

# Congpu Mu

## List of Publications by Year in descending order

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81  
papers

2,217  
citations

218677

26  
h-index

254184

43  
g-index

81  
all docs

81  
docs citations

81  
times ranked

3066  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microwave Absorption Properties of CoS <sub>2</sub> Nanocrystals Embedded into Reduced Graphene Oxide. ACS Applied Materials & Interfaces, 2017, 9, 28868-28875.	8.0	215
2	Activated hard carbon from orange peel for lithium/sodium ion battery anode with long cycle life. Journal of Alloys and Compounds, 2017, 701, 870-874.	5.5	131
3	Fabrication of NiCo <sub>2</sub> -Anchored Graphene Nanosheets by Liquid-Phase Exfoliation for Excellent Microwave Absorbers. ACS Applied Materials & Interfaces, 2017, 9, 12673-12679.	8.0	111
4	Microwave Synthesized Three-dimensional Hierarchical Nanostructure CoS <sub>2</sub> /MoS <sub>2</sub> Growth on Carbon Fiber Cloth: A Bifunctional Electrode for Hydrogen Evolution Reaction and Supercapacitor. Electrochimica Acta, 2016, 212, 941-949.	5.2	93
5	Flexible Black-Phosphorus Nanoflake/Carbon Nanotube Composite Paper for High-Performance All-Solid-State Supercapacitors. ACS Applied Materials & Interfaces, 2017, 9, 44478-44484.	8.0	89
6	Two-dimensional materials and one-dimensional carbon nanotube composites for microwave absorption. Nanotechnology, 2018, 29, 025704.	2.6	71
7	Atomically Resolving Polymorphs and Crystal Structures of In <sub>2</sub> Se <sub>3</sub> . Chemistry of Materials, 2019, 31, 10143-10149.	6.7	71
8	Carbon-Encapsulated Co <sub>3</sub> O <sub>4</sub> @CoO@Co Nanocomposites for Multifunctional Applications in Enhanced Long-life Lithium Storage, Supercapacitor and Oxygen Evolution Reaction. Electrochimica Acta, 2016, 220, 322-330.	5.2	68
9	Lateral Bilayer MoS <sub>2</sub> WS <sub>2</sub> Heterostructure Photodetectors with High Responsivity and Detectivity. Advanced Optical Materials, 2019, 7, 1900815.	7.3	65
10	Two-dimensional Germanium Phosphide Reinforced Conductive and Biodegradable Hydrogel Scaffolds Enhance Spinal Cord Injury Repair. Advanced Functional Materials, 2021, 31, 2104440.	14.9	65
11	SnS <sub>2</sub> Nanoflakes Anchored Graphene obtained by Liquid Phase Exfoliation and MoS <sub>2</sub> Nanosheet Composites as Lithium and Sodium Battery Anodes. Electrochimica Acta, 2017, 227, 203-209.	5.2	57
12	Application of hard ceramic materials B <sub>4</sub> C in energy storage: Design B <sub>4</sub> C@C core-shell nanoparticles as electrodes for flexible all-solid-state micro-supercapacitors with ultrahigh cyclability. Nano Energy, 2020, 75, 104947.	16.0	47
13	Photodetectors based on sensitized two-dimensional transition metal dichalcogenides—A review. Journal of Materials Research, 2017, 32, 4115-4131.	2.6	46
14	Facile synthesis and excellent electrochemical performance of CoP nanowire on carbon cloth as bifunctional electrode for hydrogen evolution reaction and supercapacitor. Science China Materials, 2017, 60, 1179-1186.	6.3	42
15	Grain-boundary-rich polycrystalline monolayer WS <sub>2</sub> film for attomolar-level Hg <sup>2+</sup> sensors. Nature Communications, 2021, 12, 3870.	12.8	42
16	Superior microwave absorption properties of ultralight reduced graphene oxide/black phosphorus aerogel. Nanotechnology, 2018, 29, 235604.	2.6	41
17	Polypyrrole coated 3D flower MoS <sub>2</sub> composites with tunable impedance for excellent microwave absorption performance. Journal of Alloys and Compounds, 2021, 888, 161487.	5.5	38
18	Two-dimensional periodic boundary conditions for demagnetization interactions in micromagnetics. Computational Materials Science, 2010, 49, 84-87.	3.0	35

