Anodic TiO Nanotube Arrays. *Nanoscale Research Letters*, **2018**, 13, 89	5	4
17	Dielectric properties of ultralow-fired Mg4Nb2O9 ceramics co-doped with TiO2 and LiF. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 1553-1557	2.1	4
16	Magnetic and Mössbauer Studies of Mn$_{0.679{-}{rm x}}$ Zn$_{0.256}$ Ti$_{rm x}$ Fe$_{2.066}$ O$_{4}$ Spinel Ferrites: Effect of Cation Distribution. *IEEE Transactions on Magnetics*, **2013**, 49, 4277-4280	2	4
15	A multilayer low pass filter fabricated by ferrite and ceramic cofiring system based on LTCC technology **2009**,		4
14	Effects of Bi2O3–MnO2 additives on tunable microstructure and magnetic properties of low temperature co-fired NiCuZn ferrite ceramics. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 12325-12332	2.1	4
13	Enhanced grain-boundary diffusion on power loss of low-temperature-fired NiCuZn ferrites for high-frequency power supplies. *Applied Physics A: Materials Science and Processing*, **2018**, 124, 1	2.6	4
12	Grain growth and tunable ferromagnetic resonance linewidth of low-temperature sintering NiCuZn gyromagnetic ferrites. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 2845-2853	2.1	2

11	Perovskite Solar Cells: All-Carbon-Electrode-Based Endurable Flexible Perovskite Solar Cells (Adv. Funct. Mater. 11/2018). *Advanced Functional Materials*, **2018**, 28, 1870069	15.6	2
10	Electromagnetic design of a magnetically suspended gyroscope prototype **2009**,		2
9	Microstructure and Electromagnetic Properties of Microwave Sintered NiCuZn+CCTO Composites Materials for Application in LTCC Devices. *IEEE Transactions on Magnetics*, **2013**, 49, 4204-4206	2	1
8	Dramatic Reduction of FMR Linewidth in Epitaxial Pb(ZrTi)O $_{3}$ -NiFe$_{2}$ O$_{4}$ Nanocomposite Films. *IEEE Transactions on Magnetics*, **2013**, 49, 4299-4302	2	1
7	Research status and development of magnetically suspended rotor gyroscopes **2009**,		1
6	Ti4+ modified MgZrNb2O8 microwave dielectric ceramics with an ultra-high quality factor. *Journal of the American Ceramic Society*, **2021**, 104, 6054-6063	3.8	0
5	High-Performance Multifunctional Photodetector and THz Modulator Based on Graphene/TiO/p-Si Heterojunction. *Nanoscale Research Letters*, **2021**, 16, 134	5	0
4	Enhanced magnetic properties of low-temperature sintered LiZnTiMn ferrites with Bi2O3–NiO additive. *Journal of Materials Science: Materials in Electronics*,1	2.1	0
3	Influence of CuO additive on phase formation, microstructure and microwave dielectric properties of Cu-doped CuxZn1.8-xSiO3.8 ceramics. *Applied Physics A: Materials Science and Processing*, **2022**, 128, 1	2.6	0
2	Magnetic properties of lithium zinc ferrites synthesized by microwave sintered method. *AIP Advances*, **2016**, 6, 055936	1.5	
1	High-quality factor of (1 −x) Li2Mg3TiO6-xBaV2O6 (x = 0.1, 0.3, 0.4, 0.5, 0.6) ceramics with low sintering temperature. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 8489-8495	2.1	