

# Heng Luo

## List of Publications by Year in descending order

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57  
papers

1,316  
citations

394421

19  
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361022

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58  
all docs

58  
docs citations

58  
times ranked

1214  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ti <sub>3</sub> C <sub>2</sub> MXene: a promising microwave absorbing material. RSC Advances, 2018, 8, 2398-2403.	3.6	189
2	Large-scale synthesis and outstanding microwave absorption properties of carbon nanotubes coated by extremely small FeCo-C core-shell nanoparticles. Carbon, 2019, 153, 52-61.	10.3	104
3	Ni-modified Ti <sub>3</sub> C <sub>2</sub> MXene with enhanced microwave absorbing ability. Materials Chemistry Frontiers, 2018, 2, 2320-2326.	5.9	87
4	Peaked dielectric responses in Ti <sub>3</sub> C <sub>2</sub> MXene nanosheets enabled composites with efficient microwave absorption. Journal of Applied Physics, 2018, 123, .	2.5	77
5	Anisotropic cellulose nanofibril composite sponges for electromagnetic interference shielding with low reflection loss. Carbohydrate Polymers, 2022, 276, 118799.	10.2	68
6	High-temperature electromagnetic wave absorption properties of C <sub>f</sub> /SiCNFs/Si <sub>3</sub> N <sub>4</sub> composites. Journal of the American Ceramic Society, 2020, 103, 6822-6832.	3.8	66
7	Mxenes Derived Laminated and Magnetic Composites with Excellent Microwave Absorbing Performance. Scientific Reports, 2019, 9, 3957.	3.3	51
8	Novel Metamaterials-Based Hypersensitized Liquid Sensor Integrating Omega-Shaped Resonator with Microstrip Transmission Line. Sensors, 2020, 20, 943.	3.8	48
9	Electromagnetic matching and microwave absorption abilities of Ti <sub>3</sub> SiC <sub>2</sub> encapsulated with Ni <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> shell. Journal of Magnetism and Magnetic Materials, 2019, 473, 184-189.	2.3	47
10	Wide-angle microwave absorption performance of polyurethane foams combined with cross-shaped metamaterial absorber. Results in Physics, 2018, 11, 769-776.	4.1	39
11	Dielectric response and electromagnetic wave absorption of novel macroporous short carbon fibers/mullite composites. Journal of the American Ceramic Society, 2020, 103, 6869-6880.	3.8	37
12	An ultrathin and dual band metamaterial perfect absorber based on ZnSe for the polarization-independent in terahertz range. Results in Physics, 2021, 26, 104344.	4.1	34
13	High temperature absorbing coatings with excellent performance combined Al <sub>2</sub> O <sub>3</sub> and TiC material. Journal of the European Ceramic Society, 2020, 40, 2013-2019.	5.7	33
14	Infrared emissivity and microwave transmission behavior of flaky aluminum functionalized pyramidal-frustum shaped periodic structure. Infrared Physics and Technology, 2019, 99, 123-128.	2.9	29
15	The Detection of Chemical Materials with a Metamaterial-Based Sensor Incorporating Oval Wing Resonators. Electronics (Switzerland), 2020, 9, 825.	3.1	25
16	Magnetoelectric properties of lead-free (80Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> -20Bi <sub>0.5</sub> K <sub>0.5</sub> TiO <sub>3</sub> )-Ni <sub>0.8</sub> Zn <sub>0.2</sub> Fe <sub>2</sub> O <sub>4</sub> particulate composites prepared by <i>in situ</i> sol-gel. Journal of Applied Physics, 2017, 122, .	2.5	22
17	Dielectric behavior of laminate-structure Cf/Si <sub>3</sub> N <sub>4</sub> composites in X-band. Applied Physics Letters, 2014, 105, 172903.	3.3	20
18	Lightweight graphene nanoplatelet/boron carbide composite with high EMI shielding effectiveness. AIP Advances, 2016, 6, .	1.3	20

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19	A comparative study on the dielectric response and microwave absorption performance of FeNi-capped carbon nanotubes and FeNi-cored carbon nanoparticles. <i>Nanotechnology</i> , 2021, 32, 105701.	2.6	20
20	Investigation on microwave dielectric behavior of flaky carbonyl iron composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 15112-15118.	2.2	19
21	Bandwidth Improvement in Bow-Tie Microstrip Antennas: The Effect of Substrate Type and Design Dimensions. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 504.	2.5	19
22	A Low-Profile Antenna Based on Single-Layer Metasurface for Ku-Band Applications. <i>International Journal of Antennas and Propagation</i> , 2020, 2020, 1-8.	1.2	19
23	Tunable left-hand characteristics in multi-nested square-split-ring enabled metamaterials. <i>Journal of Central South University</i> , 2020, 27, 1235-1246.	3.0	18
24	Enhanced magnetoelectric coupling in La-modified Bi <sub>5</sub> Co <sub>0.5</sub> Fe <sub>0.5</sub> Ti <sub>3</sub> O <sub>15</sub> multiferroic ceramics. <i>Journal of Materials Science</i> , 2018, 53, 1014-1023.	3.7	17
25	Design of a multilayer composite absorber working in the P-band by NiZn ferrite and cross-shaped metamaterial. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	17
26	Electromagnetic simulations of polarization-insensitive and wide-angle multiband metamaterial absorber by incorporating double asterisk resonator. <i>Bulletin of Materials Science</i> , 2020, 43, 1.	1.7	16
27	Broadband microwave absorption properties of polyurethane foam absorber optimized by sandwiched cross-shaped metamaterial. <i>Chinese Physics B</i> , 2018, 27, 127801.	1.4	15
28	Molybdenum Disulfide Quantum Dots Prepared by Bipolar-Electrode Electrochemical Scissoring. <i>Nanomaterials</i> , 2019, 9, 906.	4.1	15
29	Utilization of a triple hexagonal split ring resonator (SRR) based metamaterial sensor for the improved detection of fuel adulteration. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 24258-24272.	2.2	14
30	Improved microwave absorption properties of polycarbosilane-derived SiC core-shell particles by oxidation. <i>Journal of Alloys and Compounds</i> , 2019, 786, 409-417.	5.5	13
31	Enhanced optical absorption of Fe-, Co- and Ni- decorated Ti <sub>3</sub> C <sub>2</sub> MXene: A first-principles investigation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 127, 114565.	2.7	12
32	Facile Fabrication of Extremely Small CoNi/C Core/Shell Nanoparticles for Efficient Microwave Absorber. <i>Nano</i> , 2019, 14, 1950090.	1.0	11
33	Microwave Wireless Power Transfer System Based on a Frequency Reconfigurable Microstrip Patch Antenna Array. <i>Energies</i> , 2021, 14, 415.	3.1	10
34	Effect of temperature on dielectric response in X-band of silicon nitride ceramics prepared by gelcasting. <i>AIP Advances</i> , 2018, 8, 075127.	1.3	9
35	Tunable electromagnetic properties in barium hexagonal ferrites with dual-ion substitution. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 8275-8287.	2.2	8
36	Facile approach to fabricate BCN/Fe <sub>x</sub> (B/C/N) <sub>y</sub> nano-architectures with enhanced electromagnetic wave absorption. <i>Nanotechnology</i> , 2018, 29, 235701.	2.6	7