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19	Well-controlled Core-shell structures based on Fe <sub>3</sub> O <sub>4</sub> nanospheres coated by polyaniline for highly efficient microwave absorption. <i>Applied Surface Science</i> , 2022, 591, 153176.	6.1	35
20	Broadband photodetector of high quality Sb <sub>2</sub> S <sub>3</sub> nanowire grown by chemical vapor deposition. <i>Journal of Materials Science and Technology</i> , 2021, 75, 14-20.	10.7	34
21	Liquid-exfoliation of S-doped black phosphorus nanosheets for enhanced oxygen evolution catalysis. <i>Nanotechnology</i> , 2019, 30, 035701.	2.6	32
22	Microwave absorption characteristics of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite/carbon nanotube composites. <i>Journal of Materials Science</i> , 2017, 52, 13023-13032.	3.7	31
23	Facile preparation of CoS <sub>2</sub> nanoparticles embedded into polyaniline with tunable electromagnetic wave absorption performance. <i>Materials Chemistry and Physics</i> , 2020, 246, 122835.	4.0	31
24	Metal-organic framework derived cobalt phosphosulfide with ultrahigh microwave absorption properties. <i>Nanotechnology</i> , 2018, 29, 405703.	2.6	30
25	Fabrication of multifunctional carbon encapsulated Ni@NiO nanocomposites for oxygen reduction, oxygen evolution and lithium-ion battery anode materials. <i>Science China Materials</i> , 2017, 60, 947-954.	6.3	29
26	Dynamic micromagnetic simulation of permalloy antidot array film. <i>Physica B: Condensed Matter</i> , 2010, 405, 1325-1328.	2.7	26
27	Ultrahigh-Gain and Fast Photodetectors Built on Atomically Thin Bilayer Tungsten Disulfide Grown by Chemical Vapor Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 42001-42010.	8.0	26
28	Facile-synthesized carbonaceous photonic crystals/magnetic particle nano hybrids with heterostructure as an excellent microwave absorber. <i>Journal of Alloys and Compounds</i> , 2018, 741, 814-820.	5.5	25
29	Microwave absorbing properties of two dimensional materials GeP <sub>5</sub> enhanced after annealing treatment. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	24
30	Microwave absorption properties of heterostructure composites of two dimensional layered magnetic materials and graphene nanosheets. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	23
31	Silicon-Phosphorus-Nanosheets-Integrated 3D-Printable Hydrogel as a Bioactive and Biodegradable Scaffold for Vascularized Bone Regeneration. <i>Advanced Healthcare Materials</i> , 2022, 11, e2101911.	7.6	23
32	Photoluminescence and Raman Spectra Oscillations Induced by Laser Interference in Annealing-Created Monolayer WS <sub>2</sub> Bubbles. <i>Advanced Optical Materials</i> , 2019, 7, 1801373.	7.3	21
33	Microwave Synthesized In <sub>2</sub> S <sub>3</sub> @CNTs with Excellent Properties in Lithium-Ion Battery and Electromagnetic Wave Absorption. <i>Chinese Journal of Chemistry</i> , 2018, 36, 157-161.	4.9	20
34	Three dimensional bimetallic phosphides nanoneedle arrays as electrode materials for symmetric all-solid-state supercapacitor. <i>Journal of Alloys and Compounds</i> , 2019, 787, 618-624.	5.5	18
35	Enhanced electromagnetic wave absorption properties of NiCo <sub>2</sub> nanoparticles interspersed with carbon nanotubes. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 471, 185-191.	2.3	18
36	Strain Release Induced Novel Fluorescence Variation in CVD-Grown Monolayer WS <sub>2</sub> Crystals. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 34071-34077.	8.0	17

