

# Ronghai Yu

## List of Publications by Year in descending order

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66  
papers

5,234  
citations

136740

32  
h-index

106150

65  
g-index

67  
all docs

67  
docs citations

67  
times ranked

4892  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fe <sup>N</sup> -C electrocatalyst with dense active sites and efficient mass transport for high-performance proton exchange membrane fuel cells. <i>Nature Catalysis</i> , 2019, 2, 259-268.	16.1	958
2	Multifunctional Organic-Inorganic Hybrid Aerogel for Self-Cleaning, Heat-Insulating, and Highly Efficient Microwave Absorbing Material. <i>Advanced Functional Materials</i> , 2019, 29, 1807624.	7.8	458
3	Porous CNTs/Co Composite Derived from Zeolitic Imidazolate Framework: A Lightweight, Ultrathin, and Highly Efficient Electromagnetic Wave Absorber. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 34686-34698.	4.0	427
4	Single-Atom to Single-Atom Grafting of Pt <sub>1</sub> onto Fe <sub>4</sub> N <sub>4</sub> Center: Pt <sub>1</sub> @Fe <sub>4</sub> N <sub>4</sub> /C Multifunctional Electrocatalyst with Significantly Enhanced Properties. <i>Advanced Energy Materials</i> , 2018, 8, 1701345.	10.2	371
5	Magnetically Aligned Co-C/MWCNTs Composite Derived from MWCNT-Interconnected Zeolitic Imidazolate Frameworks for a Lightweight and Highly Efficient Electromagnetic Wave Absorber. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 30850-30861.	4.0	282
6	Flexible nanocomposites with enhanced microwave absorption properties based on Fe <sub>3</sub> O <sub>4</sub> /SiO <sub>2</sub> nanorods and polyvinylidene fluoride. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12197-12204.	5.2	165
7	Hierarchical NiCo <sub>2</sub> O <sub>4</sub> /Co <sub>3</sub> O <sub>4</sub> /NiO porous composite: a lightweight electromagnetic wave absorber with tunable absorbing performance. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3770-3778.	2.7	161
8	Iron atom-cluster interactions increase activity and improve durability in Fe <sup>N</sup> -C fuel cells. <i>Nature Communications</i> , 2022, 13, .	5.8	159
9	Hydrogen storage in incompletely etched multilayer Ti <sub>2</sub> CT <sub>x</sub> at room temperature. <i>Nature Nanotechnology</i> , 2021, 16, 331-336.	15.6	145
10	Yolk-shell structured Co-C/Void/Co <sub>9</sub> S <sub>8</sub> composites with a tunable cavity for ultrabroadband and efficient low-frequency microwave absorption. <i>Nano Research</i> , 2018, 11, 4169-4182.	5.8	139
11	Effects of local structure of Ce <sup>3+</sup> ions on luminescent properties of Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Ce nanoparticles. <i>Scientific Reports</i> , 2016, 6, 22238.	1.6	109
12	Controllable permittivity in 3D Fe <sub>3</sub> O <sub>4</sub> /CNTs network for remarkable microwave absorption performances. <i>RSC Advances</i> , 2017, 7, 26801-26808.	1.7	104
13	Efficient microwave absorber and supercapacitors derived from puffed-rice-based biomass carbon: Effects of activating temperature. <i>Journal of Colloid and Interface Science</i> , 2021, 594, 290-303.	5.0	99
14	Sequential Synthesis and Active-Site Coordination Principle of Precious Metal Single-Atom Catalysts for Oxygen Reduction Reaction and PEM Fuel Cells. <i>Advanced Energy Materials</i> , 2020, 10, 2000689.	10.2	92
15	Environmentally Tough and Stretchable MXene Organohydrogel with Exceptionally Enhanced Electromagnetic Interference Shielding Performances. <i>Nano-Micro Letters</i> , 2022, 14, 77.	14.4	91
16	Structure evolution of Prussian blue analogues to CoFe@C core-shell nanocomposites with good microwave absorbing performances. <i>RSC Advances</i> , 2016, 6, 105644-105652.	1.7	81
17	Hydrogen Passivation of M <sup>N</sup> -C (M = Fe, Co) Catalysts for Storage Stability and ORR Activity Improvements. <i>Advanced Materials</i> , 2021, 33, e2103600.	11.1	81
18	Boosting electrocatalytic water splitting via metal-metalloid combined modulation in quaternary Ni-Fe-P-B amorphous compound. <i>Nano Research</i> , 2020, 13, 447-454.	5.8	77