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37	Design of a Broadband Coplanar Waveguide-Fed Antenna Incorporating Organic Solar Cells with 100% Insolation for Ku Band Satellite Communication. <i>Materials</i> , 2020, 13, 142.	2.9	7
38	Double Meander Dipole Antenna Array with Enhanced Bandwidth and Gain. <i>International Journal of Antennas and Propagation</i> , 2021, 2021, 1-8.	1.2	6
39	Enhanced microwave absorbing properties of La-modified Bi <sub>5</sub> Co <sub>0.5</sub> Fe <sub>0.5</sub> Ti <sub>3</sub> O <sub>15</sub> multiferroics. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 15619-15626.	2.2	5
40	Omnidirectional magnetic resonant coupling wireless power transfer system with a cubic spiral transmitter. <i>AIP Advances</i> , 2019, 9, .	1.3	5
41	Magnetic Resonated Bilayer Square-Ring Enabled Dual-Peak Metamaterial Absorber in P-Band. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019, 32, 3593-3600.	1.8	5
42	High Sensitive Readout Circuit for Capacitance Touch Panel With Large Size. <i>IEEE Sensors Journal</i> , 2019, 19, 1412-1415.	4.7	5
43	An AMOLED Pixel Circuit Based on LTPS Thin-film Transistors with Mono-Type Scanning Driving. <i>Electronics (Switzerland)</i> , 2020, 9, 574.	3.1	4
44	A mV-level real-time peak-voltage detection circuit based on differential structure. <i>Review of Scientific Instruments</i> , 2021, 92, 034713.	1.3	4
45	Enhanced Dielectric Loss to Improve Microwave-Absorbing Performance of Ti <sub>3</sub> SiC <sub>2</sub> /Co <sub>2</sub> Z Ferrite Composites. <i>Journal of Electronic Materials</i> , 2022, 51, 847-856.	2.2	4
46	Bionic Scarfskin-Inspired Hierarchy Configuration toward Tunable Microwave-Absorbing Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, , .	8.0	4
47	Magnetolectric Effect in Cofired Lead-Free Laminated (Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> Bi <sub>0.5</sub> K <sub>0.5</sub> TiO <sub>3</sub> )/((Nb <sub>0.8</sub> Zn <sub>0.2</sub> )/ZnO Composites. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1700533.		
48	Security Measurement in Industrial IoT with Cloud Computing Perspective: Taxonomy, Issues, and Future Directions. <i>Scientific Programming</i> , 2020, 2020, 1-31.	0.7	2
49	Omnidirectional wireless power transfer system with a multidirectional receiver inside a cubic transmitter. <i>IEICE Electronics Express</i> , 2020, 17, 20200257-20200257.	0.8	2
50	Unravelling the Electromagnetic Behavior in Ordered Double-Perovskite Sr <sub>2</sub> FeMoO <sub>6</sub> . <i>Journal of Electronic Materials</i> , 2022, 51, 3430-3437.	2.2	2
51	Large electromagnetic interference shielding effectiveness in Ti <sub>3</sub> (Al, Si)C <sub>2</sub> system. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 11011-11016.	2.2	1
52	A sensitivity-enhanced capacitance readout circuit with symmetric cross-coupling structure. <i>Review of Scientific Instruments</i> , 2020, 91, 035001.	1.3	1
53	Co <sub>3</sub> N <sub>0.7</sub> Ti-SiC Toughed Silicon Nitride Hybrids with Non-Oxide Additives Ti <sub>3</sub> SiC <sub>2</sub> . <i>Materials</i> , 2020, 13, 1428.	2.9	1
54	Corrigendum to "Security Measurement in Industrial IoT with Cloud Computing Perspective: Taxonomy, Issues, and Future Directions". <i>Scientific Programming</i> , 2020, 2020, 1-1.	0.7	1

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55	Mechanism analysis of irradiation location dependent leakage current for zinc oxide thin-film transistors. AIP Advances, 2021, 11, 075108.	1.3	0
56	Design of Microstrip Patch Antenna Array with Enhanced Gain Based on the Metamaterial. , 2021, , .		0
57	Fractal Order Dependent Frequency-Shifting of Perfect Absorber Based on Fractal Pattern Enabled Metasurface. , 2021, , .		0