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37	Layered porous materials indium triphosphide InP <sub>3</sub> for high-performance flexible all-solid-state supercapacitors. <i>Journal of Power Sources</i> , 2019, 438, 227010.	7.8	17
38	High-Performance Broadband Photodetectors of Heterogeneous 2D Inorganic Molecular Sb <sub>2</sub> O <sub>3</sub> /Monolayer MoS <sub>2</sub> Crystals Grown via Chemical Vapor Deposition. <i>Advanced Optical Materials</i> , 2020, 8, 2000168.	7.3	17
39	Effect of layer and stacking sequence in simultaneously grown 2H and 3R WS <sub>2</sub> atomic layers. <i>Nanotechnology</i> , 2019, 30, 345203.	2.6	16
40	Dynamic susceptibility of onion in ferromagnetic elliptical nanoring. <i>AIP Advances</i> , 2016, 6, .	1.3	15
41	Improved photoresponse and stable photoswitching of tungsten disulfide single-layer phototransistor decorated with black phosphorus nanosheets. <i>Journal of Materials Science</i> , 2017, 52, 11506-11512.	3.7	15
42	Facile Synthesis of Carbon-Encapsulated Ni Nanoparticles Embedded into Porous Graphite Sheets as High-Performance Microwave Absorber. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 16179-16185.	6.7	15
43	Static and dynamic characteristics of magnetism in permalloy oval nanoring by micromagnetic simulation. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 474, 301-304.	2.3	15
44	Flexible graphene/bacterial celluloses Janus structure film with excellent electromagnetic interference shielding and Joule heating performance. <i>Materials Chemistry and Physics</i> , 2022, 287, 126318.	4.0	15
45	Grain wall boundaries in centimeter-scale continuous monolayer WS <sub>2</sub> film grown by chemical vapor deposition. <i>Nanotechnology</i> , 2018, 29, 255705.	2.6	14
46	Facile preparation of carbon nanosheet frameworks/magnetic nanohybrids with heterogeneous interface as an excellent microwave absorber. <i>Journal of Alloys and Compounds</i> , 2020, 838, 155586.	5.5	14
47	Flexible Aramid Nanofiber/Bacterial Cellulose/Graphene Papers with Nickel Nanoparticles for Enhanced Electromagnetic Interference Shielding and Joule Heating Performance. <i>ACS Applied Nano Materials</i> , 2022, 5, 5589-5598.	5.0	14
48	Multifunctional Bacterial Cellulose Nanofibers/Polypyrrole (PPy) Composite Films for Joule Heating and Electromagnetic Interference Shielding. <i>ACS Applied Electronic Materials</i> , 2022, 4, 2552-2560.	4.3	14
49	Thermo-electric effect in a nano-sized crossed Permalloy/Cu junction under high bias current. <i>Applied Physics Letters</i> , 2013, 103, 132408.	3.3	13
50	Simple preparation and excellent microwave attenuation property of Fe <sub>3</sub> O <sub>4</sub> - and FeS <sub>2</sub> - decorated graphene nanosheets by liquid-phase exfoliation. <i>Journal of Alloys and Compounds</i> , 2019, 810, 151881.	5.5	13
51	One-step growth of wafer-scale monolayer tungsten disulfide via hydrogen sulfide assisted chemical vapor deposition. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	13
52	Photodetection application of one-step synthesized wafer-scale monolayer MoS <sub>2</sub> by chemical vapor deposition. <i>2D Materials</i> , 2020, 7, 025020.	4.4	13
53	Enhanced microwave absorption properties of MnS <sub>2</sub> microspheres interspersed with carbon nanotubes. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 502, 166432.	2.3	13
54	High-sensitivity and versatile plasmonic biosensor based on grain boundaries in polycrystalline 1L WS <sub>2</sub> films. <i>Biosensors and Bioelectronics</i> , 2021, 194, 113596.	10.1	13