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19	Antiferromagnetic Piezospintronics. <i>Advanced Electronic Materials</i> , 2019, 5, 1900176.	2.6	73
20	Recent advances in magnesium-based hydrogen storage materials with multiple catalysts. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 10694-10712.	3.8	71
21	Enhanced high-frequency absorption of anisotropic Fe <sub>3</sub> O <sub>4</sub> /graphene nanocomposites. <i>Scientific Reports</i> , 2016, 6, 25075.	1.6	69
22	Effect of Ti substitution on hydrogen storage properties of Zr <sub>1-x</sub> Ti <sub>x</sub> Co (x = 0, 0.1, 0.2, 0.3) alloys. <i>Journal of Energy Chemistry</i> , 2014, 23, 9-14.	7.1	68
23	Synergy between metallic components of MoNi alloy for catalyzing highly efficient hydrogen storage of MgH <sub>2</sub> . <i>Nano Research</i> , 2020, 13, 2063-2071.	5.8	64
24	Hierarchical Cobalt Selenides as Highly Efficient Microwave Absorbers with Tunable Frequency Response. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 1222-1231.	4.0	62
25	Flaky FeSiAl alloy-carbon nanotube composite with tunable electromagnetic properties for microwave absorption. <i>Scientific Reports</i> , 2016, 6, 35377.	1.6	56
26	MWCNTs as Conductive Network for Monodispersed Fe <sub>3</sub> O <sub>4</sub> Nanoparticles to Enhance the Wave Absorption Performances. <i>Advanced Engineering Materials</i> , 2018, 20, 1700543.	1.6	50
27	An Efficient Co/C Microwave Absorber with Tunable Co Nanoparticles Derived from a ZnCo Bimetallic Zeolitic Imidazolate Framework. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1800107.	1.2	47
28	Surface-oxidized FeCo/carbon nanotubes nanorods for lightweight and efficient microwave absorbers. <i>Materials and Design</i> , 2017, 136, 13-22.	3.3	46
29	Surfactant-free synthesis of octahedral ZnO/ZnFe <sub>2</sub> O <sub>4</sub> heterostructure with ultrahigh and selective adsorption capacity of malachite green. <i>Scientific Reports</i> , 2016, 6, 25074.	1.6	44
30	Fe <sub>3</sub> O <sub>4</sub> Nanoflower-Carbon Nanotube Composites for Microwave Shielding. <i>ACS Applied Nano Materials</i> , 2019, 2, 5475-5482.	2.4	42
31	A layered double hydroxide-derived exchange spring magnet array grown on graphene and its application as an ultrathin electromagnetic wave absorbing material. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12270-12277.	2.7	42
32	Surface-Oxidized Amorphous Fe Nanoparticles Supported on Reduced Graphene Oxide Sheets for Microwave Absorption. <i>ACS Applied Nano Materials</i> , 2019, 2, 4367-4376.	2.4	37
33	High-frequency electromagnetic properties of the manganese ferrite nanoparticles. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	34
34	Static and Dynamic Magnetization of Gradient FeNi Alloy Nanowire. <i>Scientific Reports</i> , 2016, 6, 20427.	1.6	28
35	Carbon black-supported FM@N@C (FM = Fe, Co, and Ni) single-atom catalysts synthesized by the self-catalysis of oxygen-coordinated ferrous metal atoms. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13166-13172.	5.2	27
36	Template-Free Formation of Uniform Fe <sub>3</sub> O <sub>4</sub> Hollow Nanoflowers Supported on Reduced Graphene Oxide and Their Excellent Microwave Absorption Performances. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1701049.	0.8	26