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55	One-Step Growth of Spatially Graded Mo <sub>1-x</sub> W <sub>x</sub> S <sub>2</sub> Monolayers with a Wide Span in Composition (from $x = 0$ to 1) at a Large Scale. ACS Applied Materials & Interfaces, 2019, 11, 20979-20986.	8.0	12
56	Calculations of three-dimensional magnetic excitations in permalloy nanostructures with vortex state. Journal of Magnetism and Magnetic Materials, 2010, 322, 2480-2484.	2.3	11
57	Pressure Effect on Order-Disorder Ferroelectric Transition in a Hydrogen-Bonded Metal-Organic Framework. Journal of Physical Chemistry Letters, 2020, 11, 9566-9571.	4.6	11
58	In Situ Grown Ultrafine RuO <sub>2</sub> Nanoparticles on GeP <sub>5</sub> Nanosheets as the Electrode Material for Flexible Planar Micro-Supercapacitors with High Specific Capacitance and Cyclability. ACS Applied Materials & Interfaces, 2021, 13, 47560-47571.	8.0	11
59	High-Performance Aqueous Asymmetric Supercapacitors Based on Microwave-Synthesized Self-Supported NiCo <sub>2</sub> O <sub>4</sub> Nanograss and Carbide-Derived Carbon. ChemistrySelect, 2020, 5, 2865-2870.	1.5	10
60	High-performance flexible all-solid-state micro-supercapacitors based on two-dimensional InSe nanosheets. Journal of Power Sources, 2021, 482, 228987.	7.8	10
61	Accelerated Degradation of CrCl <sub>3</sub> Nanoflakes Induced by Metal Electrodes: Implications for Remediation in Nanodevice Fabrication. ACS Applied Nano Materials, 2019, 2, 1597-1603.	5.0	9
62	Low current density spin-transfer torque effect assisted by in-plane microwave field. Applied Physics Letters, 2011, 99, 032502.	3.3	8
63	Propagating and reflecting of spin wave in permalloy nanostrip with 360° domain wall. Journal of Applied Physics, 2014, 115, 013908.	2.5	8
64	Enhanced giant magnetoimpedance in heterogeneous nanobrush. Nanoscale Research Letters, 2012, 7, 506.	5.7	7
65	Two-dimensional layered materials InSe nanoflakes/carbon nanotubes composite for flexible all-solid-state supercapacitors. Journal of Materials Science, 2020, 55, 2947-2957.	3.7	7
66	Influence of van der Waals epitaxy on phase transformation behaviors in 2D heterostructure. Applied Physics Letters, 2020, 116, .	3.3	7
67	Faster 360° domain wall motion in nanostrip induced by spin-polarized current with out-of-plane magnetic field. Physica B: Condensed Matter, 2012, 407, 4584-4587.	2.7	6
68	Current-induced collective motion of 180° and 360° domain walls in double nanowires system. Journal of Magnetism and Magnetic Materials, 2013, 347, 124-130.	2.3	6
69	Micromagnetic simulation for detection of magnetic nanobeads by spin torque oscillator. Journal of Magnetism and Magnetic Materials, 2017, 432, 387-390.	2.3	6
70	Carbonaceous photonic crystals prepared by high-temperature/hydrothermal carbonization as high-performance microwave absorbers. Journal of Materials Science, 2019, 54, 14343-14353.	3.7	6
71	Room-temperature electric field modulation of magnetization in a helimagnet. Journal Physics D: Applied Physics, 2020, 53, 025001.	2.8	5
72	Ultrasensitive biochemical sensors based on controllably grown films of high-density edge-rich multilayer WS <sub>2</sub> islands. Sensors and Actuators B: Chemical, 2022, 353, 131081.	7.8	5

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73	Broadband light absorption and photoresponse enhancement in monolayer WSe <sub>2</sub> crystal coupled to Sb <sub>2</sub> O <sub>3</sub> microresonators. Nano Research, 2022, 15, 4653-4660.	10.4	5
74	Direct one-step synthesis of CoFex@Co@C hybrids derived from a metal organic framework for a lightweight and high-performance microwave absorber. Nanotechnology, 2020, 31, 095703.	2.6	4
75	Pressure Control of the Structure and Multiferroicity in a Hydrogen-Bonded Metal-Organic Framework. Inorganic Chemistry, 0, , .	4.0	4
76	Fast Magnetization Switching by Linear Vertical Microwave-Assisted Spin-Transfer Torque. Journal of Nanoscience and Nanotechnology, 2012, 12, 7460-7463.	0.9	3
77	Magnetism and microwave absorption properties of two-dimensional layered ferromagnetic metal Fe <sub>3</sub> GeTe <sub>2</sub> . Journal of Materials Science, 2021, 56, 16524-16532.	3.7	3
78	Faster motion of double 360° domain walls system induced by spin-polarized current. Journal of Applied Physics, 2014, 115, 17D504.	2.5	2
79	Controllable growth of multilayered XSe <sub>2</sub> (X = W and Mo) for nonlinear optical and optoelectronic applications. 2D Materials, 2022, 9, 015012.	4.4	2
80	Critical Current Density and Ferromagnetic Resonance Affected by Perpendicular Anisotropy in Spin Valve. IEEE Transactions on Magnetics, 2015, 51, 1-3.	2.1	0
81	Photoemission oscillation in epitaxially grown van der Waals In <sub>2</sub> Se <sub>3</sub> /WS <sub>2</sub> heterobilayer bubbles*. Chinese Physics B, 2021, 30, 117901.	1.4	0