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37	Chemical Synthesis of High-Stable Amorphous FeCo Nanoalloys with Good Magnetic Properties. <i>Nanomaterials</i> , 2018, 8, 154.	1.9	26
38	Doping and interface engineering in a sandwich $\text{Ti}_3\text{C}_2\text{T}_x/\text{MoS}_2/\text{P}$ heterostructure for efficient hydrogen evolution. <i>Journal of Materials Chemistry C</i> , 2022, 10, 4140-4147.	2.7	26
39	Facile synthesis of various $\text{Co}_3\text{O}_4$ /bio-activated carbon electrodes for hybrid capacitor device application. <i>Journal of Alloys and Compounds</i> , 2022, 891, 161967.	2.8	22
40	Carbon Fibers Embedded with Aligned Magnetic Particles for Efficient Electromagnetic Energy Absorption and Conversion. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 5266-5274.	4.0	21
41	Clarifying the preferential occupation of $\text{Ga}^{3+}$ ions in YAG:Ce,Ga nanocrystals with various $\text{Ga}^{3+}$ -doping concentrations by nuclear magnetic resonance spectroscopy. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10691-10700.	2.7	20
42	Solvothermal synthesis and good microwave absorbing properties for magnetic porous- $\text{Fe}_3\text{O}_4$ /graphene nanocomposites. <i>AIP Advances</i> , 2017, 7, .	0.6	19
43	Plasmon-Enhanced Oxygen Evolution Catalyzed by $\text{Fe}_2\text{N}$ -Embedded $\text{TiO}_2\text{N}_x$ Nanoshells. <i>ACS Applied Energy Materials</i> , 2020, 3, 146-151.	2.5	18
44	Hydrogen Passivation of $\text{Mn}^{\text{II}}\text{C}$ ( $\text{M} = \text{Fe, Co}$ ) Catalysts for Storage Stability and ORR Activity Improvements ( <i>Adv. Mater.</i> 38/2021). <i>Advanced Materials</i> , 2021, 33, 2170300.	11.1	17
45	Multiple reflection and scattering effects of the lotus seedpod-based activated carbon decorated with $\text{Co}_3\text{O}_4$ microwave absorbent. <i>Journal of Colloid and Interface Science</i> , 2021, 602, 344-354.	5.0	16
46	Non-classical hydrogen storage mechanisms other than chemisorption and physisorption. <i>Applied Physics Reviews</i> , 2022, 9, .	5.5	16
47	Dielectric parameters of activated carbon derived from rosewood and corncob. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 18077-18084.	1.1	14
48	Multiscale influence of trace Tb addition on the magnetostriction and ductility of $\langle 100 \rangle$ -oriented directionally solidified Fe-Ga crystals. <i>Physical Review Materials</i> , 2019, 3, .		
49	3-D hierarchical urchin-like $\text{Fe}_3\text{O}_4$ /CNTs architectures enable efficient electromagnetic microwave absorption. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 281, 115721.	1.7	14
50	Controlled Morphologies and Intrinsic Magnetic Properties of Chemically Synthesized Large-Grain FeCo Particles. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015, 28, 1863-1869.	0.8	13
51	Synthesis and Physical Properties of Mn Doped ZnO Dilute Magnetic Semiconductor Nanostructures. <i>Journal of Superconductivity and Novel Magnetism</i> , 2011, 24, 699-704.	0.8	12
52	Spatial porosity design of $\text{Fe}^{\text{II}}\text{C}$ catalysts for high power density PEM fuel cells and detection of water saturation of the catalyst layer by a microwave method. <i>Journal of Materials Chemistry A</i> , 2022, 10, 7764-7772.	5.2	11
53	Roles of L1 ordering in controlling the magnetic anisotropy and coercivity of (111)-oriented CoPt ultrathin continuous layers in CoPt/AlN multilayer films. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	9
54	High-Frequency Absorption of the Hybrid Composites with Spindle-like $\text{Fe}_3\text{O}_4$ Nanoparticles and Multiwalled Carbon Nanotubes. <i>Nano</i> , 2016, 11, 1650097.	0.5	8

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55	Effect of aspect ratio on microstructure and magnetic properties of spinel CoFe <sub>2</sub> O <sub>4</sub> nanowire arrays. Applied Physics A: Materials Science and Processing, 2011, 105, 177-181.	1.1	7
56	Magnetic and Microwave Absorption Properties of Core/Shell FeCo-Based Nanocomposites Synthesized by a Simple Wet Chemical Method. IEEE Transactions on Magnetics, 2011, 47, 3456-3459.	1.2	6
57	Structural Formation and Improved Performances of Chemically Synthesized Composition-Controlled Micron-Sized Fe <sub>100-x</sub> Co <sub>x</sub> Particles. Journal of Superconductivity and Novel Magnetism, 2016, 29, 417-422.	0.8	5
58	Spin reorientation transition in (111) textured L10 CoPt layers. Applied Physics A: Materials Science and Processing, 2012, 109, 69-73.	1.1	4
59	Size Influence to the High-Frequency Properties of Granular Magnetite Nanoparticles. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	4
60	Facile Synthesis of Amorphous MoCo Lamellar Hydroxide for Alkaline Water Oxidation. ChemSusChem, 2022, 15, .	3.6	4
61	Curie temperatures of CoPt ultrathin continuous films. Applied Physics A: Materials Science and Processing, 2012, 107, 519-523.	1.1	3
62	Electromagnetic Properties of Co <sub>3</sub> O <sub>4</sub> /Reduced Graphene Oxide Nanocomposite. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	2
63	Photocatalytic activity of Fe <sub>3</sub> O <sub>4</sub> /Bi <sub>2</sub> MoO <sub>6</sub> composite in Rhodamine B decomposition. Journal of Applied Physics, 2015, 117, 17D709.	1.1	2
64	Photocatalytic Activity of Magnetically Retrievable Bi <sub>2</sub> WO <sub>6</sub> /ZnFe <sub>2</sub> O <sub>4</sub> Adsorbent for Rhodamine B. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	1
65	Temperature-Driven Spin Reorientation Transition in CoPt/AlN Multilayer Films. Journal of Nanomaterials, 2012, 2012, 1-7.	1.5	0
66	Magnetically induced abnormal grain growth in pure nickel. Materials Science and Technology, 2019, 35, 1533-1538.	0.8	0